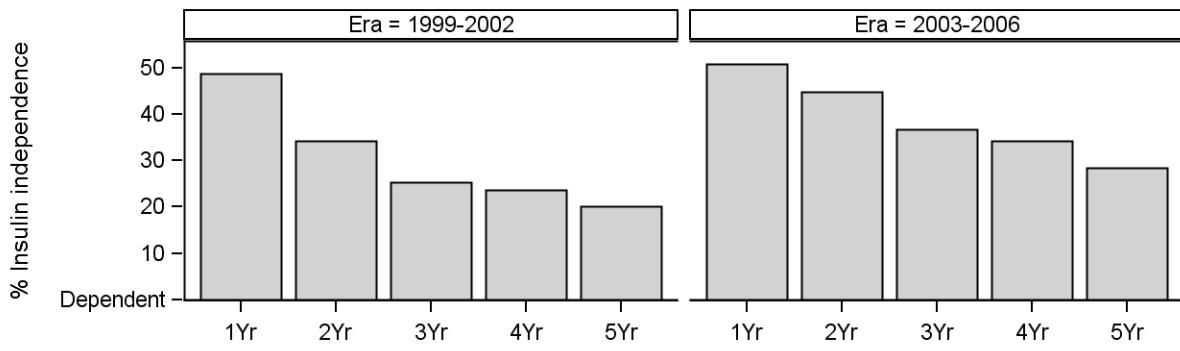
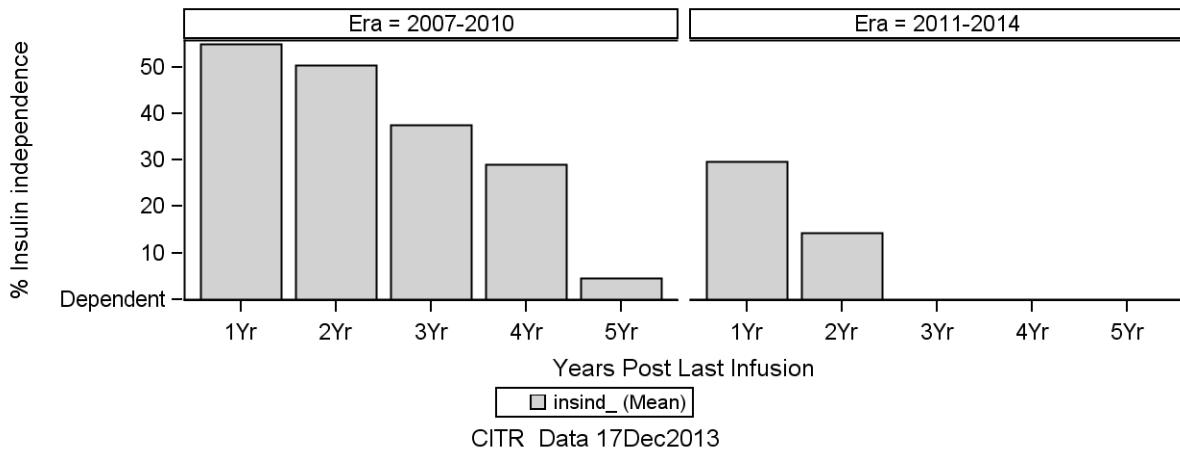


## Insulin independence



CITR Data 17Dec2013



CITR Data 17Dec2013

Era	Years Post Last Infusion				
	1	2	3	4	5
1999-2002	175	173	166	161	150
2003-2006	250	239	226	216	198
2007-2010	195	175	136	83	43
2011-2014	98	28	-	-	-
Total	718	615	528	460	391

Testing at 1-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.3975	0.2101	-0.0143	0.8093	1.89	0.0585
<i>yrspli</i>	-0.3521	0.0683	-0.4860	-0.2182	-5.15	<.0001
<i>era</i>	-0.1111	0.0886	-0.2848	0.0626	-1.25	0.2100
<i>yrspli*era</i>	0.0472	0.0324	-0.0163	0.1106	1.46	0.1451

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***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2557	0.1790	-0.0951	0.6064	1.43	0.1531
<i>yrspli</i>	-0.2644	0.0246	-0.3126	-0.2162	-10.74	<.0001
<i>era</i>	-0.0365	0.0698	-0.1733	0.1003	-0.52	0.6011

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-1.7360	0.8607	-3.4230	-0.0490	-2.02	0.0437
<i>yrspli</i>	0.1242	0.1825	-0.2335	0.4819	0.68	0.4962
<i>era</i>	1.0341	0.4938	0.0663	2.0019	2.09	0.0362
<i>yrspli*era</i>	-0.2088	0.1070	-0.4185	0.0010	-1.95	0.0511

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***The GENMOD Procedure***

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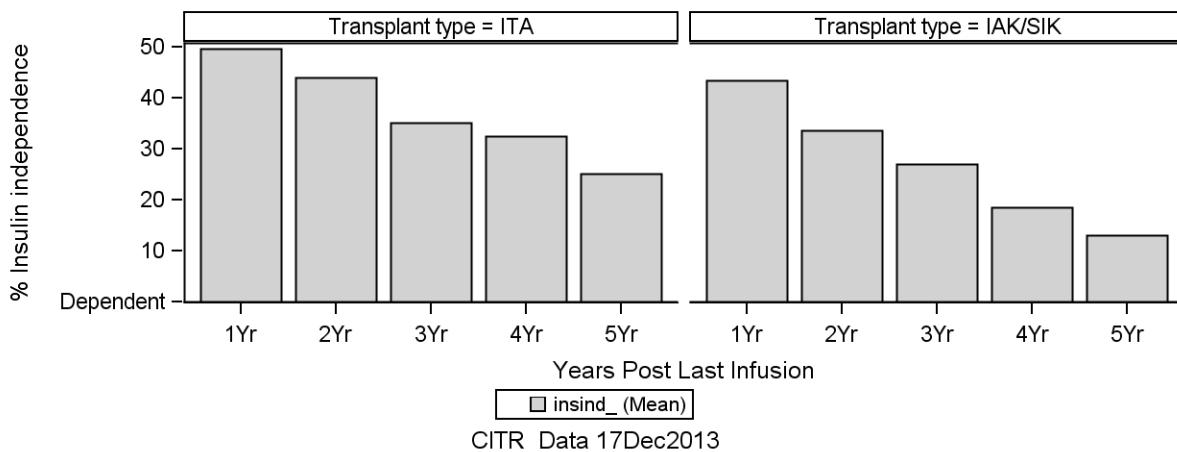
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-0.1609	0.3703	-0.8866	0.5648	-0.43	0.6638
<i>yrspli</i>	-0.2390	0.0632	-0.3629	-0.1150	-3.78	0.0002
<i>era</i>	0.1329	0.1326	-0.1270	0.3928	1.00	0.3161

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Insulin independence



Transplant type	Years Post Last Infusion				
	1	2	3	4	5
ITA	580	493	417	363	307
IAK/SIK	138	122	111	97	84
Total	718	615	528	460	391

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2144	0.0919	0.0343 0.3945	2.33	0.0196
yrspli	-0.2530	0.0270	-0.3059 -0.2002	-9.39	<.0001
typeoftran	-0.1978	0.2213	-0.6315 0.2359	-0.89	0.3713
yrspli*typeoftran	-0.0709	0.0682	-0.2047 0.0628	-1.04	0.2984

### The GENMOD Procedure

---

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2369	0.0893	0.0618 0.4120	2.65	0.0080
yrspli	-0.2653	0.0247	-0.3138 -0.2168	-10.73	<.0001
typeoftran	-0.3126	0.1806	-0.6665 0.0413	-1.73	0.0834

Testing at 4-5 yr

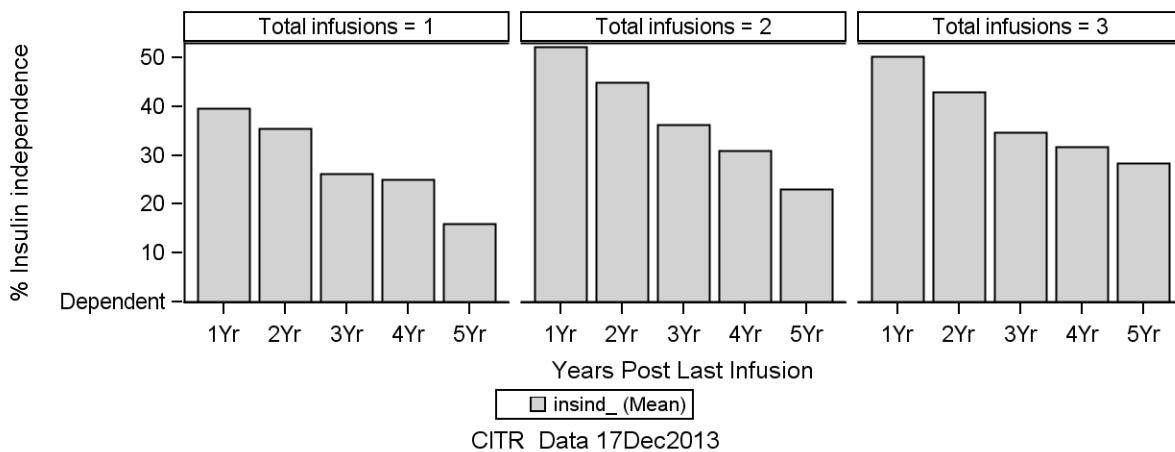
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.2664	0.3166	-0.3542	0.8870	0.84	0.4002
yrspli	-0.2500	0.0688	-0.3849	-0.1151	-3.63	0.0003
typeoftran	-0.8532	0.8324	-2.4847	0.7783	-1.02	0.3054
yrspli*typeoftran	0.0269	0.1823	-0.3305	0.3843	0.15	0.8827

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.2498	0.2967	-0.3317	0.8314	0.84	0.3998
yrspli	-0.2461	0.0638	-0.3712	-0.1210	-3.86	0.0001
typeoftran	-0.7390	0.2790	-1.2857	-0.1922	-2.65	0.0081

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
Total infusions					
1	187	161	137	120	100
2	366	312	270	233	196
3	165	142	121	107	95
Total	718	615	528	460	391

Testing at 1-5 yr

### The GENMOD Procedure

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	-0.2174	0.2495	-0.7064	0.2716	-0.87	0.3835
<i>yrspli</i>	-0.2185	0.0702	-0.3562	-0.0808	-3.11	0.0019
<i>tottx</i>	0.1976	0.1179	-0.0335	0.4288	1.68	0.0937
<i>yrspli*tottx</i>	-0.0232	0.0333	-0.0886	0.0421	-0.70	0.4861

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*The GENMOD Procedure*

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	-0.1413	0.2161	-0.5650	0.2823	-0.65	0.5131
<i>yrspli</i>	-0.2653	0.0247	-0.3138	-0.2169	-10.73	<.0001
<i>tottx</i>	0.1593	0.1003	-0.0373	0.3558	1.59	0.1123

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Testing at 4-5 yr

*The GENMOD Procedure*

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.7648	0.8137	-0.8301	2.3597	0.94	0.3473
<i>yrspli</i>	-0.4919	0.1784	-0.8415	-0.1422	-2.76	0.0058
<i>tottx</i>	-0.3162	0.3624	-1.0264	0.3941	-0.87	0.3829
<i>yrspli*tottx</i>	0.1208	0.0782	-0.0324	0.2741	1.55	0.1223

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*The GENMOD Procedure*

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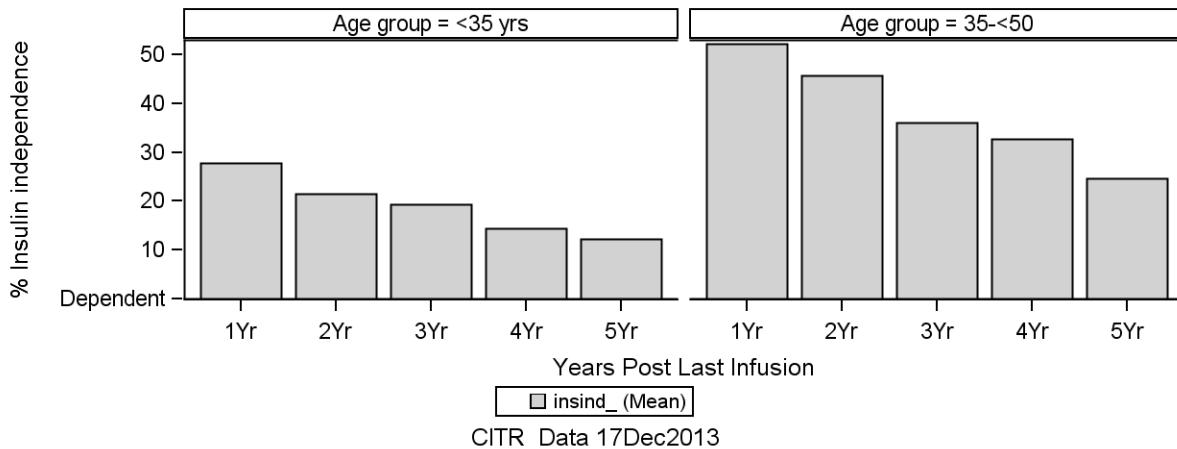
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	-0.2947	0.4133	-1.1048	0.5154	-0.71	0.4758
<i>yrspli</i>	-0.2442	0.0629	-0.3675	-0.1210	-3.88	0.0001
<i>tottx</i>	0.2020	0.1428	-0.0780	0.4819	1.41	0.1573

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Insulin independence



Age group	Years Post Last Infusion				
	1	2	3	4	5
<35 yrs	108	93	83	77	66
35-50	610	522	445	383	325
Total	718	615	528	460	391

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-1.9868	0.4918	-2.9508 -1.0228	-4.04	<.0001
yrspli	-0.1160	0.1479	-0.4059 0.1738	-0.78	0.4327
age_c	1.1630	0.2581	0.6571 1.6689	4.51	<.0001
yrspli*age_c	-0.0818	0.0775	-0.2337 0.0701	-1.06	0.2914

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-1.8099	0.4272	-2.6471 -0.9727	-4.24	<.0001
yrspli	-0.2713	0.0254	-0.3212 -0.2215	-10.67	<.0001
age_c	1.0667	0.2232	0.6292 1.5041	4.78	<.0001

Testing at 4-5 yr

### The GENMOD Procedure

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-3.6593	1.7273	-7.0447	-0.2739	-2.12	0.0341
yrspli	0.2008	0.3626	-0.5098	0.9114	0.55	0.5797
age_c	2.0065	0.9051	0.2325	3.7804	2.22	0.0266
yrspli*age_c	-0.2355	0.1906	-0.6092	0.1381	-1.24	0.2167

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**The GENMOD Procedure**

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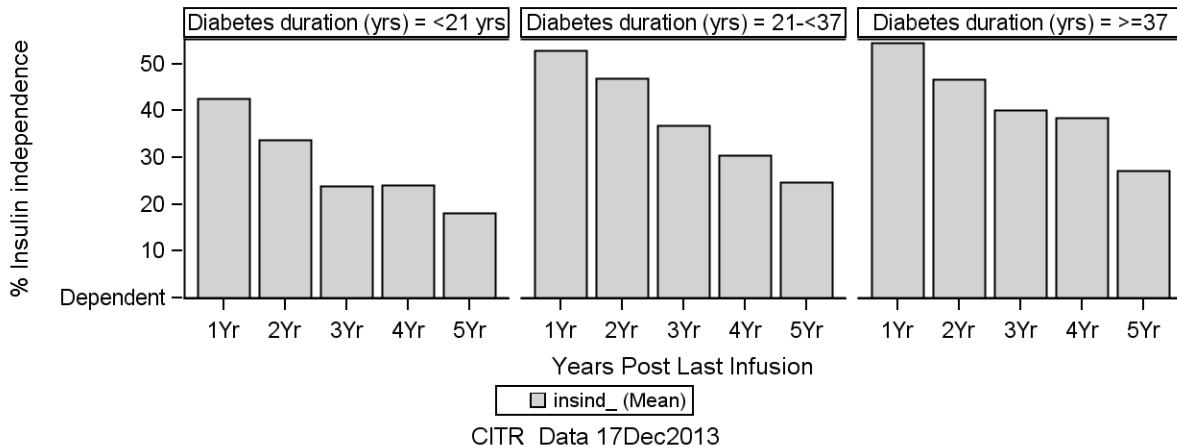
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-1.7669	0.6864	-3.1122	-0.4215	-2.57	0.0101
yrspli	-0.2466	0.0642	-0.3725	-0.1208	-3.84	0.0001
age_c	1.0093	0.3361	0.3507	1.6680	3.00	0.0027

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Insulin independence



Diabetes duration (yrs)	Years Post Last Infusion				
	1	2	3	4	5
<21 yrs	150	136	113	104	88
21-<37	306	269	242	220	191
>=37	178	154	137	109	92
Total	634	559	492	433	371

Testing at 1-5 yr

**The GENMOD Procedure**

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-0.2995	0.2625	-0.8139	0.2149	-1.14	0.2539
<i>yrspli</i>	-0.2467	0.0747	-0.3931	-0.1003	-3.30	0.0010
<i>duration_c</i>	0.2728	0.1204	0.0368	0.5088	2.27	0.0235
<i>yrspli*duration_c</i>	-0.0085	0.0330	-0.0731	0.0562	-0.26	0.7970

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***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-0.2696	0.2272	-0.7148	0.1757	-1.19	0.2354
<i>yrspli</i>	-0.2643	0.0251	-0.3135	-0.2152	-10.54	<.0001
<i>duration_c</i>	0.2577	0.1032	0.0556	0.4599	2.50	0.0125

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-1.8681	0.8818	-3.5963	-0.1399	-2.12	0.0341
<i>yrspli</i>	0.0892	0.1862	-0.2757	0.4542	0.48	0.6319
<i>duration_c</i>	0.9700	0.4398	0.1081	1.8319	2.21	0.0274
<i>yrspli*duration_c</i>	-0.1562	0.0944	-0.3412	0.0289	-1.65	0.0981

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***The GENMOD Procedure***

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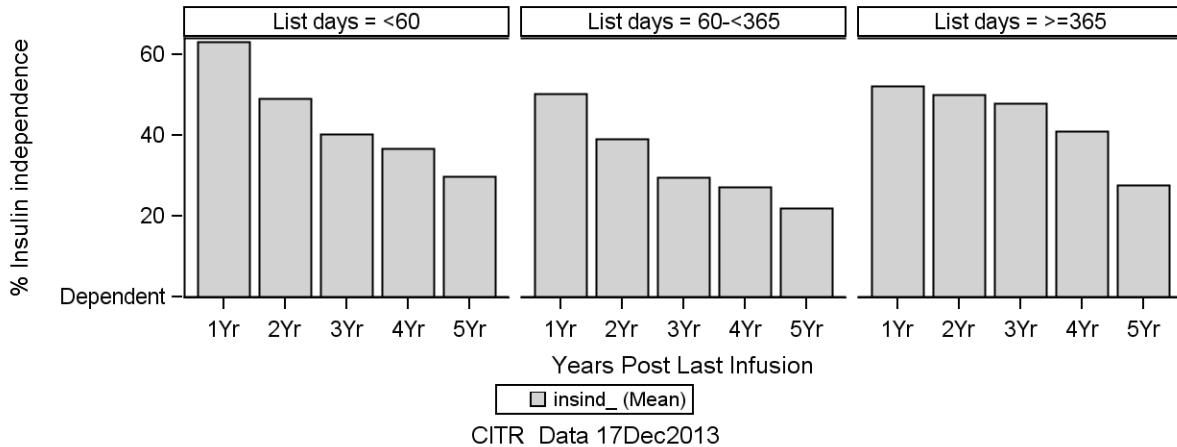
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-0.4683	0.4091	-1.2701	0.3334	-1.14	0.2522
<i>yrspli</i>	-0.2356	0.0636	-0.3602	-0.1109	-3.70	0.0002
<i>duration_c</i>	0.2960	0.1464	0.0090	0.5829	2.02	0.0432

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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
List days					
<60	103	98	87	82	77
60-<365	251	226	210	191	168
>=365	144	124	113	100	87
Total	498	448	410	373	332

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.5769	0.2984	-0.0079 1.1617	1.93	0.0532
yrspli	-0.4010	0.0843	-0.5662 -0.2358	-4.76	<.0001
listdays_c	-0.1248	0.1358	-0.3910 0.1414	-0.92	0.3582
yrspli*listdays_c	0.0662	0.0363	-0.0050 0.1375	1.82	0.0685

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.3253	0.2674	-0.1987 0.8494	1.22	0.2237
yrspli	-0.2648	0.0268	-0.3174 -0.2122	-9.87	<.0001
listdays_c	-0.0009	0.1203	-0.2367 0.2348	-0.01	0.9937

Testing at 4-5 yr

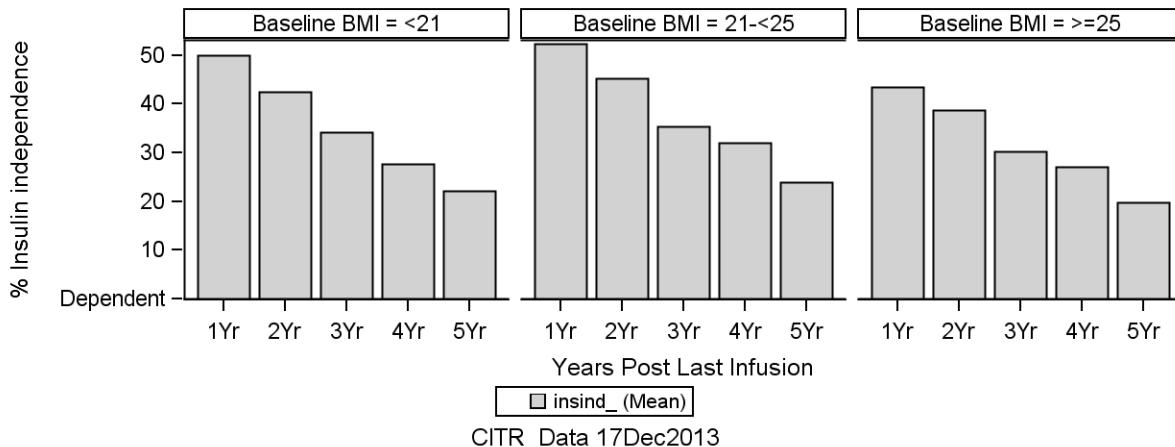
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	-0.6983	0.9729	-2.6052 1.2086	-0.72	0.4729	
yrspli	-0.0698	0.2069	-0.4754 0.3358	-0.34	0.7360	
listdays_c	0.4725	0.4976	-0.5027 1.4477	0.95	0.3423	
yrspli*listdays_c	-0.0859	0.1074	-0.2964 0.1245	-0.80	0.4234	

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.0658	0.4385	-0.7936 0.9253	0.15	0.8807	
yrspli	-0.2452	0.0647	-0.3721 -0.1183	-3.79	0.0002	
listdays_c	0.0983	0.1611	-0.2173 0.4140	0.61	0.5415	

Insulin independence



Baseline BMI	Years Post Last Infusion				
	1	2	3	4	5
<21	116	99	85	76	68
21-25	352	308	277	244	213
>=25	194	171	139	118	96
Total	662	578	501	438	377

Testing at 1-5 yr

***The GENMOD Procedure***

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***Analysis Of GEE Parameter Estimates***

***Empirical Standard Error Estimates***

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.5437	0.2827	-0.0104	1.0979	1.92	0.0545
<i>yrspli</i>	-0.3223	0.0776	-0.4744	-0.1702	-4.15	<.0001
<i>basebmi_c</i>	-0.1616	0.1268	-0.4101	0.0868	-1.28	0.2023
<i>yrspli</i> * <i>basebmi_c</i>	0.0290	0.0350	-0.0396	0.0977	0.83	0.4074

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***The GENMOD Procedure***

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***Analysis Of GEE Parameter Estimates***

***Empirical Standard Error Estimates***

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.4359	0.2459	-0.0461	0.9179	1.77	0.0763
<i>yrspli</i>	-0.2620	0.0250	-0.3109	-0.2130	-10.49	<.0001
<i>basebmi_c</i>	-0.1103	0.1078	-0.3215	0.1009	-1.02	0.3059

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Testing at 4-5 yr

***The GENMOD Procedure***

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***Analysis Of GEE Parameter Estimates***

***Empirical Standard Error Estimates***

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	-0.1194	0.8665	-1.8177	1.5790	-0.14	0.8904
<i>yrspli</i>	-0.1665	0.1854	-0.5299	0.1969	-0.90	0.3692
<i>basebmi_c</i>	0.1080	0.4337	-0.7421	0.9581	0.25	0.8034
<i>yrspli</i> * <i>basebmi_c</i>	-0.0352	0.0941	-0.2196	0.1491	-0.37	0.7081

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***The GENMOD Procedure***

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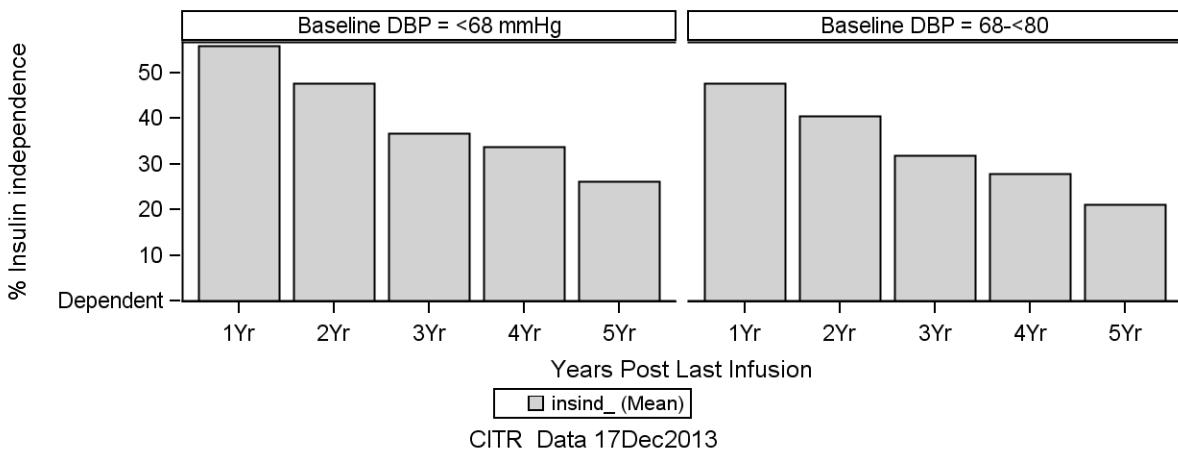
***Analysis Of GEE Parameter Estimates***

***Empirical Standard Error Estimates***

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.1939	0.4262	-0.6415	1.0293	0.45	0.6491
<i>yrspli</i>	-0.2394	0.0633	-0.3635	-0.1153	-3.78	0.0002
<i>basebmi_c</i>	-0.0432	0.1512	-0.3396	0.2532	-0.29	0.7749

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Insulin independence



Years Post Last Infusion					
	1	2	3	4	5
<i>Baseline DBP</i>					
<68 mmHg	170	147	117	95	80
68-80	437	388	354	319	276
Total	607	535	471	414	356

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.7165	0.3555	0.0197 1.4134	2.02	0.0439
yrspli	-0.2425	0.0991	-0.4366 -0.0483	-2.45	0.0144
basedbp_c	-0.2845	0.2004	-0.6772 0.1083	-1.42	0.1557
yrspli*basedbp_c	-0.0175	0.0565	-0.1283 0.0933	-0.31	0.7570

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.7754	0.3053	0.1770 1.3738	2.54	0.0111
yrspli	-0.2730	0.0263	-0.3245 -0.2215	-10.40	<.0001
basedbp_c	-0.3178	0.1689	-0.6489 0.0132	-1.88	0.0599

Testing at 4-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.8243	1.1278	-1.3861 3.0346	0.73	0.4649
yrspli	-0.3066	0.2422	-0.7814 0.1682	-1.27	0.2056
basedbp_c	-0.4608	0.6438	-1.7227 0.8011	-0.72	0.4741
yrspli*basedbp_c	0.0464	0.1386	-0.2253 0.3181	0.33	0.7378

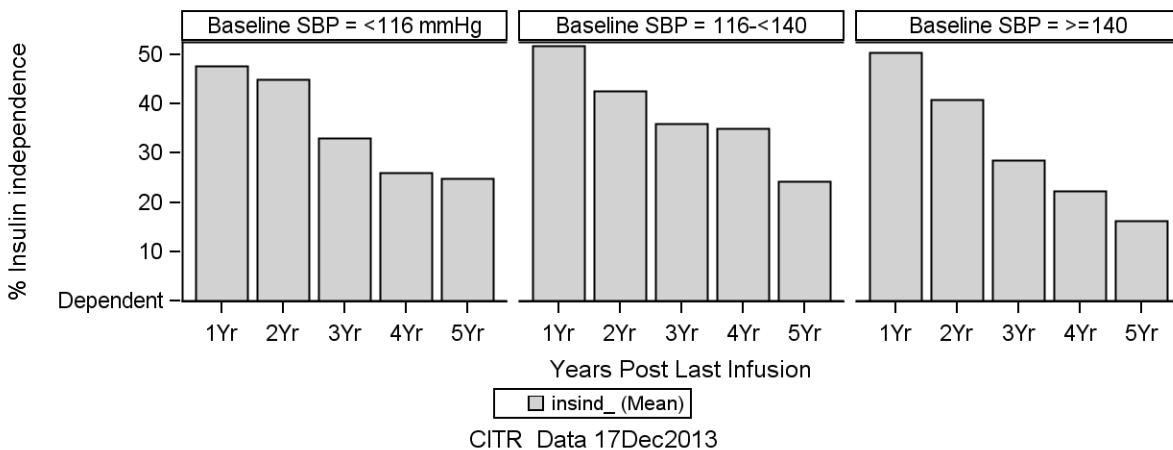
### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.4746	0.5280	-0.5603 1.5094	0.90	0.3687
yrspli	-0.2256	0.0652	-0.3534 -0.0978	-3.46	0.0005
basedbp_c	-0.2607	0.2471	-0.7450 0.2237	-1.05	0.2915

Insulin independence



Baseline SBP	Years Post Last Infusion				
	1	2	3	4	5
<116 mmHg	166	138	118	104	89
116-140	292	263	231	203	174
>=140	149	135	123	108	93
Total	607	536	472	415	356

CITR Data 17Dec2013

Testing at 1-5 yr

**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates						
Parameter	Empirical Standard Error Estimates					
	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.0372	0.2721	-0.4961 0.5705	0.14	0.8912	
yrspli	-0.1639	0.0786	-0.3179 -0.0099	-2.09	0.0370	
basesbp_c	0.1022	0.1277	-0.1481 0.3525	0.80	0.4235	
yrspli*basesbp_c	-0.0544	0.0370	-0.1270 0.0182	-1.47	0.1419	

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**The GENMOD Procedure**

---

Analysis Of GEE Parameter Estimates						
Parameter	Empirical Standard Error Estimates					
	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.2459	0.2229	-0.1910 0.6828	1.10	0.2700	
yrspli	-0.2720	0.0259	-0.3228 -0.2212	-10.49	<.0001	
basesbp_c	-0.0031	0.1020	-0.2031 0.1969	-0.03	0.9756	

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Testing at 4-5 yr

**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates						
Parameter	Empirical Standard Error Estimates					
	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	-0.8633	0.8568	-2.5426 0.8159	-1.01	0.3136	
yrspli	0.0449	0.1854	-0.3185 0.4084	0.24	0.8086	
basesbp_c	0.4558	0.4445	-0.4155 1.3271	1.03	0.3052	
yrspli*basesbp_c	-0.1384	0.0977	-0.3298 0.0531	-1.42	0.1567	

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**The GENMOD Procedure**

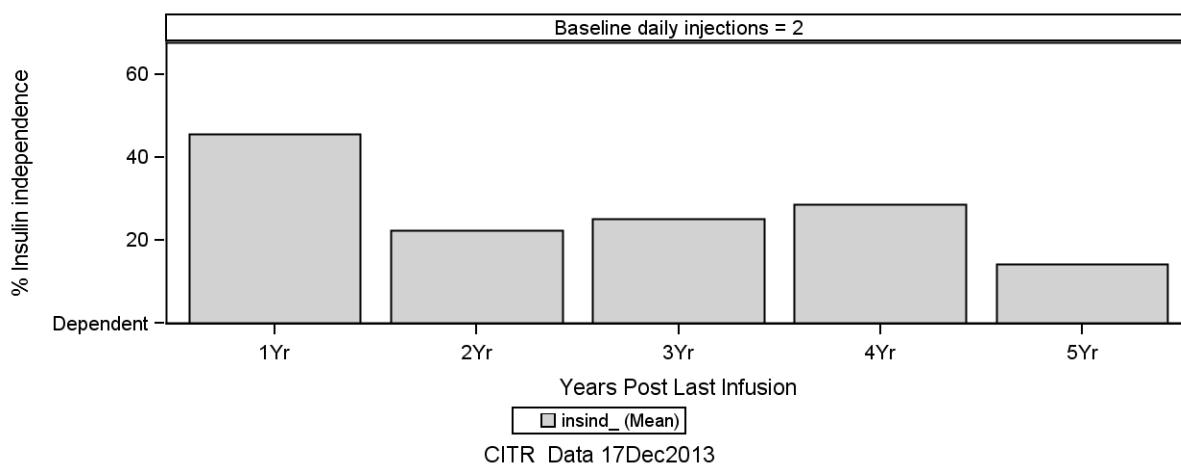
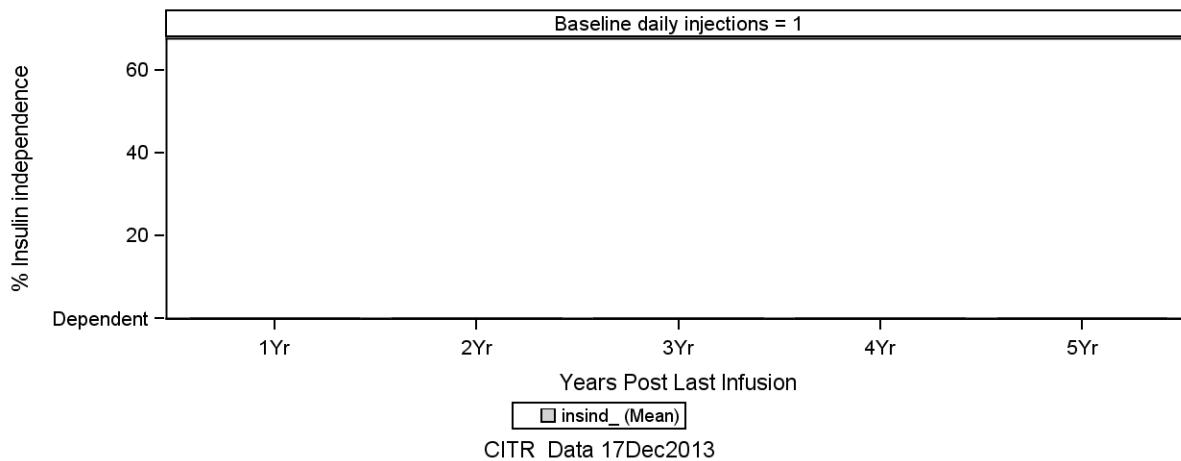
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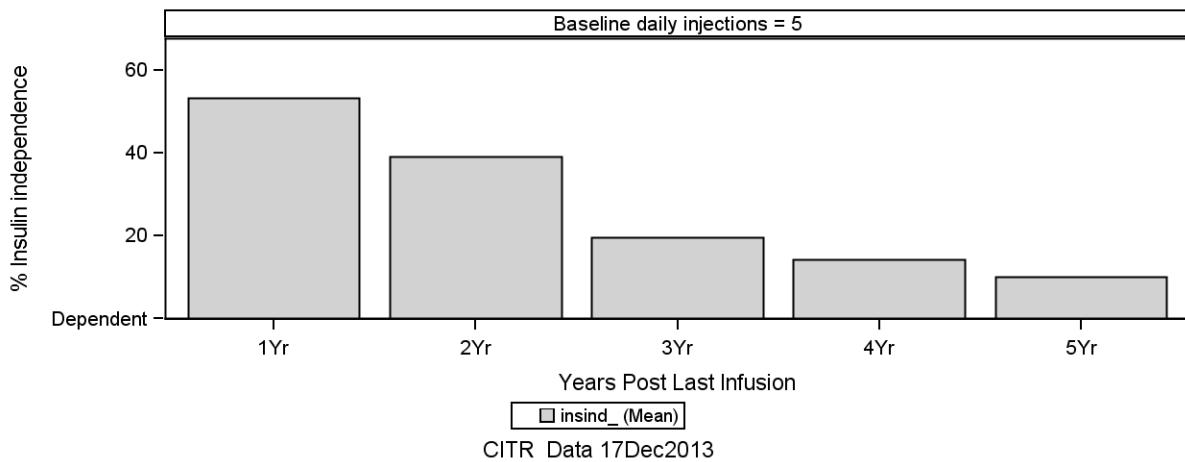
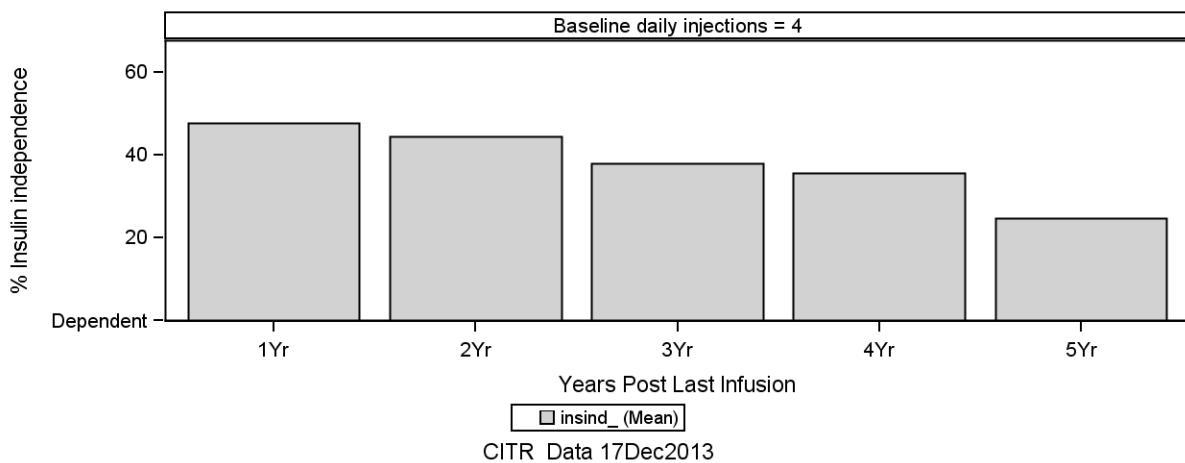
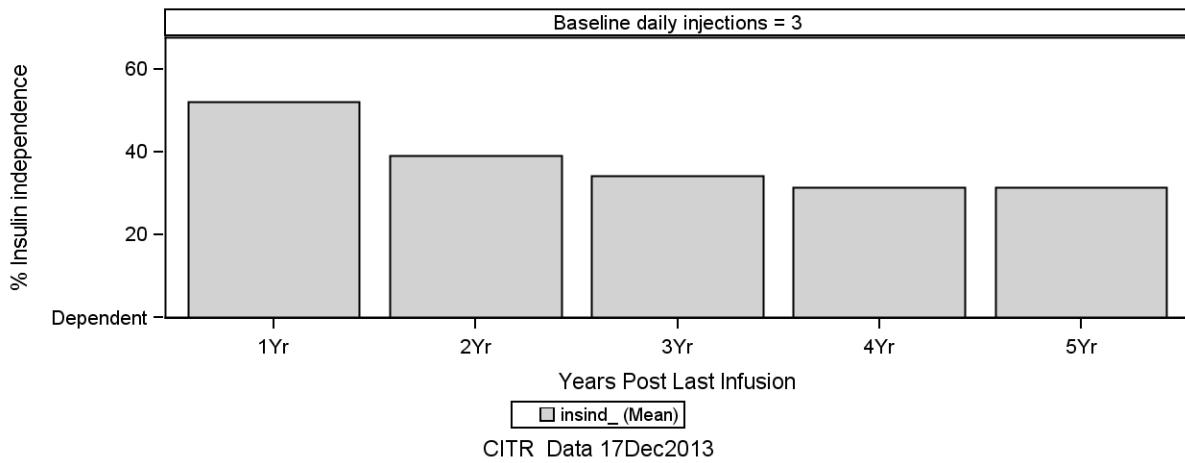
*Analysis Of GEE Parameter Estimates*

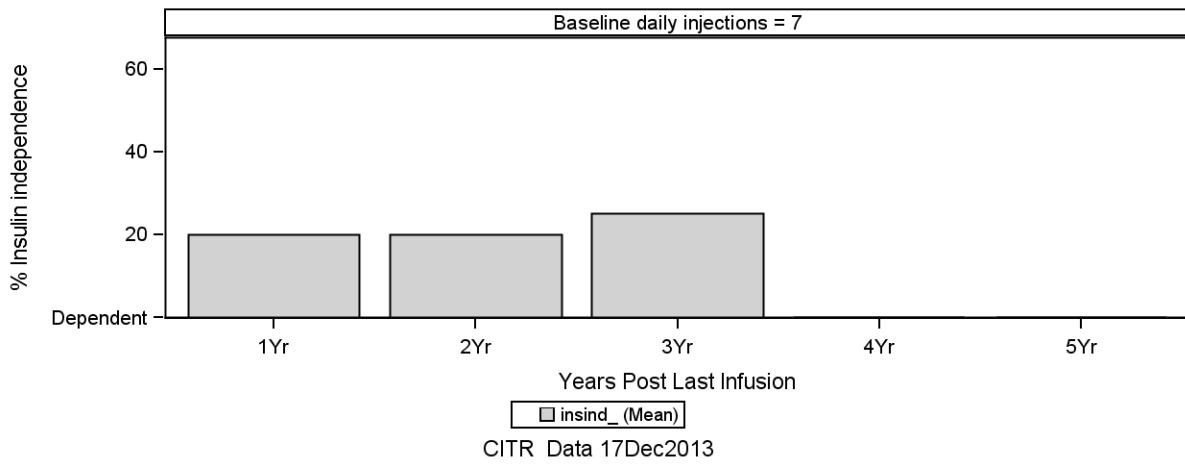
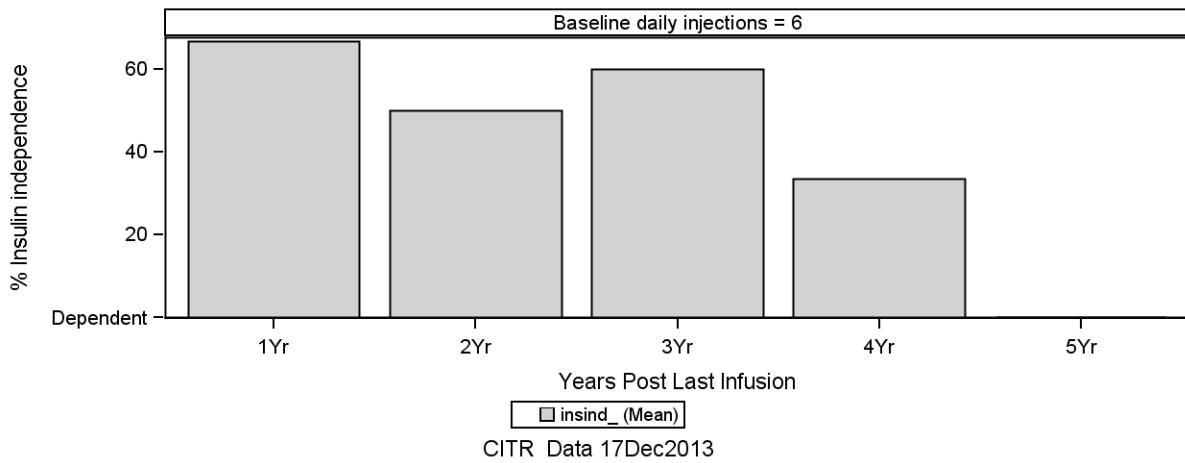
*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3016	0.3989	-0.4803	1.0835	0.76	0.4497
yrspli	-0.2271	0.0648	-0.3541	-0.1001	-3.50	0.0005
basesbp_c	-0.1358	0.1396	-0.4095	0.1378	-0.97	0.3305

Insulin independence







	Years Post Last Infusion				
	1	2	3	4	5
Baseline daily injections					
1		1	1	1	1
2		11	9	8	7
3		52	46	38	35
4		193	178	169	158
5		47	41	36	35
6		6	6	5	3
7		5	5	4	3
Total	315	286	261	242	214

Testing at 1-5 yr

#### The GENMOD Procedure

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-0.5672	0.6640	-1.8687	0.7342	-0.85	0.3930
<i>yrspli</i>	0.0310	0.1810	-0.3238	0.3858	0.17	0.8640
<i>baseinjec</i>	0.1974	0.1667	-0.1293	0.5242	1.18	0.2363
<i>yrspli*baseinjec</i>	-0.0793	0.0448	-0.1672	0.0086	-1.77	0.0770

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***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.1138	0.4932	-0.8529	1.0805	0.23	0.8175
<i>yrspli</i>	-0.2835	0.0361	-0.3543	-0.2127	-7.85	<.0001
<i>baseinjec</i>	0.0243	0.1220	-0.2148	0.2635	0.20	0.8419

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-0.3544	2.0106	-4.2952	3.5863	-0.18	0.8601
<i>yrspli</i>	0.1013	0.4266	-0.7348	0.9374	0.24	0.8123
<i>baseinjec</i>	0.2582	0.5181	-0.7573	1.2737	0.50	0.6182
<i>yrspli*baseinjec</i>	-0.1184	0.1105	-0.3350	0.0982	-1.07	0.2839

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***The GENMOD Procedure***

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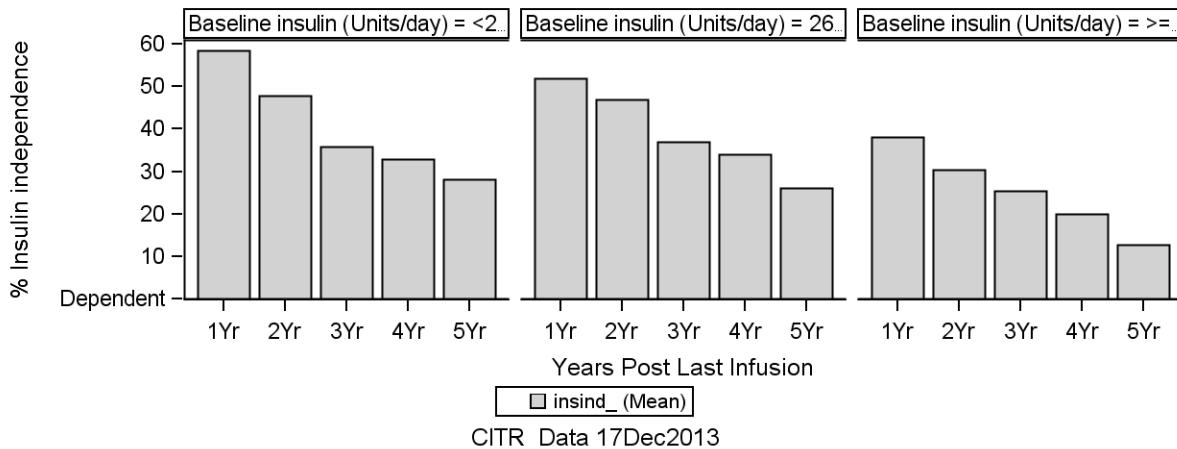
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	1.6346	0.7234	0.2168	3.0525	2.26	0.0238
<i>yrspli</i>	-0.3585	0.0862	-0.5273	-0.1896	-4.16	<.0001
<i>baseinjec</i>	-0.2533	0.1578	-0.5626	0.0559	-1.61	0.1084

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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Baseline insulin (Units/day)</i>					
<26 U/day	130	109	98	85	71
26-43	320	288	260	241	215
>=43	160	145	126	110	94
Total	610	542	484	436	380

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	1.1018	0.2859	0.5414 1.6623	3.85	0.0001
yrspli	-0.3448	0.0851	-0.5117 -0.1779	-4.05	<.0001
baseins_c	-0.4329	0.1339	-0.6953 -0.1706	-3.23	0.0012
yrspli*baseins_c	0.0381	0.0403	-0.0409 0.1171	0.95	0.3443

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.9560	0.2344	0.4966 1.4154	4.08	<.0001
yrspli	-0.2687	0.0257	-0.3192 -0.2182	-10.44	<.0001
baseins_c	-0.3624	0.1064	-0.5709 -0.1539	-3.41	0.0007

Testing at 4-5 yr

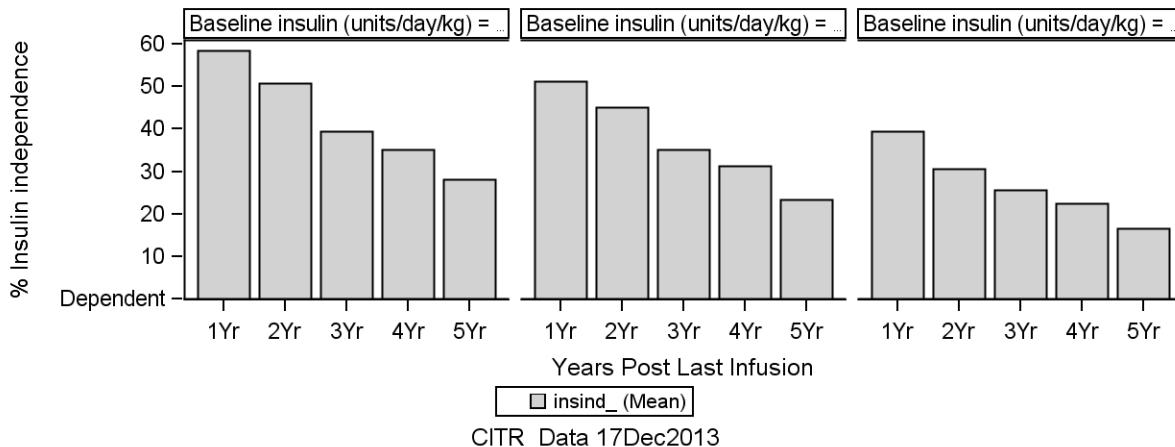
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.9822	0.9248	-0.8304 2.7948	1.06	0.2882	
yrspli	-0.2856	0.2004	-0.6784 0.1073	-1.42	0.1542	
baseins_c	-0.4121	0.4028	-1.2016 0.3773	-1.02	0.3062	
yrspli*baseins_c	0.0197	0.0866	-0.1500 0.1893	0.23	0.8204	

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.8160	0.4253	-0.0177 1.6496	1.92	0.0551	
yrspli	-0.2469	0.0644	-0.3731 -0.1207	-3.83	0.0001	
baseins_c	-0.3278	0.1488	-0.6196 -0.0361	-2.20	0.0276	

Insulin independence



Years Post Last Infusion					
	1	2	3	4	5
<i>Baseline insulin (units/day/kg)</i>					
<0.42 u/day/kg	147	126	112	100	89
0.42-<0.66	291	264	240	217	189
>=0.66	147	134	121	111	97
<i>Total</i>	585	524	473	428	375

Testing at 1-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	1.1285	0.2823	0.5753	1.6818	4.00	<.0001
yrspli	-0.3461	0.0795	-0.5019	-0.1903	-4.35	<.0001
baseinsperkg_c	-0.4477	0.1337	-0.7096	-0.1857	-3.35	0.0008
yrspli*baseinsperkg_c	0.0376	0.0384	-0.0377	0.1128	0.98	0.3279

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***The GENMOD Procedure***

*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.9856	0.2325	0.5298	1.4414	4.24	<.0001
yrspli	-0.2728	0.0262	-0.3240	-0.2215	-10.43	<.0001
baseinsperkg_c	-0.3780	0.1067	-0.5872	-0.1688	-3.54	0.0004

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Testing at 4-5 yr

***The GENMOD Procedure***

*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	1.6500	1.0054	-0.3205	3.6206	1.64	0.1008
yrspli	-0.4744	0.2201	-0.9058	-0.0430	-2.16	0.0312
baseinsperkg_c	-0.7582	0.4547	-1.6494	0.1329	-1.67	0.0954
yrspli*baseinsperkg_c	0.1135	0.0986	-0.0797	0.3067	1.15	0.2494

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***The GENMOD Procedure***

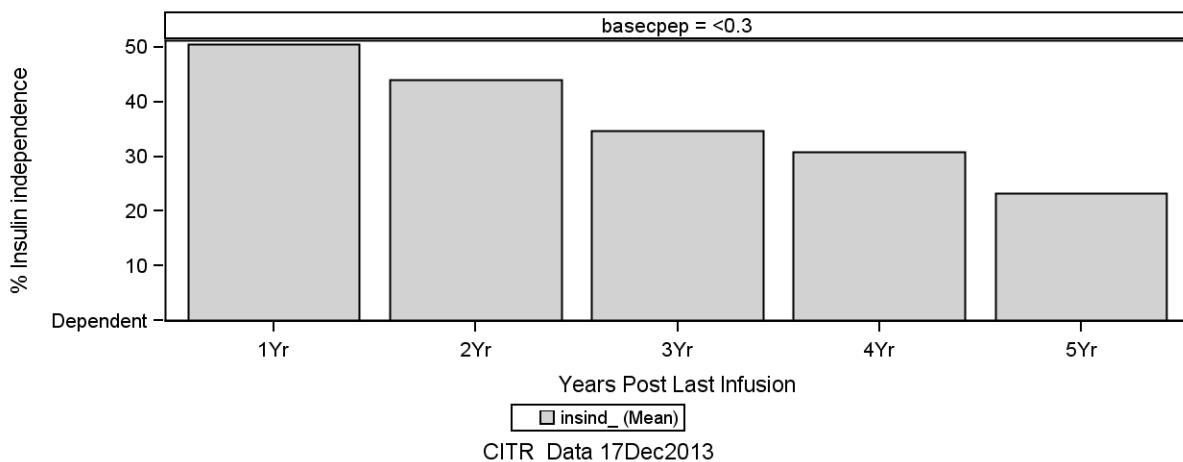
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.6932	0.4246	-0.1390	1.5254	1.63	0.1026
yrspli	-0.2536	0.0658	-0.3825	-0.1247	-3.86	0.0001
baseinsperkg_c	-0.2672	0.1452	-0.5518	0.0175	-1.84	0.0658

---

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>basecpep</i>					
<0.3	657	565	492	432	370
Total	657	565	492	432	370

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2598	0.0872	0.0889 0.4307	2.98	0.0029
yrspli	-0.2677	0.0253	-0.3174 -0.2180	-10.56	<.0001
basecpep_c	0.0000	0.0000	0.0000 0.0000	.	.
yrspli*basecpep_c	0.0000	0.0000	0.0000 0.0000	.	.

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### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2598	0.0872	0.0889 0.4307	2.98	0.0029
yrspli	-0.2677	0.0253	-0.3174 -0.2180	-10.56	<.0001
basecpep_c	0.0000	0.0000	0.0000 0.0000	.	.

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Testing at 4-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1451	0.2922	-0.4276	0.7177	0.50	0.6195
yrspli	-0.2394	0.0633	-0.3636	-0.1152	-3.78	0.0002
basecpep_c	0.0000	0.0000	0.0000	0.0000	.	.
yrspli*basecpep_c	0.0000	0.0000	0.0000	0.0000	.	.

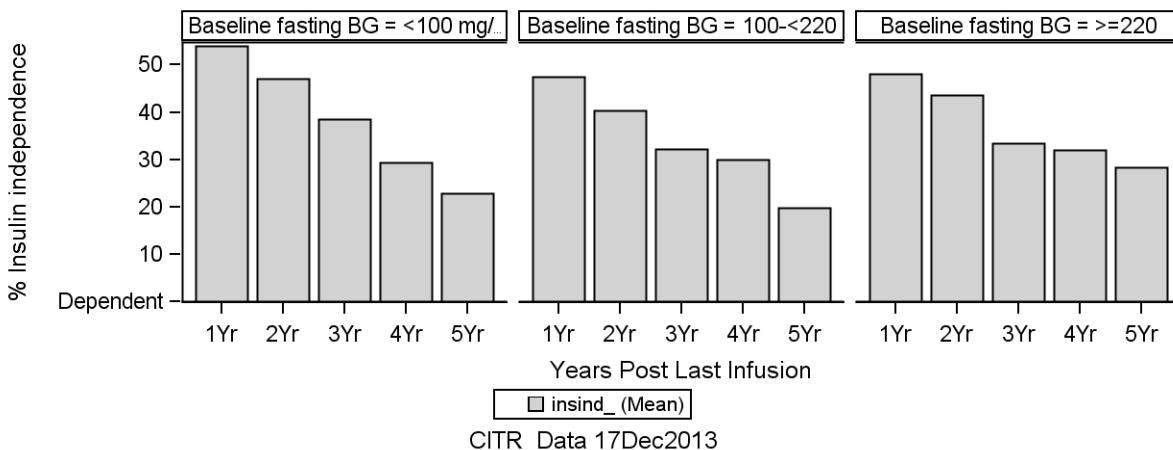
### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1451	0.2922	-0.4276	0.7177	0.50	0.6195
yrspli	-0.2394	0.0633	-0.3636	-0.1152	-3.78	0.0002
basecpep_c	0.0000	0.0000	0.0000	0.0000	.	.

Insulin independence



Baseline fasting BG	Years Post Last Infusion				
	1	2	3	4	5
<100 mg/dL	139	121	112	99	83
100-220	331	285	245	217	182
>=220	158	133	114	100	85
Total	628	539	471	416	350

Testing at 1-5 yr

CITR Data 17Dec2013

**The GENMOD Procedure**

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.4877	0.2816	-0.0643	1.0397	1.73	0.0833
<i>yrspli</i>	-0.3515	0.0815	-0.5112	-0.1918	-4.31	<.0001
<i>basegluc_c</i>	-0.1413	0.1300	-0.3962	0.1135	-1.09	0.2770
<i>yrspli*basegluc_c</i>	0.0422	0.0377	-0.0317	0.1161	1.12	0.2629

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**The GENMOD Procedure**

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.3329	0.2402	-0.1379	0.8037	1.39	0.1658
<i>yrspli</i>	-0.2666	0.0259	-0.3174	-0.2159	-10.30	<.0001
<i>basegluc_c</i>	-0.0651	0.1084	-0.2776	0.1474	-0.60	0.5481

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Testing at 4-5 yr

**The GENMOD Procedure**

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	-0.6962	1.0149	-2.6855	1.2930	-0.69	0.4927
<i>yrspli</i>	-0.0648	0.2240	-0.5039	0.3742	-0.29	0.7722
<i>basegluc_c</i>	0.4371	0.4821	-0.5077	1.3819	0.91	0.3646
<i>yrspli*basegluc_c</i>	-0.0941	0.1074	-0.3046	0.1164	-0.88	0.3810

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**The GENMOD Procedure**

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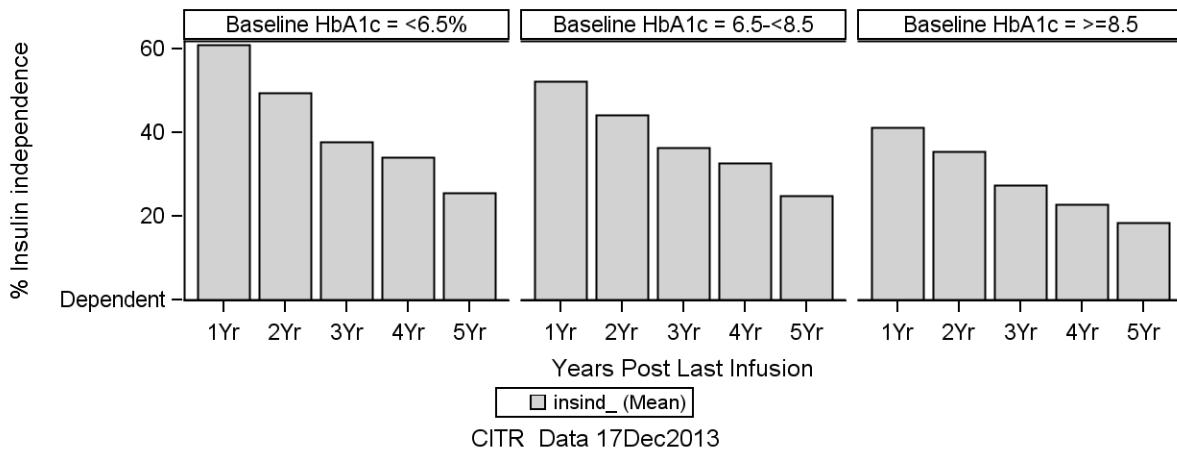
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.1174	0.4333	-0.7318	0.9666	0.27	0.7865
<i>yrspli</i>	-0.2561	0.0677	-0.3886	-0.1235	-3.78	0.0002
<i>basegluc_c</i>	0.0364	0.1522	-0.2618	0.3347	0.24	0.8107

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## Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Baseline HbA1c</i>					
<6.5%	74	67	61	56	51
6.5-8.5	341	307	278	252	217
≥8.5	192	164	146	132	114
<i>Total</i>	607	538	485	440	382

Testing at 1-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Standard Estimate	95% Confidence Error	Limits	Z	Pr >  Z
Intercept	1.1601	0.3321	0.5091 1.8110	3.49	0.0005
yrspli	-0.3877	0.0933	-0.5706 -0.2048	-4.16	<.0001
basehba1c_c	-0.4323	0.1440	-0.7146 -0.1500	-3.00	0.0027
yrspli*basehba1c_c	0.0531	0.0407	-0.0268 0.1329	1.30	0.1926

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.9324	0.2754	0.3926	1.4723	3.39	0.0007
yrspli	-0.2748	0.0260	-0.3257	-0.2238	-10.57	<.0001
basehba1c_c	-0.3286	0.1178	-0.5594	-0.0978	-2.79	0.0053

Testing at 4-5 yr

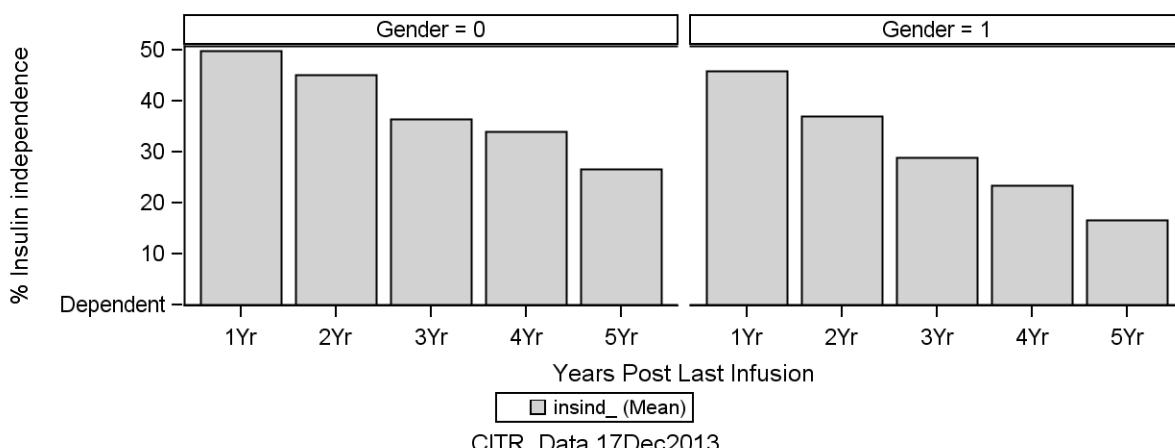
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	1.8080	1.0353	-0.2213	3.8372	1.75	0.0808
yrspli	-0.4964	0.2241	-0.9355	-0.0572	-2.22	0.0267
basehba1c_c	-0.7998	0.4650	-1.7112	0.1116	-1.72	0.0854
yrspli*basehba1c_c	0.1204	0.1004	-0.0763	0.3171	1.20	0.2303

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.7116	0.4582	-0.1865	1.6097	1.55	0.1204
yrspli	-0.2425	0.0644	-0.3688	-0.1162	-3.76	0.0002
basehba1c_c	-0.2806	0.1587	-0.5916	0.0305	-1.77	0.0770

Insulin independence



		Years Post Last Infusion				
		1	2	3	4	5
Gender						
0		433	370	321	274	233
1		283	243	205	184	156
Total		716	613	526	458	389

Testing at 1-5 yr

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Estimate	Standard	95% Confidence		Z	Pr >  Z
		Error	Limits			
Intercept	0.2151	0.1067	0.0059	0.4243	2.02	0.0439
yrspli	-0.2356	0.0301	-0.2945	-0.1767	-7.84	<.0001
gender_	-0.1156	0.1722	-0.4530	0.2218	-0.67	0.5020
yrspli*gender_	-0.0707	0.0523	-0.1731	0.0318	-1.35	0.1763

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Estimate	Standard	95% Confidence		Z	Pr >  Z
		Error	Limits			
Intercept	0.2631	0.1008	0.0656	0.4606	2.61	0.0090
yrspli	-0.2610	0.0245	-0.3091	-0.2129	-10.64	<.0001
gender_	-0.2379	0.1428	-0.5179	0.0420	-1.67	0.0958

Testing at 4-5 yr

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Estimate	Standard	95% Confidence		Z	Pr >  Z
		Error	Limits			
Intercept	0.2548	0.3633	-0.4571	0.9668	0.70	0.4830
yrspli	-0.2302	0.0786	-0.3843	-0.0761	-2.93	0.0034
gender_	-0.3438	0.6130	-1.5453	0.8577	-0.56	0.5749
yrspli*gender_	-0.0457	0.1344	-0.3091	0.2176	-0.34	0.7336

### The GENMOD Procedure

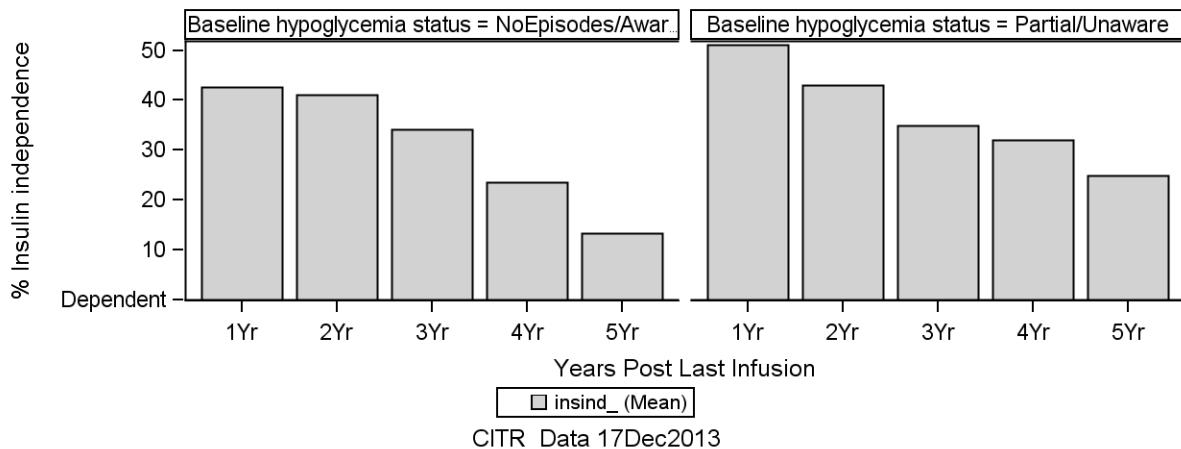
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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3213	0.3023	-0.2713	0.9138	1.06	0.2879
yrspli	-0.2456	0.0637	-0.3704	-0.1208	-3.86	0.0001
gender_	-0.5393	0.2125	-0.9557	-0.1228	-2.54	0.0111

Insulin independence



Years Post Last Infusion					
Baseline hypoglycemia status					
1    2    3    4    5					
NoEpisodes/Aware					47    39    38    34    30
Partial/Unaware					507    458    413    379    335
Total					554    497    451    413    365

Testing at 1-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.0970	0.3599	-0.6085	0.8024	0.27	0.7876
yrspli	-0.3165	0.1027	-0.5178	-0.1152	-3.08	0.0021
basehypostat_	0.1470	0.3726	-0.5833	0.8773	0.39	0.6931
yrspli*basehypostat_	0.0524	0.1063	-0.1559	0.2606	0.49	0.6222

***The GENMOD Procedure***

**CITR Data 17Dec2013**

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.0120	0.2894	-0.5552	0.5792	0.04	0.9668
yrspli	-0.2679	0.0264	-0.3196	-0.2163	-10.16	<.0001
basehypostat_	0.2391	0.2939	-0.3370	0.8152	0.81	0.4160

Testing at 4-5 yr

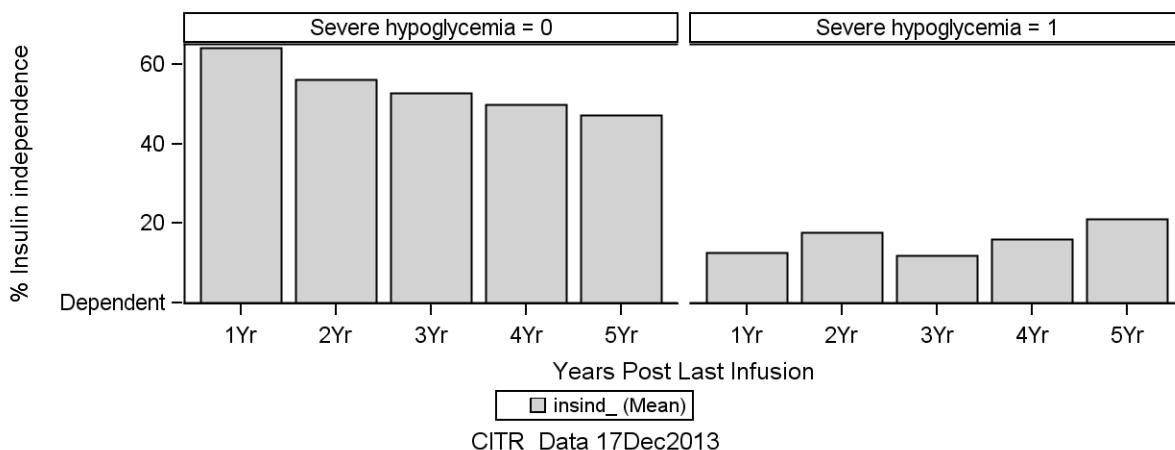
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.7933	1.2833	-1.7218	3.3084	0.62	0.5364
yrspli	-0.4930	0.2916	-1.0646	0.0786	-1.69	0.0910
basehypostat_	-0.6690	1.3186	-3.2533	1.9154	-0.51	0.6119
yrspli*basehypostat_	0.2719	0.2988	-0.3138	0.8576	0.91	0.3629

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.2895	0.4937	-1.2571	0.6780	-0.59	0.5576
yrspli	-0.2379	0.0637	-0.3628	-0.1130	-3.73	0.0002
basehypostat_	0.4864	0.4141	-0.3253	1.2981	1.17	0.2402

Insulin independence



		Years Post Last Infusion				
		1	2	3	4	5
Severe hypoglycemia						
0		430	334	260	186	123
1		24	34	34	25	19
<i>Total</i>		454	368	294	211	142

Testing at 1-5 yr

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Standard		95% Confidence		Z	Pr >  Z
	Estimate	Error	Limits			
Intercept	0.7263	0.1096	0.5114	0.9411	6.63	<.0001
yrspli	-0.2984	0.0389	-0.3745	-0.2222	-7.68	<.0001
hyposev_	-1.1260	0.2998	-1.7136	-0.5384	-3.76	0.0002
yrspli*hyposev_	0.1546	0.1028	-0.0469	0.3561	1.50	0.1327

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Standard		95% Confidence		Z	Pr >  Z
	Estimate	Error	Limits			
Intercept	0.6961	0.1078	0.4849	0.9074	6.46	<.0001
yrspli	-0.2886	0.0373	-0.3617	-0.2154	-7.73	<.0001
hyposev_	-0.6893	0.1653	-1.0133	-0.3653	-4.17	<.0001

Testing at 4-5 yr

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Standard		95% Confidence		Z	Pr >  Z
	Estimate	Error	Limits			
Intercept	0.6498	0.4759	-0.2829	1.5825	1.37	0.1721
yrspli	-0.1824	0.1052	-0.3886	0.0238	-1.73	0.0829
hyposev_	-0.4402	2.7082	-5.7482	4.8678	-0.16	0.8709
yrspli*hyposev_	-0.0931	0.6163	-1.3011	1.1149	-0.15	0.8800

### The GENMOD Procedure

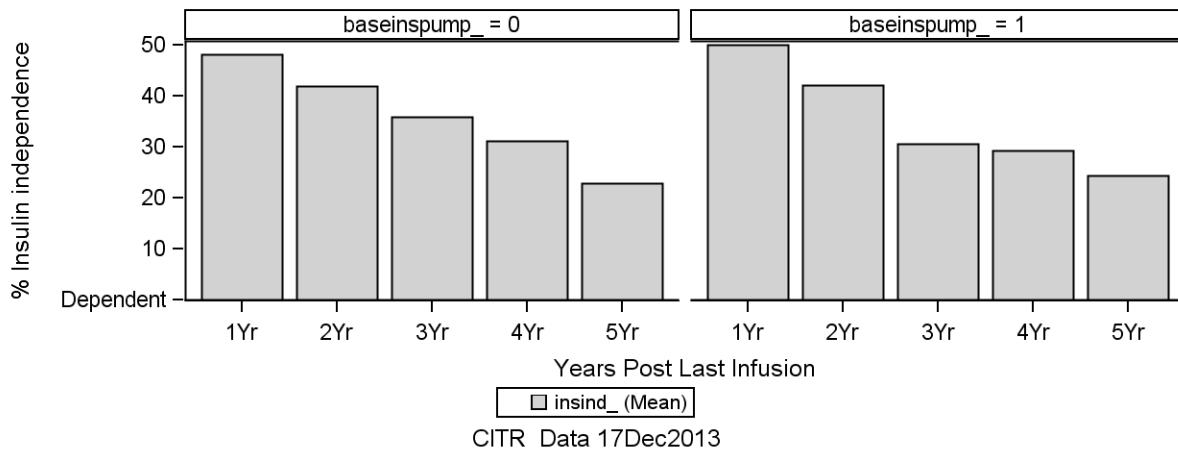
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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.6856	0.4894	-0.2737	1.6449	1.40	0.1613
yrspli	-0.1900	0.1082	-0.4021	0.0221	-1.76	0.0791
hyposev_	-0.8685	0.3193	-1.4944	-0.2426	-2.72	0.0065

Insulin independence



Years Post Last Infusion					
baseinspump_					
0	359	325	295	270	237
1	234	204	183	164	140
Total	593	529	478	434	377

Testing at 1-5 yr

*The GENMOD Procedure*

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1849	0.1165	-0.0434	0.4132	1.59	0.1124
yrspli	-0.2664	0.0329	-0.3309	-0.2018	-8.09	<.0001
baseinspump_	-0.0158	0.1855	-0.3794	0.3478	-0.09	0.9321
yrspli*baseinspump_	0.0134	0.0527	-0.0898	0.1166	0.25	0.7994

*The GENMOD Procedure*

**CITR Data 17Dec2013**

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1755	0.1098	-0.0397	0.3907	1.60	0.1099
yrspli	-0.2614	0.0257	-0.3118	-0.2110	-10.16	<.0001
baseinspump_	0.0084	0.1550	-0.2955	0.3123	0.05	0.9569

Testing at 4-5 yr

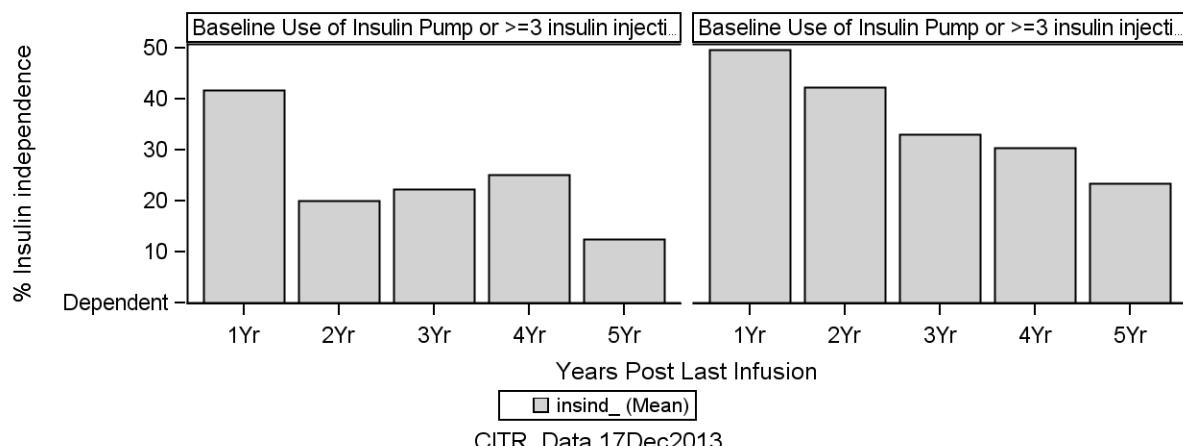
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.5709	0.3632	-0.1409	1.2826	1.57	0.1160
yrspli	-0.3424	0.0799	-0.4990	-0.1857	-4.28	<.0001
baseinspump_	-1.1526	0.6120	-2.3520	0.0468	-1.88	0.0596
yrspli*baseinspump_	0.2672	0.1320	0.0085	0.5259	2.02	0.0429

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1440	0.3081	-0.4599	0.7479	0.47	0.6403
yrspli	-0.2432	0.0640	-0.3686	-0.1178	-3.80	0.0001
baseinspump_	-0.0037	0.2110	-0.4173	0.4099	-0.02	0.9860

Insulin independence



	Years Post Last Infusion					
	1	2	3	4	5	
<i>Baseline Use of Insulin Pump or &gt;=3 insulin injections per day</i>						
0		12	10	9	8	8
1		537	480	435	398	346
<i>Total</i>		549	490	444	406	354

Testing at 1-5 yr

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.1099	0.6720	-1.4271	1.2072	-0.16	0.8700
yrspli	-0.5251	0.4113	-1.3313	0.2811	-1.28	0.2018
baseintth_	0.3121	0.6787	-1.0181	1.6423	0.46	0.6456
yrspli*baseintth_	0.2574	0.4122	-0.5506	1.0654	0.62	0.5324

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.3924	0.5556	-1.4814	0.6965	-0.71	0.4800
yrspli	-0.2715	0.0272	-0.3247	-0.2183	-10.00	<.0001
baseintth_	0.6017	0.5593	-0.4946	1.6979	1.08	0.2821

Testing at 4-5 yr

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	2.2906	3.4778	-4.5258	9.1070	0.66	0.5101
yrspli	-0.8473	0.8165	-2.4476	0.7530	-1.04	0.2994
baseintth_	-2.1834	3.4914	-9.0264	4.6596	-0.63	0.5317
yrspli*baseintth_	0.6128	0.8192	-0.9928	2.2184	0.75	0.4544

### The GENMOD Procedure

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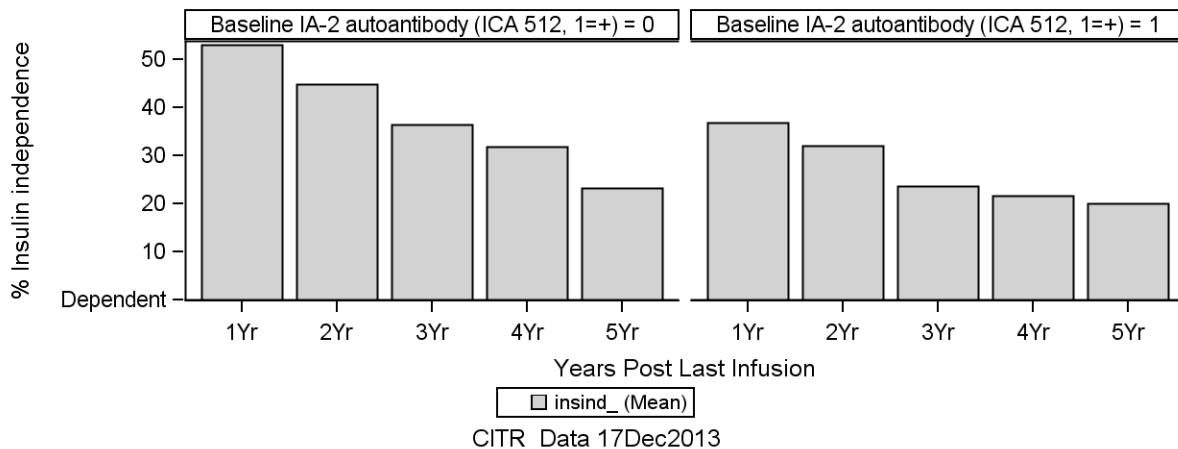
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.2795	0.8627	-1.9705	1.4115	-0.32	0.7460
yrspli	-0.2450	0.0670	-0.3763	-0.1138	-3.66	0.0003
baseintth_	0.4319	0.8028	-1.1414	2.0053	0.54	0.5905

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Insulin independence



Years Post Last Infusion						
Baseline IA-2 autoantibody (ICA 512, 1=+)						
0			503	450	405	367
1			122	106	93	83
Total			625	556	498	450
						388

Testing at 1-5 yr

*The GENMOD Procedure*

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3581	0.0995	0.1631	0.5531	3.60	0.0003
yrspli	-0.2806	0.0282	-0.3358	-0.2254	-9.96	<.0001
base2ia_	-0.7153	0.2199	-1.1463	-0.2843	-3.25	0.0011
yrspli*base2ia_	0.0688	0.0606	-0.0500	0.1876	1.13	0.2565

*The GENMOD Procedure*

CITR Data 17Dec2013

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**Analysis Of GEE Parameter Estimates**

**Empirical Standard Error Estimates**

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3369	0.0967	0.1474	0.5264	3.48	0.0005
yrspli	-0.2699	0.0254	-0.3197	-0.2201	-10.62	<.0001
base2ia_	-0.6162	0.1960	-1.0003	-0.2321	-3.14	0.0017

Testing at 4-5 yr

**The GENMOD Procedure**

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**Analysis Of GEE Parameter Estimates**

**Empirical Standard Error Estimates**

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3393	0.3077	-0.2637	0.9423	1.10	0.2701
yrspli	-0.2754	0.0668	-0.4063	-0.1444	-4.12	<.0001
base2ia_	-1.2844	0.8842	-3.0175	0.4487	-1.45	0.1463
yrspli*base2ia_	0.1906	0.1911	-0.1839	0.5652	1.00	0.3185

**The GENMOD Procedure**

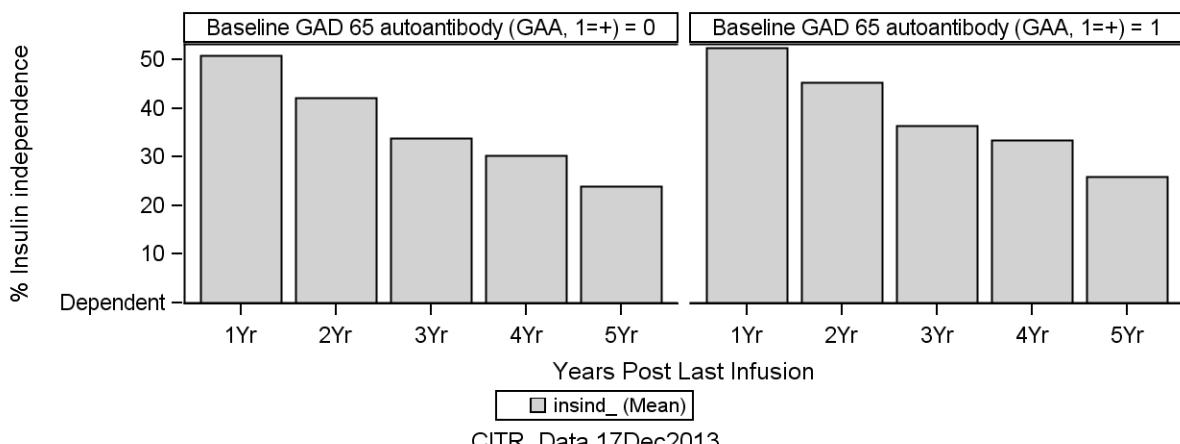
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**Analysis Of GEE Parameter Estimates**

**Empirical Standard Error Estimates**

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.2054	0.2956	-0.3740	0.7847	0.69	0.4873
yrspli	-0.2442	0.0633	-0.3682	-0.1202	-3.86	0.0001
base2ia_	-0.4671	0.2802	-1.0162	0.0820	-1.67	0.0955

Insulin independence



	Years Post Last Infusion					
	1	2	3	4	5	
<i>Baseline GAD 65 autoantibody (GAA, 1=+)</i>						
0		250	230	219	199	175
1		168	148	132	120	104
<i>Total</i>		418	378	351	319	279

Testing at 1-5 yr

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Standard		95% Confidence		Z	Pr >  Z
	Estimate	Error	Limits			
Intercept	0.2295	0.1363	-0.0378	0.4967	1.68	0.0924
yrspli	-0.2514	0.0363	-0.3225	-0.1803	-6.93	<.0001
basegad_	0.1285	0.2178	-0.2983	0.5553	0.59	0.5552
yrspli*basegad_	-0.0440	0.0590	-0.1597	0.0718	-0.74	0.4566

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Standard		95% Confidence		Z	Pr >  Z
	Estimate	Error	Limits			
Intercept	0.2614	0.1280	0.0106	0.5122	2.04	0.0411
yrspli	-0.2683	0.0286	-0.3244	-0.2121	-9.36	<.0001
basegad_	0.0449	0.1840	-0.3157	0.4055	0.24	0.8072

Testing at 4-5 yr

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Standard		95% Confidence		Z	Pr >  Z
	Estimate	Error	Limits			
Intercept	-0.0398	0.4160	-0.8551	0.7754	-0.10	0.9237
yrspli	-0.2014	0.0894	-0.3766	-0.0261	-2.25	0.0243
basegad_	0.6656	0.7907	-0.8842	2.2155	0.84	0.3999
yrspli*basegad_	-0.1284	0.1741	-0.4696	0.2129	-0.74	0.4610

### The GENMOD Procedure

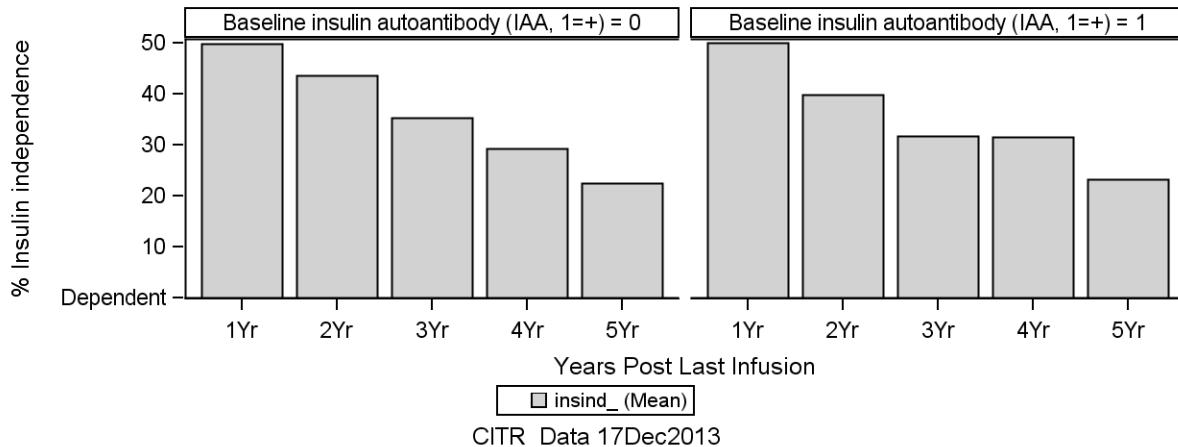
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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.1749	0.3726	-0.5554 0.9051	0.47	0.6388
yrspli	-0.2512	0.0796	-0.4072 -0.0952	-3.16	0.0016
basegad_	0.1117	0.2409	-0.3604 0.5838	0.46	0.6427

Insulin independence



Years Post Last Infusion					
Baseline insulin autoantibody (IAA, 1=+)					
		1 2 3 4 5			
0		437 385 337 304 259			
1		188 171 161 146 129			
<i>Total</i>		625 556 498 450 388			

Testing at 1-5 yr

*The GENMOD Procedure*

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2469	0.1084	0.0344 0.4593	2.28	0.0228
yrspli	-0.2741	0.0313	-0.3355 -0.2127	-8.75	<.0001
baseabins_	-0.0775	0.1867	-0.4435 0.2885	-0.42	0.6780
yrspli*baseabins_	0.0231	0.0516	-0.0780 0.1242	0.45	0.6542

*The GENMOD Procedure*

CITR Data 17Dec2013

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.2329	0.1019	0.0331	0.4327	2.28	0.0223
yrspli	-0.2666	0.0250	-0.3156	-0.2176	-10.66	<.0001
baseabins_	-0.0348	0.1597	-0.3479	0.2782	-0.22	0.8274

Testing at 4-5 yr

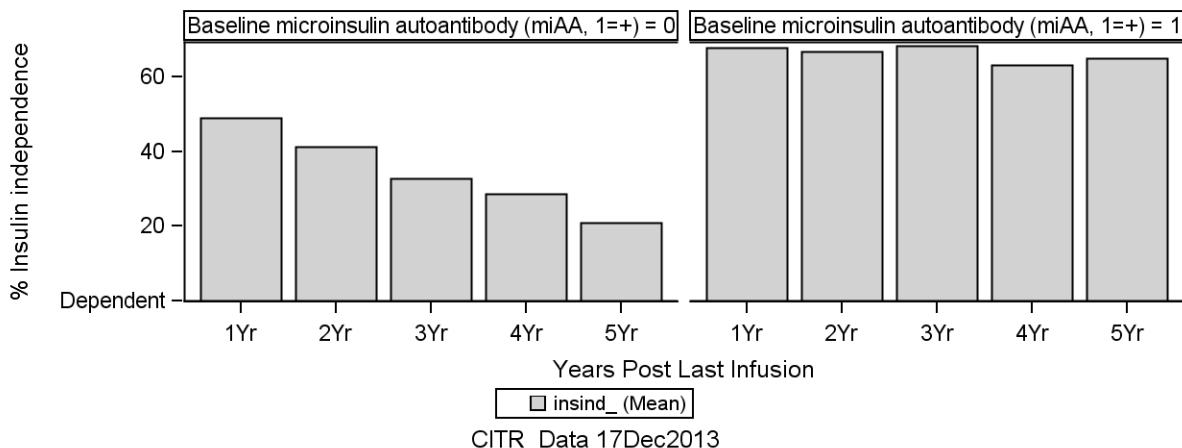
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.0412	0.3584	-0.6613	0.7438	0.12	0.9084
yrspli	-0.2317	0.0780	-0.3845	-0.0788	-2.97	0.0030
baseabins_	0.2528	0.6055	-0.9339	1.4395	0.42	0.6763
yrspli*baseabins_	-0.0360	0.1312	-0.2932	0.2212	-0.27	0.7839

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.0947	0.2968	-0.4870	0.6764	0.32	0.7496
yrspli	-0.2441	0.0628	-0.3672	-0.1211	-3.89	0.0001
baseabins_	0.0979	0.2142	-0.3219	0.5178	0.46	0.6475

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Baseline microinsulin autoantibody (miAA, 1=+)</i>					
0	591	526	476	431	371
1	34	30	22	19	17
<i>Total</i>	625	556	498	450	388

Testing at 1-5 yr

#### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1902	0.0911	0.0116	0.3688	2.09	0.0369
yrspli	-0.2739	0.0261	-0.3249	-0.2228	-10.51	<.0001
basemic_	0.7179	0.4078	-0.0815	1.5172	1.76	0.0784
yrspli*basemic_	0.0684	0.1029	-0.1332	0.2701	0.67	0.5060

#### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1837	0.0903	0.0067	0.3608	2.03	0.0419
yrspli	-0.2703	0.0252	-0.3197	-0.2210	-10.73	<.0001
basemic_	0.8910	0.3544	0.1964	1.5857	2.51	0.0119

Testing at 4-5 yr

#### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1602	0.3119	-0.4510	0.7714	0.51	0.6075
yrspli	-0.2701	0.0682	-0.4039	-0.1363	-3.96	<.0001
basemic_	0.3265	0.5852	-0.8206	1.4735	0.56	0.5769
yrspli*basemic_	0.2832	0.0764	0.1335	0.4328	3.71	0.0002

#### The GENMOD Procedure

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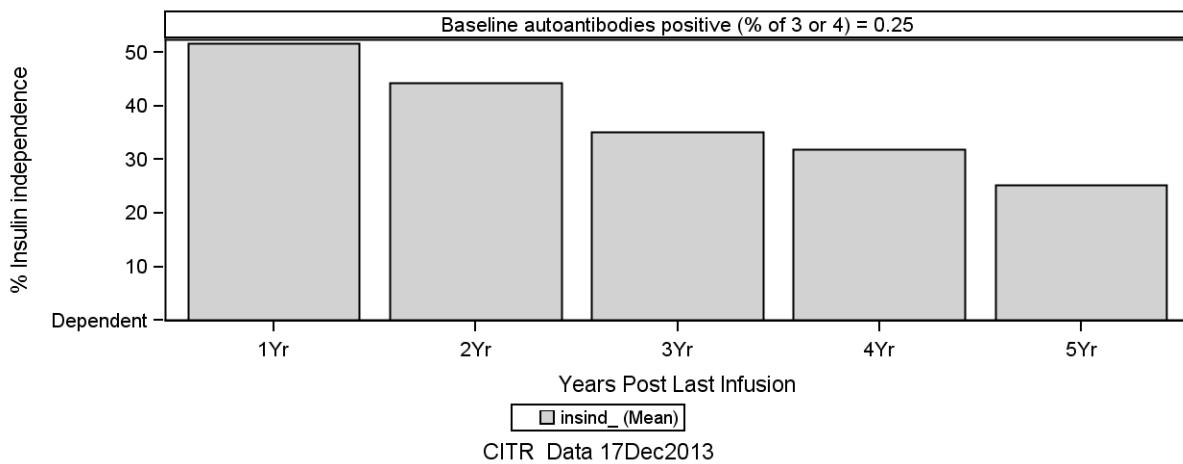
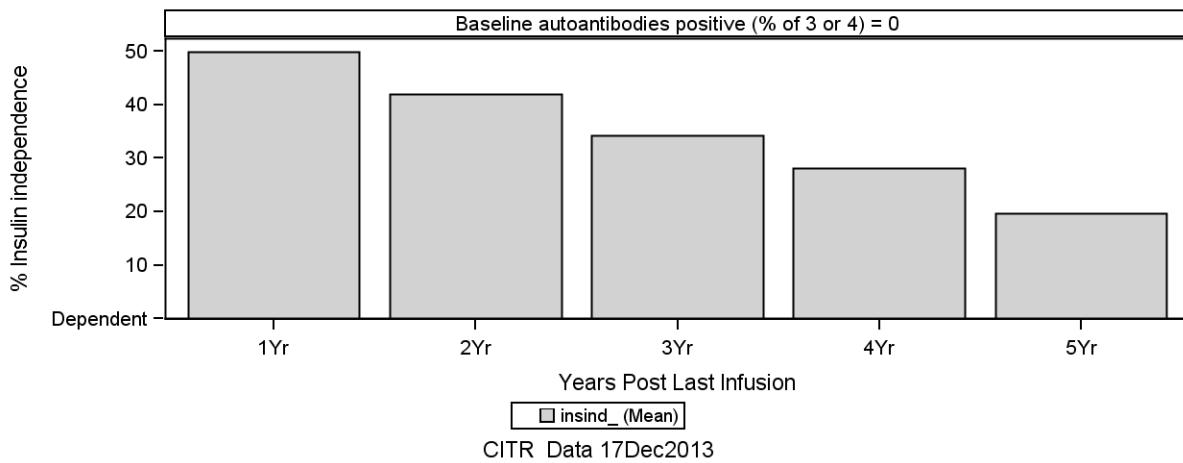
*Analysis Of GEE Parameter Estimates*

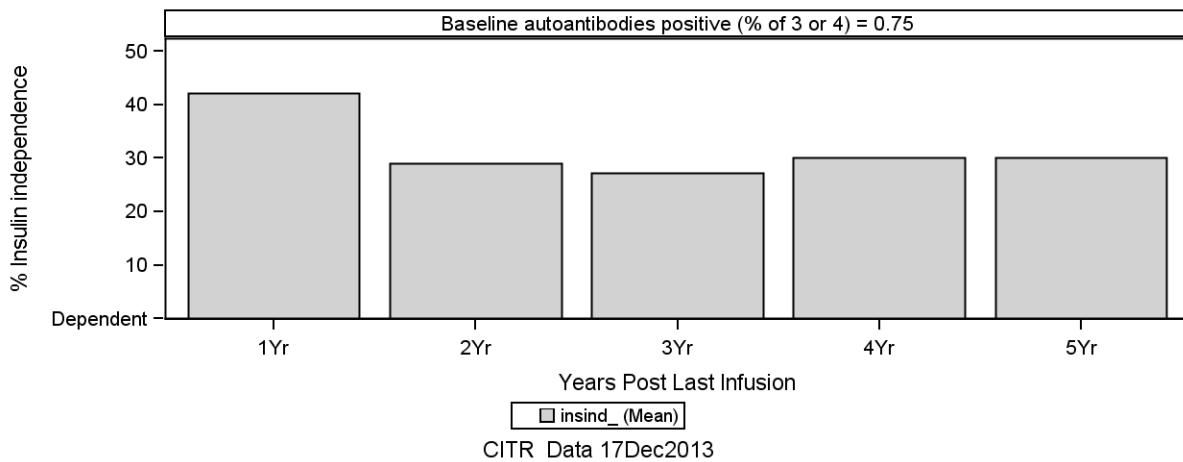
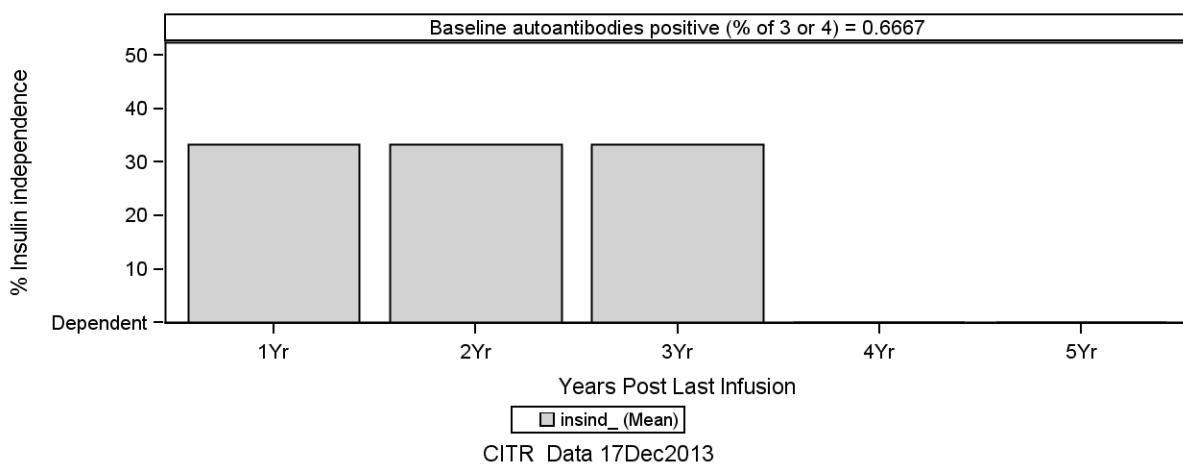
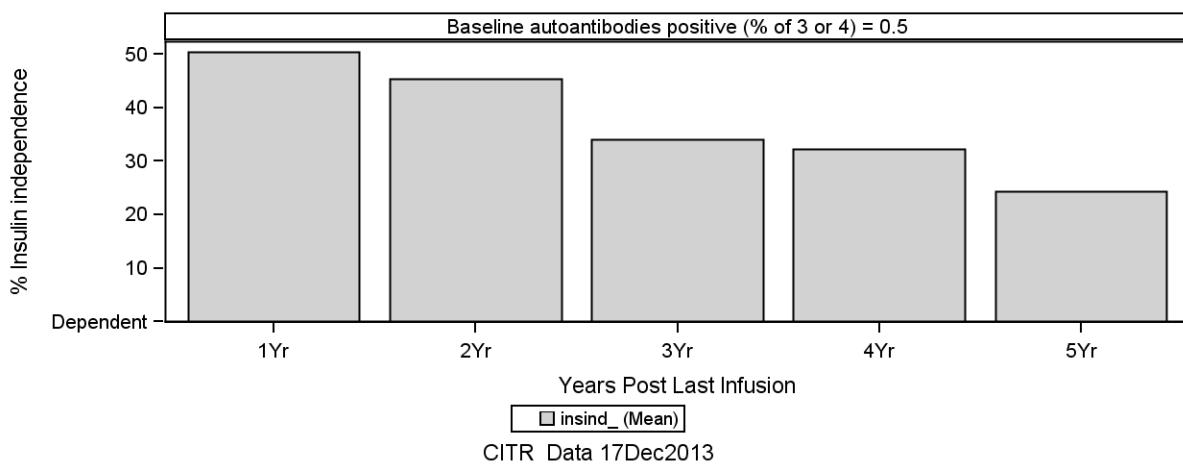
*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.0947	0.2979	-0.4892	0.6787	0.32	0.7506
<i>yrspli</i>	-0.2548	0.0645	-0.3813	-0.1284	-3.95	<.0001
<i>basemic_</i>	1.6029	0.4904	0.6418	2.5641	3.27	0.0011

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Insulin independence






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Years Post Last Infusion					
1	2	3	4	5	
<i>Baseline autoantibodies positive (% of 3 or 4)</i>					
0	299	265	231	210	178

		Years Post Last Infusion				
		1	2	3	4	5
0.25		178	158	148	132	115
0.5		107	99	94	87	74
0.6666666667		3	3	3	1	1
0.75		38	31	22	20	20
Total		625	556	498	450	388

Testing at 1-5 yr

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.2801	0.1205	0.0439	0.5163	2.32	0.0201
yrspli	-0.2820	0.0352	-0.3509	-0.2130	-8.02	<.0001
baseaapos	-0.2775	0.3710	-1.0045	0.4496	-0.75	0.4545
yrspli*baseaapos	0.0736	0.1031	-0.1284	0.2757	0.71	0.4751

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.2528	0.1105	0.0361	0.4694	2.29	0.0222
yrspli	-0.2666	0.0250	-0.3156	-0.2175	-10.65	<.0001
baseaapos	-0.1508	0.3177	-0.7734	0.4718	-0.47	0.6350

Testing at 4-5 yr

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1335	0.3418	-0.5365	0.8034	0.39	0.6962
yrspli	-0.2608	0.0734	-0.4046	-0.1169	-3.55	0.0004
baseaapos	-0.0022	1.0708	-2.1010	2.0965	-0.00	0.9983
yrspli*baseaapos	0.0728	0.2277	-0.3734	0.5191	0.32	0.7490

### The GENMOD Procedure

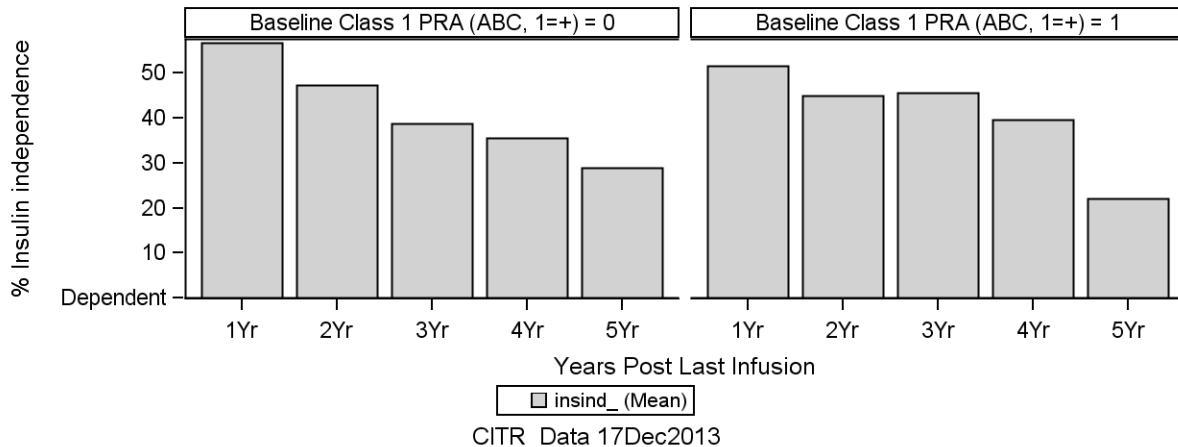
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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.0651	0.3035	-0.5297 0.6600	0.21	0.8301
yrspli	-0.2448	0.0628	-0.3679 -0.1218	-3.90	<.0001
baseaapos	0.3116	0.4441	-0.5588 1.1820	0.70	0.4828

Insulin independence



Years Post Last Infusion					
1    2    3    4    5					
Baseline Class 1 PRA (ABC, 1=+)					
0		335	303	279	259
1		66	60	57	48
<i>Total</i>		401	363	336	307
					270

Testing at 1-5 yr

*The GENMOD Procedure*

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.4287	0.1176	0.1982 0.6592	3.64	0.0003
yrspli	-0.2541	0.0316	-0.3161 -0.1921	-8.03	<.0001
baseabc1_	-0.0396	0.3084	-0.6440 0.5649	-0.13	0.8979
yrspli*baseabc1_	-0.0126	0.0868	-0.1827 0.1576	-0.14	0.8850

*The GENMOD Procedure*

CITR Data 17Dec2013

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.4330	0.1154	0.2069	0.6591	3.75	0.0002
yrspli	-0.2561	0.0295	-0.3140	-0.1982	-8.67	<.0001
baseabc1_	-0.0680	0.2389	-0.5363	0.4003	-0.28	0.7759

Testing at 4-5 yr

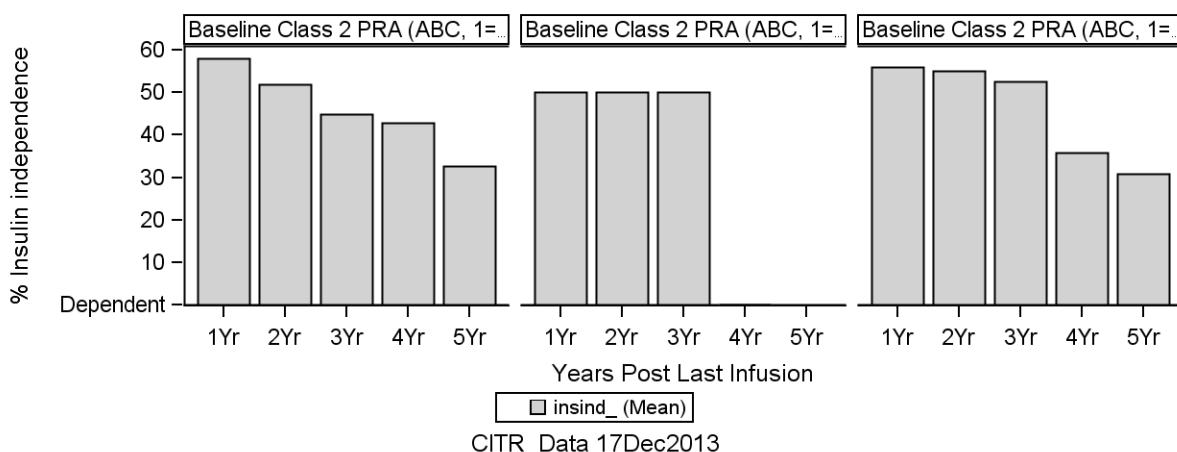
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1451	0.3424	-0.5260	0.8162	0.42	0.6717
yrspli	-0.1853	0.0727	-0.3279	-0.0428	-2.55	0.0108
baseabc1_	1.9258	1.1057	-0.2414	4.0931	1.74	0.0816
yrspli*baseabc1_	-0.4381	0.2460	-0.9203	0.0440	-1.78	0.0749

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.4267	0.3334	-0.2267	1.0801	1.28	0.2005
yrspli	-0.2504	0.0715	-0.3906	-0.1102	-3.50	0.0005
baseabc1_	0.0374	0.3109	-0.5720	0.6468	0.12	0.9043

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Baseline Class 2 PRA (ABC, 1=+)</i>					
0		221	193	174	161
0.5		2	2	2	1
1		25	20	19	14
<i>Total</i>		248	215	195	176
					145

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
<i>Intercept</i>	0.5320	0.1478	0.2424 0.8215	3.60	0.0003
<i>yrspli</i>	-0.2446	0.0428	-0.3285 -0.1607	-5.71	<.0001
<i>baseabc2</i>	-0.0817	0.4676	-0.9982 0.8347	-0.17	0.8613
<i>yrspli*baseabc2</i>	0.1432	0.0813	-0.0161 0.3025	1.76	0.0781

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
<i>Intercept</i>	0.5000	0.1433	0.2191 0.7809	3.49	0.0005
<i>yrspli</i>	-0.2310	0.0392	-0.3079 -0.1541	-5.89	<.0001
<i>baseabc2</i>	0.2840	0.3978	-0.4957 1.0638	0.71	0.4753

Testing at 4-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
<i>Intercept</i>	0.7278	0.4347	-0.1242 1.5798	1.67	0.0941
<i>yrspli</i>	-0.2551	0.0928	-0.4370 -0.0731	-2.75	0.0060
<i>baseabc2</i>	-0.0794	1.6429	-3.2994 3.1406	-0.05	0.9615
<i>yrspli*baseabc2</i>	-0.0690	0.3617	-0.7780 0.6399	-0.19	0.8486

### The GENMOD Procedure

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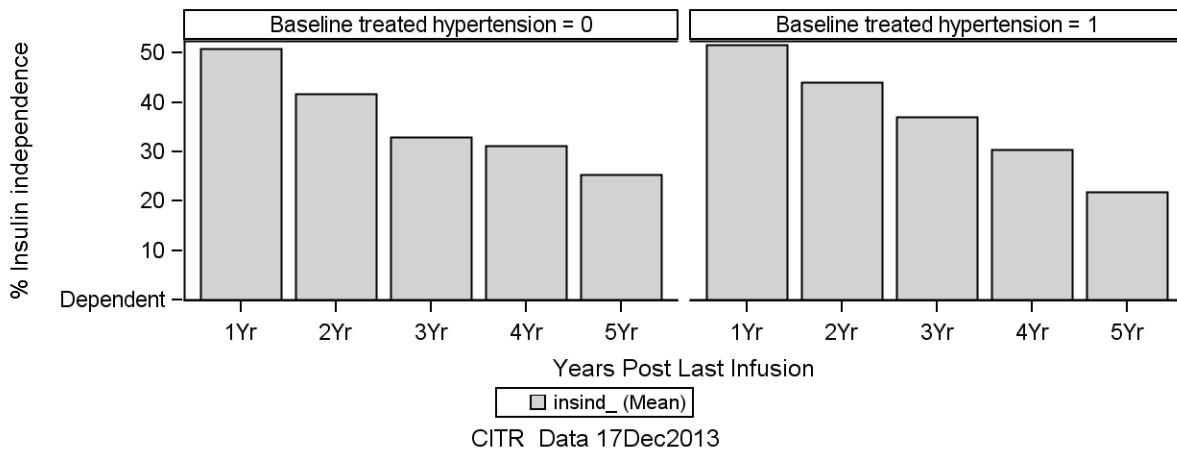
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.7552	0.4222	-0.0722	1.5826	1.79	0.0736
yrspli	-0.2615	0.0898	-0.4375	-0.0854	-2.91	0.0036
baseabc2_	-0.3767	0.5760	-1.5057	0.7523	-0.65	0.5132

---

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Baseline treated hypertension</i>					
0		329	300	273	257
1		219	200	184	161
Total		548	500	457	418
					367

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Testing at 1-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1929	0.1198	-0.0419	0.4278	1.61	0.1074
yrspli	-0.2587	0.0340	-0.3254	-0.1920	-7.60	<.0001
baseHPTtx_	0.1473	0.1917	-0.2284	0.5230	0.77	0.4423
yrspli*baseHPTtx_	-0.0258	0.0530	-0.1296	0.0781	-0.49	0.6266

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***The GENMOD Procedure***

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2111	0.1120	-0.0084	0.4306	1.88	0.0594
<i>yrspli</i>	-0.2687	0.0262	-0.3200	-0.2174	-10.27	<.0001
<i>baseHPTtx_</i>	0.0976	0.1599	-0.2158	0.4110	0.61	0.5415

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-0.1666	0.3674	-0.8867	0.5535	-0.45	0.6502
<i>yrspli</i>	-0.1580	0.0784	-0.3115	-0.0044	-2.02	0.0438
<i>baseHPTtx_</i>	0.7780	0.6112	-0.4199	1.9758	1.27	0.2031
<i>yrspli*baseHPTtx_</i>	-0.2016	0.1337	-0.4636	0.0605	-1.51	0.1316

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***The GENMOD Procedure***

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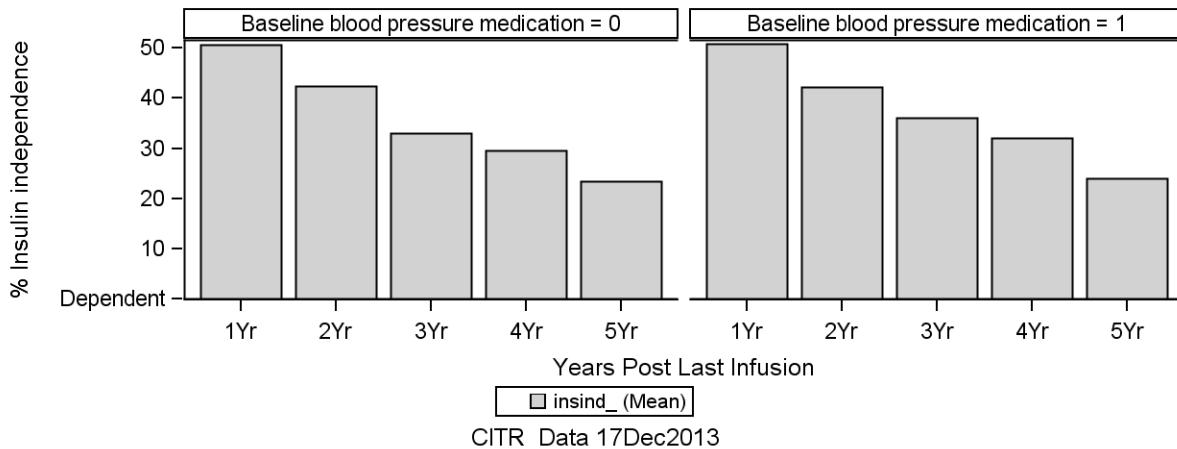
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.1501	0.3030	-0.4437	0.7439	0.50	0.6202
<i>yrspli</i>	-0.2313	0.0636	-0.3559	-0.1066	-3.64	0.0003
<i>baseHPTtx_</i>	-0.0889	0.2142	-0.5087	0.3309	-0.42	0.6781

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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Baseline blood pressure medication</i>					
0	320	293	266	250	222
1	242	218	200	175	150
<i>Total</i>	562	511	466	425	372

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2288	0.1220	-0.0103 0.4678	1.88	0.0607
yrspli	-0.2720	0.0342	-0.3390 -0.2050	-7.96	<.0001
basebpmed_	0.0137	0.1869	-0.3527 0.3801	0.07	0.9416
yrspli*basebpmed_	0.0148	0.0519	-0.0870 0.1166	0.28	0.7762

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2173	0.1140	-0.0062 0.4407	1.91	0.0567
yrspli	-0.2658	0.0257	-0.3162 -0.2153	-10.33	<.0001
basebpmed_	0.0416	0.1565	-0.2653 0.3484	0.27	0.7906

Testing at 4-5 yr

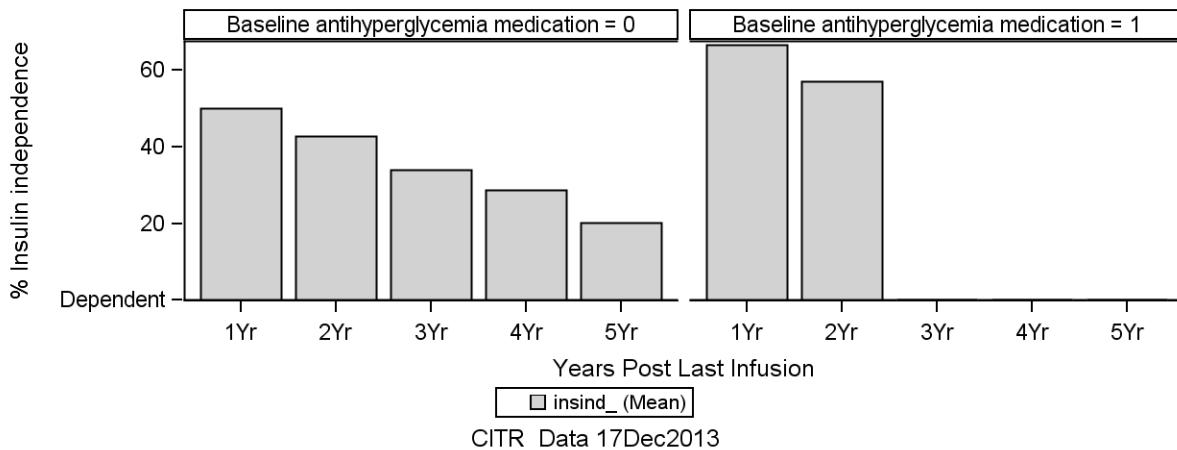
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.1875	0.3910	-0.9537	0.5788	-0.48	0.6316
yrspli	-0.1708	0.0840	-0.3354	-0.0063	-2.03	0.0419
basebpmed_	0.6982	0.5847	-0.4478	1.8442	1.19	0.2324
yrspli*basebpmed_	-0.1453	0.1269	-0.3940	0.1033	-1.15	0.2520

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.0717	0.3033	-0.5228	0.6662	0.24	0.8130
yrspli	-0.2310	0.0632	-0.3548	-0.1072	-3.66	0.0003
basebpmed_	0.0724	0.2095	-0.3382	0.4830	0.35	0.7296

Insulin independence



Baseline antihyperglycemia medication	Years Post Last Infusion				
	1	2	3	4	5
0	188	159	135	119	100
1	9	7	3	2	2
Total	197	166	138	121	102

Testing at 1-5 yr

### The GENMOD Procedure

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2749	0.1736	-0.0654	0.6151	1.58	0.1134
<i>yrspli</i>	-0.2976	0.0514	-0.3982	-0.1969	-5.79	<.0001
<i>baseantihypgly_</i>	0.5385	0.7842	-0.9985	2.0755	0.69	0.4923
<i>yrspli*baseantihypgl</i>	0.1614	0.0696	0.0249	0.2978	2.32	0.0205

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***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2671	0.1724	-0.0707	0.6050	1.55	0.1212
<i>yrspli</i>	-0.2931	0.0500	-0.3912	-0.1951	-5.86	<.0001
<i>baseantihypgly_</i>	0.8806	0.6616	-0.4162	2.1774	1.33	0.1832

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.9637	.	.	.	.	.
<i>yrspli</i>	-0.4700	.	.	.	.	.
<i>baseantihypgly_</i>	-23.3291	.	.	.	.	.
<i>yrspli*baseantihypgl</i>	0.4700	.	.	.	.	.

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***The GENMOD Procedure***

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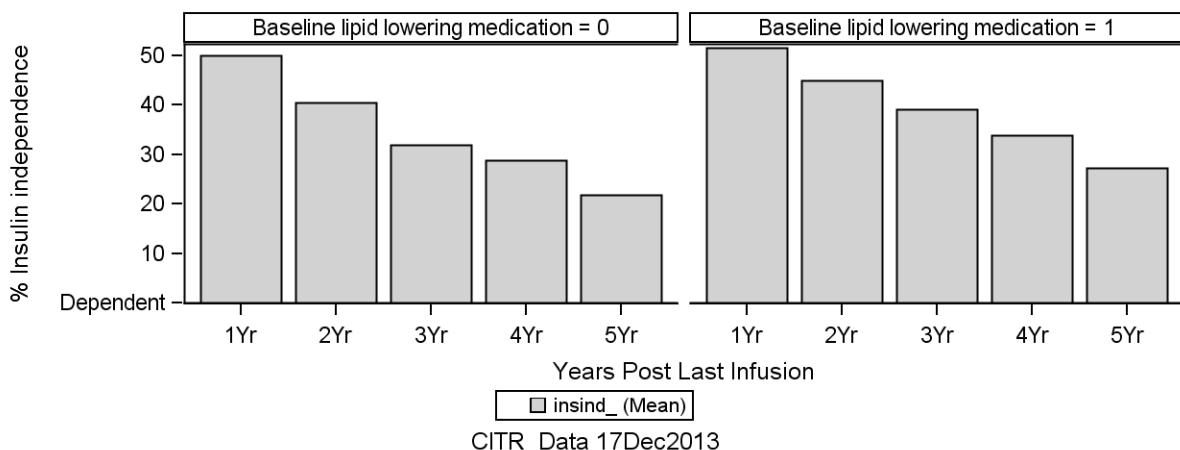
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.9637	.	.	.	.	.
<i>yrspli</i>	-0.4700	.	.	.	.	.
<i>baseantihypgly_</i>	-23.2301	.	.	.	.	.

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## Insulin independence



		Years Post Last Infusion				
		1	2	3	4	5
Baseline lipid lowering medication						
0		359	331	305	288	261
1		200	178	159	136	110
<i>Total</i>		559	509	464	424	371

Testing at 1-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.2215	0.1184	-0.0105	0.4536	1.87	0.0613
yrspli	-0.2881	0.0337	-0.3541	-0.2220	-8.55	<.0001
baselipmed_	0.0097	0.1891	-0.3608	0.3803	0.05	0.9590
yrspli*baselipmed_	0.0631	0.0517	-0.0383	0.1645	1.22	0.2227

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1830	0.1111	-0.0347	0.4007	1.65	0.0994
yrspli	-0.2670	0.0259	-0.3178	-0.2162	-10.30	<.0001
baselipmed_	0.1292	0.1625	-0.1894	0.4477	0.79	0.4268

Testing at 4-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2265	0.3490	-0.4576 0.9106	0.65	0.5164
yrspli	-0.2835	0.0760	-0.4326 -0.1345	-3.73	0.0002
baselipmed_	-0.4010	0.6435	-1.6622 0.8603	-0.62	0.5332
yrspli*baselipmed_	0.1594	0.1393	-0.1136 0.4323	1.14	0.2524

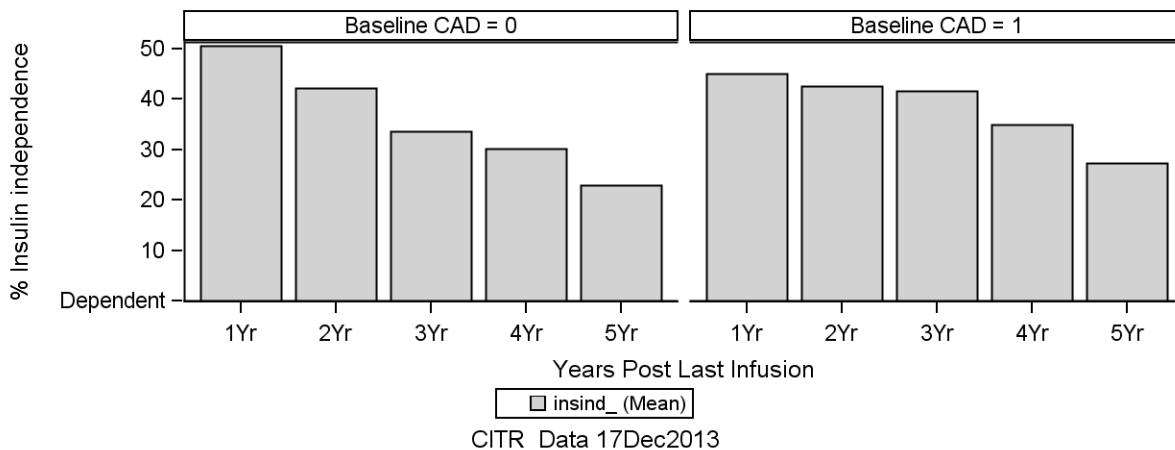
### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.0049	0.3056	-0.5941 0.6038	0.02	0.9873
yrspli	-0.2321	0.0639	-0.3572 -0.1069	-3.63	0.0003
baselipmed_	0.2850	0.2177	-0.1417 0.7117	1.31	0.1906

Insulin independence



		Years Post Last Infusion				
		1	2	3	4	5
Baseline CAD	0	510	456	413	377	335
	1	60	54	48	43	33
	Total	570	510	461	420	368

Testing at 1-5 yr

**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates						
Parameter	Empirical Standard Error Estimates			Z	Pr >  Z	
	Estimate	Standard Error	95% Confidence Limits			
Intercept	0.2412	0.0977	0.0498 0.4327	2.47	0.0135	
yrspli	-0.2813	0.0280	-0.3362 -0.2264	-10.04	<.0001	
basecad_	-0.2262	0.2990	-0.8122 0.3597	-0.76	0.4492	
yrspli*basecad_	0.1071	0.0812	-0.0521 0.2662	1.32	0.1874	

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**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates						
Parameter	Empirical Standard Error Estimates			Z	Pr >  Z	
	Estimate	Standard Error	95% Confidence Limits			
Intercept	0.2209	0.0963	0.0321 0.4097	2.29	0.0218	
yrspli	-0.2703	0.0263	-0.3218 -0.2187	-10.28	<.0001	
basecad_	-0.0213	0.2560	-0.5231 0.4804	-0.08	0.9336	

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Testing at 4-5 yr

**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates						
Parameter	Empirical Standard Error Estimates			Z	Pr >  Z	
	Estimate	Standard Error	95% Confidence Limits			
Intercept	0.1885	0.3259	-0.4503 0.8273	0.58	0.5630	
yrspli	-0.2568	0.0710	-0.3959 -0.1177	-3.62	0.0003	
basecad_	-0.0892	0.7430	-1.5454 1.3671	-0.12	0.9045	
yrspli*basecad_	0.0759	0.1546	-0.2271 0.3790	0.49	0.6234	

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**The GENMOD Procedure**

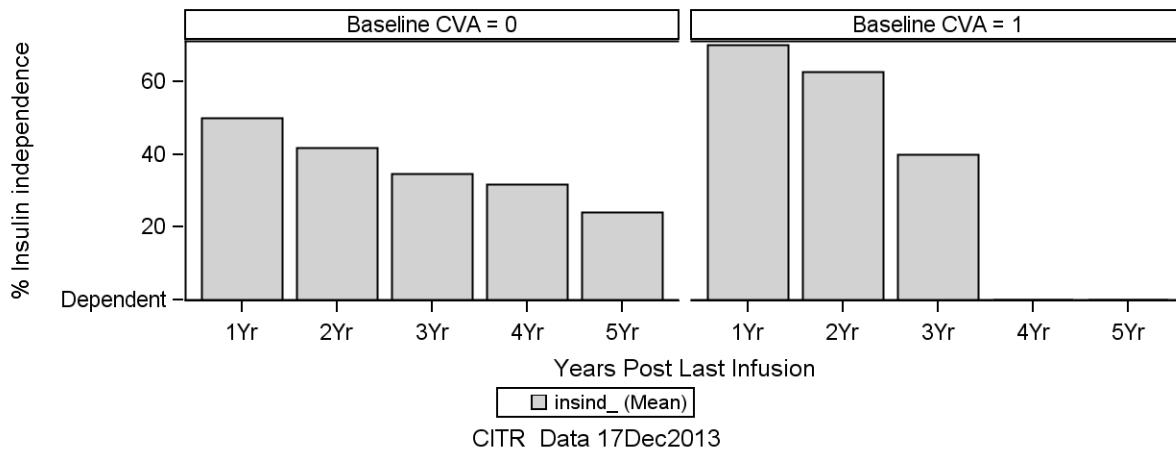
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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1569	0.3037	-0.4384	0.7522	0.52	0.6054
yrspli	-0.2495	0.0654	-0.3776	-0.1214	-3.82	0.0001
basecad_	0.2367	0.3364	-0.4225	0.8960	0.70	0.4816

Insulin independence



		Years Post Last Infusion				
		1	2	3	4	5
Baseline CVA						
0		547	490	445	408	358
1		10	8	5	4	2
Total		557	498	450	412	360

Testing at 1-5 yr

*The GENMOD Procedure*

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1987	0.0937	0.0152	0.3823	2.12	0.0338
yrspli	-0.2632	0.0267	-0.3154	-0.2109	-9.88	<.0001
basecva_	1.7471	1.2844	-0.7703	4.2644	1.36	0.1738
yrspli*basecva_	-0.3679	0.3590	-1.0715	0.3356	-1.03	0.3054

*The GENMOD Procedure*

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2051	0.0935	0.0218	0.3885	2.19	0.0283
<i>yrspli</i>	-0.2667	0.0267	-0.3189	-0.2144	-10.00	<.0001
<i>basecva_</i>	0.7675	0.5507	-0.3119	1.8469	1.39	0.1634

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.7488	.	.	.	.	.
<i>yrspli</i>	-0.3801	.	.	.	.	.
<i>basecva_</i>	-22.1141	.	.	.	.	.
<i>yrspli*basecva_</i>	0.3801	.	.	.	.	.

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***The GENMOD Procedure***

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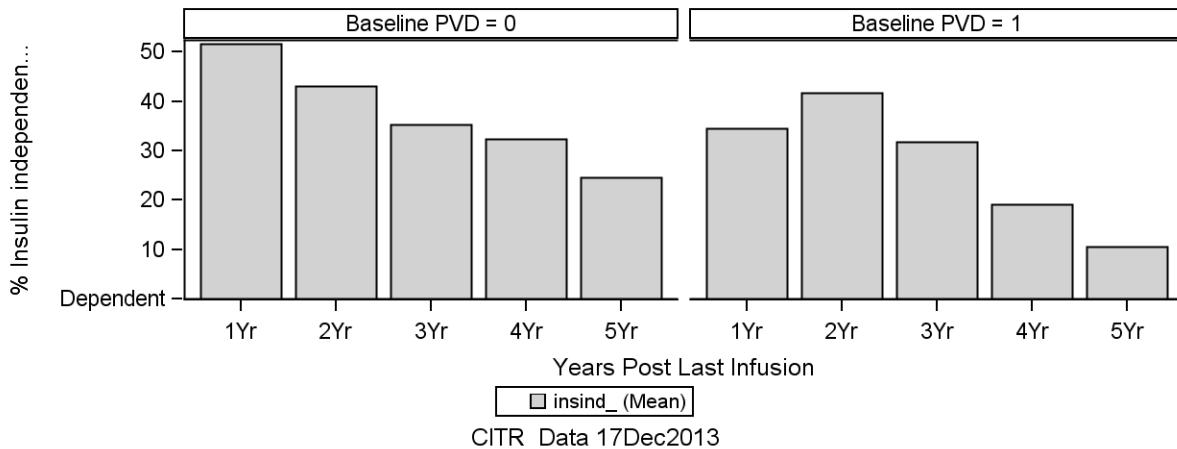
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2761	.	.	.	.	.
<i>yrspli</i>	-0.2619	.	.	.	.	.
<i>basecva_</i>	-23.4757	.	.	.	.	.

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Insulin independence



Baseline PVD	Years Post Last Infusion				
	1	2	3	4	5
0	498	443	400	366	321
1	29	24	22	21	19
Total	527	467	422	387	340

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2764	0.0974	0.0855 0.4673	2.84	0.0045
yrspli	-0.2747	0.0277	-0.3290 -0.2204	-9.92	<.0001
basepvd_	-0.3335	0.5141	-1.3411 0.6741	-0.65	0.5165
yrspli*basepvd_	-0.0286	0.1487	-0.3201 0.2629	-0.19	0.8476

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2788	0.0969	0.0889 0.4687	2.88	0.0040
yrspli	-0.2760	0.0273	-0.3294 -0.2226	-10.12	<.0001
basepvd_	-0.3840	0.3943	-1.1569 0.3889	-0.97	0.3302

Testing at 4-5 yr

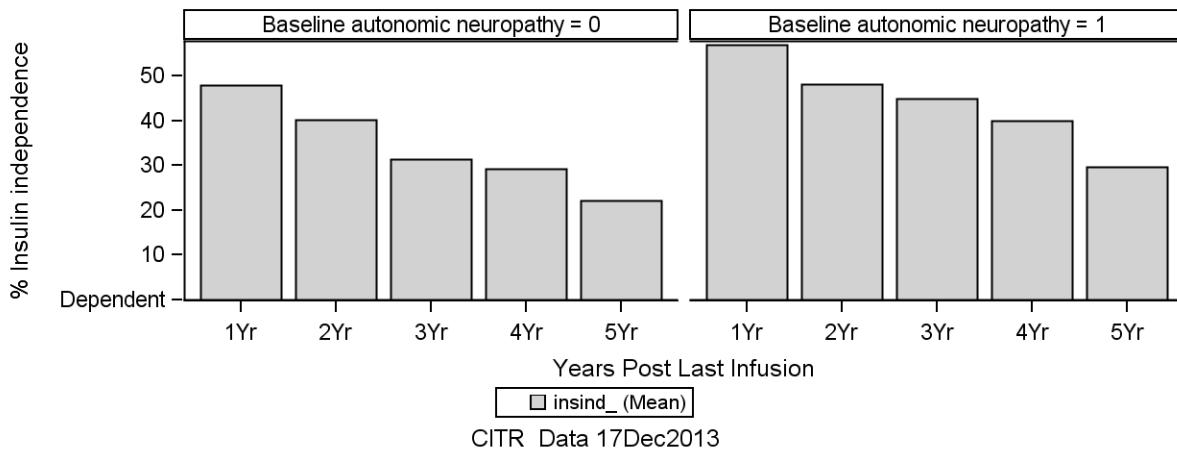
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.2919	0.3259	-0.3468	0.9307	0.90	0.3704
yrspli	-0.2587	0.0709	-0.3976	-0.1198	-3.65	0.0003
basepvd_	0.1655	1.7346	-3.2342	3.5653	0.10	0.9240
yrspli*basepvd_	-0.2174	0.3948	-0.9912	0.5564	-0.55	0.5818

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3249	0.3205	-0.3032	0.9530	1.01	0.3107
yrspli	-0.2663	0.0697	-0.4029	-0.1298	-3.82	0.0001
basepvd_	-0.7532	0.5629	-1.8564	0.3500	-1.34	0.1808

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Baseline autonomic neuropathy</i>					
0		424	377	341	311
1		116	104	96	85
Total		540	481	437	396
					350

Testing at 1-5 yr

### The GENMOD Procedure

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.1145	0.1052	-0.0916	0.3207	1.09	0.2763
<i>yrspli</i>	-0.2697	0.0311	-0.3307	-0.2087	-8.66	<.0001
<i>baseautneuro_</i>	0.3475	0.2315	-0.1062	0.8012	1.50	0.1333
<i>yrspli*baseautneuro_</i>	0.0405	0.0604	-0.0779	0.1590	0.67	0.5024

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***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.0976	0.1016	-0.1015	0.2967	0.96	0.3365
<i>yrspli</i>	-0.2599	0.0266	-0.3120	-0.2078	-9.77	<.0001
<i>baseautneuro_</i>	0.4350	0.1954	0.0520	0.8181	2.23	0.0260

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.0731	0.3474	-0.6077	0.7540	0.21	0.8332
<i>yrspli</i>	-0.2390	0.0752	-0.3864	-0.0916	-3.18	0.0015
<i>baseautneuro_</i>	0.8280	0.6918	-0.5278	2.1838	1.20	0.2313
<i>yrspli*baseautneuro_</i>	-0.0911	0.1492	-0.3835	0.2014	-0.61	0.5417

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***The GENMOD Procedure***

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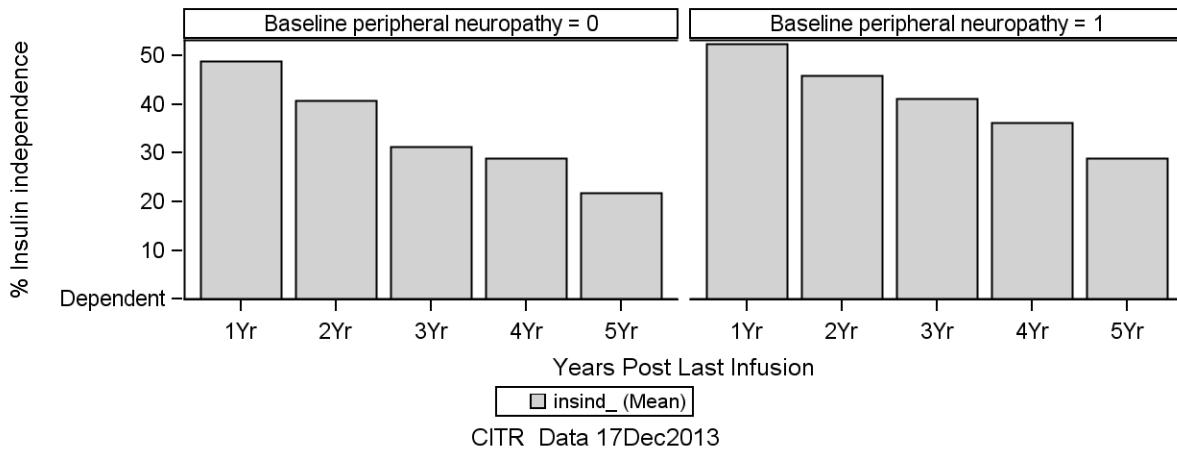
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.1684	0.3054	-0.4302	0.7669	0.55	0.5815
<i>yrspli</i>	-0.2612	0.0652	-0.3889	-0.1335	-4.01	<.0001
<i>baseautneuro_</i>	0.4337	0.2485	-0.0534	0.9208	1.75	0.0810

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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Baseline peripheral neuropathy</i>					
0		364	322	294	270
1		204	185	165	146
<i>Total</i>		568	507	459	416
					363

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.1851	0.1138	-0.0380 0.4082	1.63	0.1039
yrspli	-0.2946	0.0344	-0.3620 -0.2273	-8.57	<.0001
baseperneuro_	0.1020	0.1933	-0.2769 0.4809	0.53	0.5977
yrspli*baseperneuro_	0.0815	0.0534	-0.0231 0.1862	1.53	0.1268

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.1307	0.1078	-0.0806 0.3419	1.21	0.2253
yrspli	-0.2637	0.0262	-0.3151 -0.2124	-10.07	<.0001
baseperneuro_	0.2629	0.1614	-0.0535 0.5793	1.63	0.1034

Testing at 4-5 yr

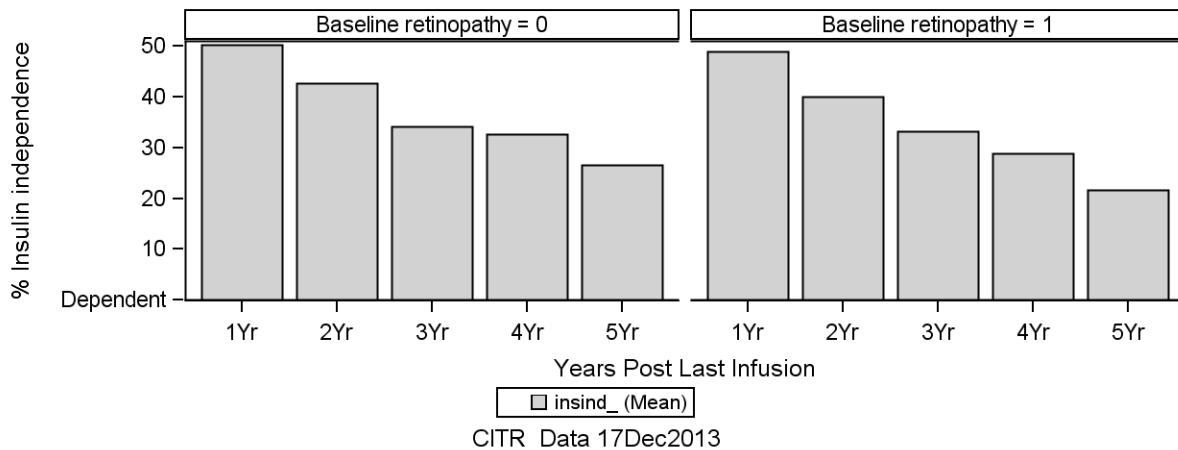
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1720	0.4030	-0.6178	0.9618	0.43	0.6695
yrspli	-0.2682	0.0883	-0.4413	-0.0951	-3.04	0.0024
baseperneuro_	0.1103	0.5987	-1.0631	1.2836	0.18	0.8538
yrspli*baseperneuro_	0.0551	0.1292	-0.1981	0.3082	0.43	0.6698

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.0830	0.3129	-0.5303	0.6962	0.27	0.7909
yrspli	-0.2475	0.0654	-0.3757	-0.1193	-3.78	0.0002
baseperneuro_	0.3481	0.2139	-0.0711	0.7673	1.63	0.1036

Insulin independence



Baseline retinopathy	Years Post Last Infusion				
	1	2	3	4	5
0	207	183	161	150	128
1	346	317	292	268	237
Total	553	500	453	418	365

Testing at 1-5 yr

### The GENMOD Procedure

CITR Data 17Dec2013

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.2135	0.1535	-0.0874	0.5144	1.39	0.1643
yrspli	-0.2795	0.0479	-0.3735	-0.1856	-5.83	<.0001
baseretinopath_	-0.0680	0.1929	-0.4461	0.3100	-0.35	0.7243
yrspli*baseretinopat	0.0280	0.0570	-0.0836	0.1396	0.49	0.6229

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1822	0.1367	-0.0858	0.4502	1.33	0.1828
yrspli	-0.2618	0.0261	-0.3129	-0.2106	-10.02	<.0001
baseretinopath_	-0.0182	0.1625	-0.3366	0.3003	-0.11	0.9110

Testing at 4-5 yr

### The GENMOD Procedure

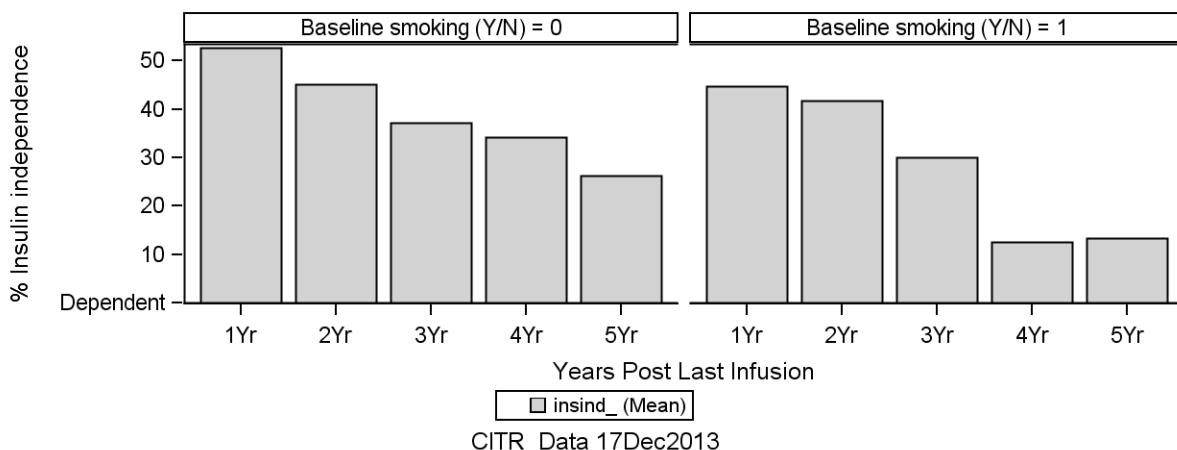
Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.0296	0.3585	-0.7323	0.6730	-0.08	0.9341
yrspli	-0.1753	0.0735	-0.3194	-0.0312	-2.38	0.0171
baseretinopath_	0.2026	0.5418	-0.8592	1.2645	0.37	0.7084
yrspli*baseretinopat	-0.0951	0.1155	-0.3214	0.1312	-0.82	0.4103

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.2271	0.3143	-0.3888	0.8431	0.72	0.4698
yrspli	-0.2349	0.0621	-0.3567	-0.1131	-3.78	0.0002
baseretinopath_	-0.2063	0.2174	-0.6324	0.2198	-0.95	0.3427

Insulin independence  
Testing at 1-5 yr  
Testing at 4-5 yr

Insulin independence



		Years Post Last Infusion				
		1	2	3	4	5
		Baseline smoking (Y/N)				
	0	484	427	388	356	305
	1	29	24	20	16	15
	Total	513	451	408	372	320

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3225	0.0989	0.1288	0.5163	3.26	0.0011
yrspli	-0.2643	0.0276	-0.3185	-0.2102	-9.56	<.0001
basesmoke_	-0.0878	0.4754	-1.0195	0.8439	-0.18	0.8534
yrspli*basesmoke_	-0.0840	0.1392	-0.3568	0.1889	-0.60	0.5465

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3289	0.0982	0.1365	0.5213	3.35	0.0008
yrspli	-0.2676	0.0271	-0.3207	-0.2145	-9.87	<.0001
basesmoke_	-0.2345	0.3729	-0.9654	0.4964	-0.63	0.5295

Testing at 4-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.4356	0.3226	-0.1968	1.0679	1.35	0.1770
yrspli	-0.2717	0.0702	-0.4093	-0.1341	-3.87	0.0001
basesmoke_	-2.4318	0.8237	-4.0463	-0.8173	-2.95	0.0032
yrspli*basesmoke_	0.2843	0.0714	0.1444	0.4242	3.98	<.0001

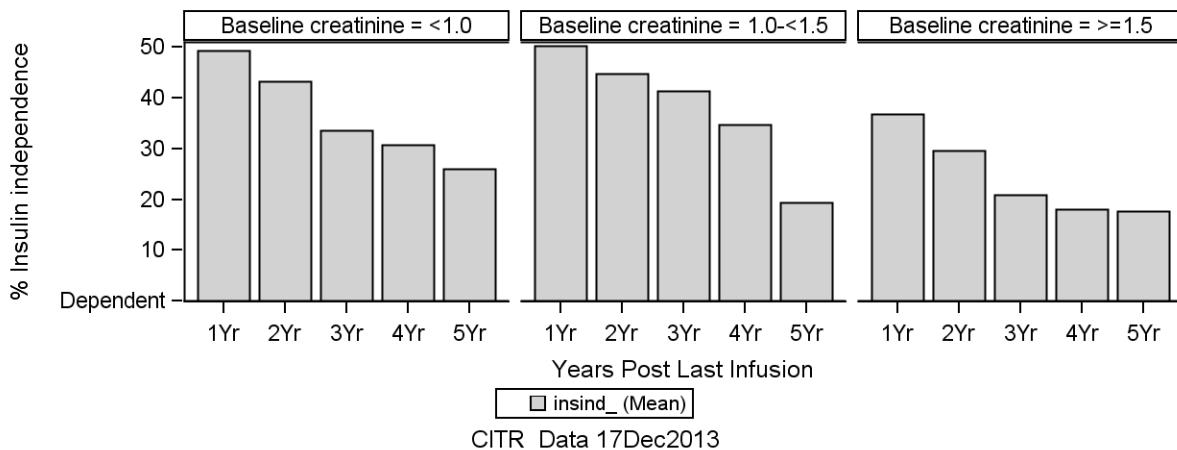
### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.4055	0.3169	-0.2156	1.0265	1.28	0.2007
yrspli	-0.2647	0.0687	-0.3993	-0.1301	-3.86	0.0001
basesmoke_	-1.2308	0.7655	-2.7312	0.2696	-1.61	0.1079

Insulin independence



Baseline creatinine	Years Post Last Infusion				
	1	2	3	4	5
<1.0	434	372	319	276	234
1.0-1.5	175	154	133	118	103
>=1.5	49	44	43	39	34
Total	658	570	495	433	371

CITR Data 17Dec2013

Testing at 1-5 yr

**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates						
Parameter			Empirical Standard Error Estimates			
	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3062	0.2123	-0.1099	0.7223	1.44	0.1492
yrspli	-0.2546	0.0606	-0.3734	-0.1359	-4.20	<.0001
basecreat_c	-0.0972	0.1384	-0.3684	0.1740	-0.70	0.4826
yrspli*basecreat_c	0.0018	0.0384	-0.0733	0.0770	0.05	0.9620

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**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates						
Parameter			Empirical Standard Error Estimates			
	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3016	0.1827	-0.0566	0.6598	1.65	0.0988
yrspli	-0.2520	0.0247	-0.3004	-0.2036	-10.21	<.0001
basecreat_c	-0.0940	0.1151	-0.3195	0.1316	-0.82	0.4142

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Testing at 4-5 yr

**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates						
Parameter			Empirical Standard Error Estimates			
	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.4997	0.5816	-1.6396	0.6403	-0.86	0.3903
yrspli	-0.0236	0.1312	-0.2807	0.2336	-0.18	0.8575
basecreat_c	0.4805	0.3960	-0.2955	1.2566	1.21	0.2249
yrspli*basecreat_c	-0.1588	0.0927	-0.3406	0.0230	-1.71	0.0869

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**The GENMOD Procedure**

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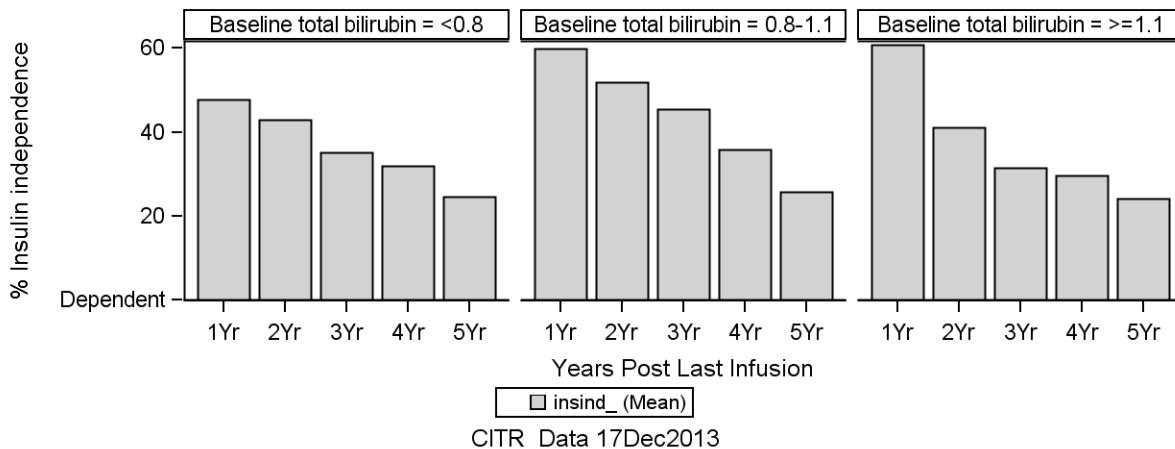
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.4396	0.3671	-0.2798	1.1591	1.20	0.2311
<i>yrspli</i>	-0.2477	0.0647	-0.3746	-0.1208	-3.83	0.0001
<i>basecreat_c</i>	-0.1833	0.1577	-0.4924	0.1257	-1.16	0.2450

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Insulin independence



		Years Post Last Infusion				
		1	2	3	4	5
Baseline total bilirubin						
<0.8		417	363	321	285	253
0.8-1.1		97	83	64	56	39
>=1.1		51	39	35	27	25
Total		565	485	420	368	317

Testing at 1-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	-0.1783	0.2200	-0.6094	0.2529	-0.81	0.4177
<i>yrspli</i>	-0.2056	0.0621	-0.3273	-0.0839	-3.31	0.0009
<i>basebili_c</i>	0.3279	0.1511	0.0318	0.6241	2.17	0.0300
<i>yrspli</i> * <i>basebili_c</i>	-0.0430	0.0435	-0.1282	0.0423	-0.99	0.3233

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***The GENMOD Procedure***

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-0.0714	0.1866	-0.4371	0.2943	-0.38	0.7021
<i>yrspli</i>	-0.2620	0.0269	-0.3148	-0.2092	-9.73	<.0001
<i>basebili_c</i>	0.2445	0.1200	0.0094	0.4797	2.04	0.0415

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2071	0.6900	-1.1453	1.5595	0.30	0.7641
<i>yrspli</i>	-0.2412	0.1481	-0.5315	0.0490	-1.63	0.1034
<i>basebili_c</i>	0.0286	0.4456	-0.8448	0.9020	0.06	0.9488
<i>yrspli*basebili_c</i>	-0.0034	0.0949	-0.1895	0.1827	-0.04	0.9713

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***The GENMOD Procedure***

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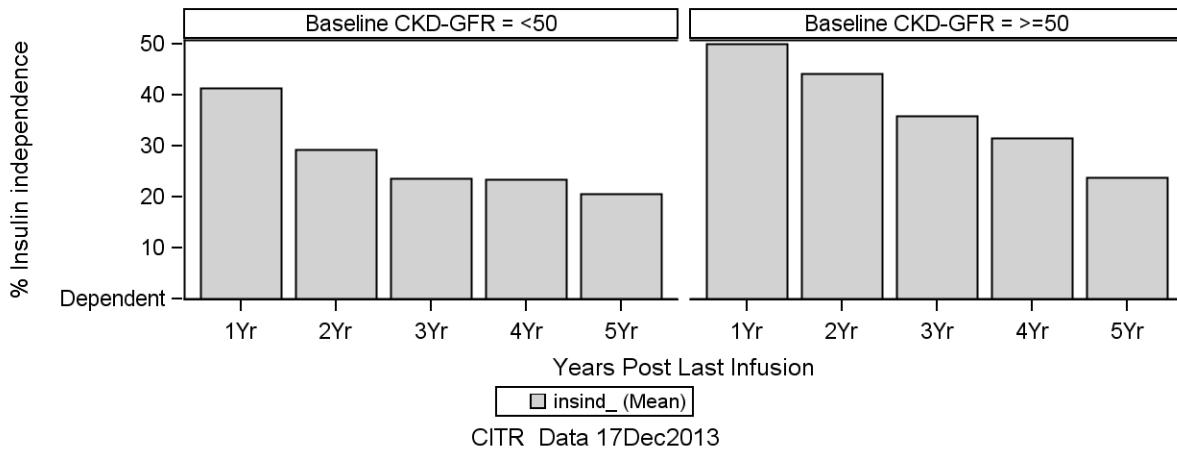
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2269	0.3905	-0.5383	0.9922	0.58	0.5611
<i>yrspli</i>	-0.2458	0.0666	-0.3763	-0.1153	-3.69	0.0002
<i>basebili_c</i>	0.0139	0.1823	-0.3434	0.3711	0.08	0.9393

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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Baseline CKD-GFR</i>					
<50	46	41	38	34	29
≥50	589	515	452	397	341
Total	635	556	490	431	370

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.7950	0.6381	-2.0455 0.4556	-1.25	0.2128
yrspli	-0.1009	0.1650	-0.4244 0.2225	-0.61	0.5408
base_ckdgfr_c	0.5136	0.3288	-0.1307 1.1580	1.56	0.1182
yrspli*base_ckdgfr_c	-0.0777	0.0854	-0.2451 0.0897	-0.91	0.3630

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.5797	0.5681	-1.6930 0.5337	-1.02	0.3075
yrspli	-0.2512	0.0245	-0.2993 -0.2031	-10.24	<.0001
base_ckdgfr_c	0.4012	0.2918	-0.1707 0.9731	1.37	0.1692

Testing at 4-5 yr

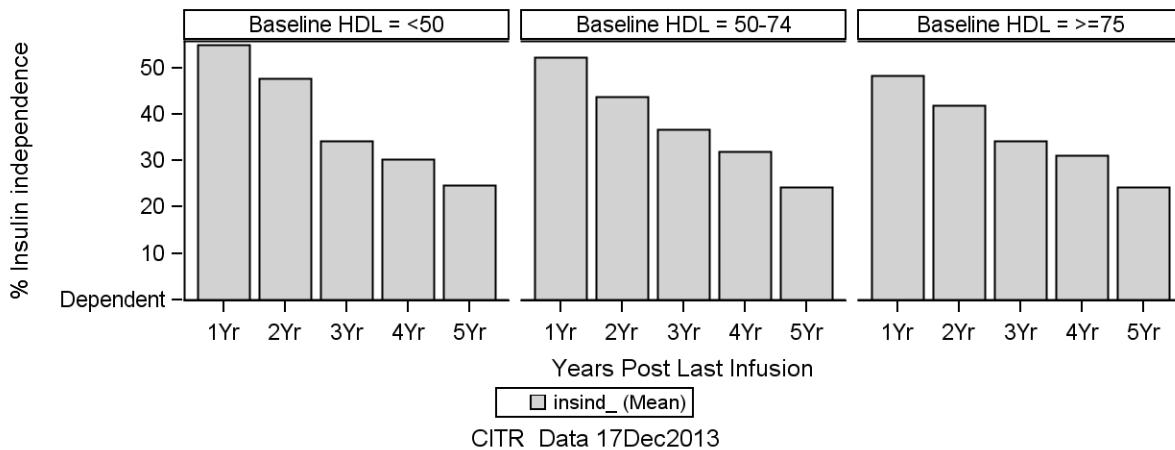
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-2.3925	0.9215	-4.1987	-0.5864	-2.60	0.0094
yrspli	0.2038	0.1024	0.0031	0.4045	1.99	0.0465
base_ckdgfr_c	1.3335	0.5367	0.2816	2.3854	2.48	0.0130
yrspli*base_ckdgfr_c	-0.2337	0.0789	-0.3885	-0.0790	-2.96	0.0031

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.4624	0.8476	-2.1237	1.1989	-0.55	0.5854
yrspli	-0.2479	0.0648	-0.3748	-0.1209	-3.83	0.0001
base_ckdgfr_c	0.3345	0.4184	-0.4856	1.1546	0.80	0.4241

Insulin independence



Baseline HDL	Years Post Last Infusion				
	1	2	3	4	5
<50	102	84	70	63	57
50-74	301	274	243	216	189
>=75	143	117	108	100	87
Total	546	475	421	379	333

Testing at 1-5 yr

### The GENMOD Procedure

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.5322	0.3069	-0.0693	1.1337	1.73	0.0829
<i>yrspli</i>	-0.2390	0.0885	-0.4126	-0.0655	-2.70	0.0069
<i>base_HDL_c</i>	-0.1228	0.1402	-0.3976	0.1519	-0.88	0.3808
<i>yrspli*base_HDL_c</i>	-0.0136	0.0416	-0.0951	0.0679	-0.33	0.7432

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***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.5853	0.2640	0.0678	1.1027	2.22	0.0266
<i>yrspli</i>	-0.2674	0.0271	-0.3204	-0.2143	-9.88	<.0001
<i>base_HDL_c</i>	-0.1480	0.1183	-0.3799	0.0838	-1.25	0.2109

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.0934	0.9365	-1.7422	1.9290	0.10	0.9206
<i>yrspli</i>	-0.2257	0.2005	-0.6186	0.1672	-1.13	0.2603
<i>base_HDL_c</i>	0.0068	0.4552	-0.8855	0.8990	0.01	0.9881
<i>yrspli*base_HDL_c</i>	0.0013	0.0981	-0.1911	0.1936	0.01	0.9897

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***The GENMOD Procedure***

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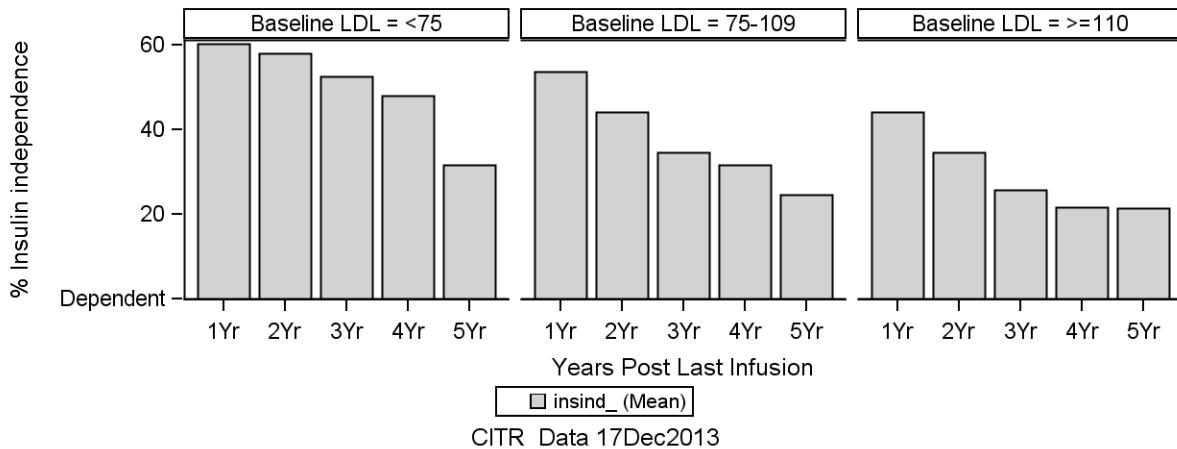
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.0829	0.4636	-0.8257	0.9914	0.18	0.8582
<i>yrspli</i>	-0.2232	0.0663	-0.3532	-0.0933	-3.37	0.0008
<i>base_HDL_c</i>	0.0122	0.1669	-0.3148	0.3393	0.07	0.9416

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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
Baseline LDL					
<75	128	107	86	69	54
75-109	263	236	214	200	179
>=110	132	113	105	93	84
Total	523	456	405	362	317

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	1.1459	0.3075	0.5433	1.7485	3.73	0.0002
yrspli	-0.2627	0.0896	-0.4382	-0.0871	-2.93	0.0034
base_LDL_c	-0.4014	0.1433	-0.6824	-0.1205	-2.80	0.0051
yrspli*base_LDL_c	-0.0094	0.0434	-0.0945	0.0756	-0.22	0.8276

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	1.1827	0.2578	0.6774	1.6880	4.59	<.0001
yrspli	-0.2816	0.0283	-0.3370	-0.2261	-9.96	<.0001
base_LDL_c	-0.4187	0.1174	-0.6488	-0.1887	-3.57	0.0004

Testing at 4-5 yr

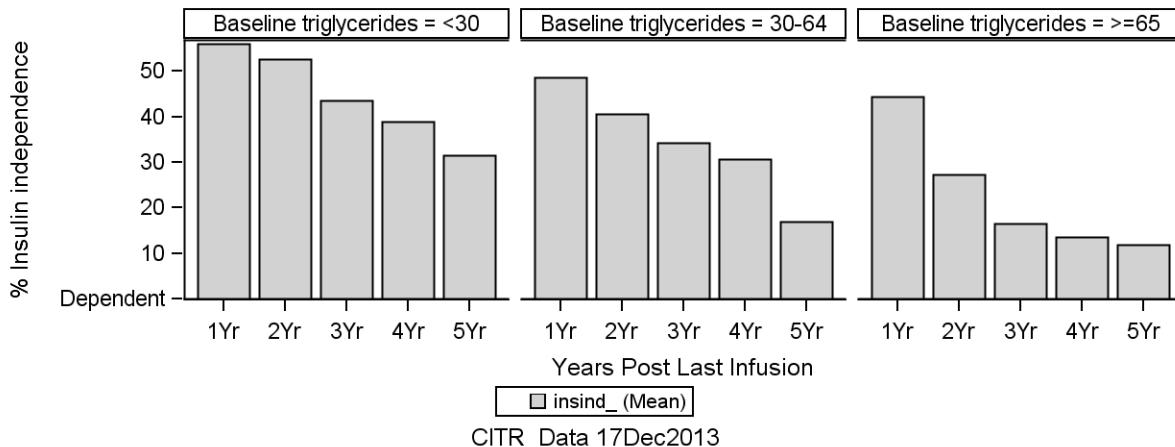
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	3.4163	1.0893	1.2813	5.5513	3.14	0.0017
yrspli	-0.7363	0.2348	-1.1964	-0.2762	-3.14	0.0017
base_LDL_c	-1.6142	0.4805	-2.5560	-0.6724	-3.36	0.0008
yrspli*base_LDL_c	0.2517	0.1015	0.0527	0.4507	2.48	0.0132

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	1.2245	0.4918	0.2606	2.1884	2.49	0.0128
yrspli	-0.2295	0.0713	-0.3692	-0.0899	-3.22	0.0013
base_LDL_c	-0.5268	0.1727	-0.8652	-0.1884	-3.05	0.0023

Insulin independence



Baseline triglycerides	Years Post Last Infusion				
	1	2	3	4	5
<30	316	275	248	216	187
30-64	140	123	108	101	83
>=65	124	110	97	89	84
Total	580	508	453	406	354

Testing at 1-5 yr

**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates						
Parameter	Empirical Standard Error Estimates					
	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.6946	0.2165	0.2704 1.1189	3.21	0.0013	
yrspli	-0.1382	0.0619	-0.2595 -0.0169	-2.23	0.0256	
base_trigl_c	-0.2263	0.1190	-0.4595 0.0069	-1.90	0.0572	
yrspli*base_trigl_c	-0.0930	0.0386	-0.1687 -0.0173	-2.41	0.0161	

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**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates						
Parameter	Empirical Standard Error Estimates					
	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.9656	0.1853	0.6024 1.3288	5.21	<.0001	
yrspli	-0.2819	0.0265	-0.3337 -0.2300	-10.65	<.0001	
base_trigl_c	-0.3866	0.0957	-0.5741 -0.1990	-4.04	<.0001	

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Testing at 4-5 yr

**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates						
Parameter	Empirical Standard Error Estimates					
	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	1.5551	0.6817	0.2190 2.8911	2.28	0.0225	
yrspli	-0.3364	0.1486	-0.6275 -0.0452	-2.26	0.0236	
base_trigl_c	-0.7883	0.4116	-1.5950 0.0185	-1.91	0.0555	
yrspli*base_trigl_c	0.0415	0.0907	-0.1362 0.2192	0.46	0.6471	

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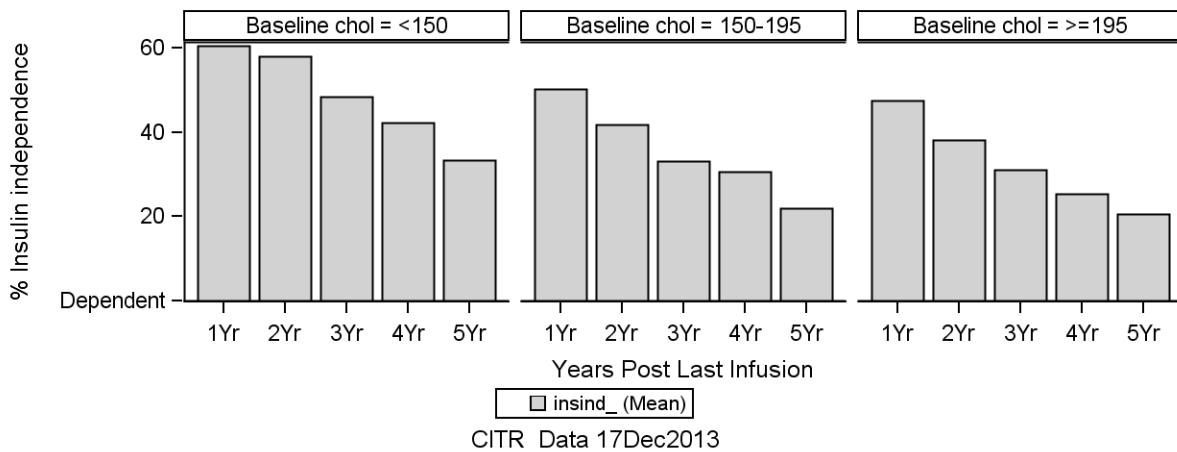
**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates						
Parameter	Empirical Standard Error Estimates					
	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	1.2891	0.3972	0.5106 2.0676	3.25	0.0012	
yrspli	-0.2743	0.0705	-0.4126 -0.1360	-3.89	0.0001	
base_trigl_c	-0.6116	0.1426	-0.8910 -0.3322	-4.29	<.0001	

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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Baseline chol</i>					
<150	134	114	93	76	60
150-195	289	259	233	219	197
>=195	156	134	126	111	97
<i>Total</i>	579	507	452	406	354

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.9258	0.2874	0.3625 1.4891	3.22	0.0013
yrspli	-0.2611	0.0837	-0.4251 -0.0971	-3.12	0.0018
base_chol_c	-0.3062	0.1332	-0.5672 -0.0452	-2.30	0.0215
yrspli*base_chol_c	-0.0083	0.0393	-0.0854 0.0688	-0.21	0.8331

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.9570	0.2442	0.4784 1.4356	3.92	<.0001
yrspli	-0.2779	0.0266	-0.3301 -0.2258	-10.45	<.0001
base_chol_c	-0.3209	0.1111	-0.5387 -0.1030	-2.89	0.0039

Testing at 4-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	1.9381	0.9194	0.1362	3.7401	2.11	0.0350
yrspli	-0.4869	0.2023	-0.8834	-0.0904	-2.41	0.0161
base_chol_c	-0.8184	0.4457	-1.6919	0.0551	-1.84	0.0663
yrspli*base_chol_c	0.1098	0.0981	-0.0826	0.3021	1.12	0.2633

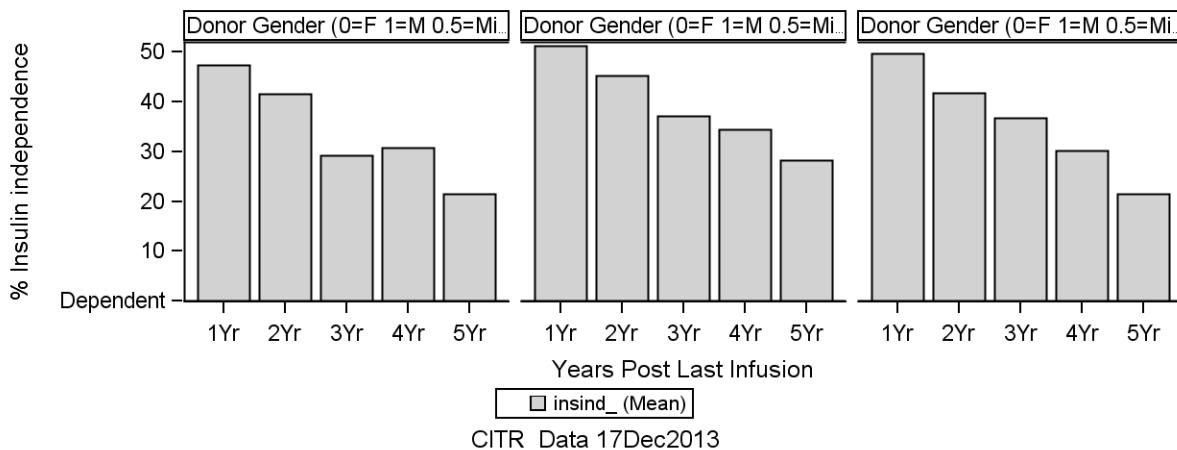
### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.9882	0.4591	0.0883	1.8881	2.15	0.0314
yrspli	-0.2638	0.0682	-0.3975	-0.1302	-3.87	0.0001
base_chol_c	-0.3520	0.1614	-0.6683	-0.0356	-2.18	0.0292

Insulin independence



Years Post Last Infusion					
Donor Gender (0=F 1=M 0.5=Mixed)					
Female					116 101 89 78 65
					287 248 213 186 159

	Years Post Last Infusion				
	1	2	3	4	5
Male	246	206	172	143	121
Total	649	555	474	407	345

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2060	0.1722	-0.1314 0.5435	1.20	0.2315
yrspli	-0.2792	0.0540	-0.3850 -0.1734	-5.17	<.0001
dgender_	0.0105	0.2465	-0.4725 0.4935	0.04	0.9660
yrspli*dgender_	0.0563	0.0737	-0.0881 0.2007	0.76	0.4449

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.1421	0.1462	-0.1445 0.4287	0.97	0.3312
yrspli	-0.2462	0.0250	-0.2953 -0.1971	-9.83	<.0001
dgender_	0.1202	0.2001	-0.2719 0.5124	0.60	0.5479

Testing at 4-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.6838	0.6070	-0.5060 1.8736	1.13	0.2600
yrspli	-0.3456	0.1332	-0.6066 -0.0846	-2.59	0.0095
dgender_	-0.7079	0.7732	-2.2233 0.8076	-0.92	0.3599
yrspli*dgender_	0.1556	0.1656	-0.1689 0.4802	0.94	0.3472

### The GENMOD Procedure

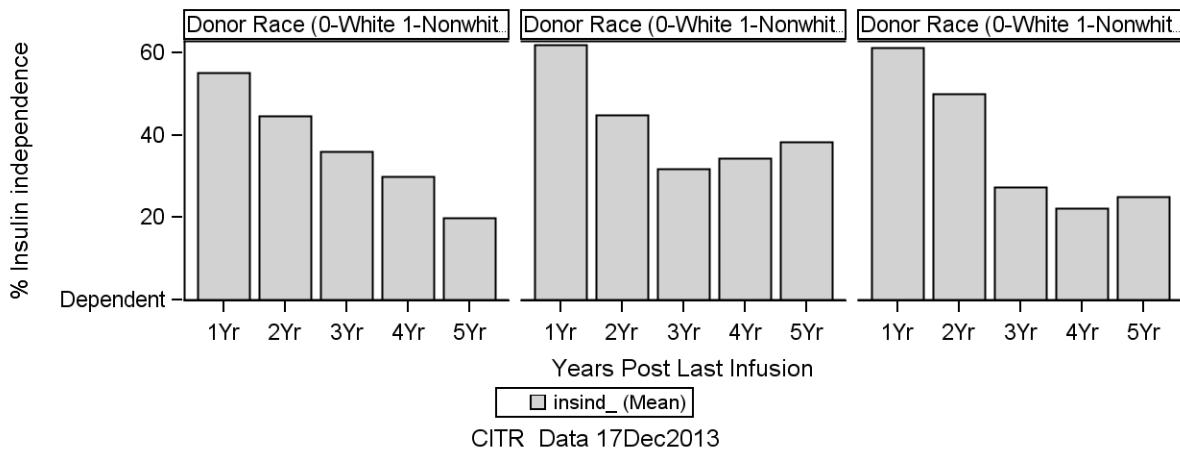
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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2977	0.3542	-0.3965 0.9920	0.84	0.4006
yrspli	-0.2561	0.0676	-0.3885 -0.1237	-3.79	0.0002
dgender_	-0.0366	0.2850	-0.5951 0.5219	-0.13	0.8978

Insulin independence



Years Post Last Infusion					
1    2    3    4    5					
Donor Race (0-White 1-Nonwhite)					
White	339	294	253	227	197
0.5	55	47	41	35	34
Non-white	18	14	11	9	8
Total	412	355	305	271	239

Testing at 1-5 yr

*The GENMOD Procedure*

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.4388	0.1178	0.2078 0.6697	3.72	0.0002
yrspli	-0.2990	0.0332	-0.3640 -0.2340	-9.02	<.0001
drace_	0.1724	0.4995	-0.8066 1.1514	0.35	0.7300
yrspli*drace_	-0.0745	0.1846	-0.4363 0.2874	-0.40	0.6866

*The GENMOD Procedure*

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.4537	0.1156	0.2272	0.6802	3.93	<.0001
<i>yrspli</i>	-0.3068	0.0318	-0.3691	-0.2445	-9.65	<.0001
<i>drace_</i>	0.0472	0.3359	-0.6112	0.7055	0.14	0.8883

Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.3085	0.4103	-0.4956	1.1126	0.75	0.4520
<i>yrspli</i>	-0.2850	0.0887	-0.4589	-0.1112	-3.21	0.0013
<i>drace_</i>	-2.4294	1.0491	-4.4856	-0.3732	-2.32	0.0206
<i>yrspli*drace_</i>	0.6000	0.1956	0.2167	0.9834	3.07	0.0022

***The GENMOD Procedure***

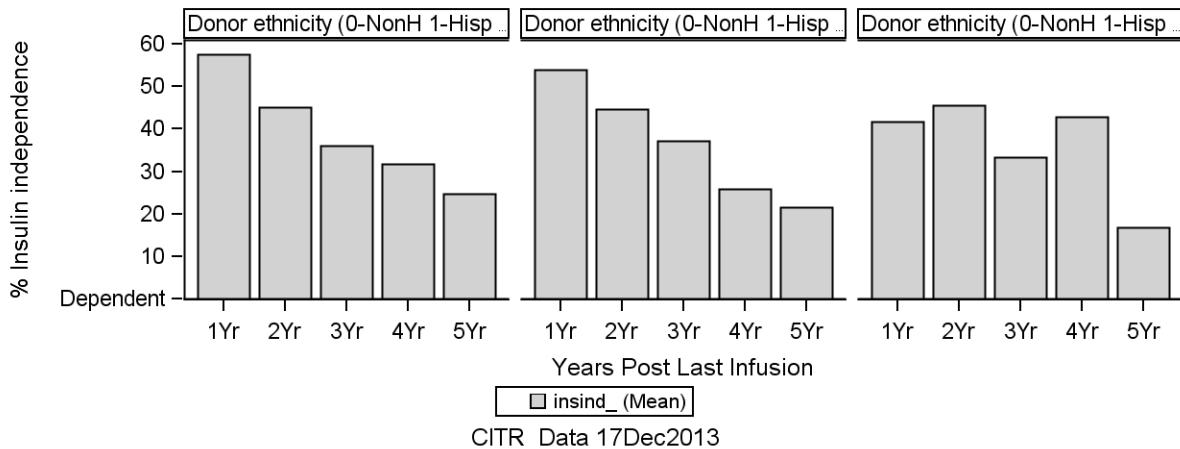
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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.0056	0.3672	-0.7141	0.7253	0.02	0.9878
<i>yrspli</i>	-0.2153	0.0770	-0.3662	-0.0645	-2.80	0.0051
<i>drace_</i>	0.2126	0.5376	-0.8411	1.2664	0.40	0.6925

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Donor ethnicity (0-NonH 1-Hisp 2-Mixed)</i>					
Non-Hispanic	331	280	245	218	191
Mixed	52	47	35	31	28
Hispanic	12	11	9	7	6
Total	395	338	289	256	225

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.4730	0.1182	0.2414 0.7047	4.00	<.0001
yrspli	-0.2986	0.0348	-0.3668 -0.2304	-8.59	<.0001
dethnic_	-0.4646	0.4802	-1.4057 0.4765	-0.97	0.3333
yrspli*dethnic_	0.1652	0.1064	-0.0434 0.3737	1.55	0.1206

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.4474	0.1155	0.2210 0.6738	3.87	0.0001
yrspli	-0.2840	0.0315	-0.3459 -0.2222	-9.00	<.0001
dethnic_	-0.1777	0.4120	-0.9851 0.6298	-0.43	0.6663

Testing at 4-5 yr

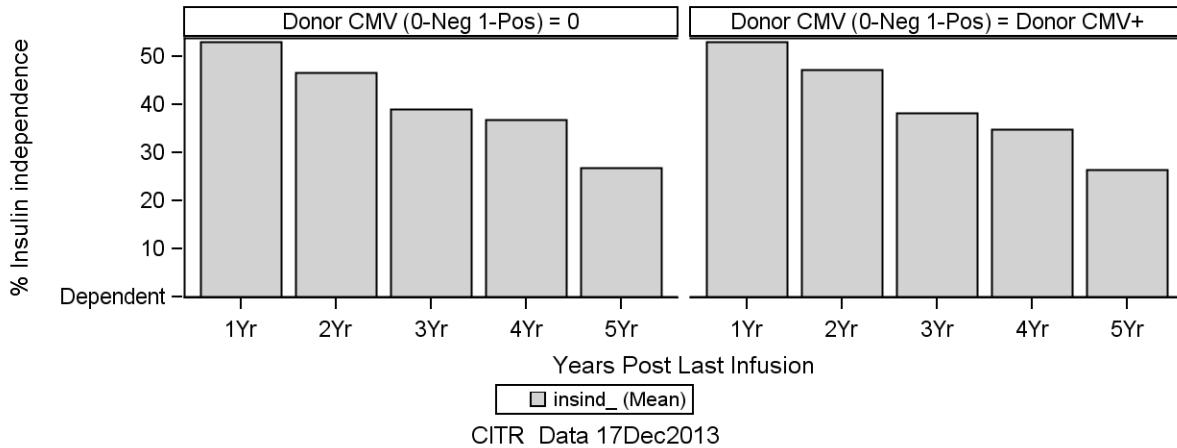
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	-0.2071	0.3565	-0.9058 0.4916	-0.58	0.5613	
yrspli	-0.1455	0.0745	-0.2916 0.0006	-1.95	0.0510	
dethnic_	1.0106	1.8384	-2.5926 4.6137	0.55	0.5825	
yrspli*dethnic_	-0.2506	0.3904	-1.0157 0.5145	-0.64	0.5209	

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	-0.1116	0.3241	-0.7467 0.5236	-0.34	0.7306	
yrspli	-0.1673	0.0672	-0.2990 -0.0355	-2.49	0.0128	
dethnic_	-0.0894	0.6020	-1.2693 1.0905	-0.15	0.8820	

Insulin independence



CITR Data 17Dec2013

Donor CMV (0-Neg 1-Pos)	Years Post Last Infusion				
	1	2	3	4	5
0		134	116	95	79
Donor CMV+		419	363	320	276
Total		553	479	415	355
					302

Testing at 1-5 yr

### The GENMOD Procedure

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2833	0.1938	-0.0965	0.6631	1.46	0.1438
<i>yrspli</i>	-0.2116	0.0553	-0.3199	-0.1032	-3.83	0.0001
<i>dcmv_</i>	0.0800	0.2215	-0.3541	0.5142	0.36	0.7179
<i>yrspli*dcmv_</i>	-0.0489	0.0628	-0.1720	0.0741	-0.78	0.4358

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***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.3585	0.1674	0.0303	0.6867	2.14	0.0323
<i>yrspli</i>	-0.2494	0.0262	-0.3007	-0.1980	-9.52	<.0001
<i>dcmv_</i>	-0.0178	0.1833	-0.3770	0.3414	-0.10	0.9228

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.9203	0.6690	-0.3909	2.2314	1.38	0.1689
<i>yrspli</i>	-0.3662	0.1467	-0.6538	-0.0787	-2.50	0.0125
<i>dcmv_</i>	-0.4681	0.7673	-1.9720	1.0358	-0.61	0.5418
<i>yrspli*dcmv_</i>	0.0961	0.1680	-0.2332	0.4253	0.57	0.5675

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***The GENMOD Procedure***

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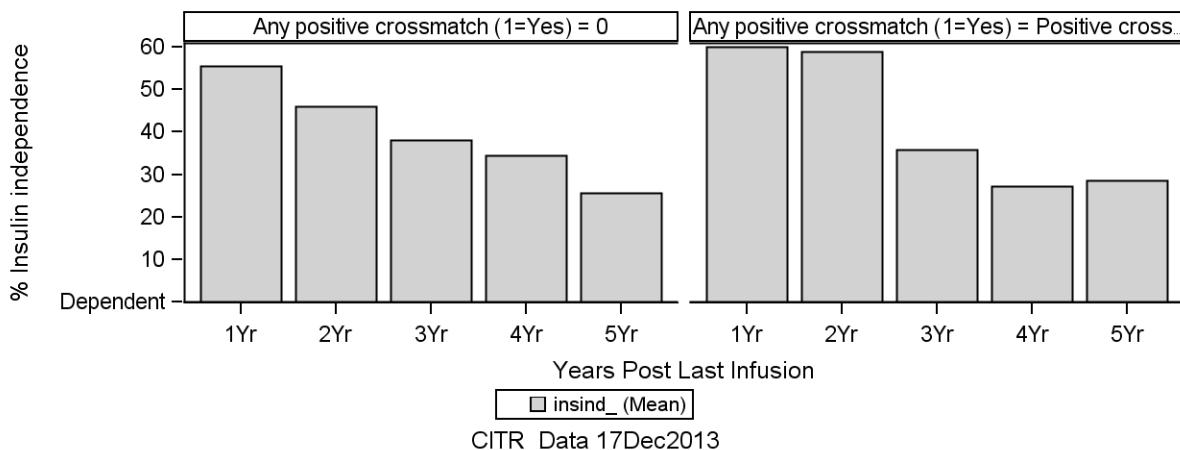
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.6007	0.3867	-0.1571	1.3586	1.55	0.1203
<i>yrspli</i>	-0.2921	0.0716	-0.4324	-0.1518	-4.08	<.0001
<i>dcmv_</i>	-0.0545	0.2604	-0.5649	0.4559	-0.21	0.8343

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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Any positive crossmatch (1=Yes)</i>					
0		375	340	305	267
Positive crossmatch		20	17	14	11
Total	395	357	319	278	230

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.4074	0.1143	0.1834 0.6314	3.56	0.0004
yrspli	-0.2568	0.0307	-0.3170 -0.1966	-8.37	<.0001
cadpos_	0.4010	0.4924	-0.5640 1.3661	0.81	0.4154
yrspli*cadpos_	-0.1582	0.1667	-0.4849 0.1686	-0.95	0.3428

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.4194	0.1135	0.1969 0.6420	3.69	0.0002
yrspli	-0.2626	0.0302	-0.3218 -0.2034	-8.69	<.0001
cadpos_	0.0941	0.4053	-0.7003 0.8885	0.23	0.8164

Testing at 4-5 yr

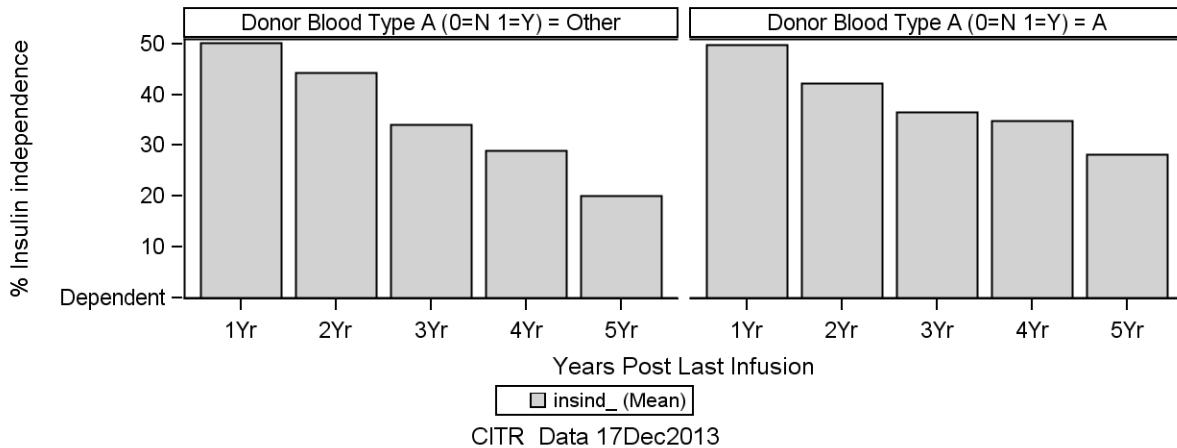
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.4382	0.3646	-0.2764 1.1528	1.20	0.2294	
yrspli	-0.2703	0.0791	-0.4254 -0.1152	-3.42	0.0006	
cadpos_	-3.7575	2.6475	-8.9465 1.4315	-1.42	0.1558	
yrspli*cadpos_	0.8549	0.5834	-0.2886 1.9984	1.47	0.1428	

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.3321	0.3682	-0.3895 1.0537	0.90	0.3670	
yrspli	-0.2458	0.0796	-0.4017 -0.0898	-3.09	0.0020	
cadpos_	-0.1284	0.6268	-1.3568 1.1000	-0.20	0.8377	

Insulin independence



CITR Data 17Dec2013

	Years Post Last Infusion				
	1	2	3	4	5
<i>Donor Blood Type A (0=N 1=Y)</i>					
Other	315	264	217	180	150
A	334	291	257	227	195
Total	649	555	474	407	345

Testing at 1-5 yr

### The GENMOD Procedure

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.3331	0.1284	0.0814	0.5848	2.59	0.0095
<i>yrspli</i>	-0.3094	0.0395	-0.3868	-0.2320	-7.84	<.0001
<i>dbldtypa_</i>	-0.2115	0.1749	-0.5543	0.1313	-1.21	0.2265
<i>yrspli*dbldtypa_</i>	0.1114	0.0508	0.0119	0.2109	2.19	0.0283

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***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2150	0.1159	-0.0121	0.4420	1.86	0.0635
<i>yrspli</i>	-0.2464	0.0250	-0.2954	-0.1973	-9.85	<.0001
<i>dbldtypa_</i>	-0.0026	0.1458	-0.2884	0.2832	-0.02	0.9856

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.7631	0.5979	-0.4088	1.9349	1.28	0.2018
<i>yrspli</i>	-0.4160	0.1351	-0.6807	-0.1513	-3.08	0.0021
<i>dbldtypa_</i>	-0.7758	0.6848	-2.1180	0.5663	-1.13	0.2572
<i>yrspli*dbldtypa_</i>	0.2609	0.1520	-0.0370	0.5589	1.72	0.0861

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***The GENMOD Procedure***

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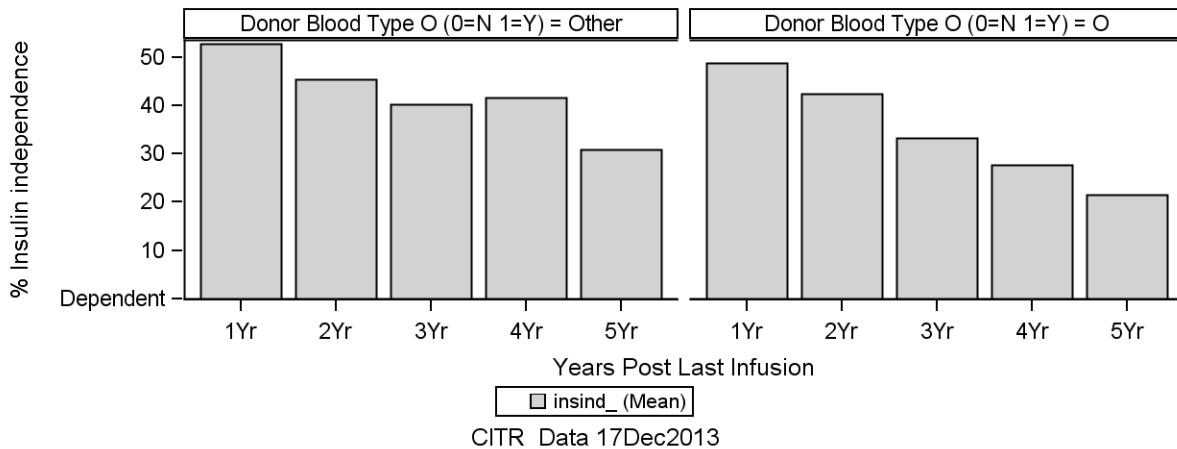
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.0899	0.3408	-0.5782	0.7579	0.26	0.7921
<i>yrspli</i>	-0.2583	0.0677	-0.3909	-0.1257	-3.82	0.0001
<i>dbldtypa_</i>	0.3443	0.2104	-0.0681	0.7567	1.64	0.1018

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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Donor Blood Type O (0=N 1=Y)</i>					
Other	203	170	154	135	117
O	446	385	320	272	228
Total	649	555	474	407	345

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2007	0.1512	-0.0957 0.4972	1.33	0.1845
yrspli	-0.1672	0.0400	-0.2455 -0.0888	-4.18	<.0001
dbldtypo_	0.0335	0.1851	-0.3292 0.3962	0.18	0.8565
yrspli*dbldtypo_	-0.1242	0.0512	-0.2245 -0.0239	-2.43	0.0152

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.3637	0.1379	0.0935 0.6340	2.64	0.0083
yrspli	-0.2470	0.0249	-0.2958 -0.1981	-9.91	<.0001
dbldtypo_	-0.2102	0.1574	-0.5187 0.0983	-1.34	0.1818

Testing at 4-5 yr

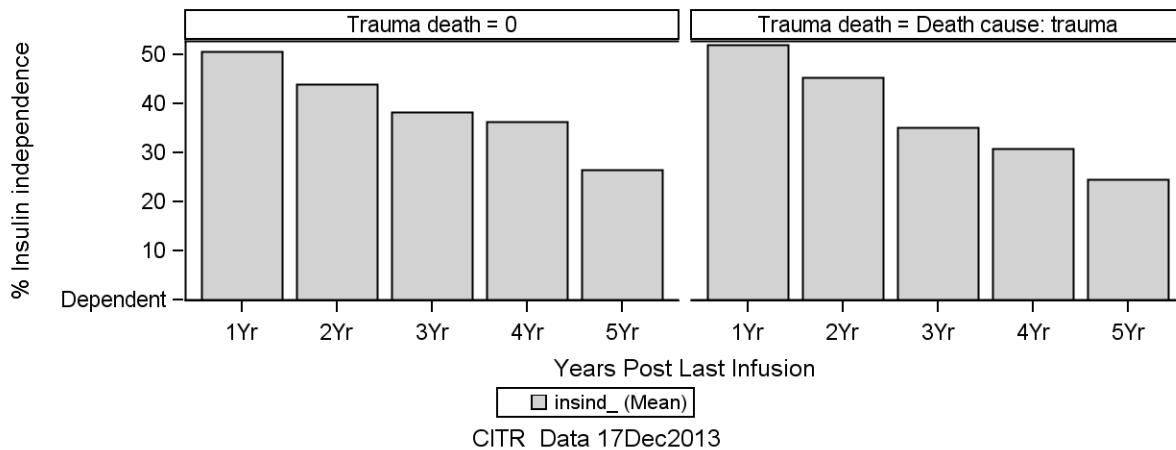
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.6050	0.3910	-0.1613	1.3712	1.55	0.1218
yrspli	-0.2395	0.0803	-0.3968	-0.0822	-2.98	0.0028
dbldtypo_	-0.4738	0.5982	-1.6461	0.6986	-0.79	0.4283
yrspli*dbldtypo_	-0.0347	0.1287	-0.2870	0.2176	-0.27	0.7875

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.6977	0.3450	0.0215	1.3739	2.02	0.0431
yrspli	-0.2608	0.0686	-0.3953	-0.1264	-3.80	0.0001
dbldtypo_	-0.6238	0.2167	-1.0484	-0.1991	-2.88	0.0040

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Trauma death</i>					
0	277	237	209	179	155
Death cause: trauma	310	272	237	205	172
Total	587	509	446	384	327

Testing at 1-5 yr

### The GENMOD Procedure

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2468	0.1280	-0.0041	0.4977	1.93	0.0539
<i>yrspli</i>	-0.2513	0.0373	-0.3245	-0.1782	-6.73	<.0001
<i>dthcautrau</i>	0.0379	0.1808	-0.3165	0.3923	0.21	0.8339
<i>yrspli*dthcautrau</i>	0.0069	0.0507	-0.0924	0.1061	0.14	0.8924

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***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2399	0.1187	0.0072	0.4726	2.02	0.0433
<i>yrspli</i>	-0.2478	0.0252	-0.2972	-0.1983	-9.82	<.0001
<i>dthcautrau</i>	0.0512	0.1528	-0.2483	0.3506	0.33	0.7377

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.8615	0.5093	-0.1367	1.8598	1.69	0.0907
<i>yrspli</i>	-0.3573	0.1124	-0.5775	-0.1371	-3.18	0.0015
<i>dthcautrau</i>	-0.9622	0.6446	-2.2256	0.3012	-1.49	0.1355
<i>yrspli*dthcautrau</i>	0.1793	0.1406	-0.0962	0.4548	1.28	0.2021

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***The GENMOD Procedure***

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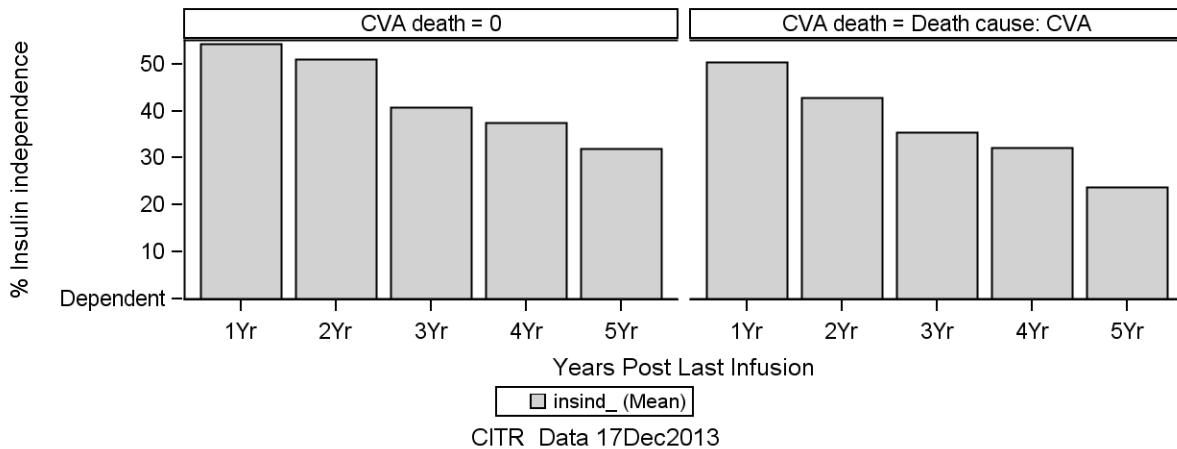
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.4682	0.3438	-0.2056	1.1421	1.36	0.1732
<i>yrspli</i>	-0.2663	0.0701	-0.4037	-0.1289	-3.80	0.0001
<i>dthcautrau</i>	-0.1899	0.2118	-0.6050	0.2253	-0.90	0.3700

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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>CVA death</i>					
0	142	114	96	83	66
Death cause: CVA	445	395	350	301	261
Total	587	509	446	384	327

Testing at 1-5 yr

### The GENMOD Procedure

---

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.3617	0.1922	-0.0151 0.7385	1.88	0.0599
yrspli	-0.2172	0.0567	-0.3284 -0.1061	-3.83	0.0001
dthcaucva	-0.1243	0.2180	-0.5515 0.3029	-0.57	0.5684
yrspli*dthcaucva	-0.0398	0.0633	-0.1639 0.0843	-0.63	0.5297

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### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.4232	0.1645	0.1008 0.7455	2.57	0.0101
yrspli	-0.2481	0.0253	-0.2977 -0.1985	-9.81	<.0001
dthcaucva	-0.2029	0.1800	-0.5557 0.1498	-1.13	0.2596

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Testing at 4-5 yr

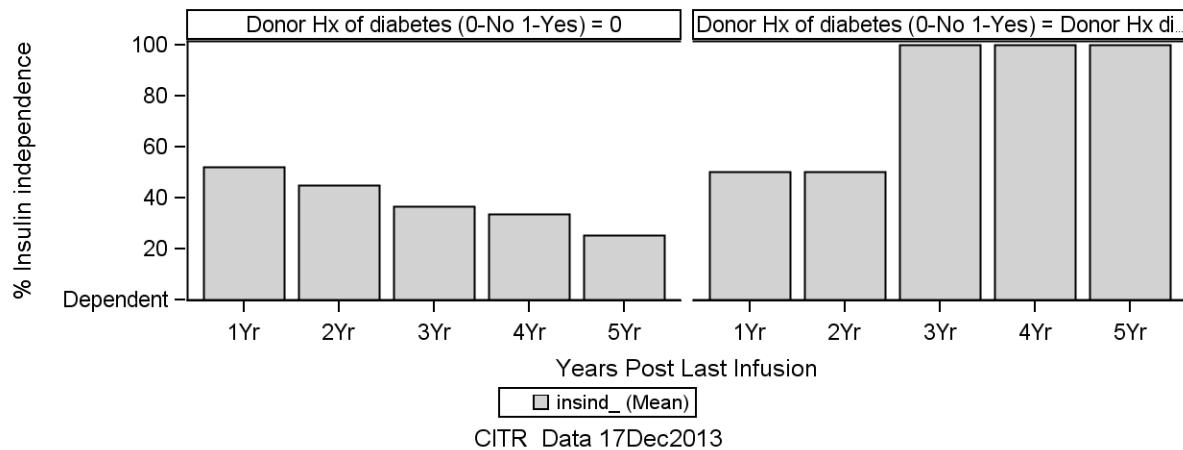
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	-0.3320	0.4689	-1.2510 0.5869	-0.71	0.4788	
yrspli	-0.0463	0.0937	-0.2300 0.1374	-0.49	0.6212	
dthcaucva	0.8996	0.6103	-0.2966 2.0958	1.47	0.1405	
yrspli*dthcaucva	-0.2823	0.1274	-0.5320 -0.0326	-2.22	0.0267	

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.6153	0.3714	-0.1127 1.3433	1.66	0.0976	
yrspli	-0.2655	0.0701	-0.4029 -0.1281	-3.79	0.0002	
dthcaucva	-0.3192	0.2542	-0.8173 0.1789	-1.26	0.2091	

Insulin independence



Years Post Last Infusion					
Donor Hx of diabetes (0-No 1-Yes)					
0			563	488	428
Donor Hx diabetes			368	313	
Total			2	2	1
			1	1	1
			565	490	429
			369	314	

Testing at 1-5 yr

### The GENMOD Procedure

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.3012	0.0926	0.1197	0.4827	3.25	0.0011
<i>yrspli</i>	-0.2526	0.0260	-0.3035	-0.2017	-9.73	<.0001
<i>dhdab_</i>	-0.4315	1.4980	-3.3675	2.5046	-0.29	0.7733
<i>yrspli*dhdab_</i>	0.3588	0.0627	0.2360	0.4817	5.73	<.0001

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***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2988	0.0925	0.1174	0.4802	3.23	0.0012
<i>yrspli</i>	-0.2514	0.0259	-0.3021	-0.2007	-9.71	<.0001
<i>dhdab_</i>	0.3642	1.5681	-2.7093	3.4377	0.23	0.8164

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
			<i>Standard Error</i>	<i>Confidence Limits</i>		
<i>Intercept</i>	0.9591	.	.	.	.	.
<i>yrspli</i>	-0.4090	.	.	.	.	.
<i>dhdab_</i>	19.4062	.	.	.	.	.
<i>yrspli*dhdab_</i>	0.4090	.	.	.	.	.

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***The GENMOD Procedure***

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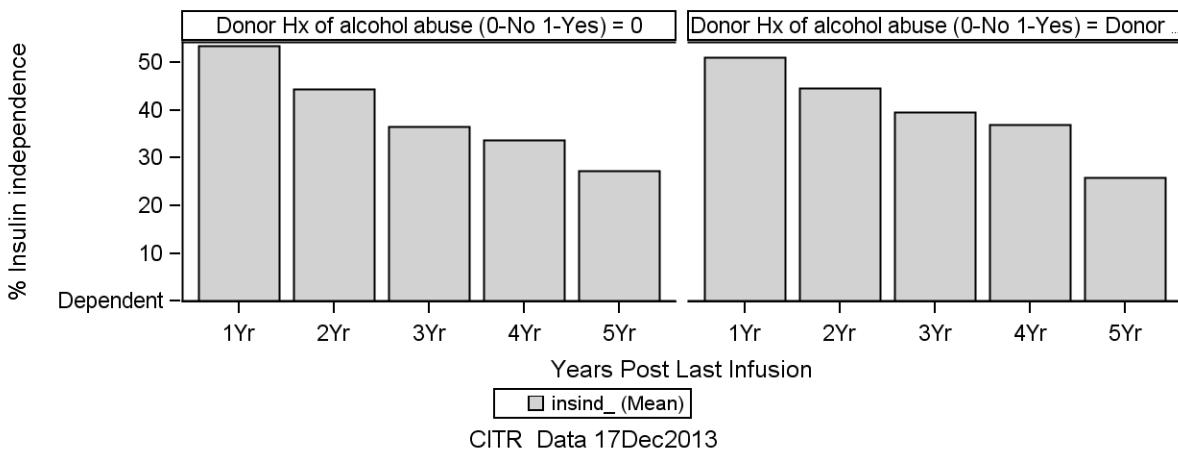
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
			<i>Standard Error</i>	<i>Confidence Limits</i>		
<i>Intercept</i>	0.9591	.	.	.	.	.
<i>yrspli</i>	-0.4090	.	.	.	.	.
<i>dhdab_</i>	23.2574	.	.	.	.	.

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## Insulin independence



		Years Post Last Infusion				
		1	2	3	4	5
Donor Hx of alcohol abuse (0-No 1-Yes)						
0		342	297	266	232	198
Donor hx alcohol		139	128	119	111	97
Total		481	425	385	343	295

Testing at 1-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3288	0.1182	0.0971	0.5605	2.78	0.0054
yrspli	-0.2587	0.0338	-0.3250	-0.1924	-7.65	<.0001
dhexetoh_	-0.0551	0.2179	-0.4822	0.3720	-0.25	0.8002
yrspli*dhexetoh_	-0.0017	0.0599	-0.1190	0.1157	-0.03	0.9778

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3299	0.1123	0.1097	0.5500	2.94	0.0033
yrspli	-0.2593	0.0279	-0.3140	-0.2046	-9.29	<.0001
dhexetoh_	-0.0585	0.1849	-0.4208	0.3038	-0.32	0.7517

CITR Data 17Dec2013

Testing at 4-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.0836	0.3881	-0.6771	0.8442	0.22	0.8295
yrspli	-0.1909	0.0835	-0.3547	-0.0272	-2.29	0.0222
dhxetoh_	1.1799	0.7274	-0.2458	2.6057	1.62	0.1048
yrspli*dhxetoh_	-0.2586	0.1601	-0.5724	0.0551	-1.62	0.1061

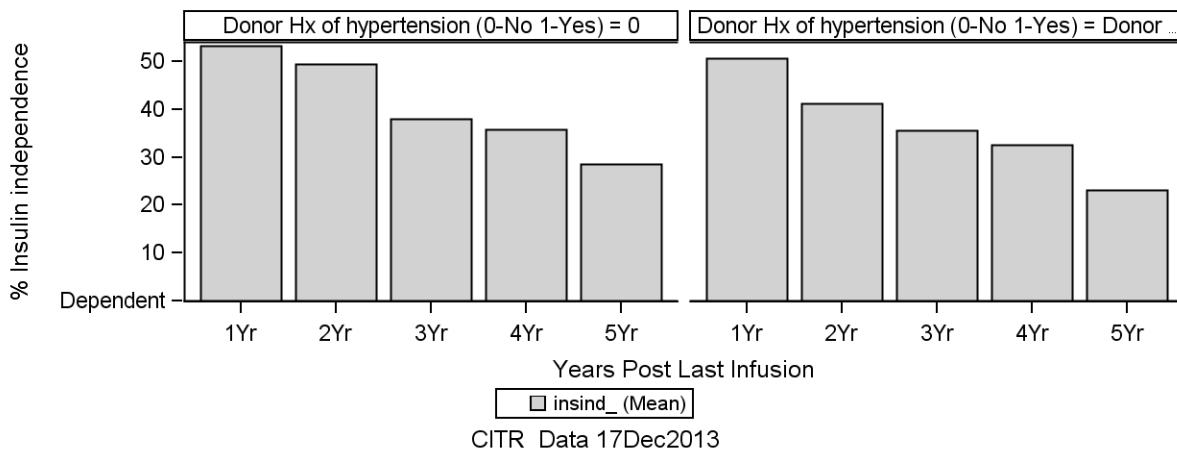
### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.4533	0.3367	-0.2067	1.1133	1.35	0.1783
yrspli	-0.2769	0.0722	-0.4183	-0.1354	-3.84	0.0001
dhxetoh_	0.0651	0.2354	-0.3962	0.5265	0.28	0.7820

Insulin independence



Years Post Last Infusion					
Donor Hx of hypertension (0-No 1-Yes)					
0	263	221	182	154	123
Donor hx hypertentsion	289	258	236	203	178
Total	552	479	418	357	301

Testing at 1-5 yr

**The GENMOD Procedure**

---

Analysis Of GEE Parameter Estimates						
Parameter	Empirical Standard Error Estimates			Z	Pr >  Z	
	Estimate	Standard Error	95% Confidence Limits			
Intercept	0.3312	0.1369	0.0629 0.5995	2.42	0.0156	
yrspli	-0.2083	0.0372	-0.2813 -0.1354	-5.60	<.0001	
dhxhyper_	-0.0831	0.1879	-0.4515 0.2852	-0.44	0.6582	
yrspli*dhxhyper_	-0.0757	0.0530	-0.1795 0.0281	-1.43	0.1527	

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**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates						
Parameter	Empirical Standard Error Estimates			Z	Pr >  Z	
	Estimate	Standard Error	95% Confidence Limits			
Intercept	0.4162	0.1260	0.1693 0.6631	3.30	0.0010	
yrspli	-0.2503	0.0265	-0.3023 -0.1984	-9.44	<.0001	
dhxhyper_	-0.2317	0.1576	-0.5406 0.0772	-1.47	0.1416	

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Testing at 4-5 yr

**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates						
Parameter	Empirical Standard Error Estimates			Z	Pr >  Z	
	Estimate	Standard Error	95% Confidence Limits			
Intercept	0.2736	0.4448	-0.5981 1.1454	0.62	0.5384	
yrspli	-0.2154	0.0956	-0.4028 -0.0279	-2.25	0.0243	
dhxhyper_	0.4538	0.6582	-0.8362 1.7438	0.69	0.4905	
yrspli*dhxhyper_	-0.1491	0.1438	-0.4310 0.1328	-1.04	0.2999	

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**The GENMOD Procedure**

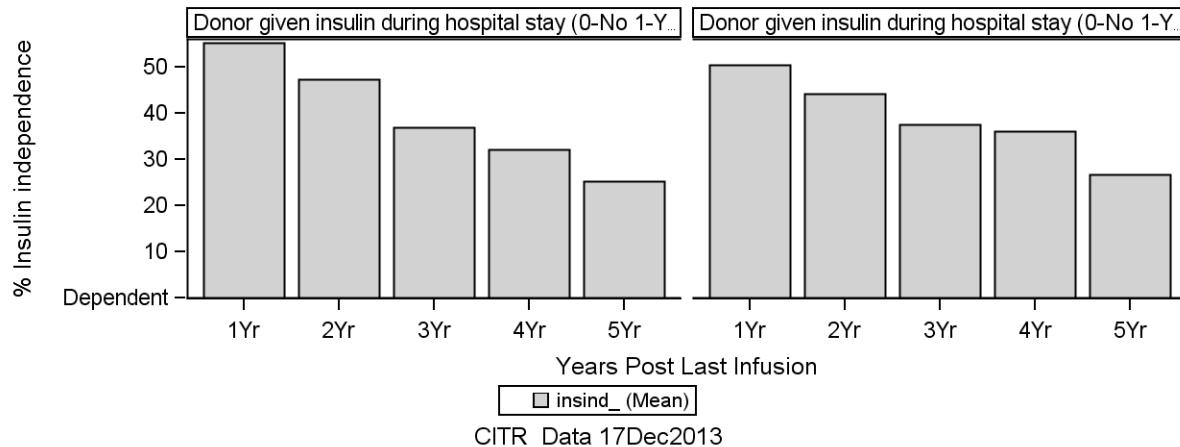
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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.6382	0.3540	-0.0557	1.3321	1.80	0.0714
yrspli	-0.3002	0.0737	-0.4447	-0.1558	-4.07	<.0001
dhxhyper_	-0.1863	0.2208	-0.6191	0.2464	-0.84	0.3987

Insulin independence



Years Post Last Infusion						
	1	2	3	4	5	
Donor given insulin during hospital stay (0-No 1-Yes)						
0				192	169	149
Donor given insulin				331	283	246
Total				523	452	395
				134	115	205
				169		
				339		
				284		

Testing at 1-5 yr

*The GENMOD Procedure*

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.4681	0.1624	0.1499	0.7863	2.88	0.0039
yrspli	-0.3084	0.0496	-0.4056	-0.2113	-6.22	<.0001
dinsulin_	-0.2773	0.2007	-0.6707	0.1161	-1.38	0.1671
yrspli*dinsulin_	0.1081	0.0581	-0.0058	0.2219	1.86	0.0629

*The GENMOD Procedure*

CITR Data 17Dec2013

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3348	0.1420	0.0565	0.6131	2.36	0.0184
yrspli	-0.2425	0.0267	-0.2949	-0.1901	-9.07	<.0001
dinsulin_	-0.0614	0.1665	-0.3877	0.2649	-0.37	0.7123

Testing at 4-5 yr

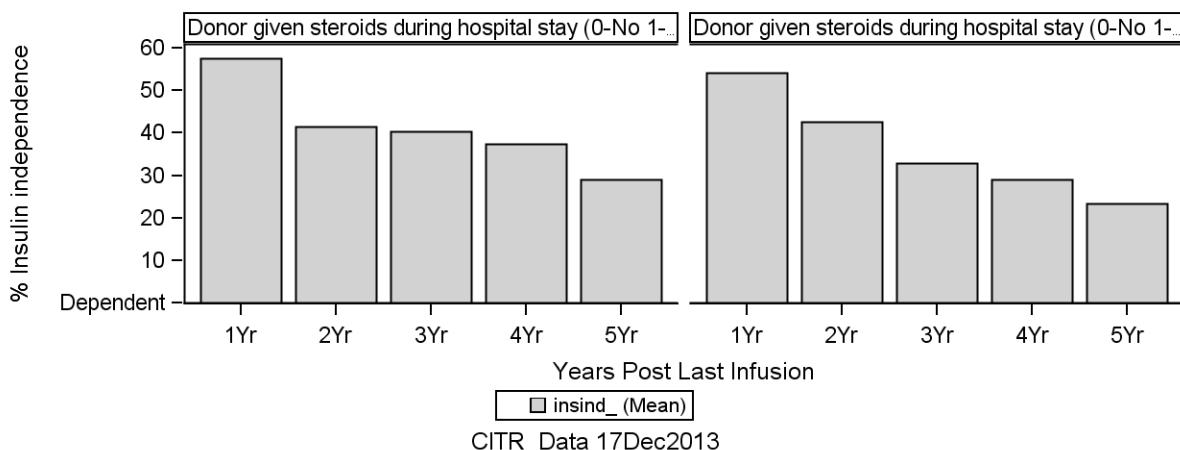
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.0547	0.3963	-0.7220	0.8314	0.14	0.8903
yrspli	-0.2011	0.0822	-0.3622	-0.0400	-2.45	0.0144
dinsulin_	0.6897	0.6321	-0.5492	1.9287	1.09	0.2752
yrspli*dinsulin_	-0.1278	0.1365	-0.3953	0.1397	-0.94	0.3491

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3894	0.3604	-0.3170	1.0957	1.08	0.2799
yrspli	-0.2790	0.0736	-0.4233	-0.1347	-3.79	0.0002
dinsulin_	0.1404	0.2316	-0.3135	0.5944	0.61	0.5443

Insulin independence



	Years Post Last Infusion					
	1	2	3	4	5	
<i>Donor given steroids during hospital stay (0-No 1-Yes)</i>						
0		99	94	87	83	76
<i>Donor given steroid</i>		229	207	192	172	154
<i>Total</i>		328	301	279	255	230

Testing at 1-5 yr

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Standard		95% Confidence		Z	Pr >  Z
	Estimate	Error	Limits			
<i>Intercept</i>	0.4098	0.2086	0.0009	0.8187	1.96	0.0495
<i>yrspli</i>	-0.2618	0.0496	-0.3590	-0.1645	-5.27	<.0001
<i>dsteroid_</i>	-0.0731	0.2539	-0.5707	0.4245	-0.29	0.7735
<i>yrspli*dsteroid_</i>	-0.0255	0.0641	-0.1511	0.1000	-0.40	0.6902

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Standard		95% Confidence		Z	Pr >  Z
	Estimate	Error	Limits			
<i>Intercept</i>	0.4444	0.1971	0.0581	0.8306	2.25	0.0241
<i>yrspli</i>	-0.2785	0.0316	-0.3405	-0.2166	-8.81	<.0001
<i>dsteroid_</i>	-0.1235	0.2232	-0.5609	0.3139	-0.55	0.5801

Testing at 4-5 yr

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Parameter	Standard		95% Confidence		Z	Pr >  Z
	Estimate	Error	Limits			
<i>Intercept</i>	0.7314	0.5940	-0.4328	1.8957	1.23	0.2182
<i>yrspli</i>	-0.3122	0.1276	-0.5623	-0.0621	-2.45	0.0144
<i>dsteroid_</i>	-0.9737	0.7626	-2.4684	0.5210	-1.28	0.2017
<i>yrspli*dsteroid_</i>	0.1497	0.1638	-0.1713	0.4708	0.91	0.3606

### The GENMOD Procedure

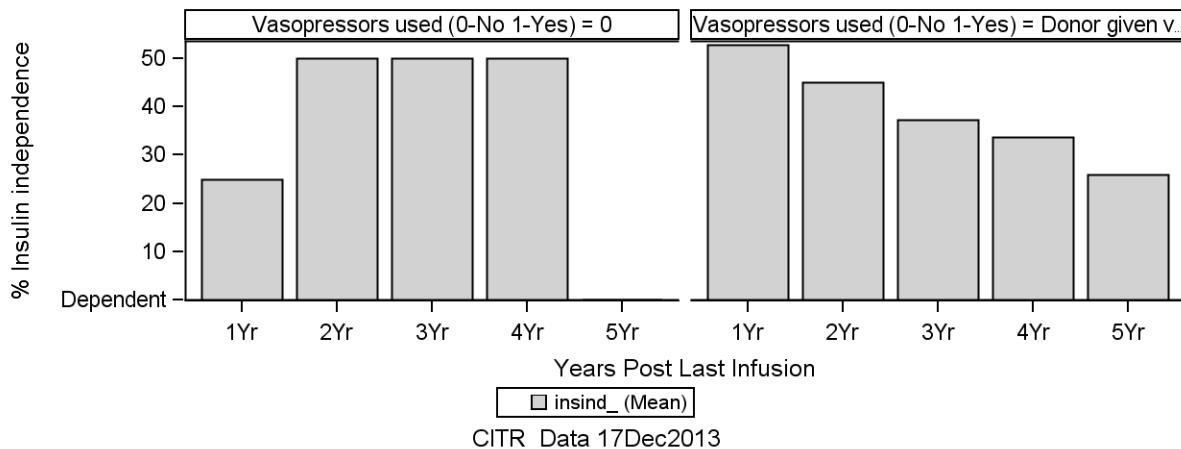
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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3155	0.4195	-0.5067	1.1377	0.75	0.4520
yrspli	-0.2169	0.0806	-0.3748	-0.0589	-2.69	0.0071
dsteroid_	-0.3228	0.2766	-0.8650	0.2193	-1.17	0.2432

Insulin independence



Years Post Last Infusion					
Vasopressors used (0-No 1-Yes)					
0			4	4	4
Donor given vasopressors			445	400	356
Total			498	360	309
			502	449	312

Testing at 1-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.3770	0.8918	-2.1250	1.3710	-0.42	0.6725
yrspli	-0.0141	0.0090	-0.0318	0.0035	-1.57	0.1165
dvasos_	0.7038	0.8972	-1.0546	2.4623	0.78	0.4327
yrspli*dvasos_	-0.2476	0.0285	-0.3034	-0.1917	-8.69	<.0001

***The GENMOD Procedure***

**CITR Data 17Dec2013**

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2365	0.9101	-1.5471	2.0202	0.26	0.7949
<i>yrspli</i>	-0.2592	0.0268	-0.3117	-0.2068	-9.69	<.0001
<i>dvasos_</i>	0.0854	0.9125	-1.7031	1.8738	0.09	0.9255

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>	<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	89.4650	.	.	.	.
<i>yrspli</i>	-22.3663	.	.	.	.
<i>dvasos_</i>	-88.6399	.	.	.	.
<i>yrspli*dvasos_</i>	21.9909	.	.	.	.

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***The GENMOD Procedure***

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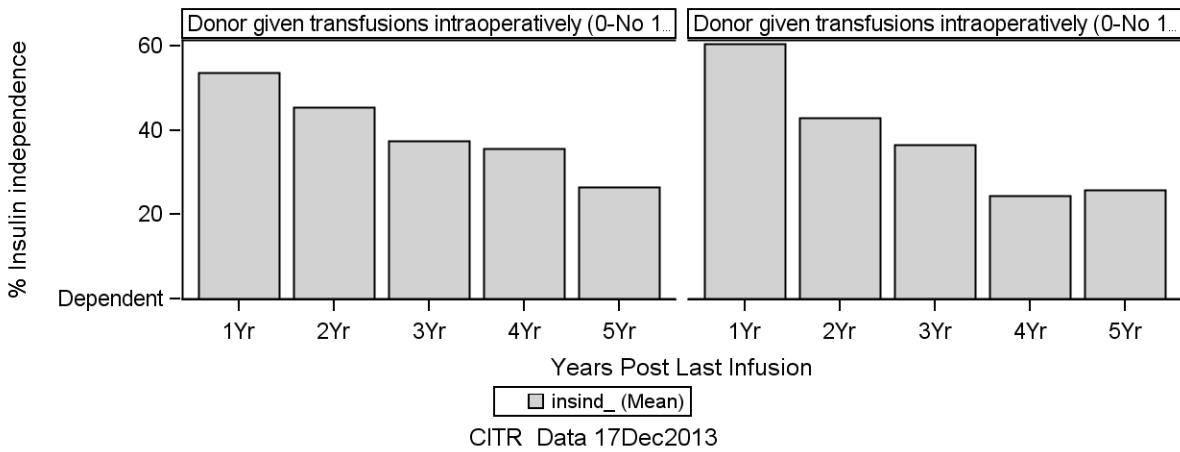
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.6976	0.9299	-1.1249	2.5201	0.75	0.4531
<i>yrspli</i>	-0.2759	0.0727	-0.4185	-0.1334	-3.79	0.0001
<i>dvasos_</i>	-0.2686	0.8625	-1.9590	1.4219	-0.31	0.7555

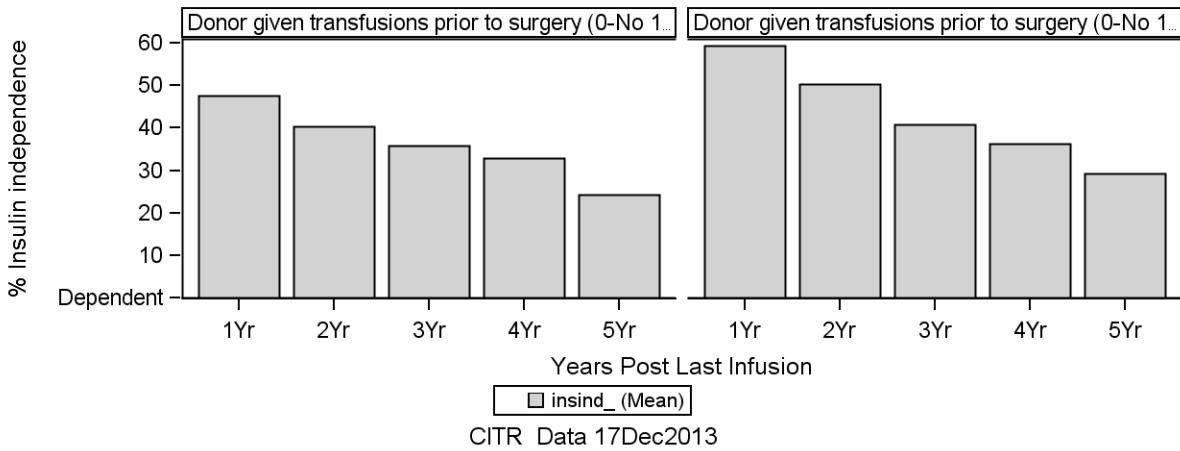
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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Donor given transfusions intraoperatively (0-No 1-Yes)</i>					
0		347	319	294	267
Donor intra-hospital transfusion		43	42	41	37
Total	390	361	335	304	274

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Donor given transfusions prior to surgery (0-No 1-Yes)</i>					
0		227	191	168	149
Donor prior transfusion		224	211	199	182
Total	451	402	367	331	290

Testing at 1-5 yr

### The GENMOD Procedure

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.1197	0.1416	-0.1579	0.3973	0.85	0.3979
<i>yrspli</i>	-0.2342	0.0416	-0.3157	-0.1527	-5.63	<.0001
<i>dpriortran_</i>	0.4451	0.2053	0.0427	0.8476	2.17	0.0302
<i>yrspli*dpriortran_</i>	-0.0360	0.0562	-0.1460	0.0741	-0.64	0.5217

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***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.1566	0.1307	-0.0997	0.4129	1.20	0.2310
<i>yrspli</i>	-0.2543	0.0281	-0.3093	-0.1993	-9.06	<.0001
<i>dpriortran_</i>	0.3712	0.1721	0.0339	0.7085	2.16	0.0310

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.6926	0.5374	-0.3607	1.7459	1.29	0.1975
<i>yrspli</i>	-0.3515	0.1186	-0.5840	-0.1190	-2.96	0.0030
<i>dpriortran_</i>	-0.4578	0.6781	-1.7869	0.8713	-0.68	0.4996
<i>yrspli*dpriortran_</i>	0.1518	0.1478	-0.1379	0.4416	1.03	0.3045

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***The GENMOD Procedure***

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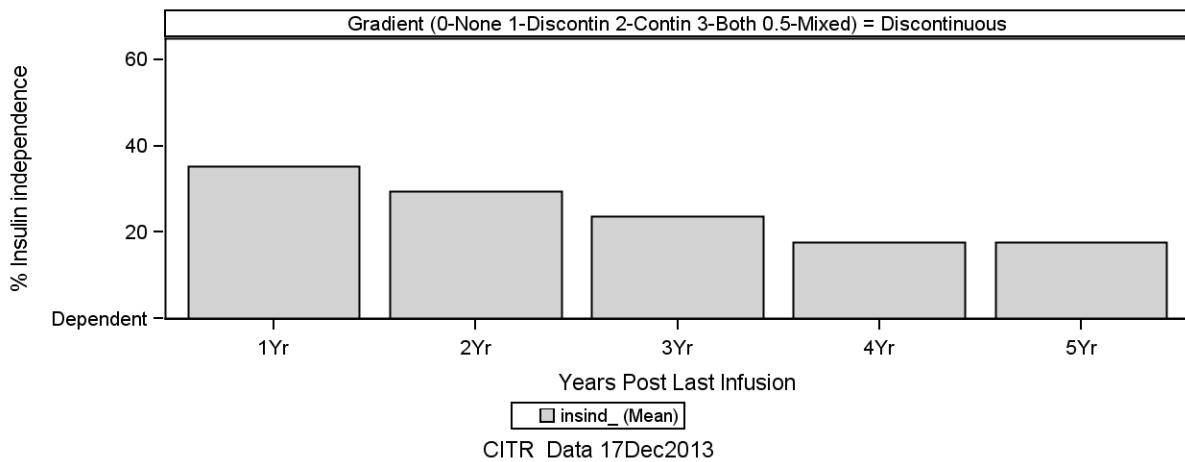
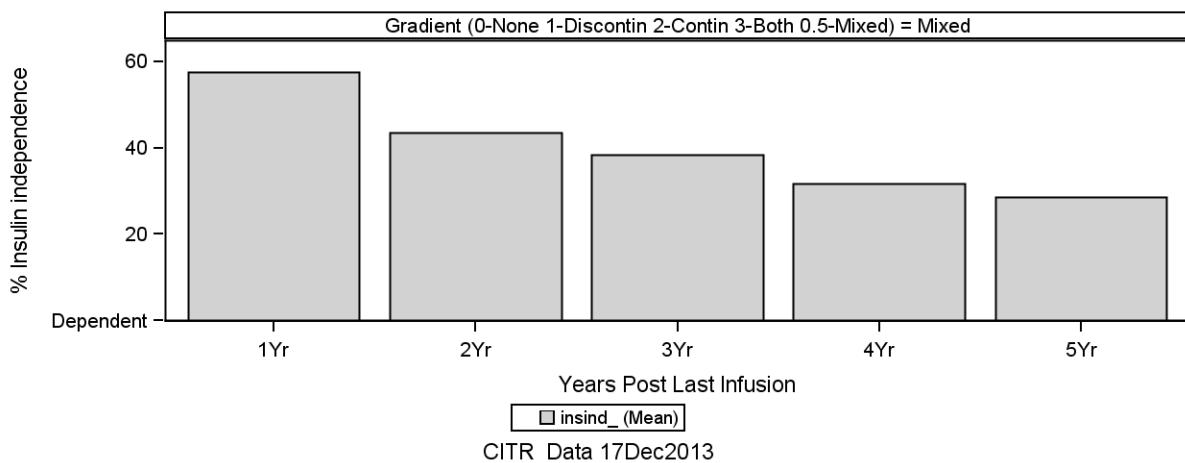
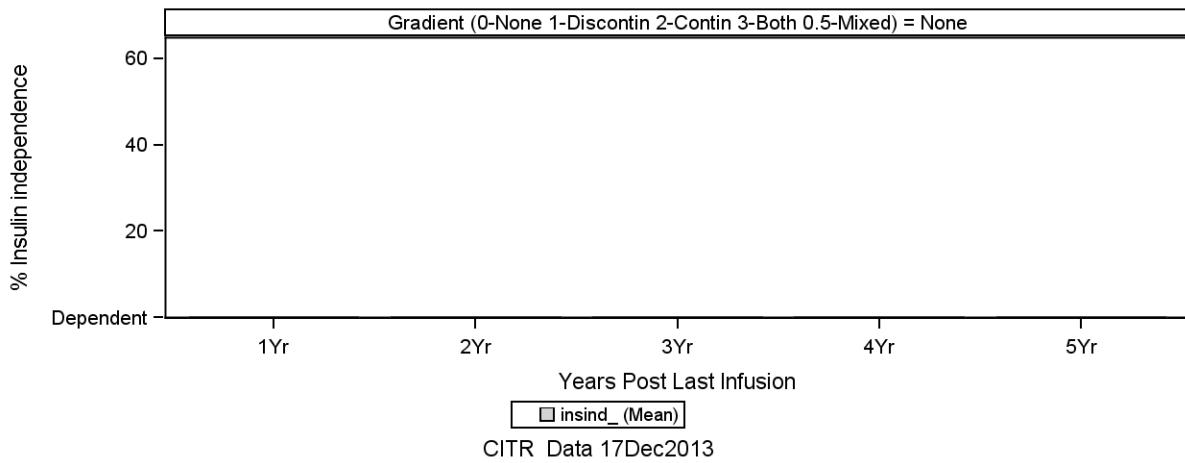
*Analysis Of GEE Parameter Estimates*

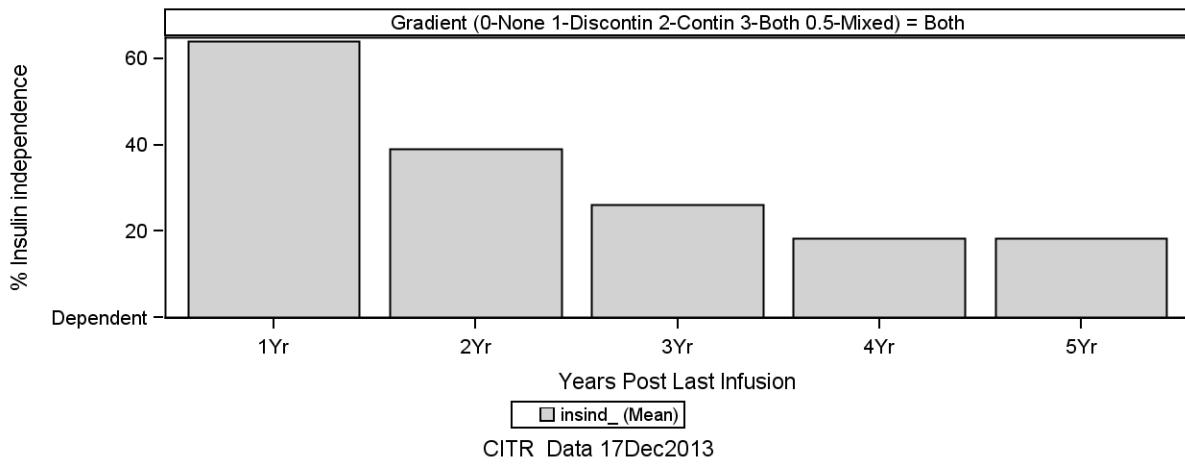
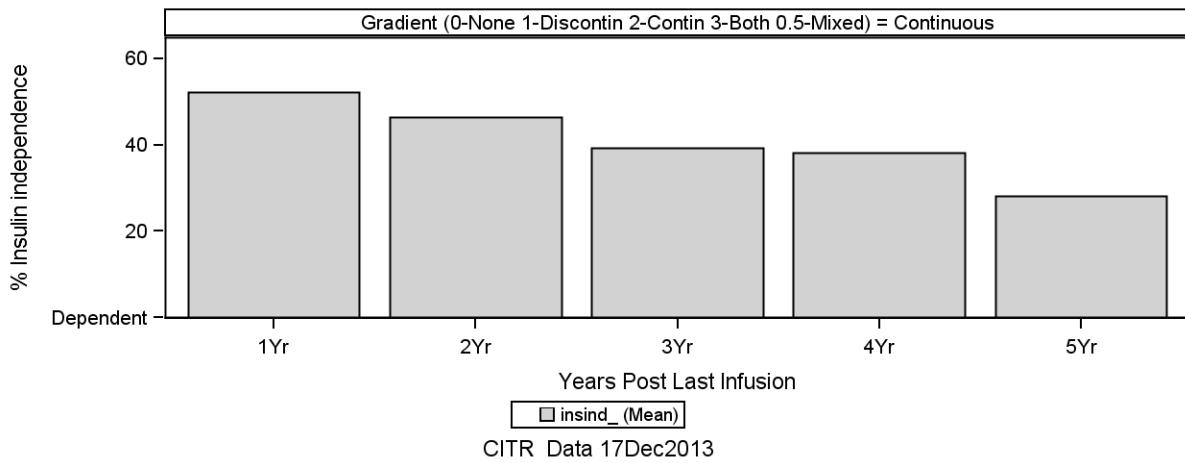
*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.3242	0.3578	-0.3771	1.0254	0.91	0.3649
<i>yrspli</i>	-0.2659	0.0717	-0.4063	-0.1254	-3.71	0.0002
<i>dpriortran_</i>	0.1969	0.2277	-0.2493	0.6431	0.86	0.3871

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Insulin independence





	Years Post Last Infusion				
	1	2	3	4	5
<i>Gradient (0-None 1-Discontin 2-Contin 3-Both 0.5-Mixed)</i>					
None	1	1	1	1	1
Mixed	47	46	39	38	35
Discontinuous	17	17	17	17	17
Continuous	396	342	310	273	228
Both	25	23	23	22	22
Total	486	429	390	351	303

Testing at 1-5 yr

#### ***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.0164	0.3579	-0.6851	0.7178	0.05	0.9636
<i>yrspli</i>	-0.1670	0.0878	-0.3390	0.0051	-1.90	0.0571
<i>gradtype_</i>	0.1608	0.1837	-0.1992	0.5207	0.88	0.3814
<i>yrspli*gradtype_</i>	-0.0485	0.0466	-0.1398	0.0429	-1.04	0.2982

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***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2184	0.3007	-0.3710	0.8077	0.73	0.4678
<i>yrspli</i>	-0.2565	0.0274	-0.3102	-0.2029	-9.37	<.0001
<i>gradtype_</i>	0.0515	0.1503	-0.2431	0.3462	0.34	0.7317

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-0.0604	0.9484	-1.9192	1.7983	-0.06	0.9492
<i>yrspli</i>	-0.1712	0.2045	-0.5720	0.2296	-0.84	0.4024
<i>gradtype_</i>	0.3203	0.4701	-0.6010	1.2417	0.68	0.4956
<i>yrspli*gradtype_</i>	-0.0628	0.1011	-0.2609	0.1354	-0.62	0.5347

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***The GENMOD Procedure***

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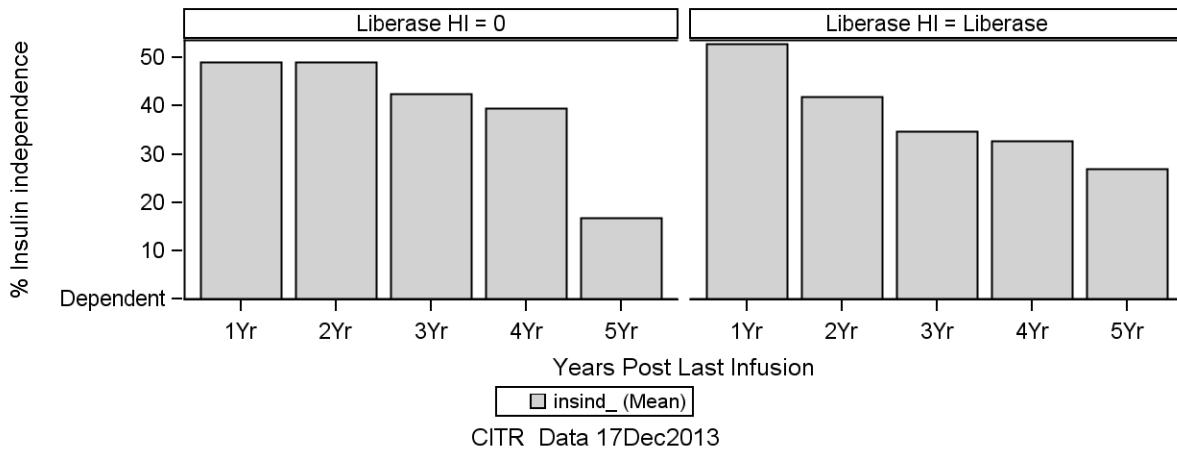
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.4357	0.4644	-0.4745	1.3460	0.94	0.3481
<i>yrspli</i>	-0.2869	0.0715	-0.4271	-0.1468	-4.01	<.0001
<i>gradtype_</i>	0.0512	0.1802	-0.3020	0.4044	0.28	0.7763

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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Liberase HI</i>					
0	151	116	94	66	36
Liberase	350	327	308	297	279
Total	501	443	402	363	315

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.1854	0.1831	-0.1735 0.5442	1.01	0.3113
yrspli	-0.1521	0.0508	-0.2517 -0.0524	-2.99	0.0028
liberase_	0.0871	0.2154	-0.3351 0.5093	0.40	0.6859
yrspli*liberase_	-0.1251	0.0598	-0.2423 -0.0079	-2.09	0.0364

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.3841	0.1615	0.0676 0.7007	2.38	0.0174
yrspli	-0.2547	0.0271	-0.3078 -0.2016	-9.41	<.0001
liberase_	-0.1547	0.1814	-0.5101 0.2008	-0.85	0.3938

Testing at 4-5 yr

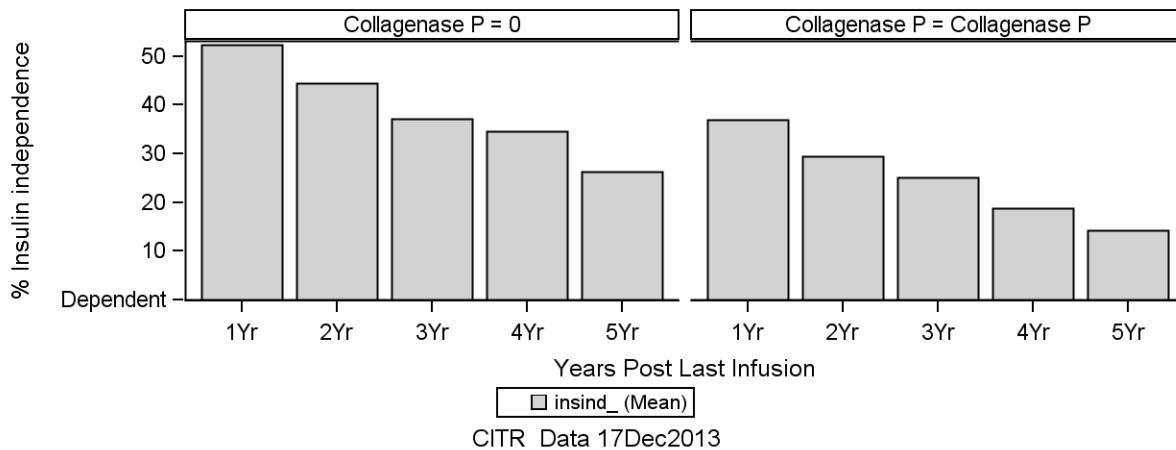
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	2.6960	1.1670	0.4087	4.9833	2.31	0.0209
yrspli	-0.7817	0.2713	-1.3134	-0.2500	-2.88	0.0040
liberase_	-2.5454	1.2134	-4.9236	-0.1673	-2.10	0.0359
yrspli*liberase_	0.5632	0.2804	0.0135	1.1128	2.01	0.0446

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.6016	0.3966	-0.1757	1.3790	1.52	0.1293
yrspli	-0.2808	0.0704	-0.4188	-0.1429	-3.99	<.0001
liberase_	-0.1818	0.2719	-0.7148	0.3511	-0.67	0.5037

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Collagenase P</i>					
0	482	426	386	347	301
Collagenase P	19	17	16	16	14
Total	501	443	402	363	315

Testing at 1-5 yr

### The GENMOD Procedure

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2987	0.0988	0.1049	0.4924	3.02	0.0025
<i>yrspli</i>	-0.2562	0.0275	-0.3101	-0.2023	-9.31	<.0001
<i>collagenasep_</i>	-0.6593	0.5249	-1.6882	0.3696	-1.26	0.2091
<i>yrspli*collagenasep_</i>	-0.0023	0.1445	-0.2854	0.2808	-0.02	0.9872

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***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2988	0.0983	0.1061	0.4915	3.04	0.0024
<i>yrspli</i>	-0.2562	0.0270	-0.3092	-0.2033	-9.49	<.0001
<i>collagenasep_</i>	-0.6625	0.4779	-1.5992	0.2742	-1.39	0.1657

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.5264	0.3326	-0.1254	1.1783	1.58	0.1134
<i>yrspli</i>	-0.2910	0.0725	-0.4331	-0.1488	-4.01	<.0001
<i>collagenasep_</i>	-1.7550	0.7775	-3.2788	-0.2311	-2.26	0.0240
<i>yrspli*collagenasep_</i>	0.2315	0.1002	0.0351	0.4279	2.31	0.0209

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***The GENMOD Procedure***

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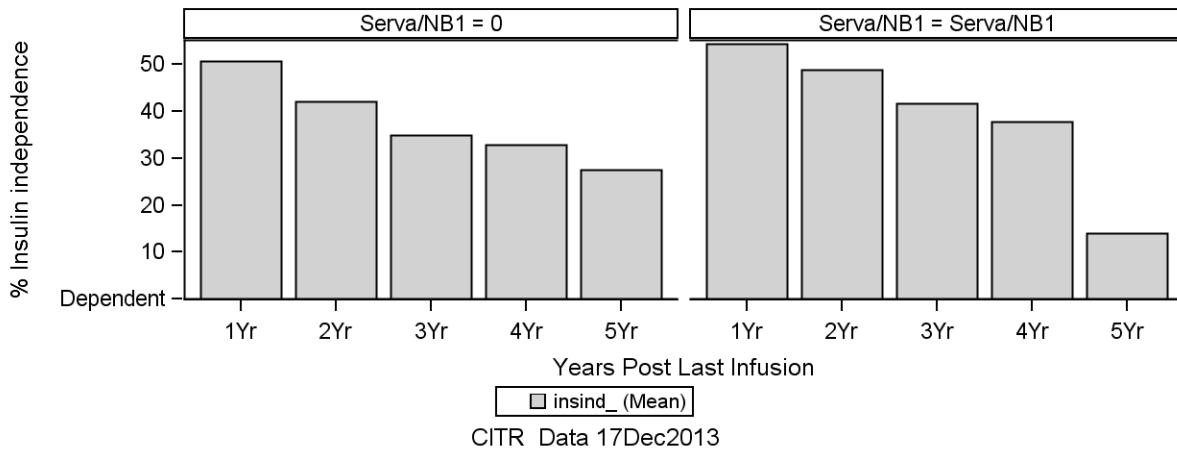
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.4982	0.3245	-0.1378	1.1343	1.54	0.1247
<i>yrspli</i>	-0.2844	0.0704	-0.4225	-0.1464	-4.04	<.0001
<i>collagenasep_</i>	-0.7779	0.6502	-2.0523	0.4964	-1.20	0.2315

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Insulin independence



Years Post Last Infusion						
	1	2	3	4	5	
Serva/NB1	0	352	324	301	286	272
Serva/NB1	149	119	101	77	43	
Total	501	443	402	363	315	

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.1972	0.1125	-0.0232 0.4176	1.75	0.0796
yrspli	-0.2614	0.0313	-0.3228 -0.2000	-8.34	<.0001
servanb1_	0.2336	0.2238	-0.2051 0.6723	1.04	0.2966
yrspli*servanb1_	0.0337	0.0642	-0.0921 0.1595	0.53	0.5995

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.1846	0.1093	-0.0296 0.3989	1.69	0.0911
yrspli	-0.2546	0.0273	-0.3081 -0.2011	-9.32	<.0001
servanb1_	0.3021	0.1802	-0.0512 0.6553	1.68	0.0937

Testing at 4-5 yr

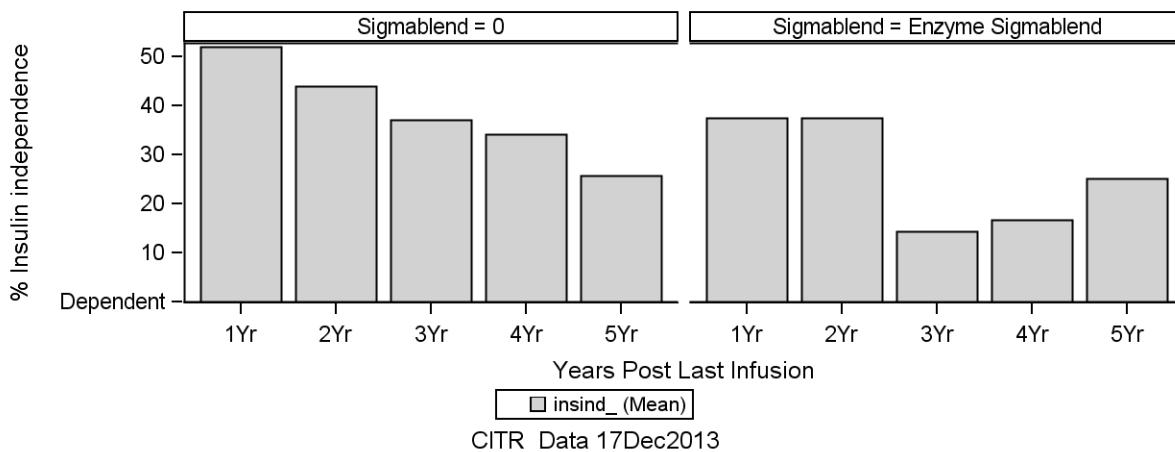
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.0961	0.3311	-0.5528 0.7449	0.29	0.7717	
yrspli	-0.2026	0.0705	-0.3407 -0.0644	-2.87	0.0040	
servanb1_	2.7674	1.1594	0.4951 5.0397	2.39	0.0170	
yrspli*servanb1_	-0.6393	0.2681	-1.1648 -0.1138	-2.38	0.0171	

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.4393	0.3236	-0.1950 1.0736	1.36	0.1746	
yrspli	-0.2818	0.0701	-0.4192 -0.1444	-4.02	<.0001	
servanb1_	0.0873	0.2583	-0.4191 0.5936	0.34	0.7356	

Insulin independence



Sigmablend	Years Post Last Infusion				
	1	2	3	4	5
0	493	435	395	357	311
Enzyme Sigmablend	8	8	7	6	4
Total	501	443	402	363	315

Testing at 1-5 yr

### The GENMOD Procedure

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2849	0.0977	0.0933	0.4765	2.92	0.0036
<i>yrspli</i>	-0.2572	0.0273	-0.3106	-0.2038	-9.43	<.0001
<i>sigma_</i>	-0.7500	0.7421	-2.2046	0.7046	-1.01	0.3122
<i>yrspli*sigma_</i>	0.1321	0.0672	0.0003	0.2638	1.97	0.0494

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***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2819	0.0974	0.0909	0.4729	2.89	0.0038
<i>yrspli</i>	-0.2557	0.0269	-0.3084	-0.2029	-9.50	<.0001
<i>sigma_</i>	-0.5660	0.7100	-1.9576	0.8256	-0.80	0.4254

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.5445	0.3173	-0.0774	1.1664	1.72	0.0861
<i>yrspli</i>	-0.3000	0.0691	-0.4354	-0.1646	-4.34	<.0001
<i>sigma_</i>	-7.4777	4.5086	-16.3144	1.3590	-1.66	0.0972
<i>yrspli*sigma_</i>	1.6310	0.9812	-0.2921	3.5540	1.66	0.0965

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***The GENMOD Procedure***

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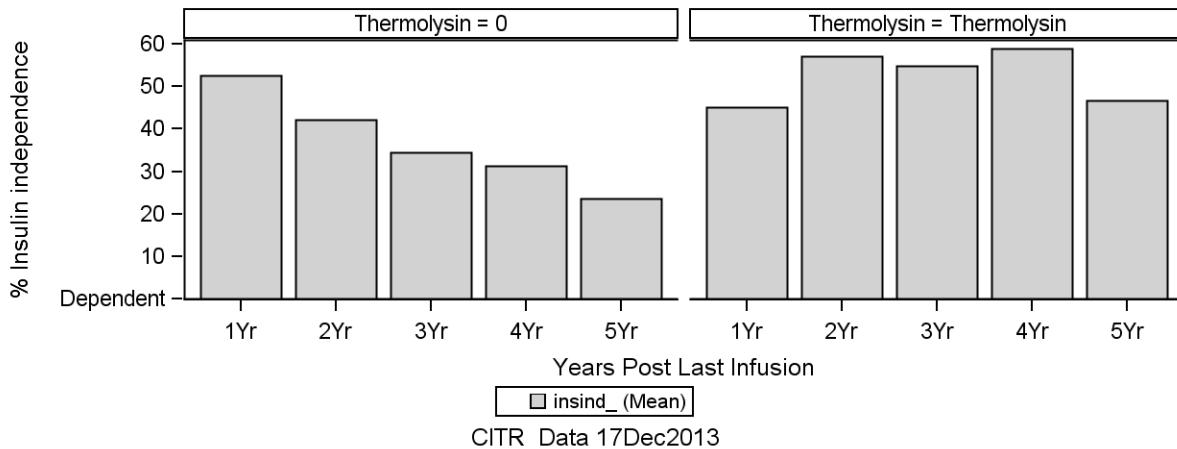
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.4774	0.3227	-0.1551	1.1099	1.48	0.1391
<i>yrspli</i>	-0.2845	0.0702	-0.4220	-0.1469	-4.05	<.0001
<i>sigma_</i>	-0.6008	0.8658	-2.2978	1.0962	-0.69	0.4877

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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Thermolysin</i>					
0	439	394	360	329	285
Thermolysin	62	49	42	34	30
Total	501	443	402	363	315

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.3062	0.1042	0.1019 0.5105	2.94	0.0033
yrspli	-0.2833	0.0292	-0.3406 -0.2260	-9.69	<.0001
themolysin_	-0.2960	0.2825	-0.8496 0.2576	-1.05	0.2947
yrspli*themolysin_	0.2397	0.0724	0.0977 0.3817	3.31	0.0009

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2531	0.1028	0.0516 0.4546	2.46	0.0138
yrspli	-0.2558	0.0269	-0.3085 -0.2031	-9.52	<.0001
themolysin_	0.2118	0.2559	-0.2897 0.7134	0.83	0.4078

Testing at 4-5 yr

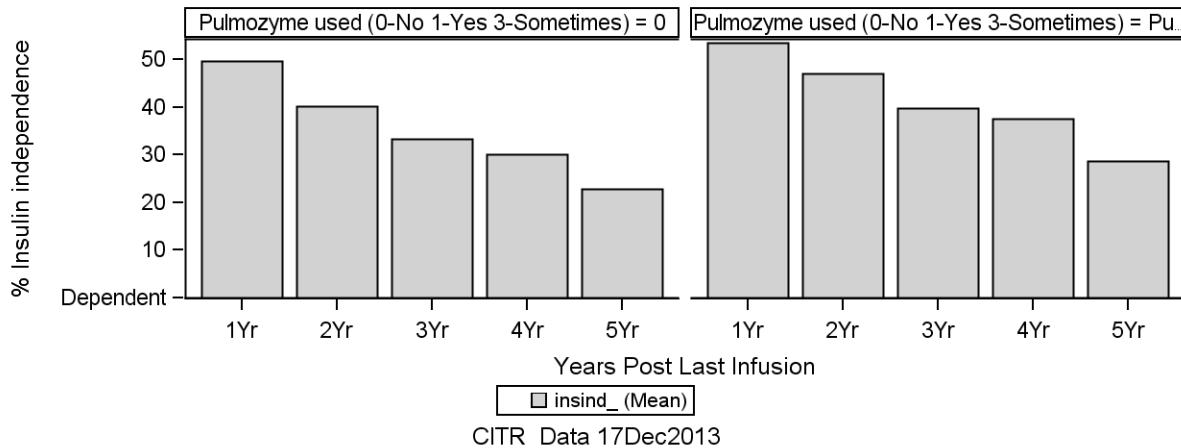
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3149	0.3475	-0.3661	0.9960	0.91	0.3647
yrspli	-0.2752	0.0759	-0.4240	-0.1264	-3.63	0.0003
themolysin_	1.7180	1.1048	-0.4474	3.8834	1.55	0.1199
yrspli*themolysin_	-0.1439	0.2339	-0.6022	0.3145	-0.62	0.5384

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3886	0.3307	-0.2596	1.0369	1.18	0.2400
yrspli	-0.2924	0.0721	-0.4337	-0.1511	-4.06	<.0001
themolysin_	1.0774	0.3494	0.3927	1.7622	3.08	0.0020

Insulin independence



Years Post Last Infusion					
	1	2	3	4	5
Pulmozyme used (0-No 1-Yes 3-Sometimes)					
0	222	209	193	176	158
Pulmozyme	279	234	209	187	157
Total	501	443	402	363	315

Testing at 1-5 yr

### The GENMOD Procedure

CITR Data 17Dec2013

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.1948	0.1469	-0.0931 0.4828	1.33	0.1848	
yrspli	-0.2722	0.0409	-0.3524 -0.1920	-6.65	<.0001	
pulmozyme_	0.1418	0.1956	-0.2416 0.5251	0.72	0.4685	
yrspli*pulmozyme_	0.0308	0.0544	-0.0758 0.1374	0.57	0.5710	

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.1637	0.1343	-0.0996 0.4270	1.22	0.2230	
yrspli	-0.2558	0.0270	-0.3086 -0.2029	-9.48	<.0001	
pulmozyme_	0.2018	0.1648	-0.1213 0.5249	1.22	0.2208	

Testing at 4-5 yr

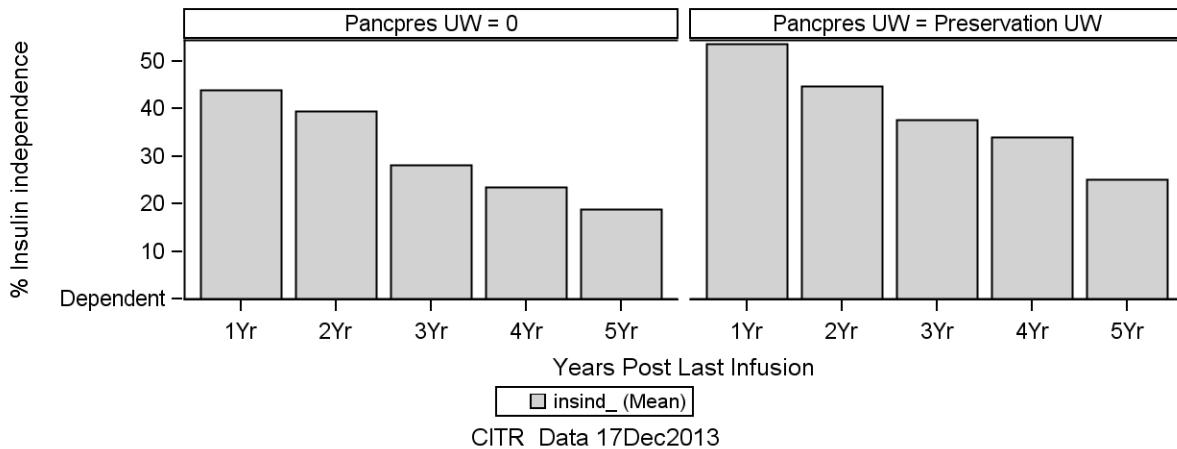
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.3958	0.5160	-0.6156 1.4072	0.77	0.4431	
yrspli	-0.3094	0.1138	-0.5325 -0.0864	-2.72	0.0066	
pulmozyme_	0.1357	0.6573	-1.1526 1.4240	0.21	0.8365	
yrspli*pulmozyme_	0.0481	0.1436	-0.2332 0.3295	0.34	0.7374	

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.2863	0.3461	-0.3919 0.9646	0.83	0.4080	
yrspli	-0.2839	0.0706	-0.4223 -0.1455	-4.02	<.0001	
pulmozyme_	0.3427	0.2185	-0.0855 0.7709	1.57	0.1167	

Insulin independence



Years Post Last Infusion						
	1	2	3	4	5	
<i>Pancpres UW</i>						
0		358	287	224	183	149
Preservation UW	353	321	298	271	236	
Total	711	608	522	454	385	

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.0374	0.1237	-0.2051 0.2799	0.30	0.7624
yrspli	-0.2861	0.0412	-0.3669 -0.2053	-6.94	<.0001
pancpres_uw	0.3050	0.1694	-0.0270 0.6369	1.80	0.0718
yrspli*pancpres_uw	0.0267	0.0517	-0.0747 0.1281	0.52	0.6059

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.0111	0.1108	-0.2061 0.2283	0.10	0.9200
yrspli	-0.2694	0.0248	-0.3180 -0.2207	-10.85	<.0001
pancpres_uw	0.3516	0.1404	0.0764 0.6268	2.50	0.0123

Testing at 4-5 yr

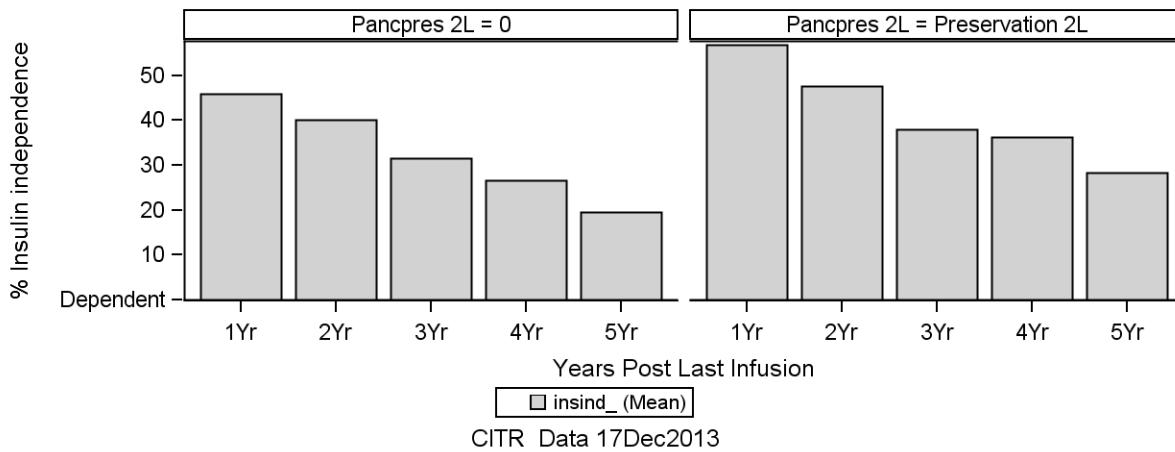
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.5812	0.4136	-1.3918	0.2294	-1.41	0.1599
yrspli	-0.1512	0.0879	-0.3234	0.0211	-1.72	0.0854
pancpres_uw	1.0984	0.5685	-0.0159	2.2126	1.93	0.0534
yrspli*pancpres_uw	-0.1445	0.1224	-0.3844	0.0954	-1.18	0.2377

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.1716	0.3165	-0.7919	0.4488	-0.54	0.5878
yrspli	-0.2475	0.0642	-0.3733	-0.1218	-3.86	0.0001
pancpres_uw	0.4810	0.2134	0.0627	0.8992	2.25	0.0242

Insulin independence



Years Post Last Infusion					
	1	2	3	4	5
<i>Pancpres 2L</i>					
0	535	440	364	308	247
Preservation 2L	176	168	158	146	138
Total	711	608	522	454	385

Testing at 1-5 yr

### The GENMOD Procedure

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*  
*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.0776	0.0986	-0.1157	0.2709	0.79	0.4316
<i>yrspli</i>	-0.2576	0.0309	-0.3182	-0.1970	-8.33	<.0001
<i>pancpres_2I</i>	0.4128	0.1906	0.0392	0.7863	2.17	0.0303
<i>yrspli*pancpres_2I</i>	-0.0337	0.0520	-0.1356	0.0682	-0.65	0.5167

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**The GENMOD Procedure**

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*Analysis Of GEE Parameter Estimates*  
*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.0977	0.0927	-0.0840	0.2793	1.05	0.2919
<i>yrspli</i>	-0.2697	0.0249	-0.3185	-0.2208	-10.82	<.0001
<i>pancpres_2I</i>	0.3453	0.1596	0.0326	0.6581	2.16	0.0304

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Testing at 4-5 yr

**The GENMOD Procedure**

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*Analysis Of GEE Parameter Estimates*  
*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	-0.2595	0.3494	-0.9444	0.4254	-0.74	0.4577
<i>yrspli</i>	-0.1894	0.0755	-0.3373	-0.0415	-2.51	0.0121
<i>pancpres_2I</i>	1.0556	0.6194	-0.1584	2.2695	1.70	0.0883
<i>yrspli*pancpres_2I</i>	-0.1502	0.1346	-0.4141	0.1137	-1.12	0.2646

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**The GENMOD Procedure**

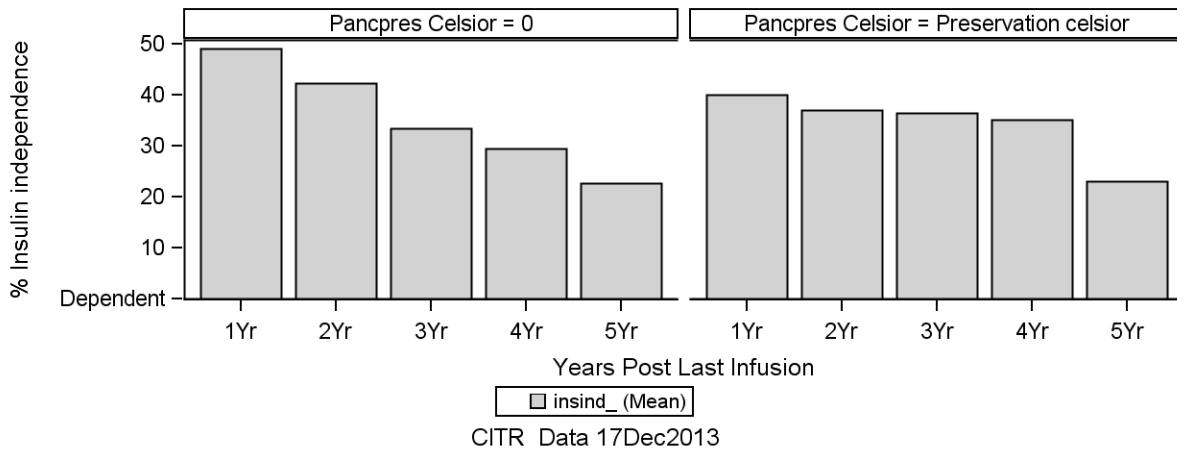
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*Analysis Of GEE Parameter Estimates*  
*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.0026	0.2990	-0.5834	0.5885	0.01	0.9931
<i>yrspli</i>	-0.2509	0.0639	-0.3762	-0.1256	-3.93	<.0001
<i>pancpres_2I</i>	0.4067	0.2104	-0.0058	0.8191	1.93	0.0533

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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Pancpres Celsior</i>					
0		676	581	500	434
Preservation celsior	35	27	22	20	13
Total	711	608	522	454	385

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2093	0.0862	0.0403 0.3783	2.43	0.0152
yrspli	-0.2755	0.0260	-0.3264 -0.2246	-10.61	<.0001
pancpres_cels	-0.5850	0.3586	-1.2879 0.1179	-1.63	0.1028
yrspli*pancpres_cels	0.2160	0.0580	0.1023 0.3298	3.72	0.0002

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.1942	0.0856	0.0264 0.3619	2.27	0.0233
yrspli	-0.2670	0.0250	-0.3160 -0.2179	-10.67	<.0001
pancpres_cels	-0.2479	0.3543	-0.9423 0.4465	-0.70	0.4841

Testing at 4-5 yr

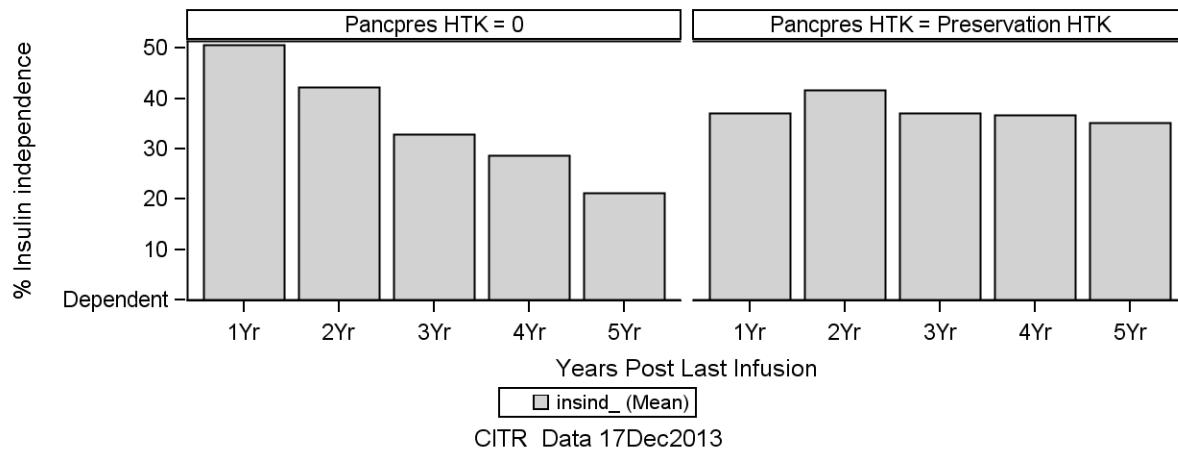
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1230	0.3032	-0.4711	0.7172	0.41	0.6849
yrspli	-0.2492	0.0662	-0.3790	-0.1195	-3.77	0.0002
pancpres_cels	-0.3252	0.6443	-1.5880	0.9375	-0.50	0.6137
yrspli*pancpres_cels	0.1450	0.0986	-0.0483	0.3383	1.47	0.1414

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1007	0.2934	-0.4744	0.6758	0.34	0.7314
yrspli	-0.2441	0.0637	-0.3689	-0.1192	-3.83	0.0001
pancpres_cels	0.2901	0.4785	-0.6478	1.2279	0.61	0.5444

Insulin independence



Years Post Last Infusion					
	1	2	3	4	5
<i>Pancpres HTK</i>					
0	606	524	452	394	348
Preservation HTK	105	84	70	60	37
Total	711	608	522	454	385

Testing at 1-5 yr

### The GENMOD Procedure

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2718	0.0914	0.0927	0.4509	2.97	0.0029
<i>yrspli</i>	-0.2960	0.0272	-0.3492	-0.2427	-10.89	<.0001
<i>pancpres_htk</i>	-0.6648	0.2309	-1.1173	-0.2124	-2.88	0.0040
<i>yrspli*pancpres_htk</i>	0.2309	0.0659	0.1017	0.3600	3.50	0.0005

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***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2197	0.0902	0.0430	0.3964	2.44	0.0148
<i>yrspli</i>	-0.2668	0.0251	-0.3160	-0.2177	-10.64	<.0001
<i>pancpres_htk</i>	-0.2908	0.2013	-0.6853	0.1038	-1.44	0.1486

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.1843	0.3175	-0.4379	0.8064	0.58	0.5616
<i>yrspli</i>	-0.2744	0.0693	-0.4104	-0.1385	-3.96	<.0001
<i>pancpres_htk</i>	-0.6822	0.8179	-2.2852	0.9208	-0.83	0.4042
<i>yrspli*pancpres_htk</i>	0.2623	0.1779	-0.0863	0.6109	1.47	0.1403

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***The GENMOD Procedure***

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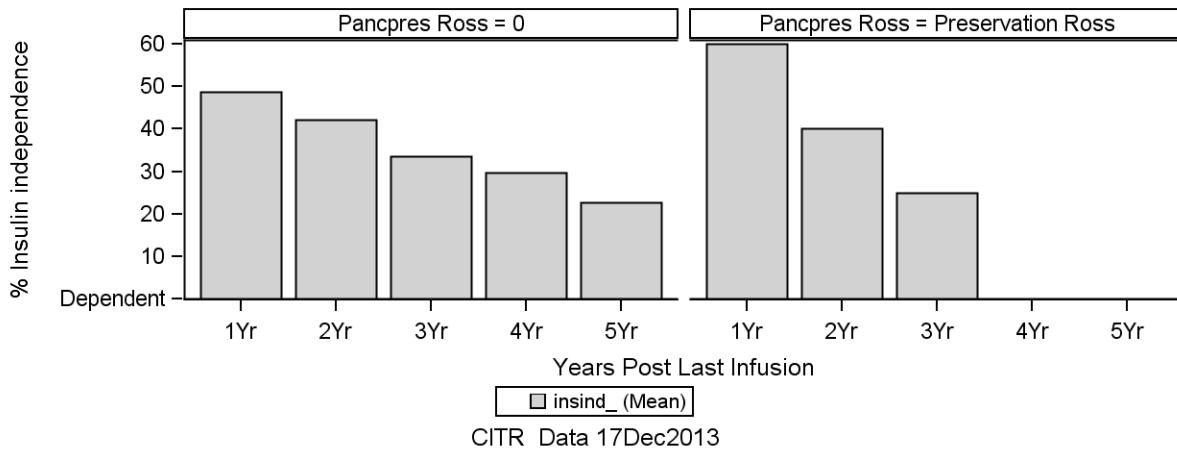
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.0512	0.2992	-0.5352	0.6377	0.17	0.8640
<i>yrspli</i>	-0.2435	0.0642	-0.3693	-0.1176	-3.79	0.0001
<i>pancpres_htk</i>	0.4361	0.2855	-0.1235	0.9957	1.53	0.1267

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Insulin independence



		Years Post Last Infusion				
		1	2	3	4	5
Pancpres Ross						
0		706	603	518	454	385
Preservation Ross		5	5	4	.	.
Total		711	608	522	454	385

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.1814	0.0842	0.0164 0.3463	2.15	0.0312
yrspli	-0.2661	0.0250	-0.3152 -0.2171	-10.63	<.0001
pancpres_ros	0.6597	1.0836	-1.4641 2.7835	0.61	0.5427
yrspli*pancpres_ros	-0.2753	0.4463	-1.1500 0.5994	-0.62	0.5373

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### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.1824	0.0841	0.0175 0.3473	2.17	0.0301
yrspli	-0.2667	0.0250	-0.3157 -0.2177	-10.67	<.0001
pancpres_ros	0.1706	0.8074	-1.4119 1.7531	0.21	0.8326

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Testing at 4-5 yr

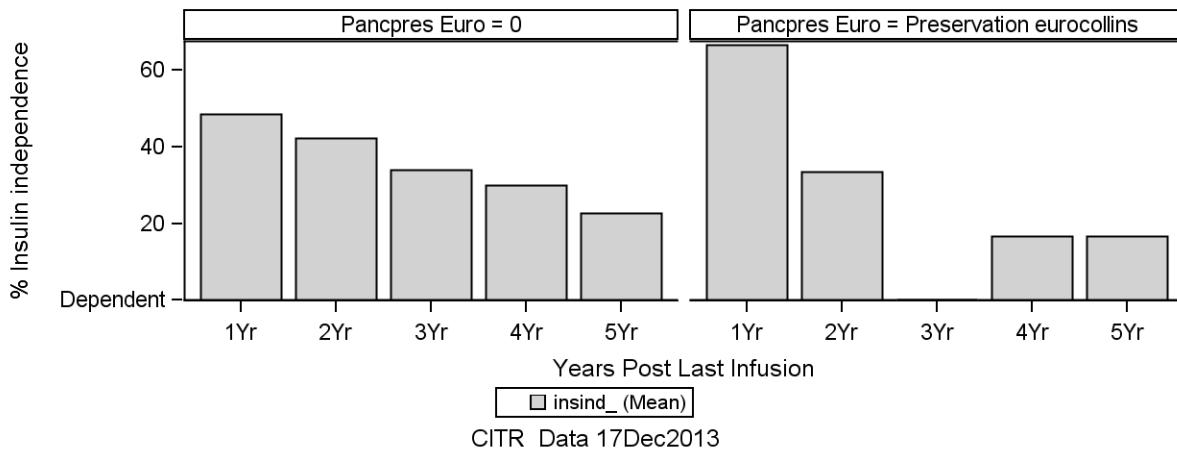
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1173	0.2918	-0.4546	0.6892	0.40	0.6877
yrspli	-0.2449	0.0636	-0.3695	-0.1202	-3.85	0.0001
pancpres_ros	0.0000	0.0000	0.0000	0.0000	.	.
yrspli*pancpres_ros	0.0000	0.0000	0.0000	0.0000	.	.

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1173	0.2918	-0.4546	0.6892	0.40	0.6877
yrspli	-0.2449	0.0636	-0.3695	-0.1202	-3.85	0.0001
pancpres_ros	0.0000	0.0000	0.0000	0.0000	.	.

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Pancpres Euro</i>					
0		705	602	516	448
Preservation eurocollins	6	6	6	6	6
Total	711	608	522	454	385

Testing at 1-5 yr

### The GENMOD Procedure

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.1823		.	.	.	.
<i>yrspli</i>	-0.2632		.	.	.	.
<i>pancpres_euro</i>	39.6727		.	.	.	.
<i>yrspli*pancpres_euro</i>	-4.2782		.	.	.	.

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***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.1858	0.0841	0.0210	0.3506	2.21	0.0271
<i>yrspli</i>	-0.2667	0.0250	-0.3157	-0.2177	-10.67	<.0001
<i>pancpres_euro</i>	-0.1764	0.5384	-1.2317	0.8789	-0.33	0.7432

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.1344	0.2951	-0.4440	0.7127	0.46	0.6488
<i>yrspli</i>	-0.2471	0.0644	-0.3732	-0.1209	-3.84	0.0001
<i>pancpres_euro</i>	-1.7438	1.1345	-3.9674	0.4797	-1.54	0.1243
<i>yrspli*pancpres_euro</i>	0.2471	0.0644	0.1209	0.3732	3.84	0.0001

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***The GENMOD Procedure***

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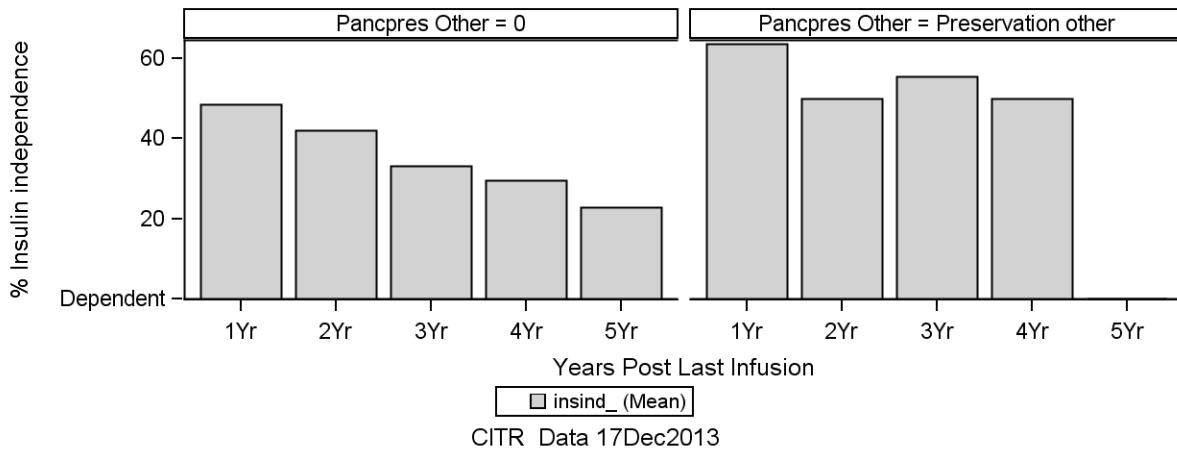
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.1233	0.2926	-0.4501	0.6968	0.42	0.6734
<i>yrspli</i>	-0.2445	0.0637	-0.3693	-0.1197	-3.84	0.0001
<i>pancpres_euro</i>	-0.6830	1.1020	-2.8428	1.4769	-0.62	0.5354

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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Pancpres Other</i>					
0	700	598	513	450	383
Preservation other	11	10	9	4	2
Total	711	608	522	454	385

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.1784	0.0846	0.0125 0.3442	2.11	0.0350
yrspli	-0.2683	0.0253	-0.3179 -0.2187	-10.60	<.0001
pancpres_oth	0.2153	0.5913	-0.9438 1.3743	0.36	0.7158
yrspli*pancpres_oth	0.1498	0.1029	-0.0519 0.3516	1.46	0.1454

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.1756	0.0844	0.0102 0.3410	2.08	0.0374
yrspli	-0.2667	0.0250	-0.3158 -0.2177	-10.65	<.0001
pancpres_oth	0.5260	0.5698	-0.5907 1.6427	0.92	0.3559

Testing at 4-5 yr

### The GENMOD Procedure

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**Analysis Of GEE Parameter Estimates**

**Empirical Standard Error Estimates**

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.5550	.	.	.	.
yrspli	-0.3559	.	.	.	.
pancpres_oth	84.9061	.	.	.	.
yrspli*pancpres_oth	-21.0094	.	.	.	.

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**The GENMOD Procedure**

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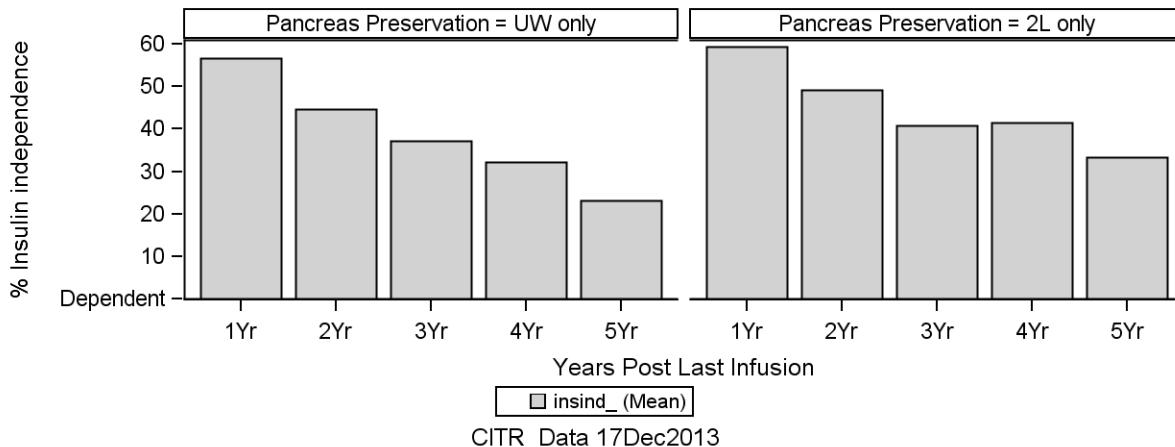
**Analysis Of GEE Parameter Estimates**

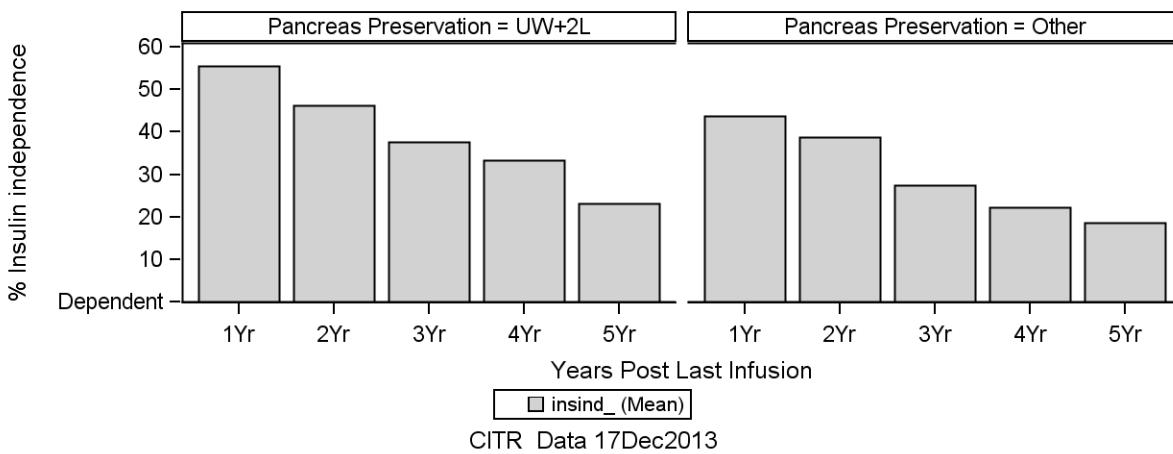
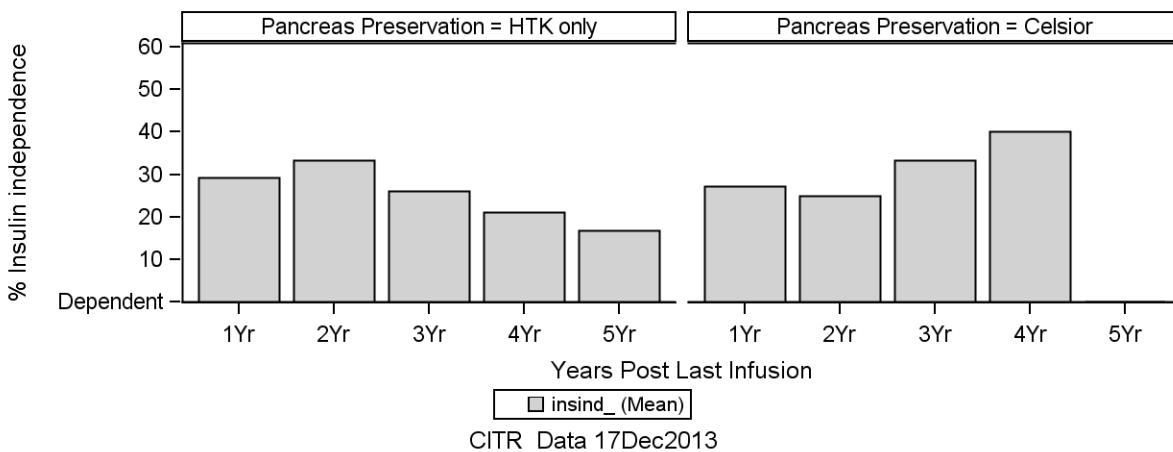
**Empirical Standard Error Estimates**

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.1034	0.2923	-0.4696 0.6763	0.35	0.7236
yrspli	-0.2435	0.0637	-0.3683 -0.1186	-3.82	0.0001
pancpres_oth	0.8365	0.9790	-1.0823 2.7553	0.85	0.3929

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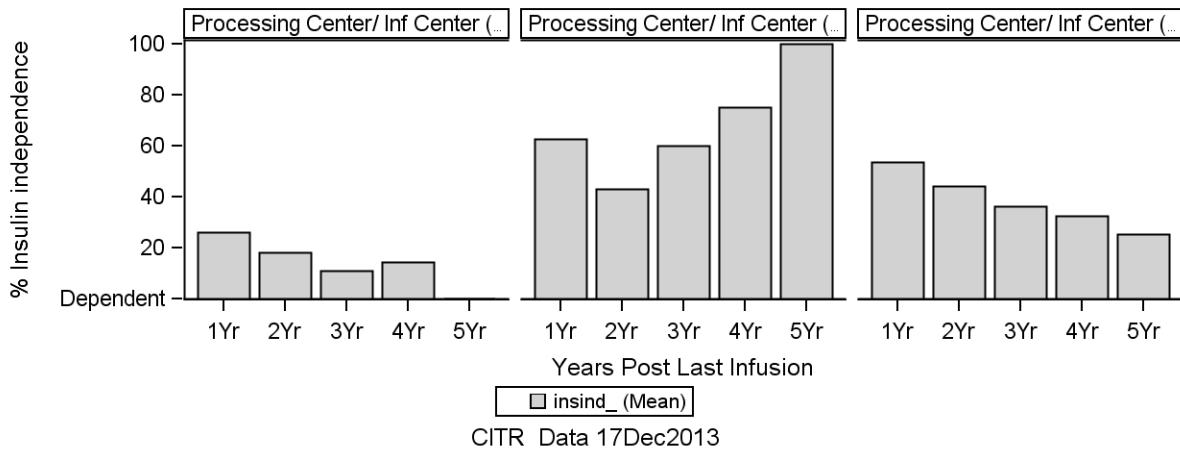
Insulin independence





Pancreas Preservation	Years Post Last Infusion				
	1	2	3	4	5
UW only	180	164	151	143	130
2L only	64	61	59	53	51
HTK only	48	33	23	19	12
Celsior	11	8	6	5	3
UW+2L	83	80	77	72	69
Other	318	255	200	157	118
Total	704	601	516	449	383

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Processing Center/ Inf Center (0-Unrelated 1-Related)</i>					
Unrelated	27	22	18	14	9
Mixed	8	7	5	4	1
<i>Processing/transplant centers related</i>	485	450	418	378	335
<i>Total</i>	520	479	441	396	345

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.6886	0.4217	-1.5151 0.1379	-1.63	0.1025
yrspli	-0.1540	0.0661	-0.2836 -0.0245	-2.33	0.0198
pcenter_	1.0263	0.4350	0.1737 1.8790	2.36	0.0183
yrspli*pcenter_	-0.1076	0.0716	-0.2480 0.0328	-1.50	0.1331

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.5287	0.3846	-1.2825 0.2251	-1.37	0.1693
yrspli	-0.2589	0.0258	-0.3095 -0.2083	-10.03	<.0001
pcenter_	0.8606	0.3931	0.0901 1.6311	2.19	0.0286

Testing at 4-5 yr

### The GENMOD Procedure

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	7.5712	5.6477	-3.4981	18.6406	1.34	0.1801
yrspli	-2.1721	1.3912	-4.8989	0.5547	-1.56	0.1185
pcenter_	-7.4017	5.6525	-18.4803	3.6770	-1.31	0.1904
yrspli*pcenter_	1.9458	1.3912	-0.7810	4.6725	1.40	0.1619

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*The GENMOD Procedure*

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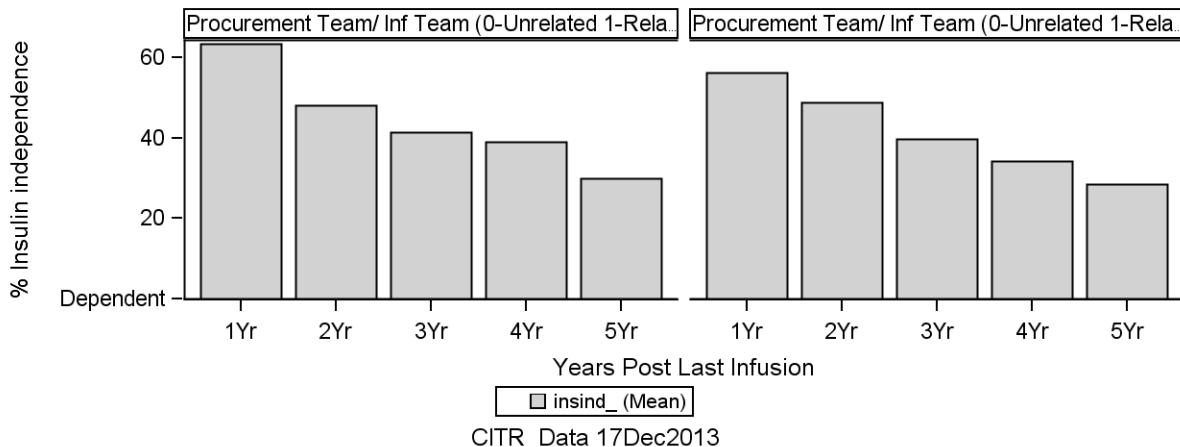
*Analysis Of GEE Parameter Estimates*

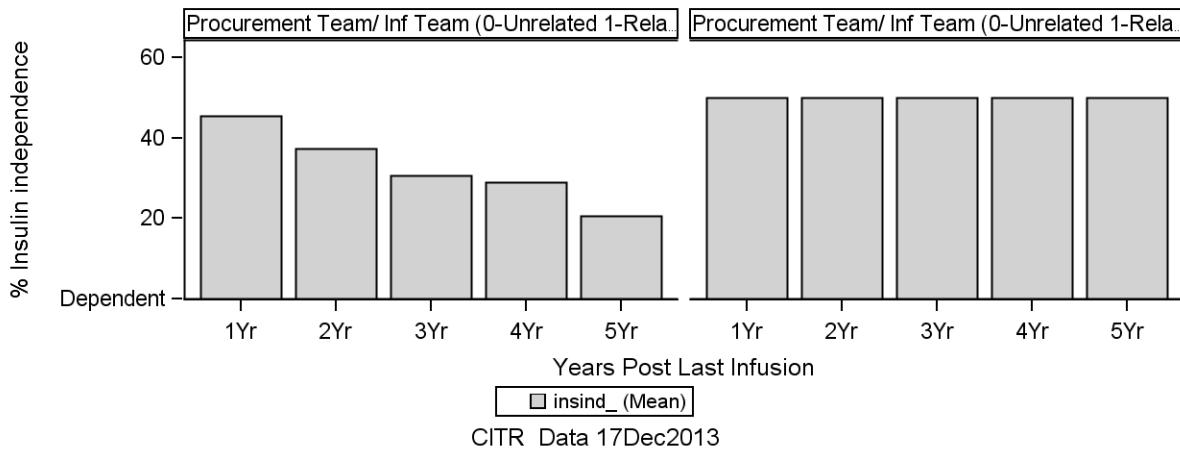
*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.5054	0.6437	-1.7670	0.7561	-0.79	0.4323
yrspli	-0.2537	0.0673	-0.3856	-0.1217	-3.77	0.0002
pcenter_	0.7958	0.5430	-0.2685	1.8602	1.47	0.1428

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Insulin independence





	Years Post Last Infusion				
	1	2	3	4	5
<i>Procurement Team/ Inf Team (0-Unrelated 1-Related)</i>					
Unrelated	93	85	82	77	70
Mixed	146	135	121	111	91
Procurement/transplant centers related	262	241	222	196	174
Miss/unk	2	2	2	2	2
Total	503	463	427	386	337

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.5242	0.2234	0.0863 0.9620	2.35	0.0190
yrspli	-0.2907	0.0403	-0.3697 -0.2117	-7.22	<.0001
procure_	-0.3629	0.3056	-0.9617 0.2360	-1.19	0.2350
yrspli*procure_	0.0478	0.0391	-0.0289 0.1244	1.22	0.2221

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.5177	0.1871	0.1511 0.8844	2.77	0.0056
yrspli	-0.2585	0.0267	-0.3108 -0.2062	-9.69	<.0001
procure_	-0.3623	0.2389	-0.8306 0.1059	-1.52	0.1294

Testing at 4-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3523	0.3432	-0.3203	1.0250	1.03	0.3046
yrspli	-0.2459	0.0957	-0.4335	-0.0583	-2.57	0.0102
procure_	0.0019	0.4013	-0.7846	0.7885	0.00	0.9962
yrspli*procure_	-0.0348	0.1324	-0.2942	0.2246	-0.26	0.7928

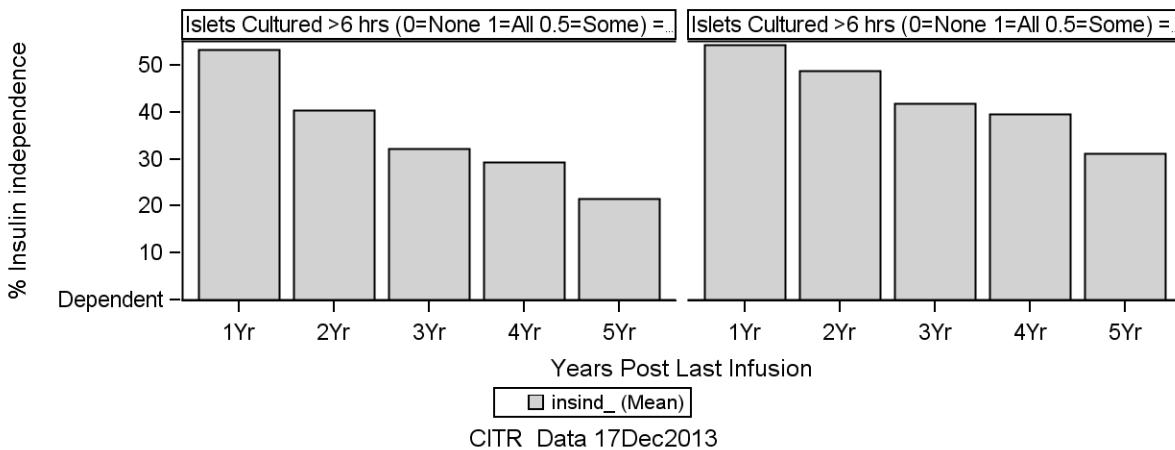
### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.4398	0.3567	-0.2594	1.1389	1.23	0.2176
yrspli	-0.2700	0.0670	-0.4012	-0.1388	-4.03	<.0001
procure_	-0.1228	0.2685	-0.6490	0.4034	-0.46	0.6474

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Islets Cultured &gt;6 hrs (0=None 1=All 0.5=Some)</i>					
None	120	114	109	106	102
Islets cultured >=6 hrs	328	279	246	213	177
Total	448	393	355	319	279

Testing at 1-5 yr

**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
			-0.0642	0.7257		
Intercept	0.3307	0.2015	-0.0642	0.7257	1.64	0.1008
yrspli	-0.3276	0.0592	-0.4436	-0.2116	-5.54	<.0001
cultured_	0.0433	0.2343	-0.4160	0.5025	0.18	0.8535
yrspli*cultured_	0.0904	0.0679	-0.0427	0.2236	1.33	0.1832

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**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
			-0.1300	0.5567		
Intercept	0.2133	0.1752	-0.1300	0.5567	1.22	0.2233
yrspli	-0.2652	0.0293	-0.3225	-0.2078	-9.06	<.0001
cultured_	0.2185	0.1920	-0.1578	0.5948	1.14	0.2551

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Testing at 4-5 yr

**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
			-0.6656	1.5241		
Intercept	0.4292	0.5586	-0.6656	1.5241	0.77	0.4423
yrspli	-0.3282	0.1217	-0.5666	-0.0897	-2.70	0.0070
cultured_	0.0508	0.6956	-1.3125	1.4142	0.07	0.9418
yrspli*cultured_	0.1009	0.1511	-0.1952	0.3970	0.67	0.5041

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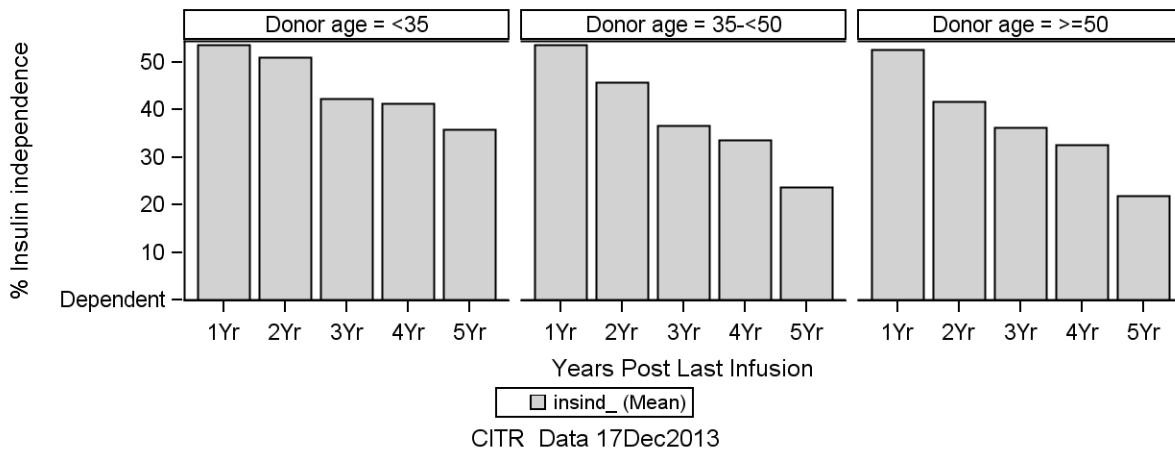
**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
			-0.6074	0.8768		
Intercept	0.1347	0.3786	-0.6074	0.8768	0.36	0.7220
yrspli	-0.2598	0.0722	-0.4013	-0.1182	-3.60	0.0003
cultured_	0.4860	0.2513	-0.0066	0.9786	1.93	0.0531

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Insulin independence



		Years Post Last Infusion				
		1	2	3	4	5
Donor age						
<35		114	100	78	63	56
35-50		295	261	227	197	169
>=50		137	113	102	86	64
Total		546	474	407	346	289

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.3549	0.3029	-0.2388 0.9486	1.17	0.2413
yrspli	-0.1715	0.0844	-0.3369 -0.0061	-2.03	0.0421
donage_mean_c	0.0023	0.1408	-0.2738 0.2783	0.02	0.9872
yrspli*donage_mean_c	-0.0422	0.0404	-0.1213 0.0369	-1.05	0.2959

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.5156	0.2610	0.0040 1.0271	1.98	0.0482	
yrspli	-0.2569	0.0268	-0.3094 -0.2044	-9.59	<.0001	
donage_mean_c	-0.0764	0.1184	-0.3085 0.1557	-0.65	0.5188	

Testing at 4-5 yr

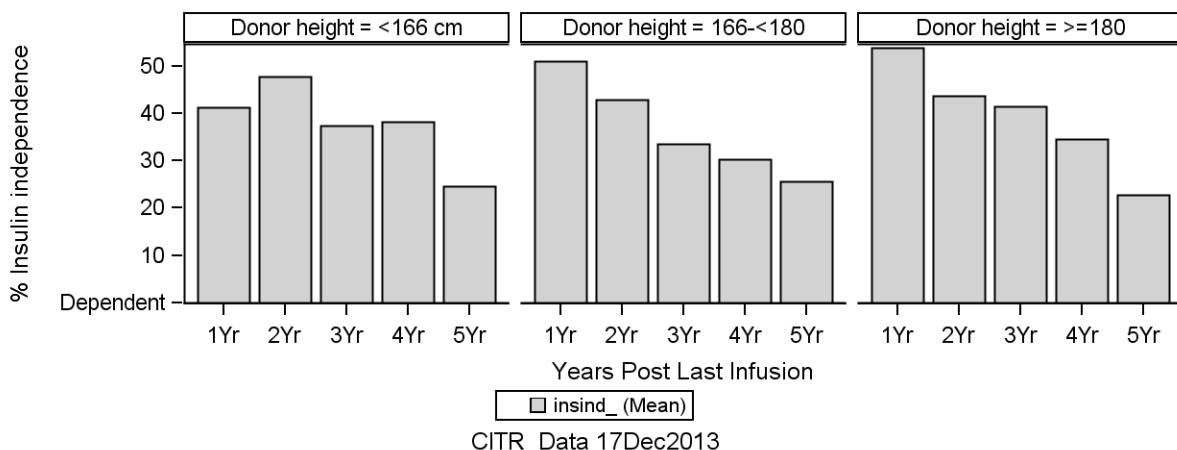
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.4189	0.9681	-1.4785 2.3164	0.43	0.6652	
yrspli	-0.1702	0.2099	-0.5815 0.2411	-0.81	0.4173	
donage_mean_c	0.1091	0.4627	-0.7978 1.0159	0.24	0.8137	
yrspli*donage_mean_c	-0.0724	0.1015	-0.2714 0.1266	-0.71	0.4756	

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	1.0383	0.4957	0.0667 2.0099	2.09	0.0362	
yrspli	-0.3143	0.0756	-0.4626 -0.1661	-4.16	<.0001	
donage_mean_c	-0.2013	0.1745	-0.5433 0.1406	-1.15	0.2486	

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Donor height</i>					
<166 cm	97	84	75	68	57
166-<180	393	346	292	252	219
>=180	132	110	99	81	66
Total	622	540	466	401	342

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
			-0.7686	0.4936		
Intercept	-0.1375	0.3220	-0.7686	0.4936	-0.43	0.6694
yrspli	-0.2148	0.0883	-0.3879	-0.0416	-2.43	0.0151
caheight_mean_c	0.1726	0.1491	-0.1197	0.4649	1.16	0.2471
yrspli*caheight_mean	-0.0153	0.0401	-0.0940	0.0633	-0.38	0.7025

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### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
			-0.6221	0.4613		
Intercept	-0.0804	0.2764	-0.6221	0.4613	-0.29	0.7710
yrspli	-0.2460	0.0253	-0.2956	-0.1964	-9.71	<.0001
caheight_mean_c	0.1444	0.1271	-0.1047	0.3935	1.14	0.2560

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Testing at 4-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
			-1.2775	3.3779		
Intercept	1.0502	1.1876	-1.2775	3.3779	0.88	0.3765
yrspli	-0.4105	0.2571	-0.9144	0.0934	-1.60	0.1104
caheight_mean_c	-0.3770	0.5484	-1.4518	0.6978	-0.69	0.4918
yrspli*caheight_mean	0.0763	0.1179	-0.1548	0.3074	0.65	0.5175

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### The GENMOD Procedure

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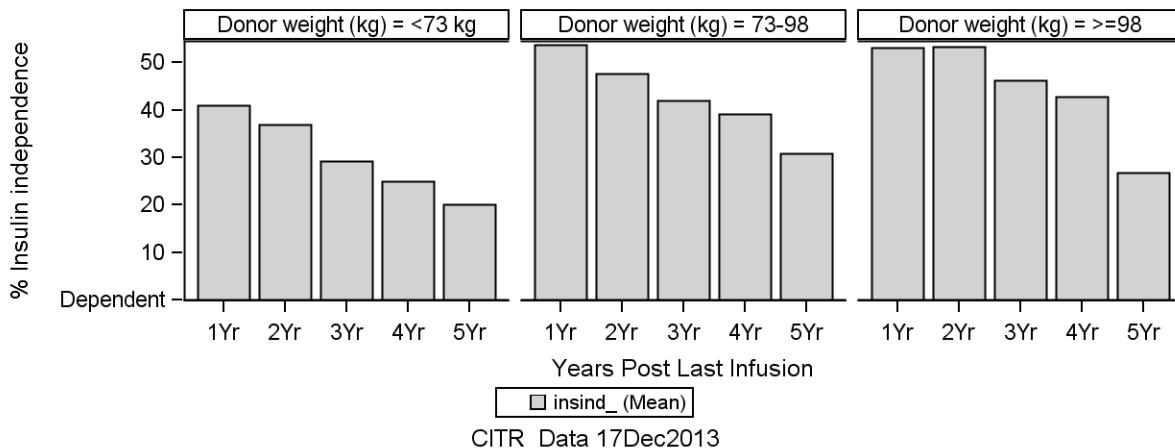
### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3800	0.4760	-0.5529	1.3129	0.80	0.4247
yrspli	-0.2567	0.0679	-0.3898	-0.1237	-3.78	0.0002
caheight_mean_c	-0.0445	0.1748	-0.3871	0.2981	-0.25	0.7989

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Insulin independence



Years Post Last Infusion					
	1	2	3	4	5
Donor weight (kg)					
<73 kg	61	57	55	52	45
73-98	175	166	148	128	110
>=98	32	30	26	21	15
Total	268	253	229	201	170

Testing at 1-5 yr

### **The GENMOD Procedure**

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### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.2581	0.4559	-1.1518	0.6355	-0.57	0.5713
yrspli	-0.2989	0.1118	-0.5180	-0.0797	-2.67	0.0075
caheight_mean_c	0.2803	0.2321	-0.1746	0.7353	1.21	0.2272
yrspli*caheight_mean	0.0432	0.0573	-0.0691	0.1554	0.75	0.4512

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**The GENMOD Procedure**

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.4294	0.3941	-1.2019	0.3430	-1.09	0.2759
yrspli	-0.2176	0.0343	-0.2848	-0.1503	-6.34	<.0001
caweight_mean_c	0.3745	0.1942	-0.0061	0.7550	1.93	0.0538

Testing at 4-5 yr

**The GENMOD Procedure**

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-1.1414	1.4332	-3.9504	1.6676	-0.80	0.4258
yrspli	-0.0751	0.3098	-0.6823	0.5322	-0.24	0.8086
caweight_mean_c	1.0218	0.7788	-0.5046	2.5481	1.31	0.1895
yrspli*caweight_mean	-0.1414	0.1694	-0.4734	0.1906	-0.83	0.4040

**The GENMOD Procedure**

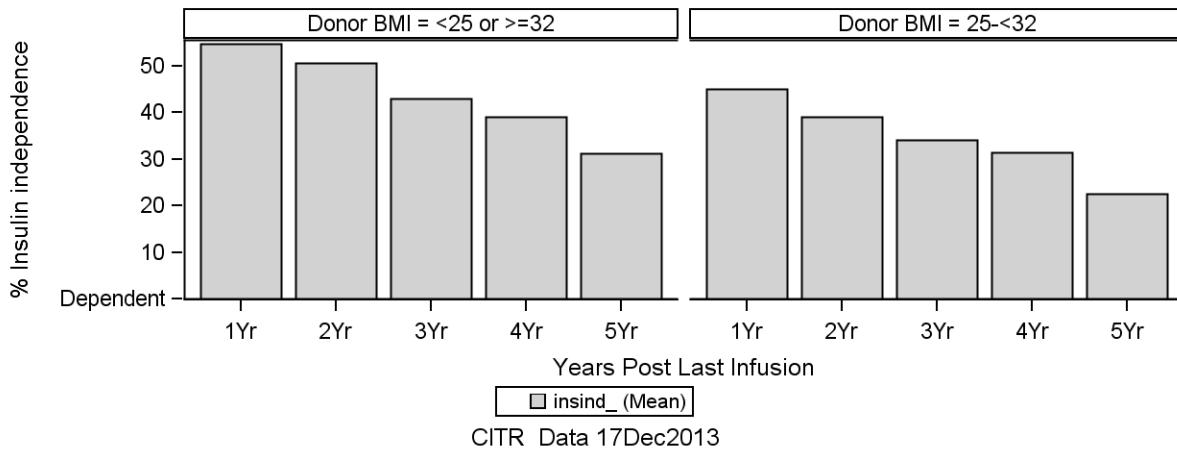
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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.0069	0.6319	-1.2454	1.2316	-0.01	0.9913
yrspli	-0.3404	0.1007	-0.5378	-0.1429	-3.38	0.0007
caweight_mean_c	0.4164	0.2467	-0.0670	0.8999	1.69	0.0913

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Donor BMI</i>					
<25 or >=32	157	148	135	118	99
25-<32	111	105	94	83	71
<i>Total</i>	268	253	229	201	170

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.4462	0.1758	0.1017 0.7907	2.54	0.0111
yrspli	-0.2117	0.0439	-0.2978 -0.1256	-4.82	<.0001
donbmi_mean_c	-0.4107	0.2743	-0.9484 0.1269	-1.50	0.1343
yrspli*donbmi_mean_c	-0.0162	0.0699	-0.1533 0.1209	-0.23	0.8164

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.4616	0.1638	0.1406 0.7825	2.82	0.0048
yrspli	-0.2180	0.0341	-0.2849 -0.1510	-6.38	<.0001
donbmi_mean_c	-0.4456	0.2282	-0.8929 0.0017	-1.95	0.0509

Testing at 4-5 yr

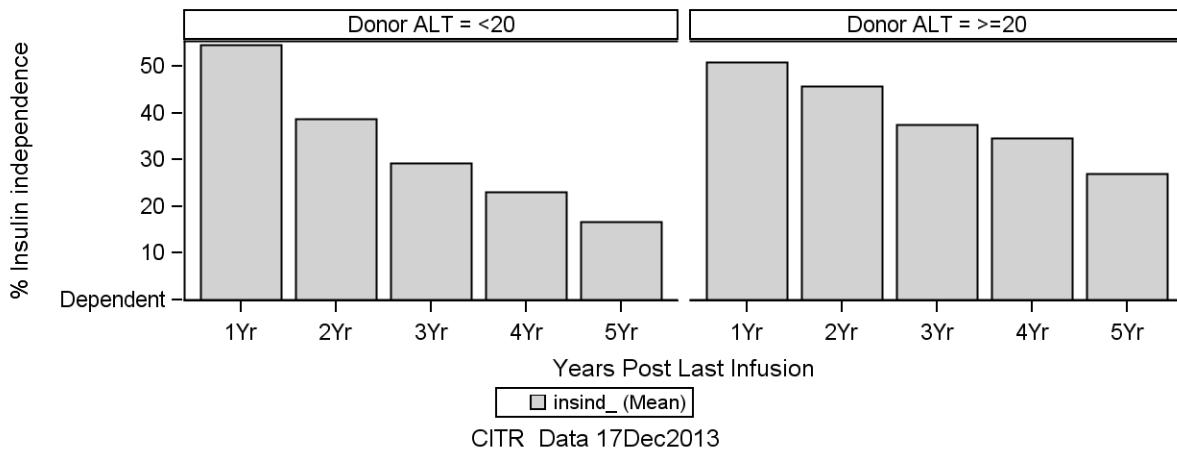
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.5181	0.5327	-0.5259	1.5621	0.97	0.3307
yrspli	-0.2441	0.1150	-0.4695	-0.0186	-2.12	0.0338
donbmi_mean_c	0.6788	0.9703	-1.2229	2.5805	0.70	0.4842
yrspli*donbmi_mean_c	-0.2514	0.2178	-0.6783	0.1755	-1.15	0.2484

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.9296	0.4631	0.0219	1.8373	2.01	0.0447
yrspli	-0.3396	0.0994	-0.5344	-0.1449	-3.42	0.0006
donbmi_mean_c	-0.3931	0.2967	-0.9746	0.1884	-1.32	0.1852

Insulin independence



Donor ALT	Years Post Last Infusion				
	1	2	3	4	5
<20	66	57	48	39	36
≥20	427	368	317	269	219
Total	493	425	365	308	255

Testing at 1-5 yr

### The GENMOD Procedure

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.4344	0.2740	-0.1027	0.9714	1.59	0.1129
<i>yrspli</i>	-0.4334	0.1124	-0.6537	-0.2132	-3.86	0.0001
<i>alt_mean_c</i>	-0.1962	0.2944	-0.7732	0.3809	-0.67	0.5053
<i>yrspli*alt_mean_c</i>	0.2111	0.1161	-0.0165	0.4387	1.82	0.0690

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***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.1342	0.2204	-0.2979	0.5663	0.61	0.5426
<i>yrspli</i>	-0.2463	0.0286	-0.3024	-0.1902	-8.61	<.0001
<i>alt_mean_c</i>	0.1512	0.2322	-0.3040	0.6064	0.65	0.5150

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-0.9177	0.4136	-1.7284	-0.1070	-2.22	0.0265
<i>yrspli</i>	-0.0716	0.0373	-0.1447	0.0016	-1.92	0.0551
<i>alt_mean_c</i>	1.3126	0.5683	0.1987	2.4265	2.31	0.0209
<i>yrspli*alt_mean_c</i>	-0.1866	0.0932	-0.3693	-0.0040	-2.00	0.0452

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***The GENMOD Procedure***

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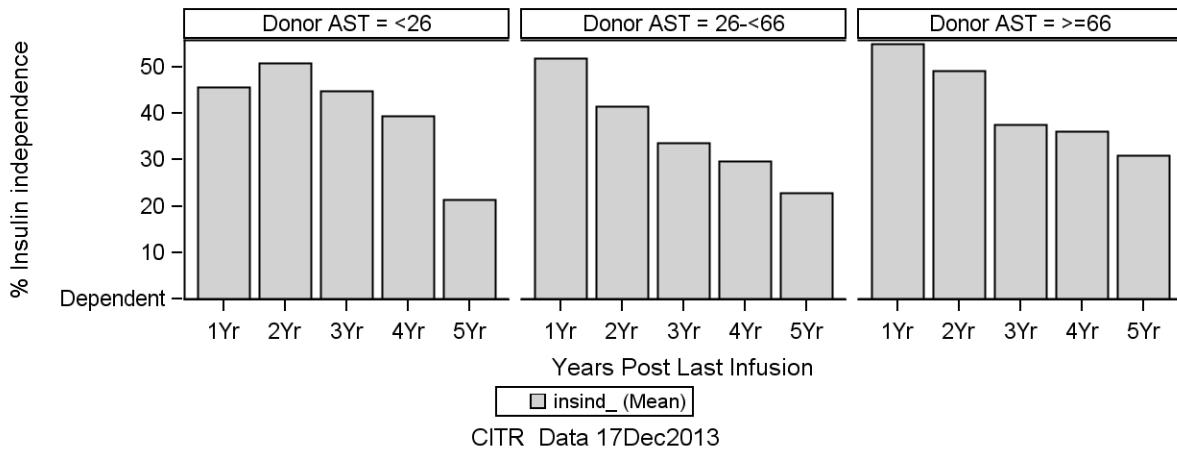
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-0.2053	0.4887	-1.1632	0.7526	-0.42	0.6745
<i>yrspli</i>	-0.2382	0.0759	-0.3869	-0.0895	-3.14	0.0017
<i>alt_mean_c</i>	0.5141	0.3997	-0.2692	1.2975	1.29	0.1983

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Insulin independence



		Years Post Last Infusion				
		1	2	3	4	5
Donor AST						
	<26	70	55	49	33	28
26-66	260	231	200	175	145	
>=66	151	130	109	94	81	
Total	481	416	358	302	254	

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.0151	0.3541	-0.7091	0.6788	-0.04	0.9659
yrspli	-0.2061	0.1030	-0.4080	-0.0042	-2.00	0.0454
ast_mean_c	0.1403	0.1574	-0.1683	0.4489	0.89	0.3728
yrspli*ast_mean_c	-0.0209	0.0460	-0.1111	0.0693	-0.45	0.6494

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.0660	0.3038	-0.5295	0.6615	0.22	0.8280
yrspli	-0.2524	0.0289	-0.3089	-0.1958	-8.74	<.0001
ast_mean_c	0.1033	0.1325	-0.1563	0.3630	0.78	0.4355

Testing at 4-5 yr

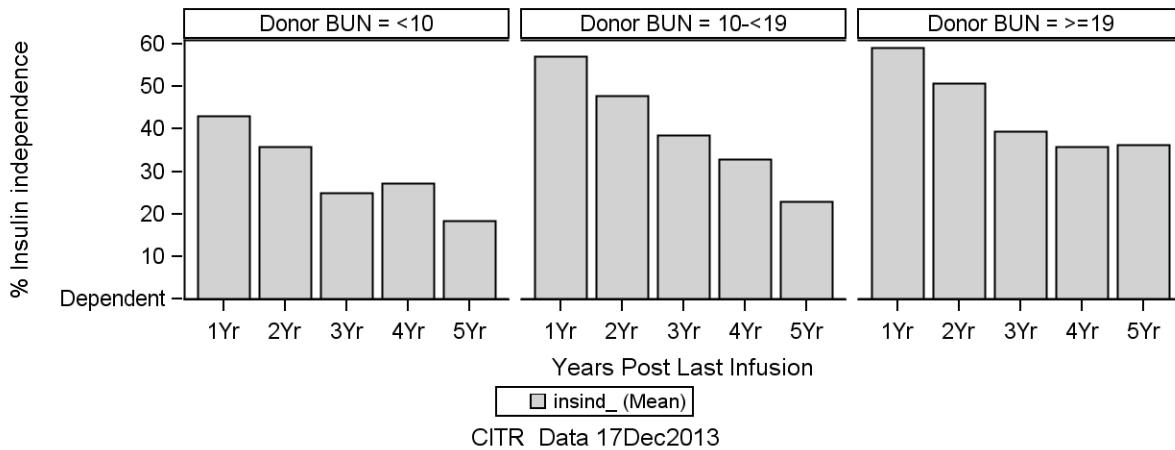
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.9821	1.4112	-1.7838 3.7481	0.70	0.4865	
yrspli	-0.4440	0.3039	-1.0395 0.1516	-1.46	0.1440	
ast_mean_c	-0.3610	0.5876	-1.5127 0.7907	-0.61	0.5390	
yrspli*ast_mean_c	0.0988	0.1255	-0.1471 0.3448	0.79	0.4309	

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.0192	0.5699	-1.0977 1.1362	0.03	0.9731	
yrspli	-0.2235	0.0736	-0.3677 -0.0793	-3.04	0.0024	
ast_mean_c	0.0711	0.2004	-0.3217 0.4640	0.35	0.7227	

Insulin independence



Donor BUN	Years Post Last Infusion				
	1	2	3	4	5
<10	79	67	52	44	38
10-<19	230	203	177	149	131
>=19	93	77	66	53	47
Total	402	347	295	246	216

Testing at 1-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
			-1.0265	0.4642		
Intercept	-0.2812	0.3803	-1.0265	0.4642	-0.74	0.4597
yrspli	-0.3338	0.1191	-0.5672	-0.1003	-2.80	0.0051
bun_mean_c	0.3343	0.1785	-0.0155	0.6841	1.87	0.0611
yrspli*bun_mean_c	0.0234	0.0522	-0.0789	0.1256	0.45	0.6544

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
			-0.9699	0.2459		
Intercept	-0.3620	0.3101	-0.9699	0.2459	-1.17	0.2431
yrspli	-0.2848	0.0325	-0.3486	-0.2211	-8.76	<.0001
bun_mean_c	0.3748	0.1448	0.0910	0.6587	2.59	0.0096

Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
			-1.5657	3.3558		
Intercept	0.8951	1.2555	-1.5657	3.3558	0.71	0.4759
yrspli	-0.5058	0.2738	-1.0424	0.0308	-1.85	0.0647
bun_mean_c	-0.3560	0.5772	-1.4872	0.7752	-0.62	0.5374
yrspli*bun_mean_c	0.1375	0.1250	-0.1075	0.3826	1.10	0.2713

***The GENMOD Procedure***

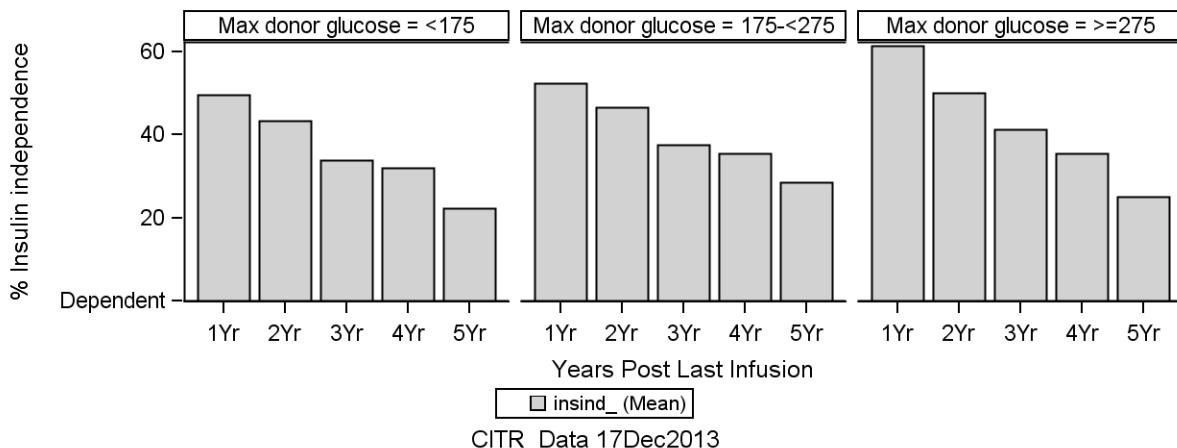
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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
			-1.5062	0.8103		
Intercept	-0.3480	0.5910	-1.5062	0.8103	-0.59	0.5560
yrspli	-0.2180	0.0817	-0.3781	-0.0579	-2.67	0.0076
bun_mean_c	0.2392	0.2138	-0.1799	0.6582	1.12	0.2633

## Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Max donor glucose</i>					
<175	109	90	83	75	63
175-<275	298	258	218	178	154
>=275	101	94	85	79	68
<i>Total</i>	508	442	386	332	285

Testing at 1-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.1456	0.3137	-0.7604 0.4693	-0.46	0.6427
yrspli	-0.1764	0.0910	-0.3548 0.0021	-1.94	0.0527
maxinsbg_mean_c	0.2513	0.1516	-0.0457 0.5484	1.66	0.0973
yrspli*maxinsbg_mean	-0.0417	0.0435	-0.1269 0.0435	-0.96	0.3376

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.0291	0.2609	-0.4823 0.5405	0.11	0.9112
yrspli	-0.2607	0.0276	-0.3149 -0.2065	-9.43	<.0001
maxinsbg_mean_c	0.1633	0.1232	-0.0782 0.4047	1.33	0.1851

CITR Data 17Dec2013

Testing at 4-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.3636	1.1783	-1.9457 2.6730	0.31	0.7576
yrspli	-0.2879	0.2567	-0.7911 0.2153	-1.12	0.2621
maxinsbg_mean_c	0.0288	0.5494	-1.0479 1.1055	0.05	0.9582
yrspli*maxinsbg_mean	0.0114	0.1194	-0.2226 0.2454	0.10	0.9241

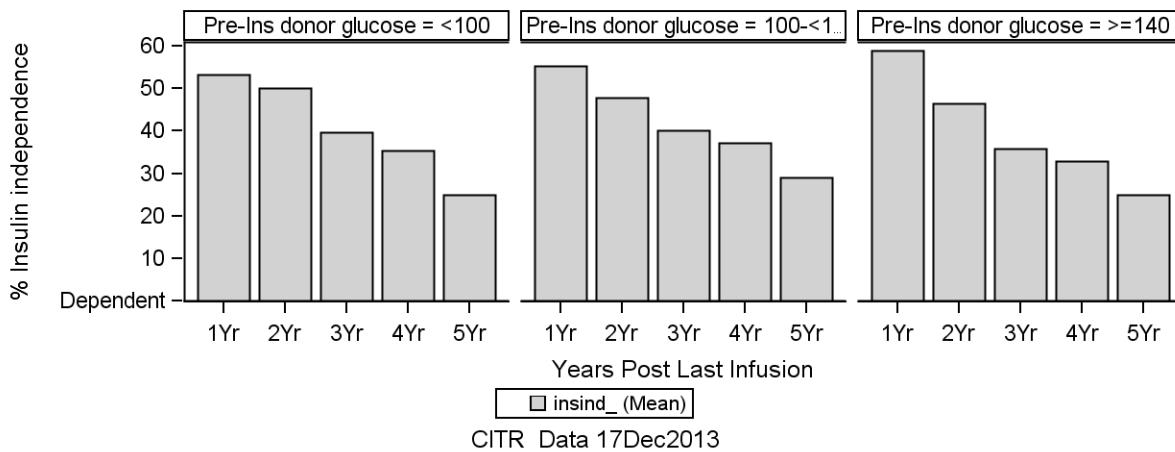
### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2645	0.4761	-0.6686 1.1975	0.56	0.5785
yrspli	-0.2651	0.0752	-0.4125 -0.1177	-3.52	0.0004
maxinsbg_mean_c	0.0781	0.1621	-0.2395 0.3958	0.48	0.6298

Insulin independence



Pre-Ins donor glucose	Years Post Last Infusion				
	1	2	3	4	5
<100	79	68	58	48	40
100-<140	281	249	225	194	172

	Years Post Last Infusion				
	1	2	3	4	5
>=140	112	97	81	73	64
Total	472	414	364	315	276

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.1555	0.3646	-0.5591 0.8701	0.43	0.6697
yrspli	-0.1098	0.1048	-0.3152 0.0957	-1.05	0.2950
preinsbg_mean_c	0.1427	0.1682	-0.1870 0.4724	0.85	0.3963
yrspli*preinsbg_mean	-0.0791	0.0489	-0.1749 0.0168	-1.62	0.1061

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.4876	0.2952	-0.0910 1.0661	1.65	0.0986
yrspli	-0.2735	0.0285	-0.3294 -0.2176	-9.59	<.0001
preinsbg_mean_c	-0.0169	0.1334	-0.2784 0.2446	-0.13	0.8994

Testing at 4-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.5633	1.2136	-1.8154 2.9420	0.46	0.6426
yrspli	-0.2489	0.2626	-0.7636 0.2657	-0.95	0.3431
preinsbg_mean_c	0.0083	0.6090	-1.1854 1.2019	0.01	0.9891
yrspli*preinsbg_mean	-0.0200	0.1328	-0.2803 0.2404	-0.15	0.8806

### The GENMOD Procedure

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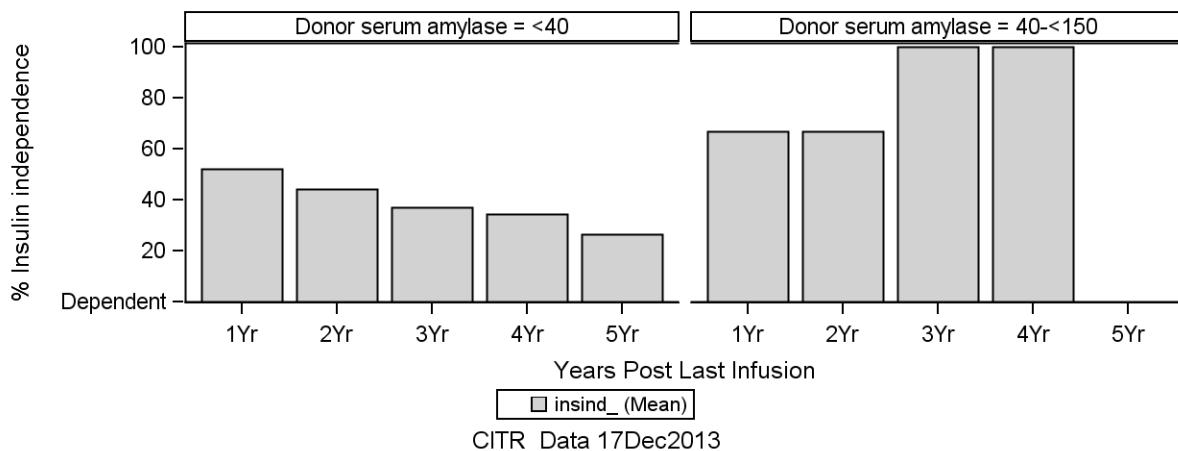
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.7428	0.5110	-0.2587	1.7443	1.45	0.1460
<i>yrspli</i>	-0.2906	0.0758	-0.4392	-0.1420	-3.83	0.0001
<i>preinsbg_mean_c</i>	-0.0777	0.1827	-0.4359	0.2804	-0.43	0.6705

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Insulin independence



Years Post Last Infusion					
Donor serum amylase					
<40	457	409	372	336	289
40-<150	6	3	2	1	.
Total	463	412	374	337	289

Testing at 1-5 yr

*The GENMOD Procedure*

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.0060	0.9192	-1.7955	1.8075	0.01	0.9948
<i>yrspli</i>	-0.6357	0.0880	-0.8082	-0.4631	-7.22	<.0001
<i>seramy_mean_c</i>	0.2663	0.9024	-1.5023	2.0348	0.30	0.7679
<i>yrspli*seramy_mean_c</i>	0.3838	0.0736	0.2397	0.5280	5.22	<.0001

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*The GENMOD Procedure*

**CITR Data 17Dec2013**

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Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	-0.6179	0.9337	-2.4479 1.2122	-0.66	0.5082	
yrspli	-0.2510	0.0278	-0.3056 -0.1965	-9.02	<.0001	
seramy_mean_c	0.8885	0.9200	-0.9148 2.6917	0.97	0.3342	

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Testing at 4-5 yr

### The GENMOD Procedure

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Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	-22.6486	.	.	.	.	.
yrspli	-0.2558	.	.	.	.	.
seramy_mean_c	23.0185	.	.	.	.	.
yrspli*seramy_mean_c	0.0000	0.0000	0.0000	0.0000	.	.

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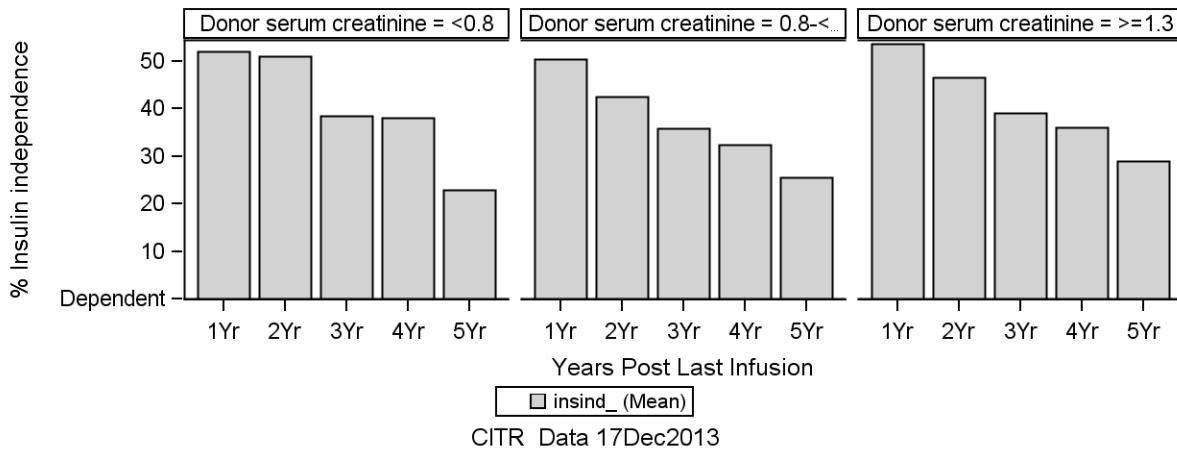
### The GENMOD Procedure

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Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	-22.6486	.	.	.	.	.
yrspli	-0.2558	.	.	.	.	.
seramy_mean_c	23.0185	.	.	.	.	.

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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Donor serum creatinine</i>					
<0.8	125	100	78	63	48
0.8-<1.3	288	261	229	194	168
>=1.3	123	105	97	89	76
<i>Total</i>	536	466	404	346	292

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2939	0.3000	-0.2941 0.8820	0.98	0.3272
yrspli	-0.2036	0.0816	-0.3635 -0.0436	-2.49	0.0126
sercreat_mean_c	-0.0116	0.1415	-0.2889 0.2657	-0.08	0.9347
yrspli*sercreat_mean	-0.0190	0.0394	-0.0963 0.0582	-0.48	0.6290

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.3696	0.2602	-0.1404 0.8796	1.42	0.1555
yrspli	-0.2429	0.0266	-0.2951 -0.1908	-9.13	<.0001
sercreat_mean_c	-0.0480	0.1199	-0.2830 0.1869	-0.40	0.6886

Testing at 4-5 yr

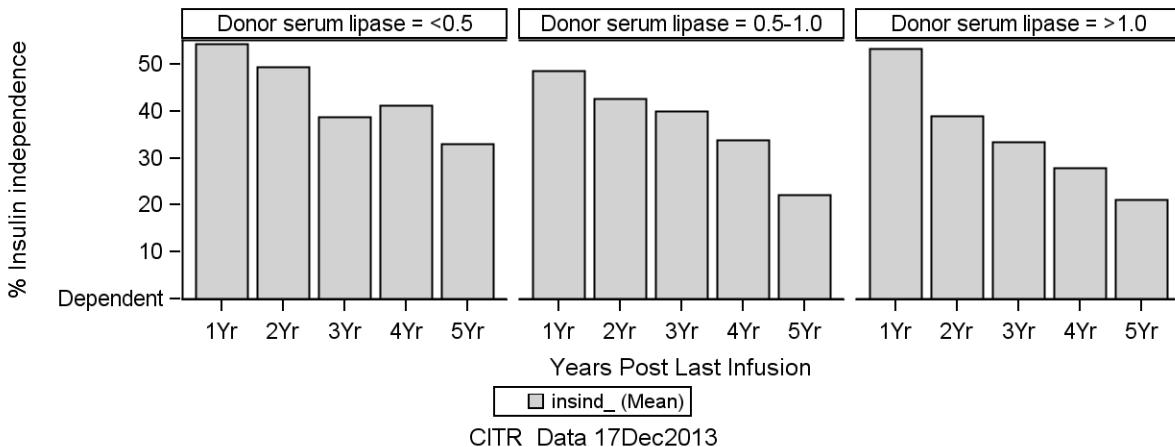
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	2.3820	1.2984	-0.1629	4.9268	1.83	0.0666
yrspli	-0.7398	0.2882	-1.3046	-0.1749	-2.57	0.0103
sercreat_mean_c	-0.8943	0.5851	-2.0411	0.2525	-1.53	0.1264
yrspli*sercreat_mean	0.2153	0.1288	-0.0371	0.4677	1.67	0.0945

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.4301	0.4952	-0.5404	1.4006	0.87	0.3851
yrspli	-0.2866	0.0733	-0.4303	-0.1430	-3.91	<.0001
sercreat_mean_c	0.0342	0.1691	-0.2972	0.3655	0.20	0.8398

Insulin independence



Donor serum lipase	Years Post Last Infusion				
	1	2	3	4	5
<0.5	164	144	129	119	94
0.5-1.0	99	87	80	68	59
>1.0	154	141	132	115	104
Total	417	372	341	302	257

Testing at 1-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3490	0.2630	-0.1666	0.8645	1.33	0.1846
yrspli	-0.2176	0.0763	-0.3671	-0.0680	-2.85	0.0043
serlip_mean_c	-0.0258	0.1201	-0.2612	0.2095	-0.21	0.8298
yrspli*serlip_mean_c	-0.0220	0.0343	-0.0892	0.0452	-0.64	0.5212

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.4359	0.2281	-0.0111	0.8830	1.91	0.0560
yrspli	-0.2608	0.0301	-0.3198	-0.2019	-8.67	<.0001
serlip_mean_c	-0.0695	0.1021	-0.2696	0.1305	-0.68	0.4958

Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	1.1392	0.7643	-0.3589	2.6373	1.49	0.1361
yrspli	-0.2994	0.1654	-0.6235	0.0247	-1.81	0.0702
serlip_mean_c	-0.3128	0.3675	-1.0331	0.4076	-0.85	0.3948
yrspli*serlip_mean_c	0.0032	0.0801	-0.1539	0.1602	0.04	0.9685

***The GENMOD Procedure***

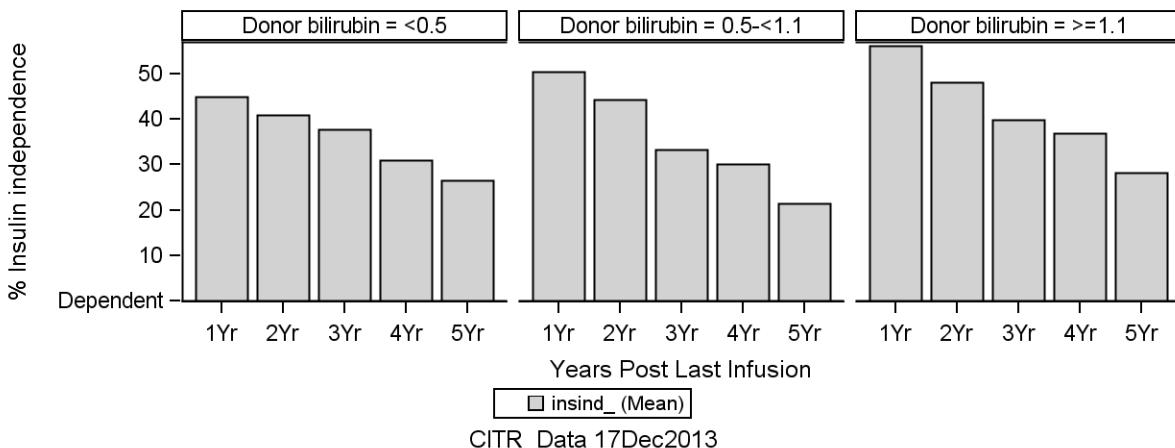
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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	1.1139	0.4580	0.2163	2.0115	2.43	0.0150
yrspli	-0.2935	0.0811	-0.4525	-0.1346	-3.62	0.0003
serlip_mean_c	-0.2992	0.1383	-0.5702	-0.0282	-2.16	0.0305

## Insulin independence



Years Post Last Infusion					
	1	2	3	4	5
Donor bilirubin					
<0.5	80	66	53	42	34
0.5-1.1	282	244	211	179	150
>=1.1	114	100	88	76	64
Total	476	410	352	297	248

Testing at 1-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.2072	0.3419	-0.8774 0.4630	-0.61	0.5445
yrspli	-0.2128	0.0977	-0.4044 -0.0212	-2.18	0.0295
totbili_mean_c	0.2229	0.1601	-0.0909 0.5367	1.39	0.1638
yrspli*totbili_mean_c	-0.0180	0.0454	-0.1071 0.0710	-0.40	0.6912

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.1389	0.2980	-0.7229 0.4451	-0.47	0.6411
yrspli	-0.2512	0.0294	-0.3089 -0.1935	-8.53	<.0001
totbili_mean_c	0.1901	0.1360	-0.0765 0.4566	1.40	0.1623

CITR Data 17Dec2013

Testing at 4-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.3264	1.3216	-2.9167	2.2639	-0.25	0.8049
yrspli	-0.1956	0.2895	-0.7629	0.3717	-0.68	0.4992
totbili_mean_c	0.2823	0.6150	-0.9230	1.4877	0.46	0.6462
yrspli*totbili_mean_c	-0.0289	0.1350	-0.2934	0.2356	-0.21	0.8303

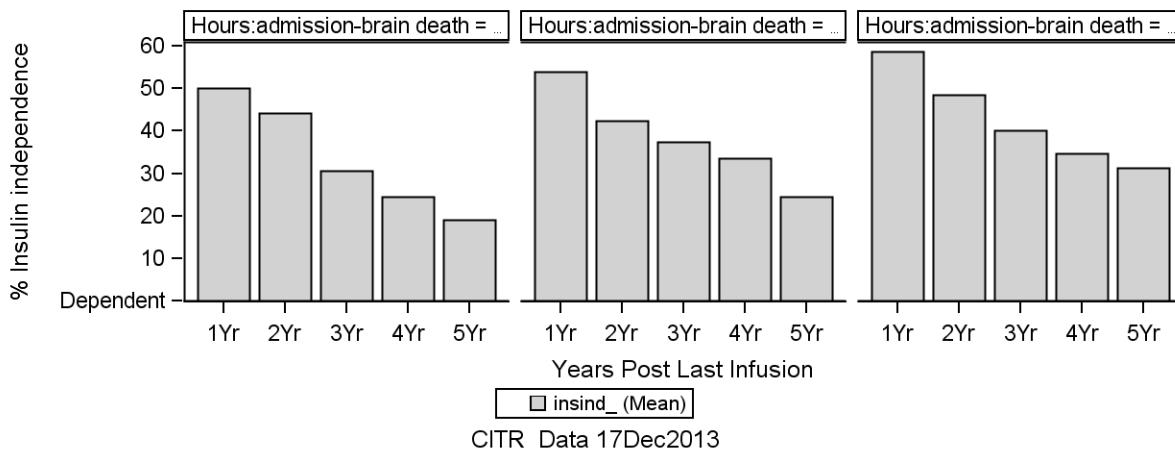
### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.0578	0.5573	-1.1501	1.0345	-0.10	0.9174
yrspli	-0.2579	0.0794	-0.4135	-0.1022	-3.25	0.0012
totbili_mean_c	0.1575	0.2012	-0.2369	0.5519	0.78	0.4338

Insulin independence



Hours:admission-brain death	Years Post Last Infusion				
	1	2	3	4	5
<16		58	52	49	45
16-<60	206	191	177	161	143

	Years Post Last Infusion				
	1	2	3	4	5
>=60	111	101	95	81	67
Total	375	344	321	287	252

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2426	0.3977	-0.5370 1.0221	0.61	0.5419
yrspli	-0.3859	0.1201	-0.6212 -0.1505	-3.21	0.0013
admtodth_mean_c	0.0693	0.1775	-0.2786 0.4171	0.39	0.6964
yrspli*admtodth_mean	0.0489	0.0520	-0.0530 0.1509	0.94	0.3465

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.0172	0.3161	-0.6023 0.6367	0.05	0.9566
yrspli	-0.2808	0.0308	-0.3412 -0.2204	-9.11	<.0001
admtodth_mean_c	0.1756	0.1392	-0.0973 0.4484	1.26	0.2073

Testing at 4-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.6512	1.4167	-2.1255 3.4279	0.46	0.6458
yrspli	-0.4557	0.3135	-1.0702 0.1588	-1.45	0.1461
admtodth_mean_c	-0.1694	0.6016	-1.3484 1.0097	-0.28	0.7783
yrspli*admtodth_mean	0.0933	0.1325	-0.1664 0.3530	0.70	0.4814

### The GENMOD Procedure

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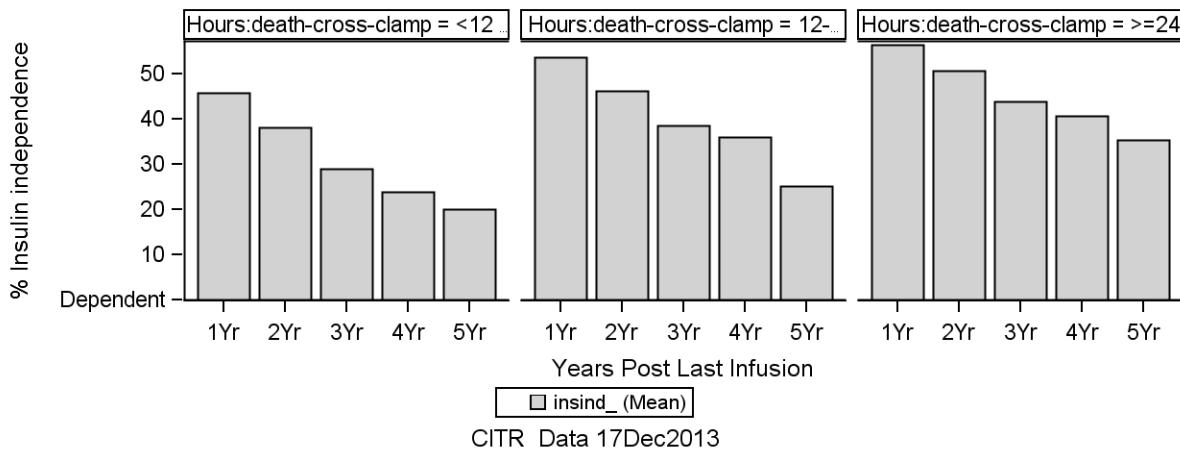
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-0.2115	0.5664	-1.3216	0.8986	-0.37	0.7088
<i>yrspli</i>	-0.2552	0.0844	-0.4206	-0.0899	-3.03	0.0025
<i>admtodth_mean_c</i>	0.2324	0.1870	-0.1341	0.5988	1.24	0.2139

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Insulin independence



Years Post Last Infusion					
	1	2	3	4	5
<i>Hours:death-cross-clamp</i>					
<12 hrs	83	79	76	67	60
12-<24	276	249	224	203	176
>=24	103	81	73	64	54
<i>Total</i>	462	409	373	334	290

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Testing at 1-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.0305	0.3471	-0.6498	0.7107	0.09	0.9300
<i>yrspli</i>	-0.3614	0.0962	-0.5498	-0.1729	-3.76	0.0002
<i>dthtoclp_mean_c</i>	0.1521	0.1637	-0.1688	0.4729	0.93	0.3529
<i>yrspli*dthtoclp_mean</i>	0.0476	0.0455	-0.0415	0.1367	1.05	0.2952

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***The GENMOD Procedure***

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-0.1600	0.2968	-0.7418	0.4217	-0.54	0.5898
<i>yrspli</i>	-0.2649	0.0284	-0.3206	-0.2092	-9.33	<.0001
<i>dthtoclp_mean_c</i>	0.2476	0.1362	-0.0193	0.5144	1.82	0.0690

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.5418	1.2528	-1.9136	2.9973	0.43	0.6654
<i>yrspli</i>	-0.4935	0.2807	-1.0437	0.0566	-1.76	0.0787
<i>dthtoclp_mean_c</i>	0.0032	0.5571	-1.0887	1.0950	0.01	0.9954
<i>yrspli*dthtoclp_mean</i>	0.0967	0.1235	-0.1454	0.3387	0.78	0.4337

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***The GENMOD Procedure***

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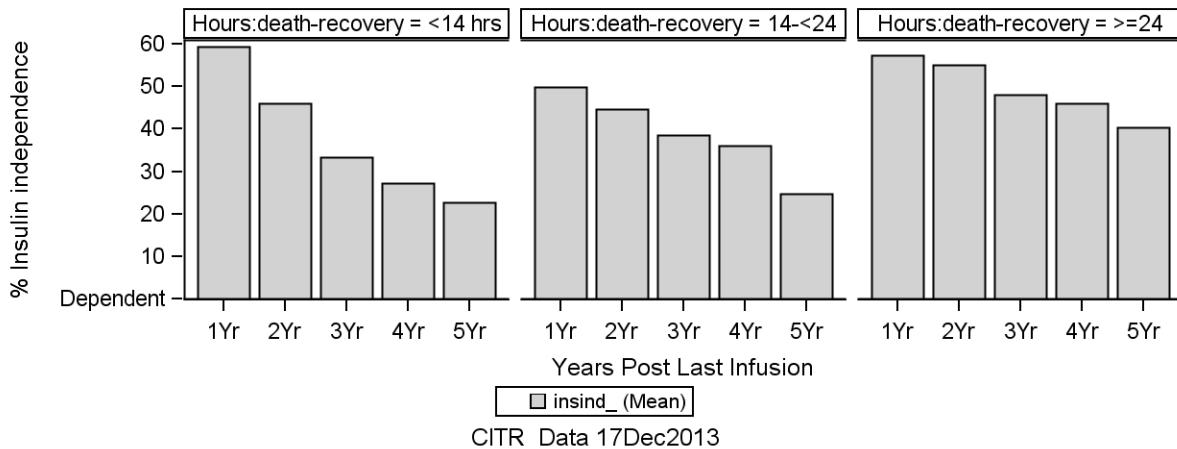
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-0.3036	0.5122	-1.3075	0.7004	-0.59	0.5534
<i>yrspli</i>	-0.2960	0.0786	-0.4501	-0.1418	-3.76	0.0002
<i>dthtoclp_mean_c</i>	0.4179	0.1805	0.0641	0.7716	2.32	0.0206

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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Hours:death-recovery</i>					
<14 hrs	86	85	78	70	66
14-24	197	173	153	139	117
>=24	96	78	73	61	52
Total	379	336	304	270	235

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.4942	0.3476	-0.1870 1.1754	1.42	0.1550
yrspli	-0.4506	0.0955	-0.6379 -0.2634	-4.72	<.0001
dhtorec_mean_c	-0.0708	0.1635	-0.3912 0.2496	-0.43	0.6648
yrspli*dhtorec_mean	0.1066	0.0445	0.0193 0.1938	2.39	0.0166

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.0461	0.2971	-0.5363 0.6285	0.16	0.8767
yrspli	-0.2375	0.0300	-0.2963 -0.1787	-7.92	<.0001
dhtorec_mean_c	0.1566	0.1352	-0.1084 0.4216	1.16	0.2469

Testing at 4-5 yr

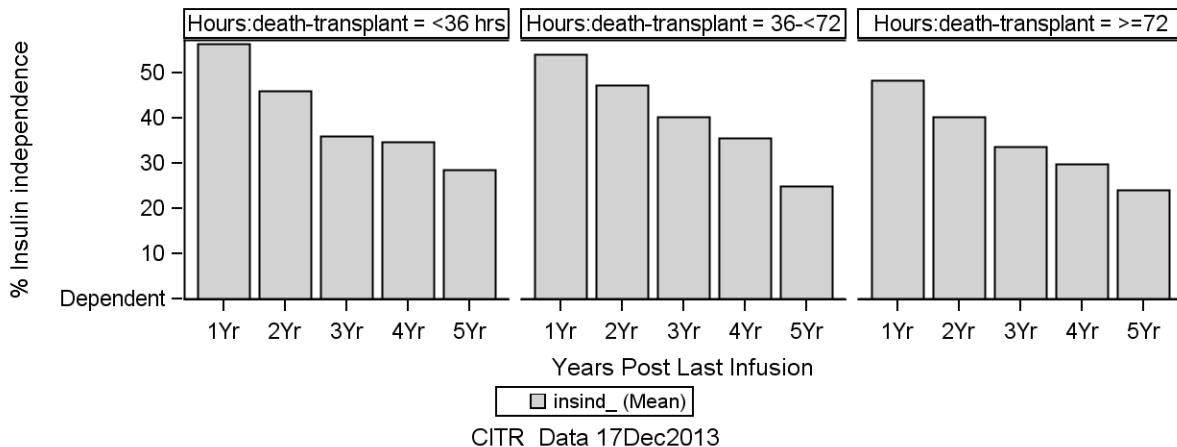
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.1736	1.0959	-2.3215	1.9743	-0.16	0.8741
yrspli	-0.3138	0.2400	-0.7843	0.1566	-1.31	0.1910
dthtorec_mean_c	0.2616	0.4977	-0.7138	1.2371	0.53	0.5991
yrspli*dthtorec_mean	0.0407	0.1079	-0.1707	0.2522	0.38	0.7058

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.5257	0.5133	-1.5317	0.4803	-1.02	0.3057
yrspli	-0.2320	0.0777	-0.3842	-0.0798	-2.99	0.0028
dthtorec_mean_c	0.4373	0.1831	0.0784	0.7961	2.39	0.0169

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Hours:death-transplant</i>					
<36 hrs	101	98	97	95	91
36-72	261	222	199	174	149
>=72	116	102	89	74	58
Total	478	422	385	343	298

Testing at 1-5 yr

**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates

Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.6335	0.3118	0.0224	1.2446	2.03	0.0422
yrspli	-0.2948	0.0873	-0.4660	-0.1237	-3.38	0.0007
dthtotx_mean_c	-0.1411	0.1460	-0.4273	0.1451	-0.97	0.3340
yrspli*dthtotx_mean_c	0.0142	0.0422	-0.0684	0.0969	0.34	0.7360

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**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates

Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.5756	0.2627	0.0607	1.0906	2.19	0.0285
yrspli	-0.2675	0.0278	-0.3221	-0.2130	-9.61	<.0001
dthtotx_mean_c	-0.1116	0.1194	-0.3456	0.1223	-0.94	0.3497

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Testing at 4-5 yr

**The GENMOD Procedure**

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Analysis Of GEE Parameter Estimates

Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.6228	0.9821	-1.3020	2.5476	0.63	0.5260
yrspli	-0.2715	0.2141	-0.6911	0.1480	-1.27	0.2046
dthtotx_mean_c	-0.0705	0.4994	-1.0493	0.9083	-0.14	0.8877
yrspli*dthtotx_mean_c	-0.0080	0.1098	-0.2233	0.2073	-0.07	0.9418

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**The GENMOD Procedure**

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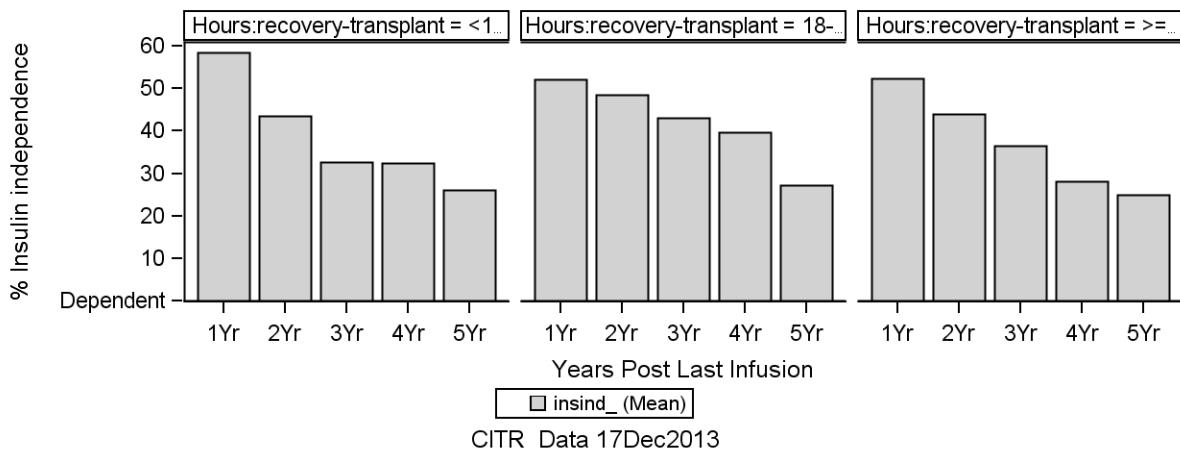
Analysis Of GEE Parameter Estimates

Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.6885	0.4640	-0.2209	1.5978	1.48	0.1378
yrspli	-0.2867	0.0759	-0.4354	-0.1381	-3.78	0.0002
dthtotx_mean_c	-0.1051	0.1576	-0.4140	0.2038	-0.67	0.5048

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## Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Hours:recovery-transplant</i>					
<18 hrs	89	85	80	77	73
18-48	215	186	165	141	121
>=48	111	98	85	75	60
Total	415	369	330	293	254

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.5665	0.3362	-0.0924 1.2254	1.69	0.0920
yrspli	-0.3034	0.0946	-0.4888 -0.1181	-3.21	0.0013
rectotx_mean_c	-0.1135	0.1549	-0.4170 0.1901	-0.73	0.4637
yrspli*rectotx_mean_c	0.0304	0.0430	-0.0538 0.1145	0.71	0.4798

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.4348	0.2757	-0.1055 0.9752	1.58	0.1148
yrspli	-0.2433	0.0289	-0.3000 -0.1867	-8.41	<.0001
rectotx_mean_c	-0.0478	0.1252	-0.2932 0.1977	-0.38	0.7028

CITR Data 17Dec2013

Testing at 4-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	1.3292	0.8543	-0.3452	3.0037	1.56	0.1197
yrspli	-0.4431	0.1818	-0.7994	-0.0868	-2.44	0.0148
rectotx_mean_c	-0.5489	0.3912	-1.3157	0.2179	-1.40	0.1606
yrspli*rectotx_mean_	0.1136	0.0828	-0.0486	0.2758	1.37	0.1700

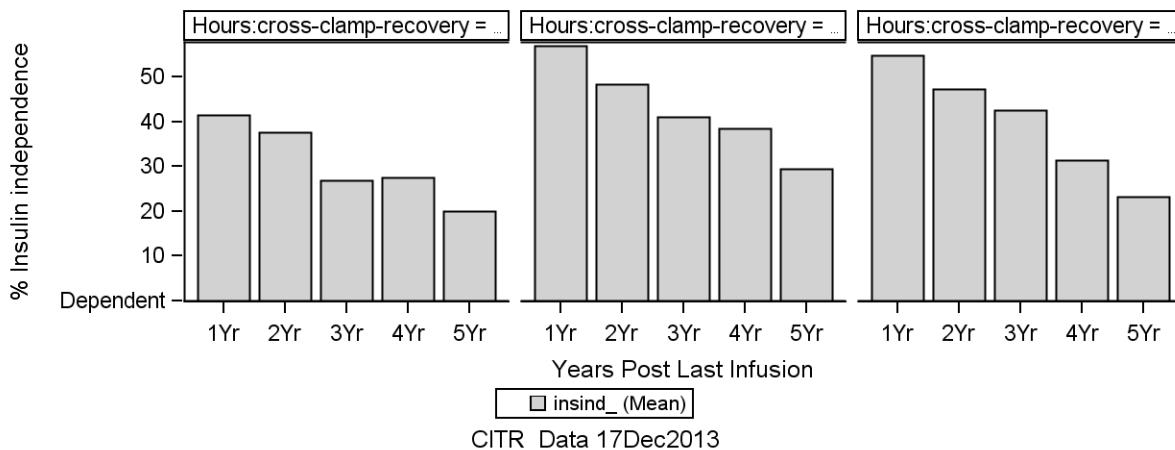
### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3805	0.4747	-0.5498	1.3108	0.80	0.4227
yrspli	-0.2234	0.0716	-0.3637	-0.0832	-3.12	0.0018
rectotx_mean_c	-0.0595	0.1635	-0.3799	0.2609	-0.36	0.7158

Insulin independence



Years Post Last Infusion					
	1	2	3	4	5
Hours:cross-clamp-recovery					
<0.5 hrs	70	64	56	51	45
0.5-<1.0	234	211	198	175	150

	Years Post Last Infusion				
	1	2	3	4	5
$\geq 1.0$	108	91	73	64	56
Total	412	366	327	290	251

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.1970	0.3743	-0.9306 0.5367	-0.53	0.5987
yrspli	-0.2130	0.1012	-0.4114 -0.0145	-2.10	0.0354
clptorec_mean_c	0.2603	0.1758	-0.0842 0.6049	1.48	0.1386
yrspli*clptorec_mean	-0.0159	0.0473	-0.1086 0.0767	-0.34	0.7359

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.1321	0.3052	-0.7302 0.4661	-0.43	0.6652
yrspli	-0.2460	0.0295	-0.3038 -0.1883	-8.35	<.0001
clptorec_mean_c	0.2284	0.1388	-0.0437 0.5005	1.65	0.0999

Testing at 4-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

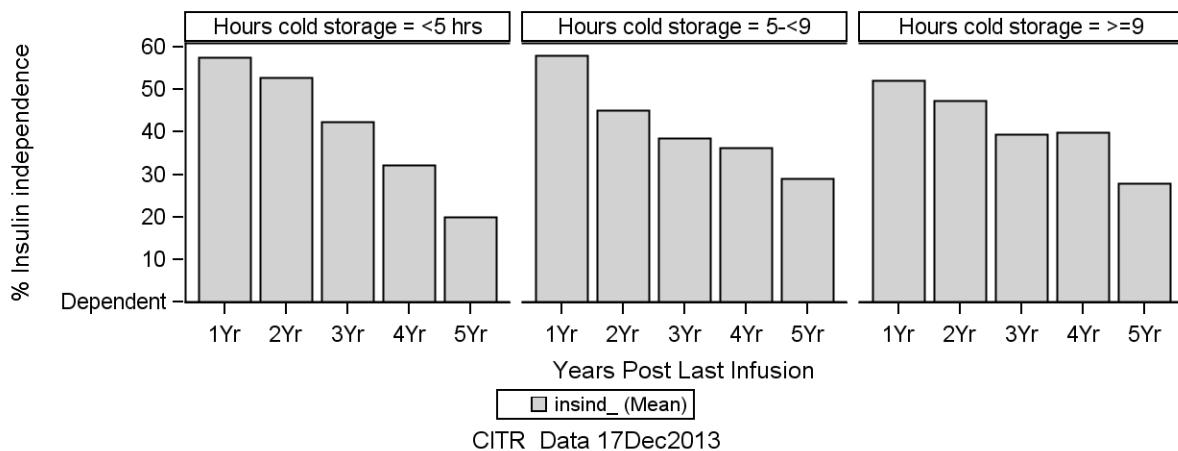
##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.3375	1.0831	-2.4603 1.7853	-0.31	0.7553
yrspli	-0.0971	0.2302	-0.5483 0.3542	-0.42	0.6733
clptorec_mean_c	0.2977	0.5217	-0.7247 1.3202	0.57	0.5682
yrspli*clptorec_mean	-0.0628	0.1116	-0.2816 0.1560	-0.56	0.5737

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.2173	0.5027	-0.7680	1.2026	0.43	0.6655
yrspli	-0.2262	0.0724	-0.3681	-0.0843	-3.12	0.0018
clptorec_mean_c	0.0277	0.1837	-0.3323	0.3878	0.15	0.8801

Insulin independence



Years Post Last Infusion					
Hours cold storage					
<5 hrs	80	70	66	56	50
5-9	257	240	224	201	176
>=9	102	91	84	78	68
Total	439	401	374	335	294

Testing at 1-5 yr

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.9571	0.3660	0.2398	1.6744	2.62	0.0089
yrspli	-0.4344	0.0993	-0.6290	-0.2397	-4.37	<.0001
coldstor_mean_c	-0.2412	0.1679	-0.5703	0.0878	-1.44	0.1508
yrspli*coldstor_mean	0.0818	0.0443	-0.0050	0.1685	1.85	0.0647

### The GENMOD Procedure

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.5734	0.2952	-0.0051	1.1520	1.94	0.0521
<i>yrspli</i>	-0.2655	0.0274	-0.3192	-0.2119	-9.70	<.0001
<i>coldstor_mean_c</i>	-0.0567	0.1348	-0.3209	0.2075	-0.42	0.6739

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.7392	1.1353	-1.4859	2.9643	0.65	0.5150
<i>yrspli</i>	-0.4069	0.2439	-0.8850	0.0712	-1.67	0.0953
<i>coldstor_mean_c</i>	-0.0494	0.5022	-1.0337	0.9349	-0.10	0.9216
<i>yrspli*coldstor_mean</i>	0.0523	0.1069	-0.1573	0.2618	0.49	0.6249

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***The GENMOD Procedure***

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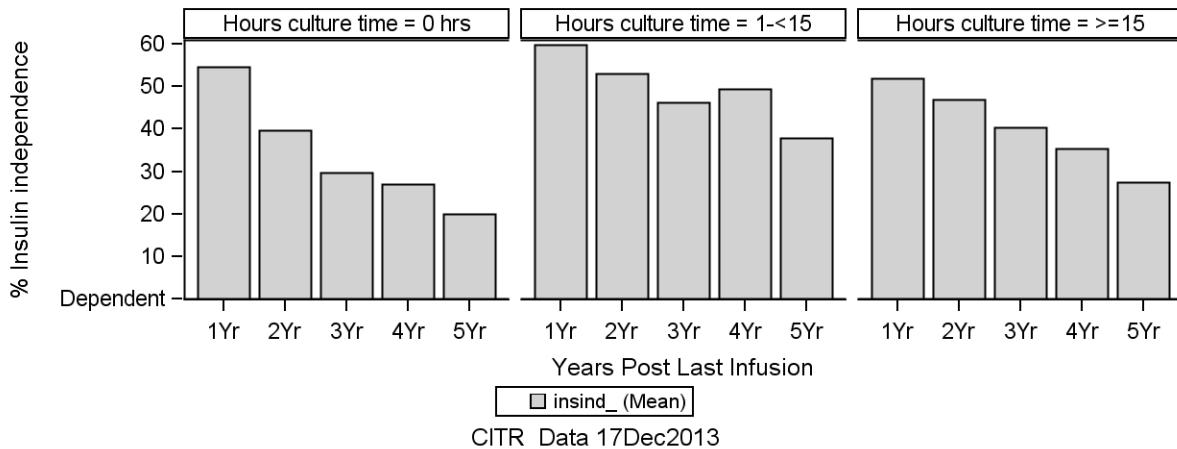
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2662	0.4975	-0.7088	1.2413	0.54	0.5925
<i>yrspli</i>	-0.2979	0.0724	-0.4399	-0.1560	-4.11	<.0001
<i>coldstor_mean_c</i>	0.1776	0.1760	-0.1673	0.5226	1.01	0.3129

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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Hours culture time</i>					
0 hrs	101	96	91	89	85
1-15	92	81	78	71	66
>=15	255	216	186	159	128
<i>Total</i>	448	393	355	319	279

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.5399	0.3201	-0.0875 1.1674	1.69	0.0917
yrspli	-0.4011	0.0924	-0.5821 -0.2201	-4.34	<.0001
cultime_mean_c	-0.0780	0.1290	-0.3309 0.1750	-0.60	0.5457
yrspli*cultime_mean_c	0.0609	0.0367	-0.0111 0.1329	1.66	0.0976

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2626	0.2598	-0.2466 0.7718	1.01	0.3121
yrspli	-0.2647	0.0292	-0.3219 -0.2075	-9.07	<.0001
cultime_mean_c	0.0459	0.1022	-0.1545 0.2463	0.45	0.6534

Testing at 4-5 yr

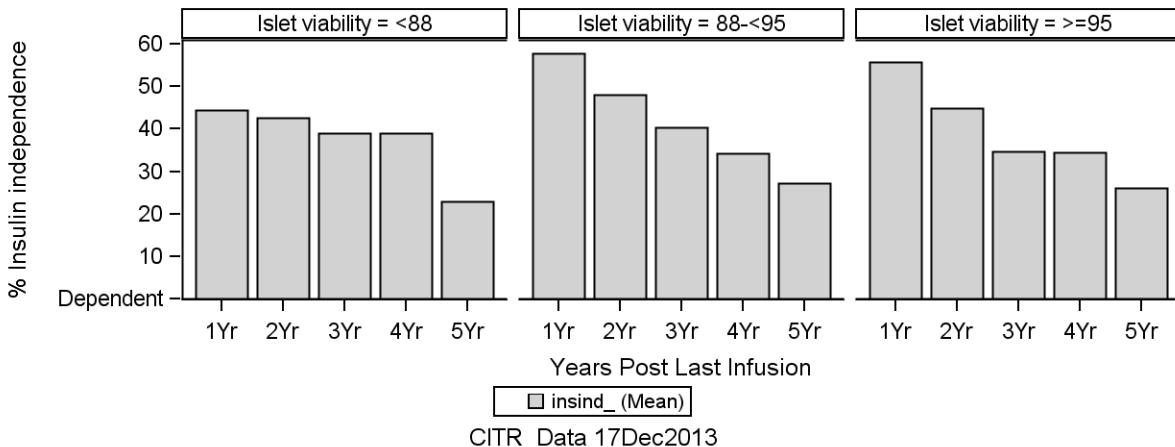
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.6926	0.8212	-0.9170	2.3022	0.84	0.3990
yrspli	-0.3877	0.1763	-0.7333	-0.0421	-2.20	0.0279
cultime_mean_c	-0.1068	0.3455	-0.7840	0.5704	-0.31	0.7573
yrspli*cultime_mean_c	0.0586	0.0740	-0.0864	0.2036	0.79	0.4283

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1380	0.4458	-0.7357	1.0118	0.31	0.7569
yrspli	-0.2589	0.0716	-0.3992	-0.1187	-3.62	0.0003
cultime_mean_c	0.1455	0.1314	-0.1120	0.4029	1.11	0.2680

Insulin independence



Islet viability	Years Post Last Infusion				
	1	2	3	4	5
<88	133	108	90	77	61
88-<95	194	171	159	146	129
>=95	122	114	107	96	88
Total	449	393	356	319	278

Testing at 1-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.0714	0.2947	-0.6490	0.5061	-0.24	0.8085
yrspli	-0.1312	0.0817	-0.2913	0.0289	-1.61	0.1083
iptviab_mean_c	0.2015	0.1389	-0.0707	0.4737	1.45	0.1469
yrspli*iptviab_mean_	-0.0611	0.0392	-0.1379	0.0158	-1.56	0.1193

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***The GENMOD Procedure***

*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1746	0.2502	-0.3158	0.6650	0.70	0.4852
yrspli	-0.2571	0.0285	-0.3131	-0.2012	-9.01	<.0001
iptviab_mean_c	0.0809	0.1143	-0.1432	0.3049	0.71	0.4792

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Testing at 4-5 yr

***The GENMOD Procedure***

*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	1.8555	1.1321	-0.3634	4.0743	1.64	0.1012
yrspli	-0.5634	0.2475	-1.0485	-0.0782	-2.28	0.0228
iptviab_mean_c	-0.5904	0.4868	-1.5445	0.3637	-1.21	0.2252
yrspli*iptviab_mean_	0.1229	0.1052	-0.0832	0.3290	1.17	0.2424

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***The GENMOD Procedure***

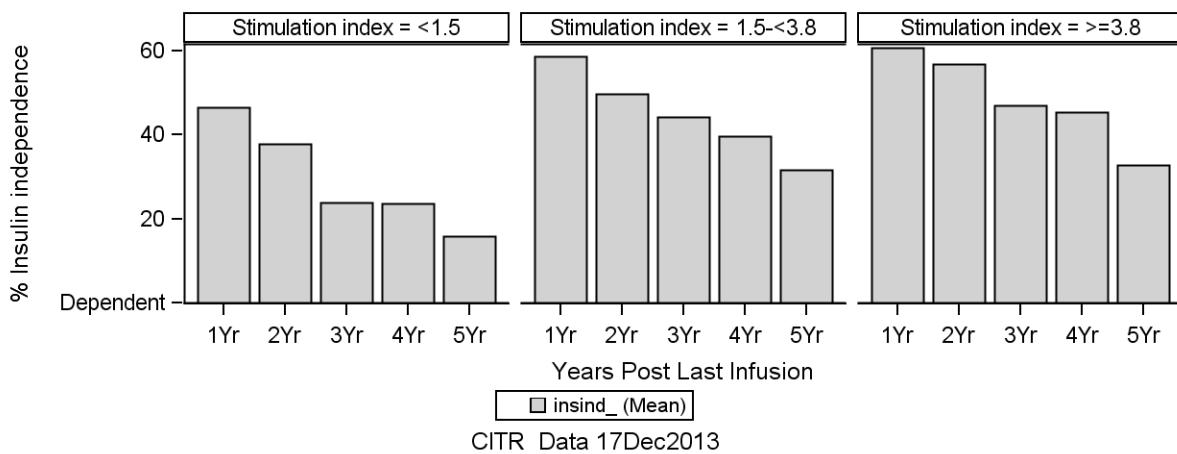
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.7418	0.4808	-0.2005	1.6840	1.54	0.1228
yrspli	-0.3066	0.0761	-0.4558	-0.1573	-4.03	<.0001
iptviab_mean_c	-0.0567	0.1556	-0.3617	0.2483	-0.36	0.7157

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## Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Stimulation index</i>					
<1.5	84	74	63	55	51
1.5-3.8	244	210	195	179	152
>=3.8	99	88	83	73	64
Total	427	372	341	307	267

Testing at 1-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.0029	0.3582	-0.7048 0.6991	-0.01	0.9936
yrspli	-0.3251	0.1003	-0.5217 -0.1285	-3.24	0.0012
isstimin_mean_c	0.2440	0.1680	-0.0852 0.5732	1.45	0.1464
yrspli*isstimin_mean	0.0239	0.0452	-0.0647 0.1126	0.53	0.5967

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.1108	0.2933	-0.6856 0.4640	-0.38	0.7056
yrspli	-0.2751	0.0298	-0.3335 -0.2167	-9.23	<.0001
isstimin_mean_c	0.2974	0.1357	0.0314 0.5634	2.19	0.0284

CITR Data 17Dec2013

Testing at 4-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.0152	1.2718	-2.5080 2.4775	-0.01	0.9904
yrspli	-0.3452	0.2744	-0.8830 0.1927	-1.26	0.2085
isstimin_mean_c	0.3555	0.5899	-0.8006 1.5117	0.60	0.5467
yrspli*isstimin_mean	0.0206	0.1269	-0.2281 0.2693	0.16	0.8709

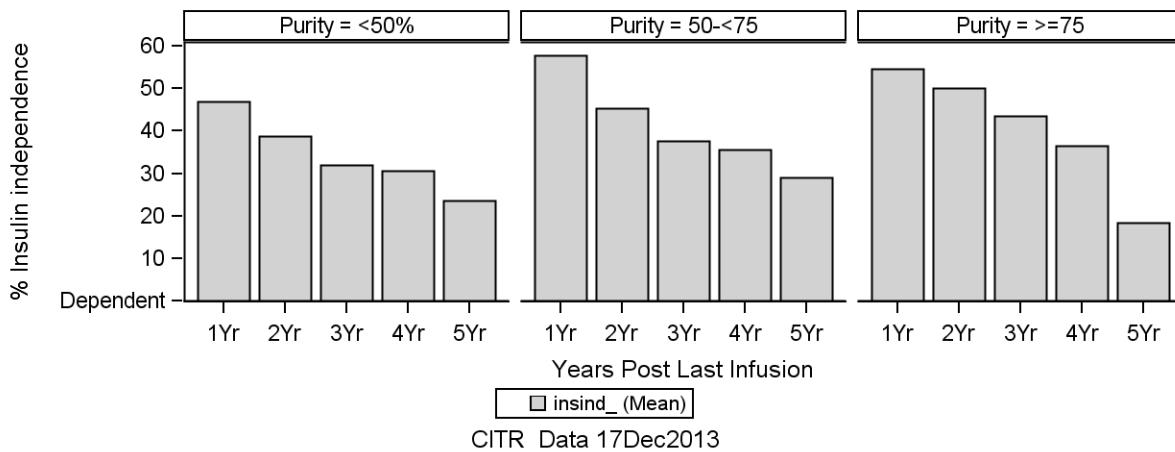
### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.2051	0.5070	-1.1987 0.7886	-0.40	0.6858
yrspli	-0.3018	0.0774	-0.4535 -0.1501	-3.90	<.0001
isstimin_mean_c	0.4459	0.1748	0.1032 0.7885	2.55	0.0108

Insulin independence



Purity	Years Post Last Infusion				
	1	2	3	4	5
<50%	96	85	75	72	64
50-<75	241	228	207	186	166

	Years Post Last Infusion				
	1	2	3	4	5
$\geq 75$	99	86	83	74	60
Total	436	399	365	332	290

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.0719	0.3364	-0.7312 0.5874	-0.21	0.8308
yrspli	-0.2519	0.0894	-0.4272 -0.0767	-2.82	0.0048
purity_c	0.2271	0.1630	-0.0923 0.5465	1.39	0.1634
yrspli*purity_c	-0.0067	0.0428	-0.0905 0.0771	-0.16	0.8756

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.0454	0.2838	-0.6016 0.5108	-0.16	0.8728
yrspli	-0.2655	0.0283	-0.3209 -0.2100	-9.39	<.0001
purity_c	0.2135	0.1327	-0.0466 0.4737	1.61	0.1076

Testing at 4-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.4124	1.0127	-2.3973 1.5724	-0.41	0.6838
yrspli	-0.1220	0.2157	-0.5448 0.3008	-0.57	0.5717
purity_c	0.4799	0.5102	-0.5201 1.4798	0.94	0.3469
yrspli*purity_c	-0.0870	0.1093	-0.3013 0.1272	-0.80	0.4259

### The GENMOD Procedure

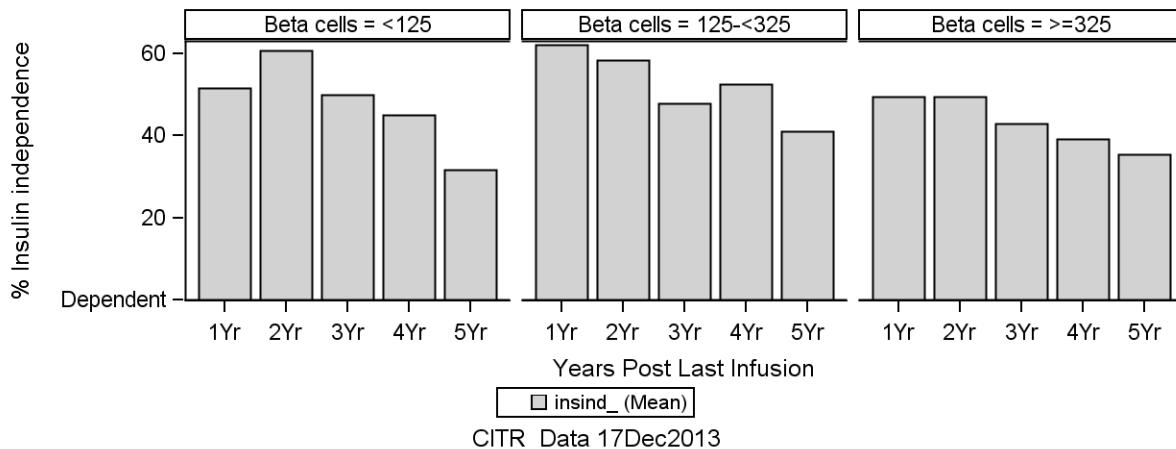
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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.3360	0.4692	-0.5836	1.2556	0.72	0.4739
yrspli	-0.2955	0.0739	-0.4403	-0.1507	-4.00	<.0001
purity_c	0.1046	0.1677	-0.2240	0.4332	0.62	0.5326

Insulin independence



Years Post Last Infusion					
Beta cells					
<125	31	28	22	20	19
125-325	58	48	44	42	39
>=325	85	75	70	64	51
Total	174	151	136	126	109

Testing at 1-5 yr

*The GENMOD Procedure*

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	1.0975	0.5716	-0.0228	2.2177	1.92	0.0548
yrspli	-0.3396	0.1529	-0.6393	-0.0400	-2.22	0.0263
totalbeta_c	-0.2739	0.2301	-0.7248	0.1771	-1.19	0.2339
yrspli*totalbeta_c	0.0464	0.0613	-0.0738	0.1667	0.76	0.4491

*The GENMOD Procedure*

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.8271	0.4568	-0.0683	1.7225	1.81	0.0702
<i>yrspli</i>	-0.2323	0.0479	-0.3262	-0.1385	-4.85	<.0001
<i>totalbeta_c</i>	-0.1590	0.1814	-0.5146	0.1966	-0.88	0.3809

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	3.0046	1.7501	-0.4254	6.4347	1.72	0.0860
<i>yrspli</i>	-0.6842	0.3703	-1.4099	0.0416	-1.85	0.0646
<i>totalbeta_c</i>	-0.8674	0.6674	-2.1755	0.4408	-1.30	0.1937
<i>yrspli*totalbeta_c</i>	0.1645	0.1405	-0.1110	0.4399	1.17	0.2418

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***The GENMOD Procedure***

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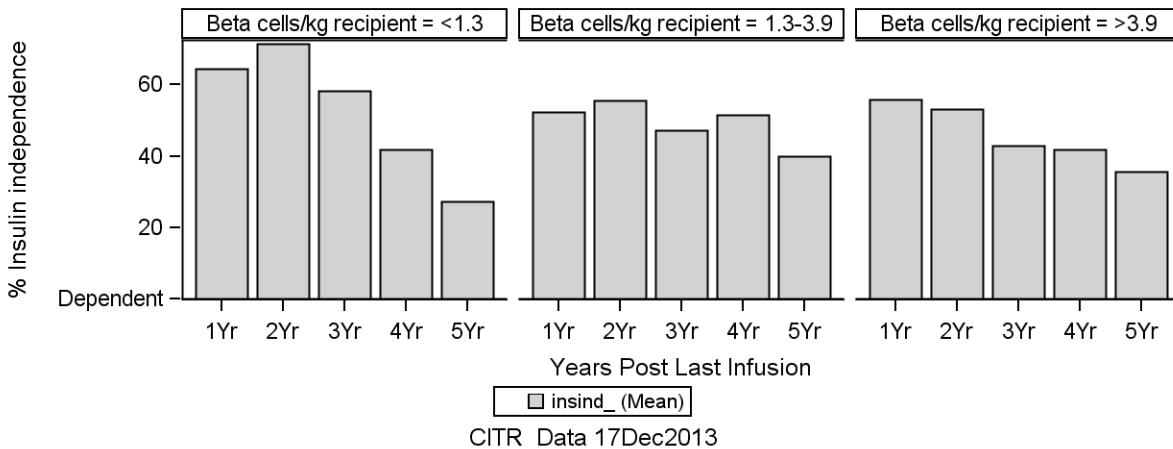
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	1.3632	0.7545	-0.1155	2.8420	1.81	0.0708
<i>yrspli</i>	-0.3086	0.1042	-0.5130	-0.1043	-2.96	0.0031
<i>totalbeta_c</i>	-0.1513	0.2345	-0.6109	0.3083	-0.65	0.5187

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Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Beta cells/kg recipient</i>					
<1.3	14	14	12	12	11
1.3-3.9	42	36	34	33	30
>3.9	88	81	77	72	62
<i>Total</i>	144	131	123	117	103

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	1.0793	0.7813	-0.4520 2.6107	1.38	0.1671
yrspli	-0.2975	0.2066	-0.7024 0.1075	-1.44	0.1499
totbetakg_c	-0.2170	0.2970	-0.7991 0.3651	-0.73	0.4650
yrspli*totbetakg_c	0.0225	0.0789	-0.1321 0.1771	0.29	0.7753

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.9209	0.5760	-0.2079 2.0498	1.60	0.1098
yrspli	-0.2411	0.0500	-0.3391 -0.1432	-4.83	<.0001
totbetakg_c	-0.1547	0.2159	-0.5778 0.2684	-0.72	0.4736

Testing at 4-5 yr

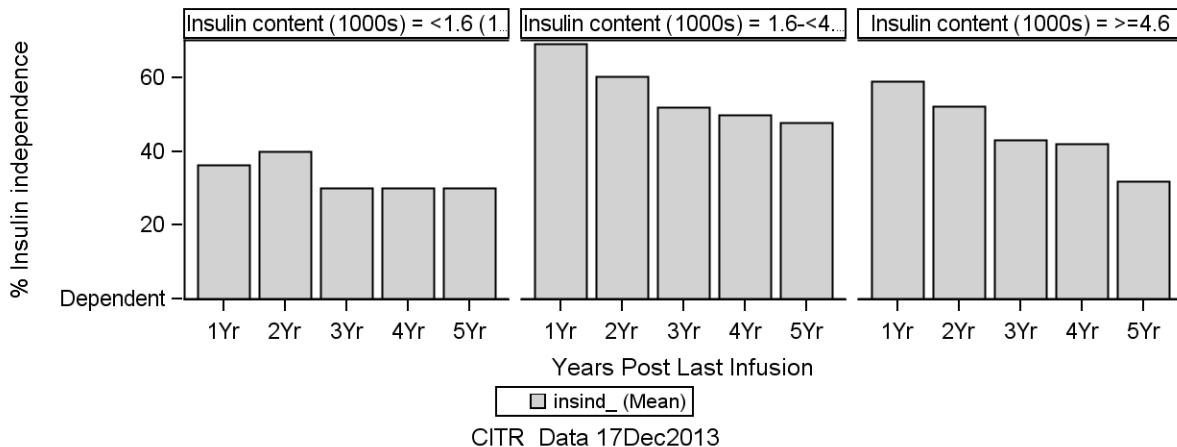
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	2.3602	2.0806	-1.7176	6.4381	1.13	0.2566
yrspli	-0.5665	0.4411	-1.4311	0.2980	-1.28	0.1990
totbetakg_c	-0.5089	0.7797	-2.0370	1.0192	-0.65	0.5140
yrspli*totbetakg_c	0.0956	0.1651	-0.2280	0.4192	0.58	0.5625

### The GENMOD Procedure

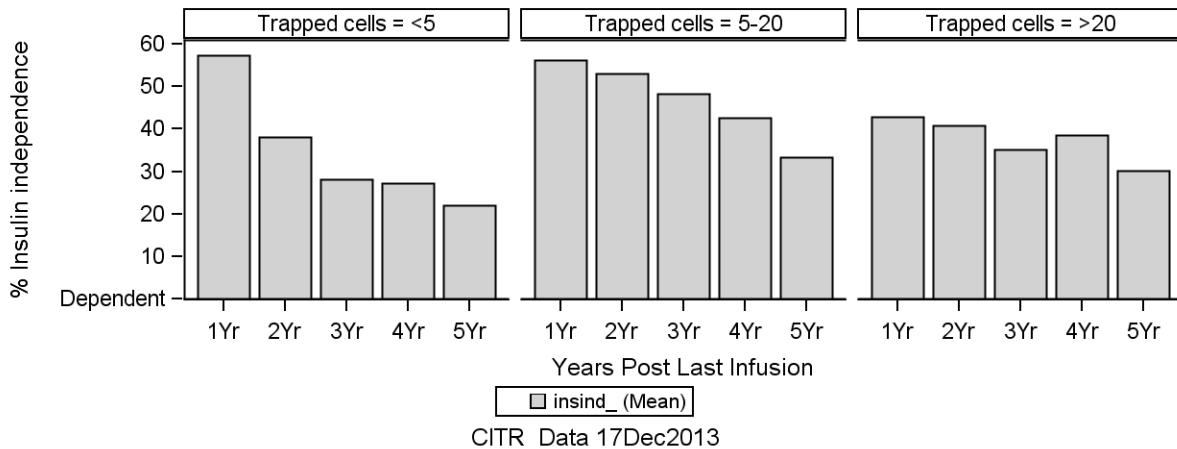
Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	1.3212	0.8534	-0.3514	2.9938	1.55	0.1216
yrspli	-0.3284	0.1100	-0.5441	-0.1128	-2.99	0.0028
totbetakg_c	-0.0922	0.2650	-0.6115	0.4271	-0.35	0.7278

Insulin independence



Insulin content (1000s)	Years Post Last Infusion				
	1	2	3	4	5
<1.6 (1000s)	11	10	10	10	10
1.6-<4.6	52	53	50	46	44
>=4.6	93	88	86	81	75
Total	156	151	146	137	129

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
Trapped cells					
<5	68	63	57	55	50
5-20	153	130	114	101	78
>20	112	86	74	65	60
Total	333	279	245	221	188

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.9334	0.3686	0.2111	1.6558	2.53	0.0113
yrspli	-0.4051	0.1018	-0.6046	-0.2057	-3.98	<.0001
tottrap_c	-0.3042	0.1657	-0.6290	0.0205	-1.84	0.0663
yrspli*tottrap_c	0.0787	0.0467	-0.0128	0.1702	1.69	0.0919

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.5979	0.3142	-0.0180	1.2137	1.90	0.0571
yrspli	-0.2421	0.0350	-0.3107	-0.1735	-6.92	<.0001
tottrap_c	-0.1454	0.1361	-0.4121	0.1212	-1.07	0.2851

Testing at 4-5 yr

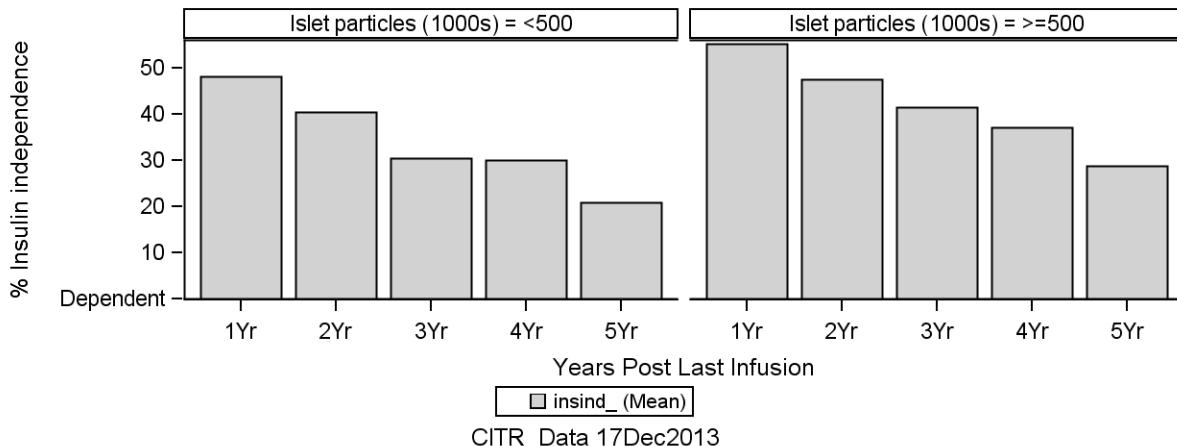
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.1814	0.9935	-2.1286	1.7658	-0.18	0.8551
yrspli	-0.1971	0.2102	-0.6090	0.2149	-0.94	0.3485
tottrap_c	0.3860	0.4552	-0.5061	1.2782	0.85	0.3964
yrspli*tottrap_c	-0.0406	0.0958	-0.2283	0.1472	-0.42	0.6720

### The GENMOD Procedure

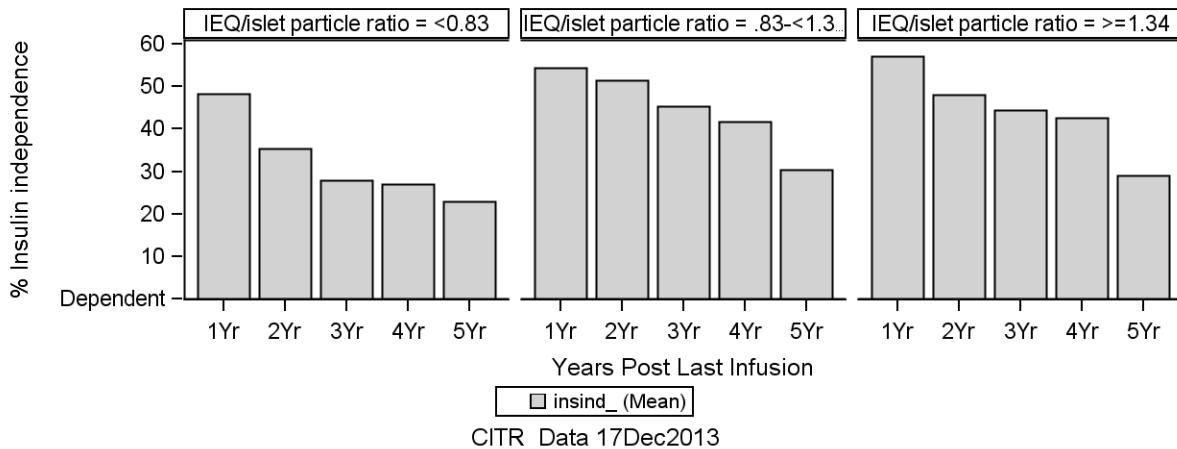
Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1864	0.5296	-0.8517	1.2245	0.35	0.7249
yrspli	-0.2824	0.0835	-0.4461	-0.1188	-3.38	0.0007
tottrap_c	0.2109	0.1821	-0.1461	0.5678	1.16	0.2470

Insulin independence



Islet particles (1000s)	Years Post Last Infusion				
	1	2	3	4	5
<500	108	89	79	70	67
≥500	320	288	263	237	202
Total	428	377	342	307	269

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>IEQ/islet particle ratio</i>					
<0.83	106	96	93	89	79
.83-<1.34	206	179	157	137	115
>=1.34	91	77	70	61	55
<i>Total</i>	403	352	320	287	249

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.0875	0.3097	-0.6945 0.5195	-0.28	0.7775
yrspli	-0.2428	0.0794	-0.3984 -0.0871	-3.06	0.0022
totieperict_c	0.2228	0.1512	-0.0736 0.5192	1.47	0.1406
yrspli*totieperict_c	-0.0049	0.0374	-0.0783 0.0684	-0.13	0.8955

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.0683	0.2761	-0.6094 0.4728	-0.25	0.8046
yrspli	-0.2524	0.0301	-0.3114 -0.1933	-8.37	<.0001
totieperict_c	0.2127	0.1322	-0.0463 0.4717	1.61	0.1075

Testing at 4-5 yr

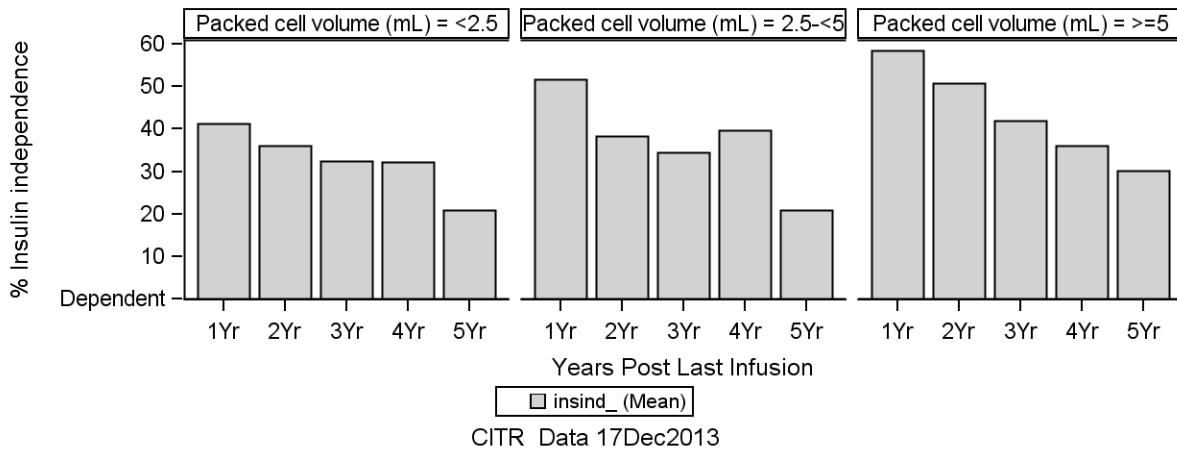
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	-0.9880	0.8643	-2.6821 0.7060	-1.14	0.2530	
yrspli	-0.0579	0.1838	-0.4181 0.3023	-0.32	0.7526	
totieperict_c	0.9319	0.4835	-0.0158 1.8795	1.93	0.0539	
yrspli*totieperict_c	-0.1421	0.1040	-0.3458 0.0617	-1.37	0.1717	

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.2029	0.4557	-0.6903 1.0961	0.45	0.6561	
yrspli	-0.3368	0.0777	-0.4891 -0.1845	-4.33	<.0001	
totieperict_c	0.3226	0.1651	-0.0010 0.6462	1.95	0.0507	

Insulin independence



Packed cell volume (mL)	Years Post Last Infusion				
	1	2	3	4	5
<2.5	46	39	37	31	24
2.5-5	91	68	58	53	43
≥5	342	312	280	252	222
Total	479	419	375	336	289

Testing at 1-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.6306	0.4293	-1.4720	0.2108	-1.47	0.1418
yrspli	-0.0645	0.1075	-0.2752	0.1462	-0.60	0.5485
pckclvol_c	0.4003	0.1578	0.0910	0.7096	2.54	0.0112
yrspli*pckclvol_c	-0.0734	0.0397	-0.1513	0.0044	-1.85	0.0646

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-0.3014	0.3724	-1.0314	0.4285	-0.81	0.4183
yrspli	-0.2621	0.0277	-0.3163	-0.2079	-9.47	<.0001
pckclvol_c	0.2747	0.1359	0.0083	0.5412	2.02	0.0433

Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	2.4363	1.4570	-0.4194	5.2920	1.67	0.0945
yrspli	-0.7726	0.3317	-1.4227	-0.1224	-2.33	0.0199
pckclvol_c	-0.7163	0.5146	-1.7249	0.2924	-1.39	0.1640
yrspli*pckclvol_c	0.1877	0.1166	-0.0408	0.4162	1.61	0.1074

***The GENMOD Procedure***

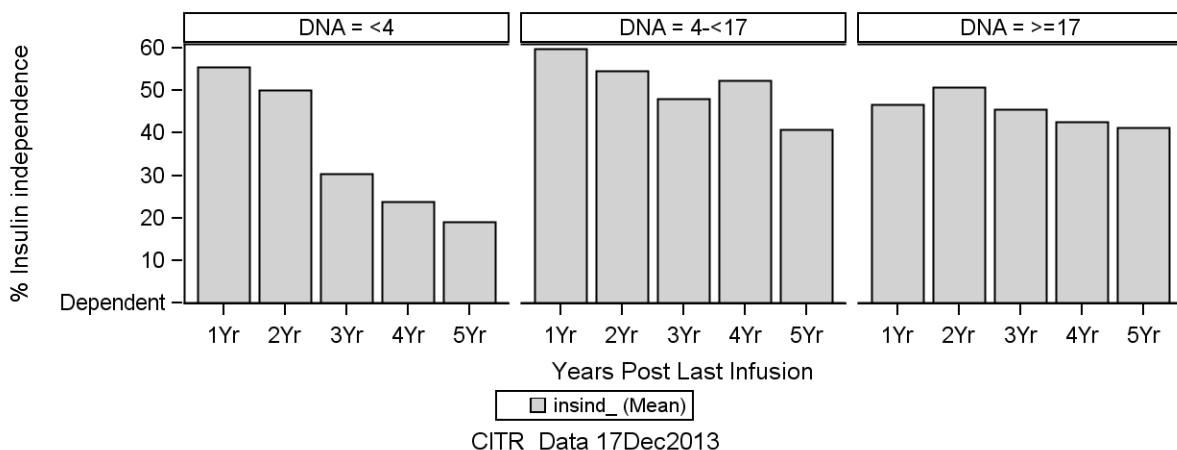
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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.2944	0.5754	-0.8334	1.4223	0.51	0.6089
yrspli	-0.2641	0.0700	-0.4013	-0.1269	-3.77	0.0002
pckclvol_c	0.0753	0.1748	-0.2673	0.4179	0.43	0.6665

## Insulin independence



		Years Post Last Infusion				
		1	2	3	4	5
DNA						
<4		27	26	23	21	21
4-<17		87	77	71	67	59
>=17		88	75	68	61	51
<i>Total</i>		202	178	162	149	131

Testing at 1-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	1.2303	0.5635	0.1258 2.3348	2.18	0.0290
yrspli	-0.5106	0.1592	-0.8226 -0.1985	-3.21	0.0013
totaldna_c	-0.3774	0.2346	-0.8373 0.0824	-1.61	0.1076
yrspli*totaldna_c	0.1357	0.0646	0.0091 0.2624	2.10	0.0357

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.4591	0.4312	-0.3860 1.3042	1.06	0.2870
yrspli	-0.2023	0.0421	-0.2847 -0.1198	-4.81	<.0001
totaldna_c	-0.0405	0.1784	-0.3901 0.3091	-0.23	0.8204

CITR Data 17Dec2013

Testing at 4-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	1.1916	1.3386	-1.4319 3.8151	0.89	0.3733
yrspli	-0.4640	0.2797	-1.0123 0.0842	-1.66	0.0971
totaldna_c	-0.1717	0.5358	-1.2218 0.8783	-0.32	0.7485
yrspli*totaldna_c	0.0908	0.1105	-0.1257 0.3073	0.82	0.4112

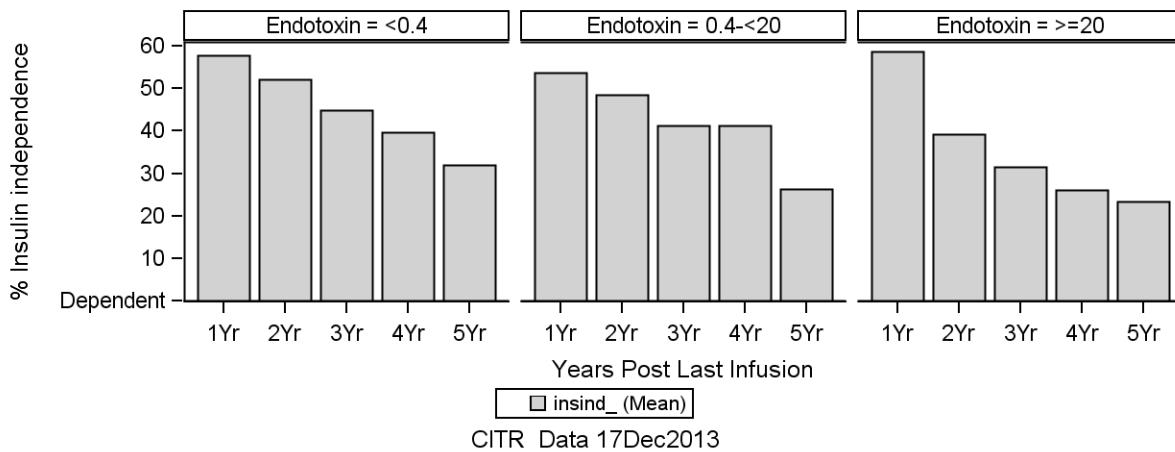
### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.3051	0.6654	-0.9990 1.6093	0.46	0.6465
yrspli	-0.2582	0.0870	-0.4287 -0.0877	-2.97	0.0030
totaldna_c	0.2200	0.2280	-0.2268 0.6668	0.97	0.3345

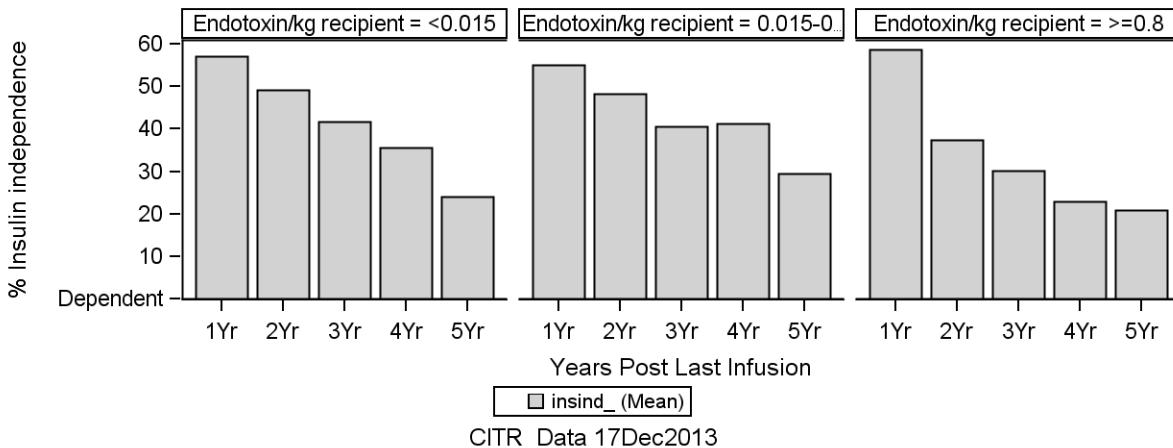
Insulin independence



Endotoxin	Years Post Last Infusion				
	1	2	3	4	5
<0.4	83	73	69	63	50
0.4-20	190	171	155	131	114

	Years Post Last Infusion				
	1	2	3	4	5
>=20	123	115	105	100	94
Total	396	359	329	294	258

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Endotoxin/kg recipient</i>					
<0.015	121	106	101	90	75
0.015-0.8	187	168	153	136	122
>=0.8	70	67	60	57	53
Total	378	341	314	283	250

Testing at 1-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.5899	0.3254	-0.0478	1.2276	1.81	0.0698
yrspli	-0.2270	0.0866	-0.3967	-0.0574	-2.62	0.0087
totendokg_c	-0.0699	0.1587	-0.3810	0.2411	-0.44	0.6595
yrspli*totendokg_c	-0.0275	0.0436	-0.1130	0.0580	-0.63	0.5287

### The GENMOD Procedure

CITR Data 17Dec2013

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.7038	0.2736	0.1676 1.2399	2.57	0.0101	
yrspli	-0.2783	0.0300	-0.3371 -0.2195	-9.28	<.0001	
totendokg_c	-0.1295	0.1306	-0.3855 0.1265	-0.99	0.3216	

Testing at 4-5 yr

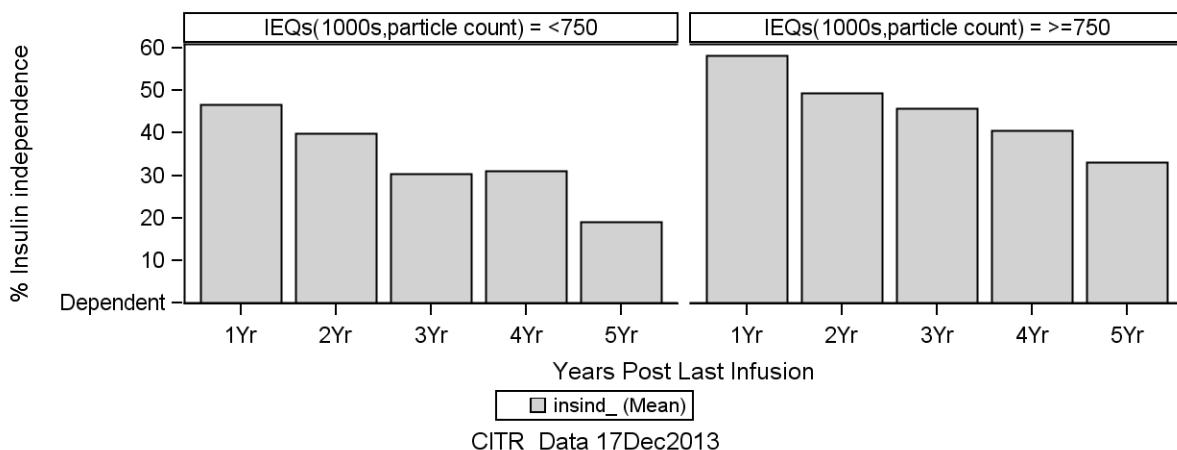
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	2.5967	1.0469	0.5447 4.6486	2.48	0.0131	
yrspli	-0.6957	0.2302	-1.1470 -0.2444	-3.02	0.0025	
totendokg_c	-1.0185	0.4845	-1.9681 -0.0689	-2.10	0.0355	
yrspli*totendokg_c	0.2008	0.1055	-0.0060 0.4076	1.90	0.0570	

### The GENMOD Procedure

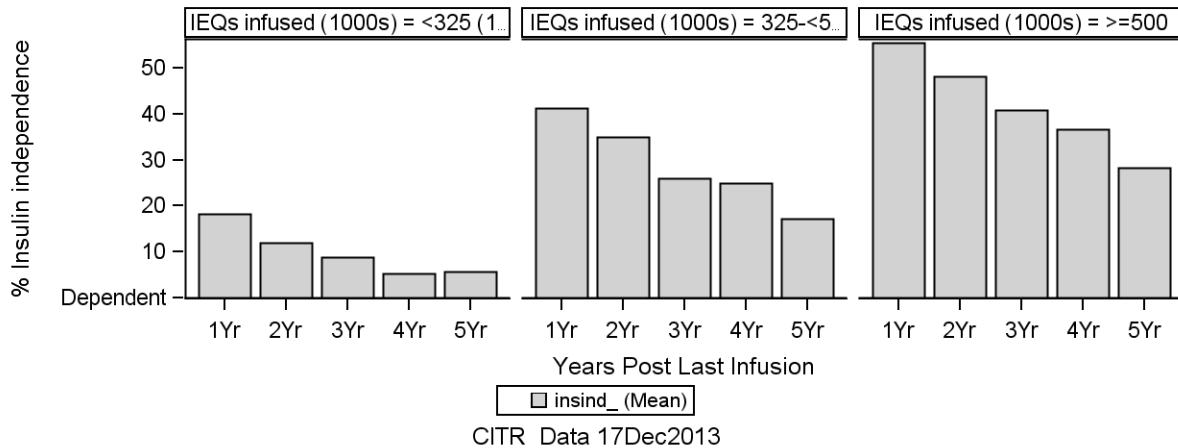
Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.9907	0.5012	0.0084 1.9729	1.98	0.0481	
yrspli	-0.3186	0.0829	-0.4811 -0.1560	-3.84	0.0001	
totendokg_c	-0.1641	0.1651	-0.4876 0.1595	-0.99	0.3203	

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>IEQs(1000s,particle count)</i>					
<750		202	163	148	132
>=750		256	231	206	185
Total	458	394	354	317	275

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>IEQs infused (1000s)</i>					
<325 (1000s)	33	25	23	19	18
325-<500	80	66	54	48	41
>=500	514	443	378	323	273
Total	627	534	455	390	332

Testing at 1-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-1.7483	0.5995	-2.9233 -0.5733	-2.92	0.0035
yrspli	-0.1810	0.1900	-0.5533 0.1913	-0.95	0.3406
ieqinf_c	0.7329	0.2091	0.3231 1.1428	3.51	0.0005
yrspli*ieqinf_c	-0.0275	0.0658	-0.1564 0.1015	-0.42	0.6765

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-1.6476	0.4779	-2.5842	-0.7110	-3.45	0.0006
yrspli	-0.2595	0.0260	-0.3105	-0.2086	-9.98	<.0001
ieqinf_c	0.6968	0.1656	0.3723	1.0213	4.21	<.0001

Testing at 4-5 yr

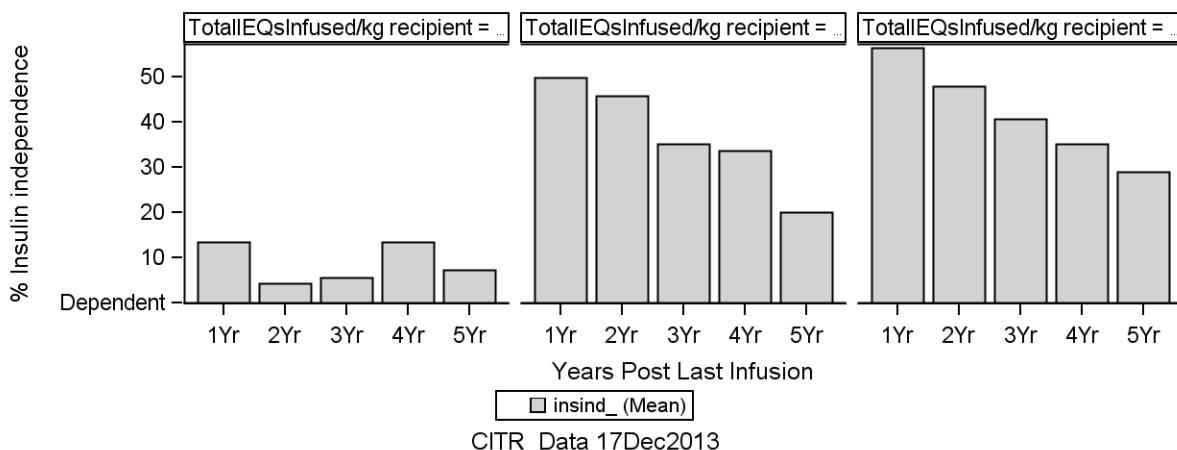
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-2.8399	1.2555	-5.3007	-0.3790	-2.26	0.0237
yrspli	-0.0224	0.2511	-0.5146	0.4697	-0.09	0.9288
ieqinf_c	1.1175	0.4652	0.2056	2.0293	2.40	0.0163
yrspli*ieqinf_c	-0.0804	0.0947	-0.2661	0.1052	-0.85	0.3958

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	-1.8637	0.7722	-3.3772	-0.3503	-2.41	0.0158
yrspli	-0.2534	0.0688	-0.3882	-0.1186	-3.68	0.0002
ieqinf_c	0.7772	0.2524	0.2826	1.2718	3.08	0.0021

Insulin independence



	Years Post Last Infusion				
	1	2	3	4	5
<i>Total</i> /EQs/Infused/kg recipient					
<5.15K	30	23	18	15	14
5.15-10.45	177	153	134	116	95
>10.45	382	331	286	246	215
<i>Total</i>	589	507	438	377	324

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-1.1629	0.4279	-2.0016 -0.3242	-2.72	0.0066
yrspli	-0.0550	0.1202	-0.2906 0.1806	-0.46	0.6473
ieqinfkg_c	0.5625	0.1589	0.2512 0.8738	3.54	0.0004
yrspli*ieqinfkg_c	-0.0768	0.0451	-0.1651 0.0115	-1.70	0.0883

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### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.8618	0.3575	-1.5625 -0.1612	-2.41	0.0159
yrspli	-0.2597	0.0263	-0.3113 -0.2081	-9.86	<.0001
ieqinfkg_c	0.4466	0.1315	0.1889 0.7042	3.40	0.0007

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Testing at 4-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	2.9164	1.7203	-0.4554 6.2882	1.70	0.0900
yrspli	-1.0544	0.3888	-1.8165 -0.2924	-2.71	0.0067
ieqinfkg_c	-0.9481	0.6216	-2.1663 0.2702	-1.53	0.1272
yrspli*ieqinfkg_c	0.2961	0.1395	0.0227 0.5695	2.12	0.0338

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### The GENMOD Procedure

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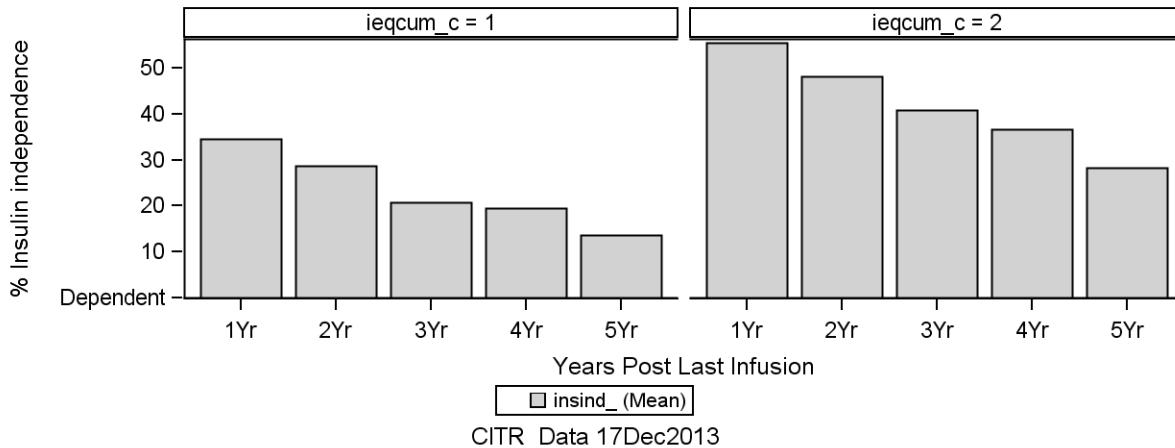
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	-0.4613	0.6040	-1.6451	0.7225	-0.76	0.4450
<i>yrspli</i>	-0.2615	0.0688	-0.3964	-0.1266	-3.80	0.0001
<i>ieqinfkg_c</i>	0.3153	0.1879	-0.0529	0.6835	1.68	0.0932

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Insulin independence



Years Post Last Infusion					
1      2      3      4      5					
<i>ieqcum_c</i>					
1	113	91	77	67	59
2	514	443	378	323	273
Total	627	534	455	390	332

Testing at 1-5 yr

*The GENMOD Procedure*

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	-1.2751	0.4815	-2.2188	-0.3313	-2.65	0.0081
<i>yrspli</i>	-0.1893	0.1469	-0.4772	0.0985	-1.29	0.1974
<i>ieqcum_c</i>	0.8565	0.2550	0.3567	1.3564	3.36	0.0008
<i>yrspli*ieqcum_c</i>	-0.0367	0.0773	-0.1881	0.1148	-0.47	0.6351

*The GENMOD Procedure*

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-1.1790	0.4016	-1.9661	-0.3919	-2.94	0.0033
<i>yrspli</i>	-0.2580	0.0260	-0.3089	-0.2072	-9.94	<.0001
<i>ieqcum_c</i>	0.8038	0.2115	0.3893	1.2183	3.80	0.0001

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-1.9085	1.2071	-4.2745	0.4575	-1.58	0.1139
<i>yrspli</i>	-0.0959	0.2456	-0.5774	0.3855	-0.39	0.6961
<i>ieqcum_c</i>	1.2017	0.6752	-0.1216	2.5250	1.78	0.0751
<i>yrspli*ieqcum_c</i>	-0.0834	0.1394	-0.3565	0.1898	-0.60	0.5497

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***The GENMOD Procedure***

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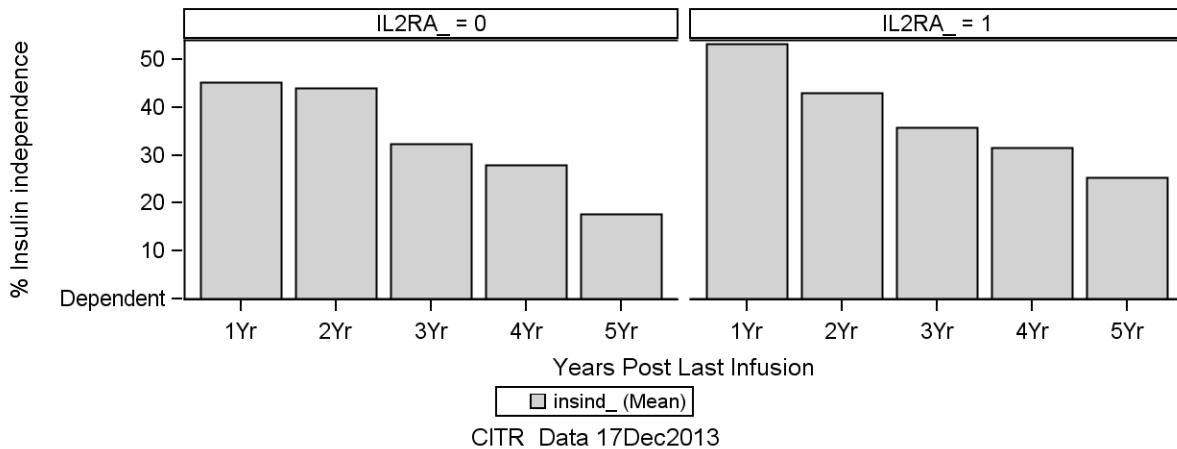
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-1.2421	0.6803	-2.5755	0.0912	-1.83	0.0679
<i>yrspli</i>	-0.2530	0.0683	-0.3870	-0.1191	-3.70	0.0002
<i>ieqcum_c</i>	0.8477	0.3285	0.2039	1.4914	2.58	0.0099

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Insulin independence



	Years Post Last Infusion					
	1	2	3	4	5	
IL2RA_	0	250	214	179	143	108
	1	408	366	331	301	268
Total		658	580	510	444	376

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.0803	0.1467	-0.2072 0.3678	0.55	0.5842
yrspli	-0.2060	0.0403	-0.2850 -0.1270	-5.11	<.0001
IL2RA_	0.2471	0.1818	-0.1093 0.6035	1.36	0.1741
yrspli*IL2RA_	-0.0877	0.0511	-0.1879 0.0126	-1.71	0.0864

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.1912	0.1297	-0.0630 0.4455	1.47	0.1405
yrspli	-0.2665	0.0249	-0.3153 -0.2177	-10.70	<.0001
IL2RA_	0.0852	0.1503	-0.2095 0.3799	0.57	0.5710

Testing at 4-5 yr

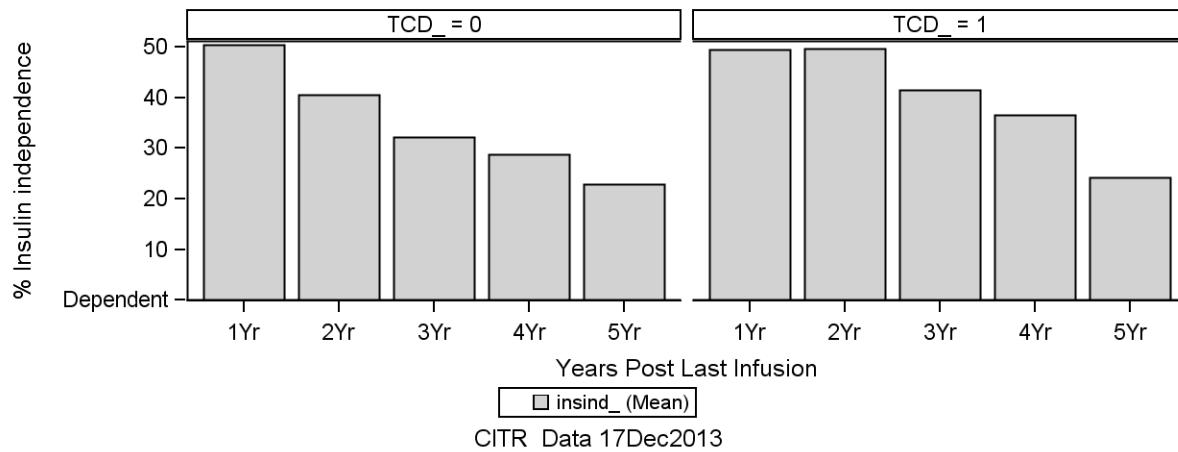
### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.7051	0.5755	-0.4229 1.8330	1.23	0.2205	
yrspli	-0.4127	0.1299	-0.6674 -0.1580	-3.18	0.0015	
IL2RA_	-0.7167	0.6701	-2.0300 0.5967	-1.07	0.2849	
yrspli*IL2RA_	0.2212	0.1494	-0.0716 0.5140	1.48	0.1386	

### The GENMOD Procedure

Analysis Of GEE Parameter Estimates						
Empirical Standard Error Estimates						
Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z	
Intercept	0.0105	0.3355	-0.6470 0.6680	0.03	0.9750	
yrspli	-0.2488	0.0640	-0.3743 -0.1233	-3.89	0.0001	
IL2RA_	0.2254	0.2204	-0.2066 0.6573	1.02	0.3065	

Insulin independence



TCD_	Years Post Last Infusion				
	1	2	3	4	5
0	448	411	380	348	314
1	210	169	130	96	62
Total	658	580	510	444	376

Testing at 1-5 yr

### The GENMOD Procedure

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.2395	0.1031	0.0373	0.4417	2.32	0.0202
<i>yrspli</i>	-0.3051	0.0308	-0.3655	-0.2447	-9.90	<.0001
<i>TCD_</i>	-0.0687	0.1892	-0.4396	0.3022	-0.36	0.7166
<i>yrspli*TCD_</i>	0.1732	0.0522	0.0709	0.2754	3.32	0.0009

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***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.1688	0.0994	-0.0260	0.3637	1.70	0.0894
<i>yrspli</i>	-0.2653	0.0252	-0.3146	-0.2159	-10.54	<.0001
<i>TCD_</i>	0.2611	0.1582	-0.0489	0.5711	1.65	0.0988

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	-0.0353	0.3350	-0.6919	0.6213	-0.11	0.9161
<i>yrspli</i>	-0.2190	0.0726	-0.3612	-0.0767	-3.02	0.0026
<i>TCD_</i>	0.9012	0.7201	-0.5101	2.3125	1.25	0.2107
<i>yrspli*TCD_</i>	-0.1364	0.1595	-0.4489	0.1762	-0.86	0.3925

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***The GENMOD Procedure***

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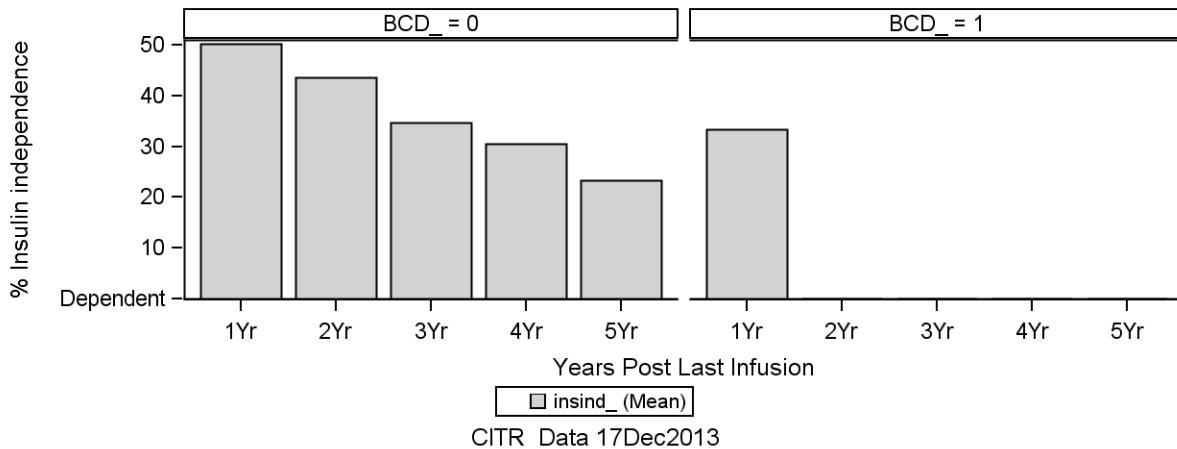
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.0721	0.3017	-0.5192	0.6634	0.24	0.8111
<i>yrspli</i>	-0.2439	0.0648	-0.3709	-0.1169	-3.76	0.0002
<i>TCD_</i>	0.3213	0.2390	-0.1472	0.7898	1.34	0.1789

---

Insulin independence



BCD_	Years Post Last Infusion				
	1	2	3	4	5
0	655	577	507	442	374
1	3	3	3	2	2
Total	658	580	510	444	376

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2483	.	.	.	.
yrspli	-0.2648	.	.	.	.
BCD_	-1450.16	.	.	.	.
yrspli*BCD_	1449.584	.	.	.	.

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2517	0.0871	0.0809 0.4225	2.89	0.0039
yrspli	-0.2662	0.0249	-0.3151 -0.2173	-10.67	<.0001
BCD_	-1.2270	1.0327	-3.2509 0.7970	-1.19	0.2348

Testing at 4-5 yr

### The GENMOD Procedure

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.6664	.	.	.	.
yrspli	-0.3720	.	.	.	.
BCD_	-22.0319	.	.	.	.
yrspli*BCD_	0.3720	.	.	.	.

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*The GENMOD Procedure*

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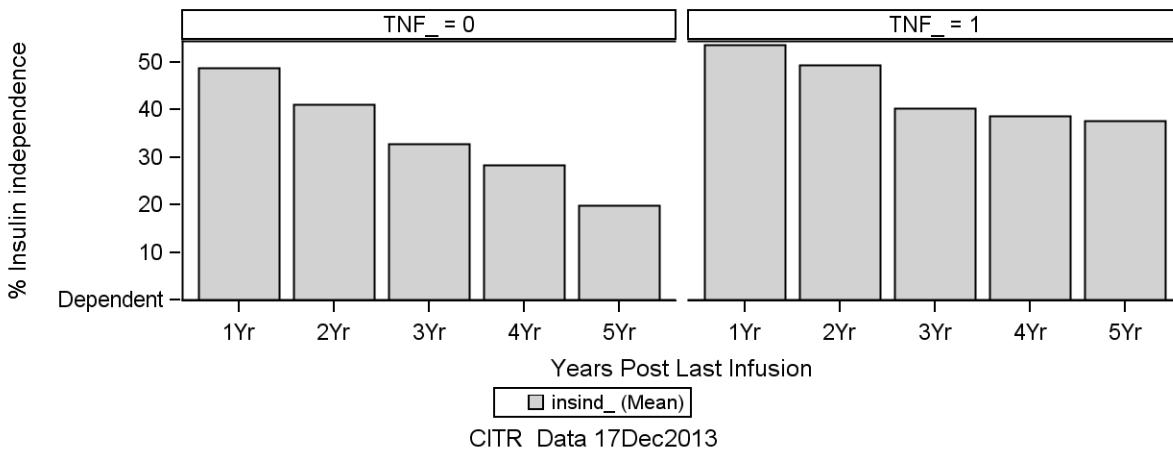
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.1631	.	.	.	.
yrspli	-0.2468	.	.	.	.
BCD_	-22.3693	.	.	.	.

---

Insulin independence



Years Post Last Infusion					
	1	2	3	4	5
TNF_					
0	462	420	388	351	307
1	196	160	122	93	69
Total	658	580	510	444	376

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Testing at 1-5 yr

**The GENMOD Procedure**

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.2069	0.1041	0.0029	0.4109	1.99	0.0468
<i>yrspli</i>	-0.2852	0.0294	-0.3428	-0.2277	-9.72	<.0001
<i>TNF_</i>	0.1123	0.1893	-0.2588	0.4834	0.59	0.5530
<i>yrspli*TNF_</i>	0.0787	0.0567	-0.0325	0.1898	1.39	0.1653

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**The GENMOD Procedure**

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.1726	0.1003	-0.0240	0.3693	1.72	0.0853
<i>yrspli</i>	-0.2666	0.0251	-0.3159	-0.2174	-10.61	<.0001
<i>TNF_</i>	0.2605	0.1591	-0.0514	0.5724	1.64	0.1016

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Testing at 4-5 yr

**The GENMOD Procedure**

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.3398	0.3292	-0.3055	0.9851	1.03	0.3021
<i>yrspli</i>	-0.3192	0.0723	-0.4610	-0.1775	-4.41	<.0001
<i>TNF_</i>	-0.7673	0.7557	-2.2484	0.7138	-1.02	0.3099
<i>yrspli*TNF_</i>	0.3112	0.1648	-0.0117	0.6342	1.89	0.0589

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**The GENMOD Procedure**

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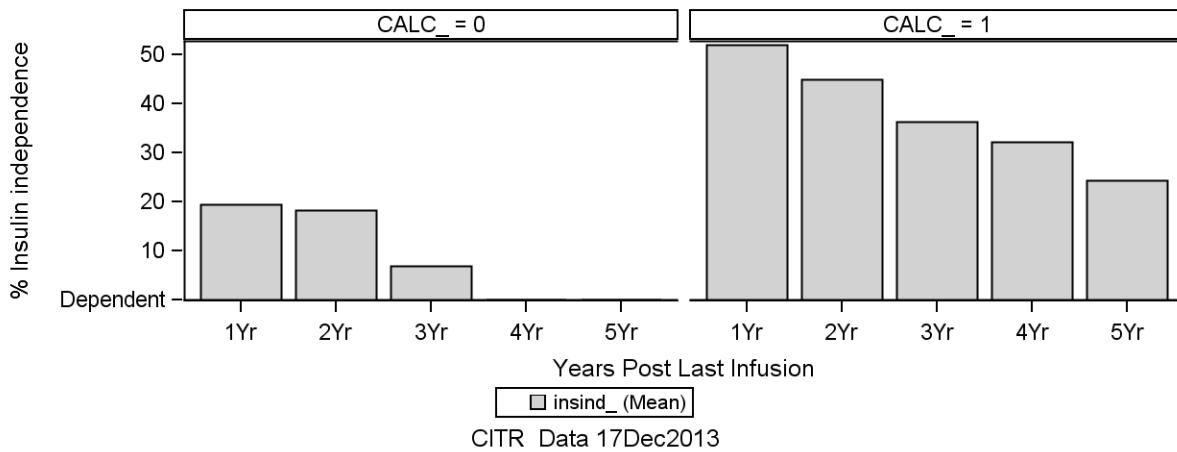
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.0343	0.3065	-0.5664	0.6350	0.11	0.9108
<i>yrspli</i>	-0.2480	0.0651	-0.3756	-0.1203	-3.81	0.0001
<i>TNF_</i>	0.5749	0.2369	0.1106	1.0392	2.43	0.0152

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Insulin independence



		Years Post Last Infusion				
		1	2	3	4	5
CALC_	0	36	33	29	23	17
	1	622	547	481	421	359
	Total	658	580	510	444	376

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-1.0181	0.4668	-1.9331 -0.1031	-2.18	0.0292
yrspli	-0.3398	0.1297	-0.5940 -0.0856	-2.62	0.0088
CALC_	1.3349	0.4753	0.4033 2.2665	2.81	0.0050
yrspli*CALC_	0.0701	0.1322	-0.1889 0.3292	0.53	0.5958

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-1.1070	0.4281	-1.9460 -0.2680	-2.59	0.0097
yrspli	-0.2707	0.0252	-0.3200 -0.2214	-10.76	<.0001
CALC_	1.4258	0.4329	0.5774 2.2741	3.29	0.0010

Testing at 4-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-23.3657	.	.	.	.
yrspli	0.0001	.	.	.	.
CALC_	24.1717	.	.	.	.
yrspli*CALC_	-0.3893	.	.	.	.

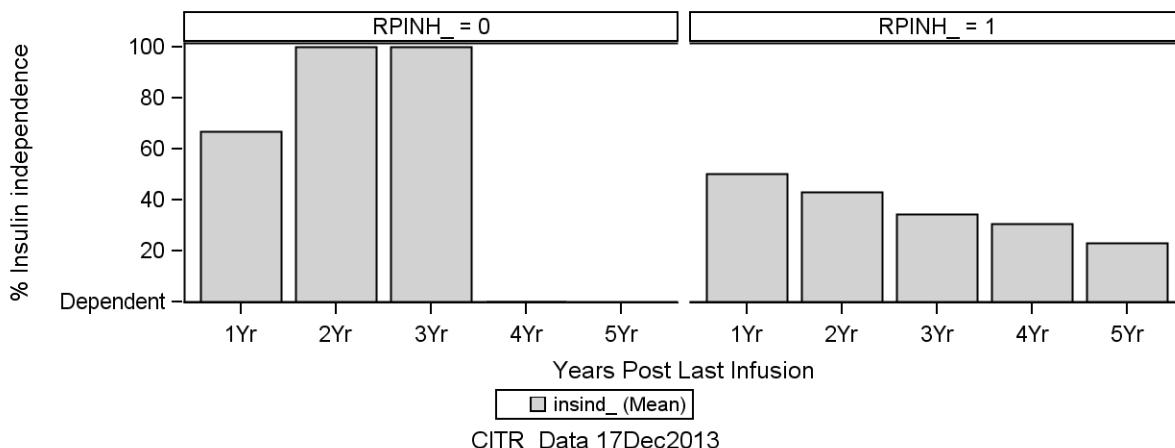
### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-23.6532	.	.	.	.
yrspli	-0.3892	.	.	.	.
CALC_	24.4592	.	.	.	.

Insulin independence



RPINH_	Years Post Last Infusion				
	1	2	3	4	5
0	3	1	1	1	.

	Years Post Last Infusion				
	1	2	3	4	5
1	655	579	509	443	376
Total	658	580	510	444	376

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	2.6862	3.1089	-3.4072 8.7796	0.86	0.3876
yrspli	-0.8649	0.7168	-2.2698 0.5400	-1.21	0.2276
RPINH_	-2.4462	3.1102	-8.5420 3.6496	-0.79	0.4316
yrspli*RPINH_	0.6001	0.7172	-0.8057 2.0058	0.84	0.4028

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.8115	1.0035	-1.1554 2.7784	0.81	0.4187
yrspli	-0.2660	0.0250	-0.3149 -0.2170	-10.65	<.0001
RPINH_	-0.5694	1.0043	-2.5377 1.3990	-0.57	0.5708

Testing at 4-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-21.3783	.	.	.	.
yrspli	-0.2467	.	.	.	.
RPINH_	21.5381	.	.	.	.
yrspli*RPINH_	0.0000	0.0000	0.0000 0.0000	.	.

### The GENMOD Procedure

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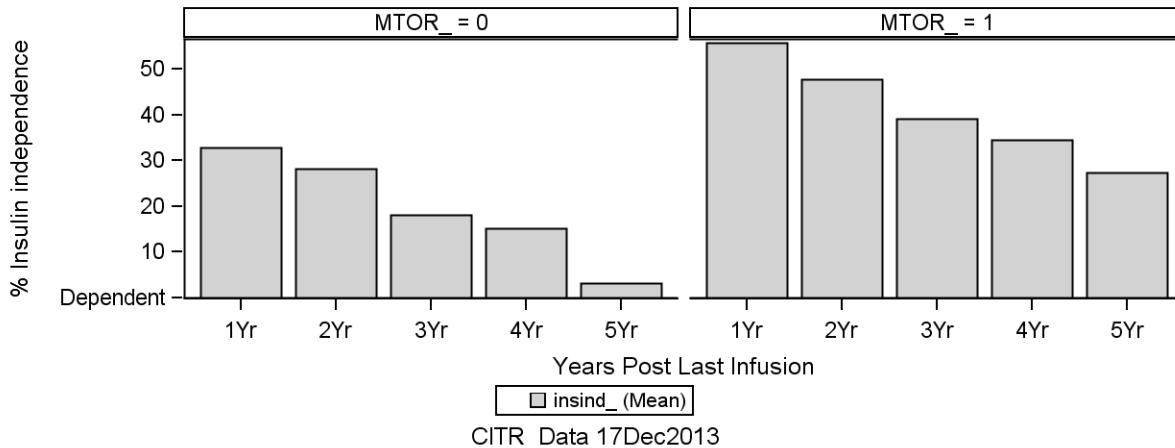
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-21.3783	.	.	.	.
yrspli	-0.2467	.	.	.	.
RPINH_	21.5381	.	.	.	.

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Insulin independence



MTOR_	Years Post Last Infusion				
	1	2	3	4	5
0	159	131	111	93	64
1	499	449	399	351	312
Total	658	580	510	444	376

Testing at 1-5 yr

**The GENMOD Procedure**

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	-0.2797	0.2048	-0.6811 0.1217	-1.37	0.1720
yrspli	-0.3669	0.0765	-0.5168 -0.2169	-4.80	<.0001
MTOR_	0.7175	0.2274	0.2717 1.1632	3.15	0.0016
yrspli*MTOR_	0.1059	0.0810	-0.0527 0.2646	1.31	0.1907

**The GENMOD Procedure**

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-0.4161	0.1683	-0.7459	-0.0863	-2.47	0.0134
<i>yrspli</i>	-0.2743	0.0249	-0.3232	-0.2255	-11.00	<.0001
<i>MTOR_</i>	0.8822	0.1803	0.5287	1.2356	4.89	<.0001

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.8855	0.9048	-0.8879	2.6589	0.98	0.3277
<i>yrspli</i>	-0.6540	0.2063	-1.0583	-0.2496	-3.17	0.0015
<i>MTOR_</i>	-0.5702	0.9592	-2.4503	1.3099	-0.59	0.5522
<i>yrspli*MTOR_</i>	0.4138	0.2175	-0.0124	0.8401	1.90	0.0570

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***The GENMOD Procedure***

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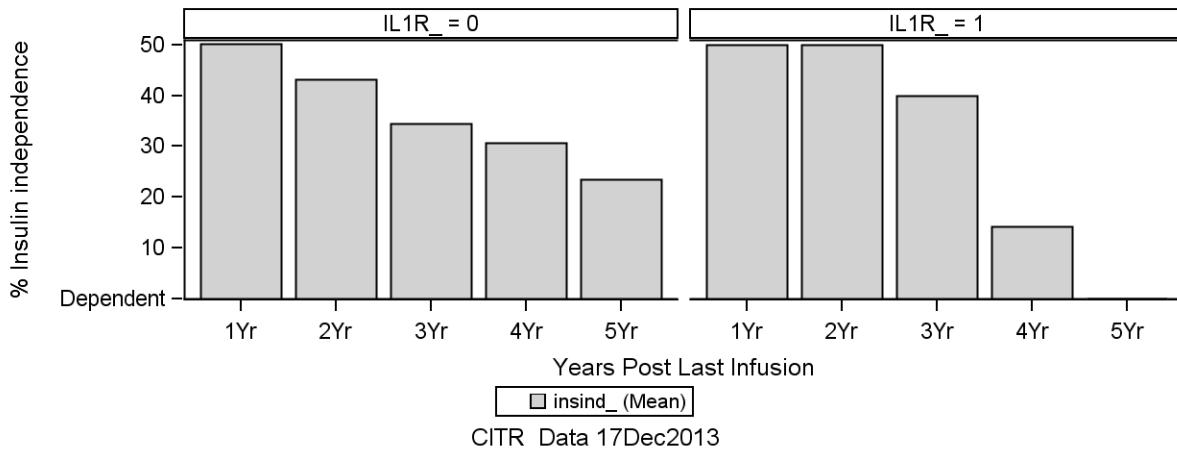
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	-0.7068	0.4115	-1.5134	0.0997	-1.72	0.0858
<i>yrspli</i>	-0.2687	0.0649	-0.3958	-0.1415	-4.14	<.0001
<i>MTOR_</i>	1.1460	0.3079	0.5425	1.7495	3.72	0.0002

---

Insulin independence



Years Post Last Infusion					
	1	2	3	4	5
IL1R_					
0	644	568	500	437	370
1	14	12	10	7	6
Total	658	580	510	444	376

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2426	0.0877	0.0708 0.4145	2.77	0.0057
yrspli	-0.2672	0.0254	-0.3170 -0.2175	-10.52	<.0001
IL1R_	0.0542	0.6397	-1.1996 1.3079	0.08	0.9325
yrspli*IL1R_	0.0902	0.0903	-0.0867 0.2672	1.00	0.3176

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2398	0.0873	0.0688 0.4108	2.75	0.0060
yrspli	-0.2657	0.0250	-0.3146 -0.2168	-10.65	<.0001
IL1R_	0.2460	0.5303	-0.7934 1.2854	0.46	0.6427

Testing at 4-5 yr

### The GENMOD Procedure

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.6387	.	.	.	.	.
<i>yrspli</i>	-0.3636	.	.	.	.	.
<i>IL1R_</i>	83.8629	.	.	.	.	.
<i>yrspli*IL1R_</i>	-21.2097	.	.	.	.	.

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*The GENMOD Procedure*

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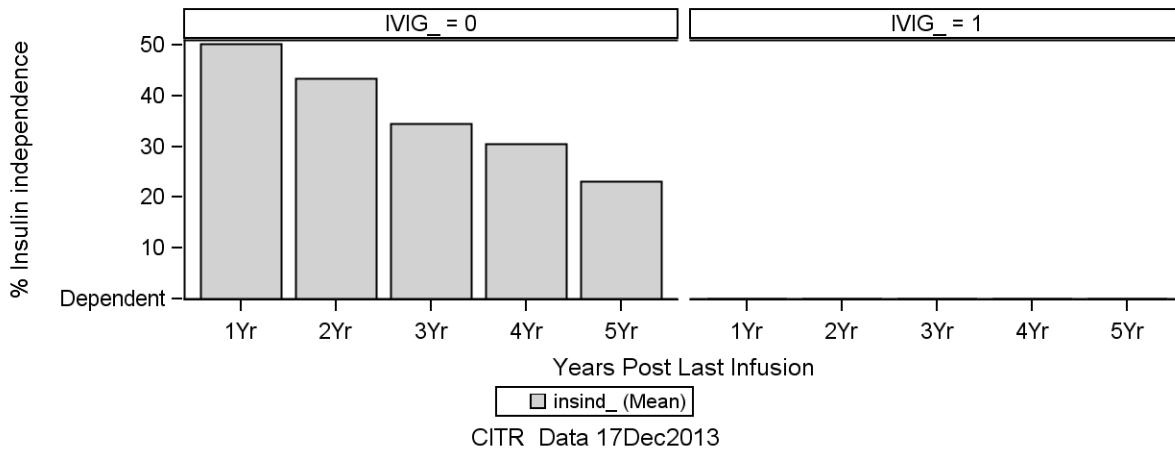
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.1772	0.2945	-0.3999	0.7543	0.60	0.5473
<i>yrspli</i>	-0.2480	0.0642	-0.3739	-0.1221	-3.86	0.0001
<i>IL1R_</i>	-1.2870	1.0373	-3.3200	0.7460	-1.24	0.2147

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Insulin independence



IVIG_	Years Post Last Infusion				
	1	2	3	4	5
0	657	579	509	443	375
1	1	1	1	1	1
Total	658	580	510	444	376

Testing at 1-5 yr

*The GENMOD Procedure*

**CITR Data 17Dec2013**

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>	<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2478	.	.	.	.
<i>yrspli</i>	-0.2663	.	.	.	.
<i>IVIG_</i>	-22.6132	.	.	.	.
<i>yrspli*IVIG_</i>	0.2663	.	.	.	.

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*The GENMOD Procedure*

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>	<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2485	.	.	.	.
<i>yrspli</i>	-0.2663	.	.	.	.
<i>IVIG_</i>	-22.7718	.	.	.	.

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Testing at 4-5 yr

*The GENMOD Procedure*

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>	<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.6641	.	.	.	.
<i>yrspli</i>	-0.3722	.	.	.	.
<i>IVIG_</i>	-21.0294	.	.	.	.
<i>yrspli*IVIG_</i>	0.3722	.	.	.	.

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*The GENMOD Procedure*

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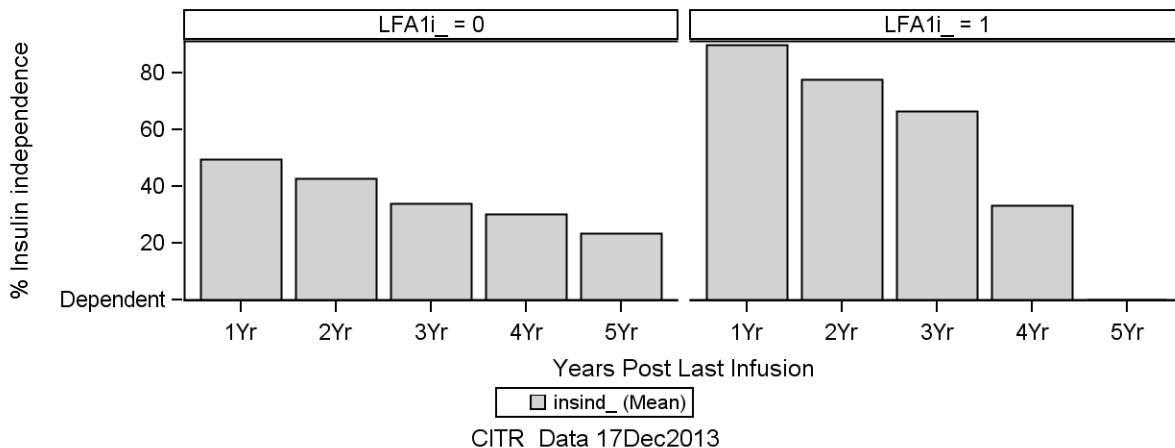
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.6641	.	.	.	.
yrspli	-0.3722	.	.	.	.
IVIG_	-21.3638	.	.	.	.

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Insulin independence



LFA1i_	Years Post Last Infusion				
	1	2	3	4	5
0	648	571	501	438	372
1	10	9	9	6	4
Total	658	580	510	444	376

Testing at 1-5 yr

**The GENMOD Procedure**

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2139	0.0874	0.0427 0.3852	2.45	0.0143
yrspli	-0.2596	0.0249	-0.3085 -0.2108	-10.41	<.0001
LFA1i_	2.7364	1.0130	0.7509 4.7218	2.70	0.0069
yrspli*LFA1i_	-0.6902	0.2477	-1.1756 -0.2048	-2.79	0.0053

**The GENMOD Procedure**

CITR Data 17Dec2013

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.2275	0.0873	0.0565	0.3985	2.61	0.0091
<i>yrspli</i>	-0.2670	0.0251	-0.3162	-0.2178	-10.64	<.0001
<i>LFA1i_</i>	0.8797	0.5582	-0.2143	1.9737	1.58	0.1150

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Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.5965	.	.	.	.	.
<i>yrspli</i>	-0.3566	.	.	.	.	.
<i>LFA1i_</i>	85.3989	.	.	.	.	.
<i>yrspli*LFA1i_</i>	-21.3155	.	.	.	.	.

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***The GENMOD Procedure***

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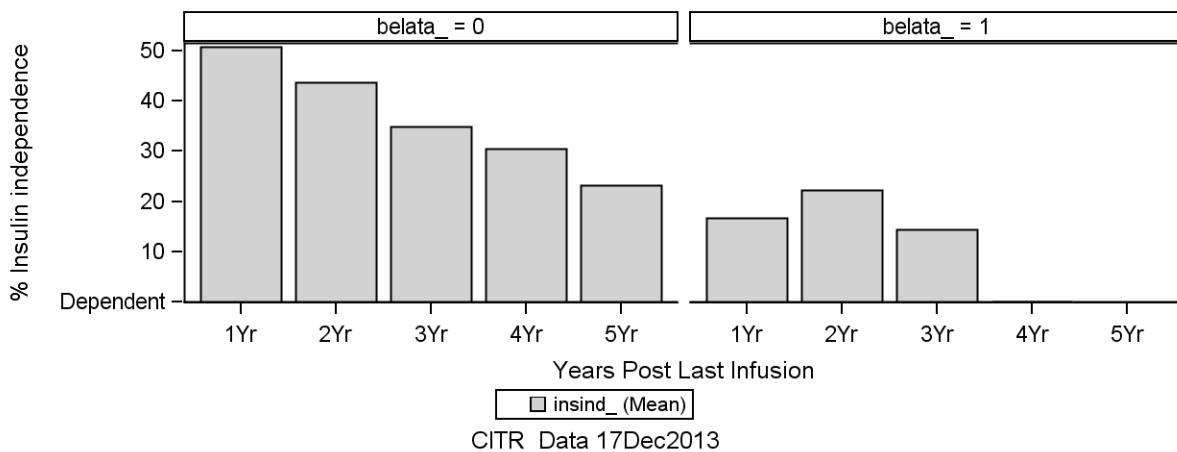
*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

<i>Parameter</i>	<i>Estimate</i>	<i>Standard Error</i>	<i>95% Confidence Limits</i>		<i>Z</i>	<i>Pr &gt;  Z </i>
<i>Intercept</i>	0.1534	0.2946	-0.4241	0.7308	0.52	0.6027
<i>yrspli</i>	-0.2463	0.0642	-0.3721	-0.1205	-3.84	0.0001
<i>LFA1i_</i>	0.1115	0.8566	-1.5674	1.7905	0.13	0.8964

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Insulin independence



		Years Post Last Infusion				
		1	2	3	4	5
<i>belatazoate_</i>	0	646	571	503	442	376
	1	12	9	7	2	-
	Total	658	580	510	444	376

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
<i>Intercept</i>	0.2682	0.0876	0.0966 0.4398	3.06	0.0022
<i>yrspli</i>	-0.2674	0.0249	-0.3163 -0.2185	-10.73	<.0001
<i>belatazoate_</i>	-1.8294	0.7818	-3.3616 -0.2972	-2.34	0.0193
<i>yrspli*belatazoate_</i>	0.2576	0.0525	0.1547 0.3606	4.91	<.0001

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
<i>Intercept</i>	0.2669	0.0875	0.0954 0.4384	3.05	0.0023
<i>yrspli</i>	-0.2667	0.0249	-0.3154 -0.2180	-10.73	<.0001
<i>belatazoate_</i>	-1.4770	0.7843	-3.0143 0.0602	-1.88	0.0597

Testing at 4-5 yr

### The GENMOD Procedure

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**Analysis Of GEE Parameter Estimates**

**Empirical Standard Error Estimates**

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1650	.	.	.	.	.
yrspli	-0.2472	.	.	.	.	.
belata_	-22.5414	.	.	.	.	.
yrspli*belata_	0.0000	0.0000	0.0000	0.0000	.	.

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**The GENMOD Procedure**

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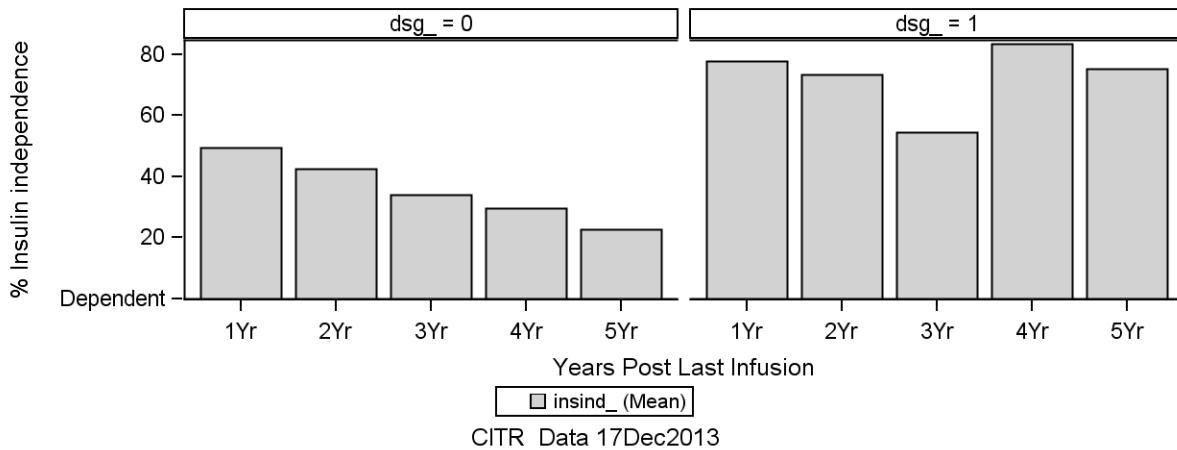
**Analysis Of GEE Parameter Estimates**

**Empirical Standard Error Estimates**

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1650	.	.	.	.	.
yrspli	-0.2472	.	.	.	.	.
belata_	-22.5414	.	.	.	.	.

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Insulin independence



$dsg\_$	Years Post Last Infusion				
	1	2	3	4	5
0	640	565	499	438	372
1	18	15	11	6	4
Total	658	580	510	444	376

Testing at 1-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.2198	0.0876	0.0482	0.3914	2.51	0.0121
<i>yrspli</i>	-0.2711	0.0252	-0.3206	-0.2216	-10.74	<.0001
<i>dsg_</i>	0.9730	0.8982	-0.7875	2.7335	1.08	0.2787
<i>yrspli*dsg_</i>	0.2414	0.3515	-0.4476	0.9304	0.69	0.4923

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.2134	0.0877	0.0414	0.3854	2.43	0.0150
<i>yrspli</i>	-0.2676	0.0253	-0.3173	-0.2180	-10.57	<.0001
<i>dsg_</i>	1.6545	0.5722	0.5331	2.7759	2.89	0.0038

Testing at 4-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.1367	0.3018	-0.4549	0.7282	0.45	0.6507
<i>yrspli</i>	-0.2504	0.0659	-0.3796	-0.1212	-3.80	0.0001
<i>dsg_</i>	1.8381	1.1986	-0.5111	4.1873	1.53	0.1251
<i>yrspli*dsg_</i>	0.1591	0.0985	-0.0340	0.3521	1.61	0.1063

***The GENMOD Procedure***

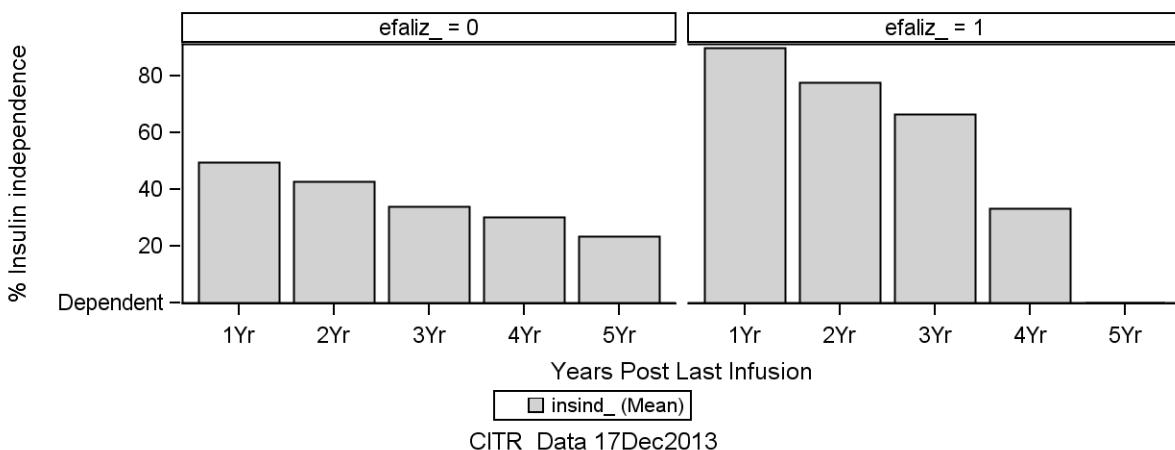
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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.1309	0.2998	-0.4567	0.7184	0.44	0.6624
<i>yrspli</i>	-0.2491	0.0654	-0.3772	-0.1209	-3.81	0.0001
<i>dsg_</i>	2.5652	1.0939	0.4211	4.7092	2.34	0.0190

Insulin independence



		Years Post Last Infusion				
		1	2	3	4	5
efaliz_	0	648	571	501	438	372
	1	10	9	9	6	4
	Total	658	580	510	444	376

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2139	0.0874	0.0427 0.3852	2.45	0.0143
yrspli	-0.2596	0.0249	-0.3085 -0.2108	-10.41	<.0001
efaliz_	2.7364	1.0130	0.7509 4.7218	2.70	0.0069
yrspli*efaliz_	-0.6902	0.2477	-1.1756 -0.2048	-2.79	0.0053

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.2275	0.0873	0.0565 0.3985	2.61	0.0091
yrspli	-0.2670	0.0251	-0.3162 -0.2178	-10.64	<.0001
efaliz_	0.8797	0.5582	-0.2143 1.9737	1.58	0.1150

Testing at 4-5 yr

### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.5965	.	.	.	.
yrspli	-0.3566	.	.	.	.
efaliz_	85.3989	.	.	.	.
yrspli*efaliz_	-21.3155	.	.	.	.

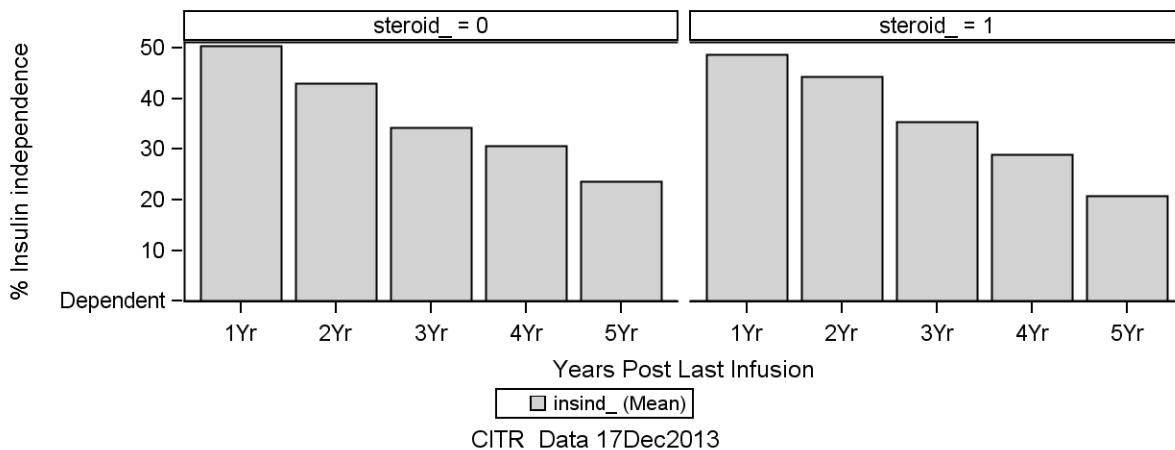
### The GENMOD Procedure

#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.1534	0.2946	-0.4241 0.7308	0.52	0.6027
yrspli	-0.2463	0.0642	-0.3721 -0.1205	-3.84	0.0001
efaliz_	0.1115	0.8566	-1.5674 1.7905	0.13	0.8964

Insulin independence



steroid_	Years Post Last Infusion				
	1	2	3	4	5
0	533	472	417	368	318
1	125	108	93	76	58
Total	658	580	510	444	376

Testing at 1-5 yr

**The GENMOD Procedure**

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.2618	0.0964	0.0728	0.4508	2.72	0.0066
yrspli	-0.2792	0.0283	-0.3346	-0.2237	-9.86	<.0001
steroid_	-0.1053	0.2211	-0.5386	0.3279	-0.48	0.6338
yrspli*steroid_	0.0790	0.0581	-0.0349	0.1929	1.36	0.1739

**The GENMOD Procedure**

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.2371	0.0934	0.0541	0.4201	2.54	0.0111
yrspli	-0.2658	0.0249	-0.3147	-0.2170	-10.66	<.0001
steroid_	0.0436	0.1893	-0.3273	0.4146	0.23	0.8177

Testing at 4-5 yr

**The GENMOD Procedure**

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.1797	0.3314	-0.4697	0.8292	0.54	0.5875
yrspli	-0.2491	0.0723	-0.3908	-0.1074	-3.45	0.0006
steroid_	-0.1480	0.6691	-1.4594	1.1634	-0.22	0.8250
yrspli*steroid_	0.0167	0.1435	-0.2646	0.2980	0.12	0.9074

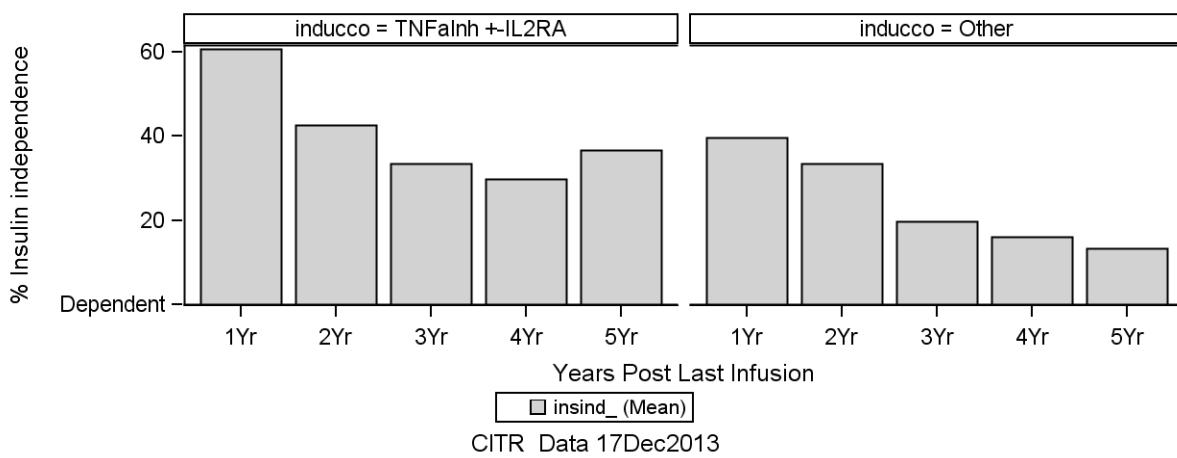
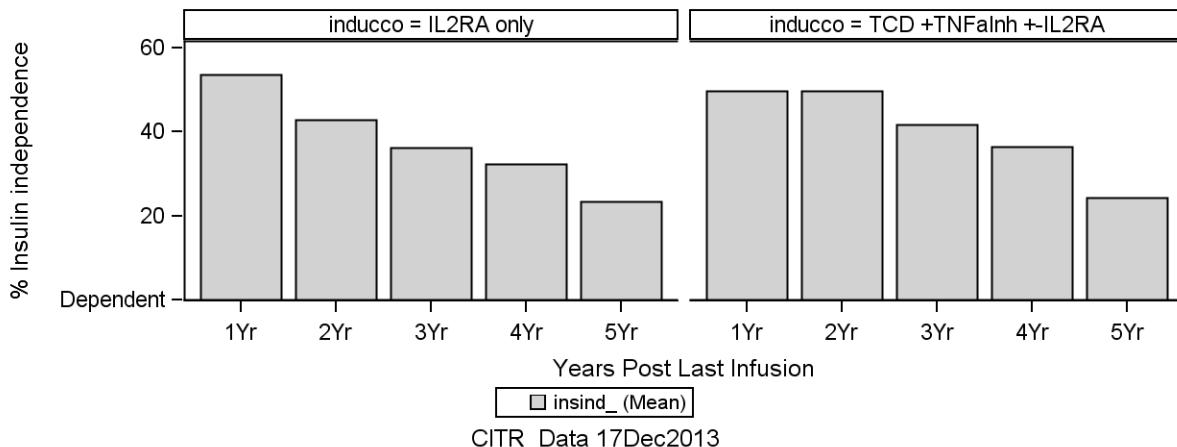
**The GENMOD Procedure**

### Analysis Of GEE Parameter Estimates

#### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.1699	0.2988	-0.4157 0.7555	0.57	0.5696
yrspli	-0.2468	0.0642	-0.3726 -0.1210	-3.85	0.0001
steroid_	-0.0769	0.2747	-0.6153 0.4615	-0.28	0.7794

Insulin independence



inducco	Years Post Last Infusion				
	1	2	3	4	5
IL2RA only	260	252	241	229	211
TCD +TNFalpha +IL2RA	210	169	130	96	62
TNFalpha +IL2RA	66	61	54	47	41

	Years Post Last Infusion				
	1	2	3	4	5
Other	116	93	81	69	60
Total	652	575	506	441	374

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.4224	0.1299	0.1678	0.6770	3.25	0.0011
yrspli	-0.2604	0.0359	-0.3308	-0.1899	-7.25	<.0001
inducco	-0.0612	0.0365	-0.1328	0.0104	-1.67	0.0940
yrspli*inducco	-0.0030	0.0111	-0.0248	0.0187	-0.27	0.7840

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.4353	0.1184	0.2032	0.6674	3.68	0.0002
yrspli	-0.2675	0.0249	-0.3162	-0.2187	-10.76	<.0001
inducco	-0.0662	0.0294	-0.1238	-0.0086	-2.25	0.0242

Testing at 4-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	0.5781	0.4029	-0.2115	1.3677	1.44	0.1513
yrspli	-0.2751	0.0859	-0.4434	-0.1067	-3.20	0.0014
inducco	-0.2041	0.1258	-0.4506	0.0425	-1.62	0.1047
yrspli*inducco	0.0182	0.0265	-0.0337	0.0700	0.69	0.4927

### The GENMOD Procedure

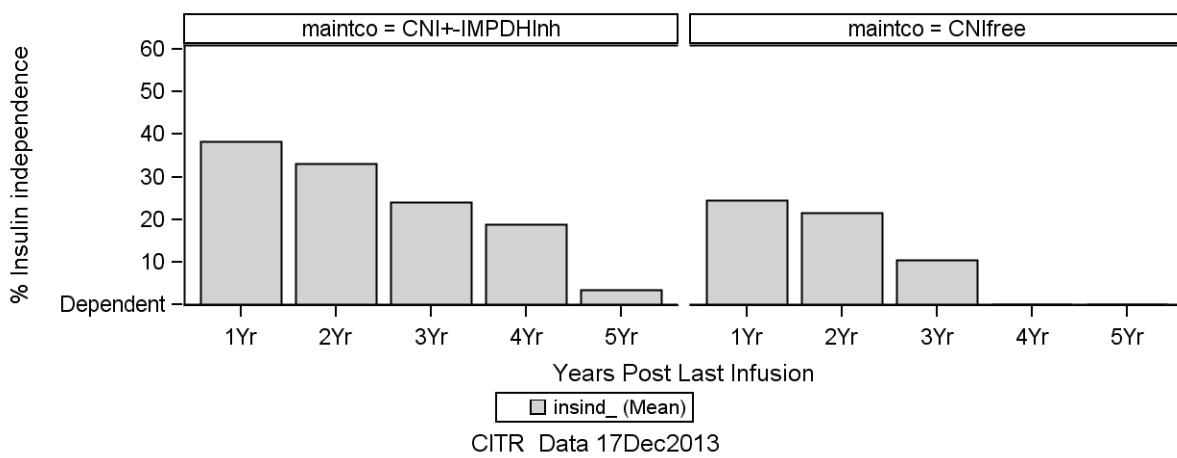
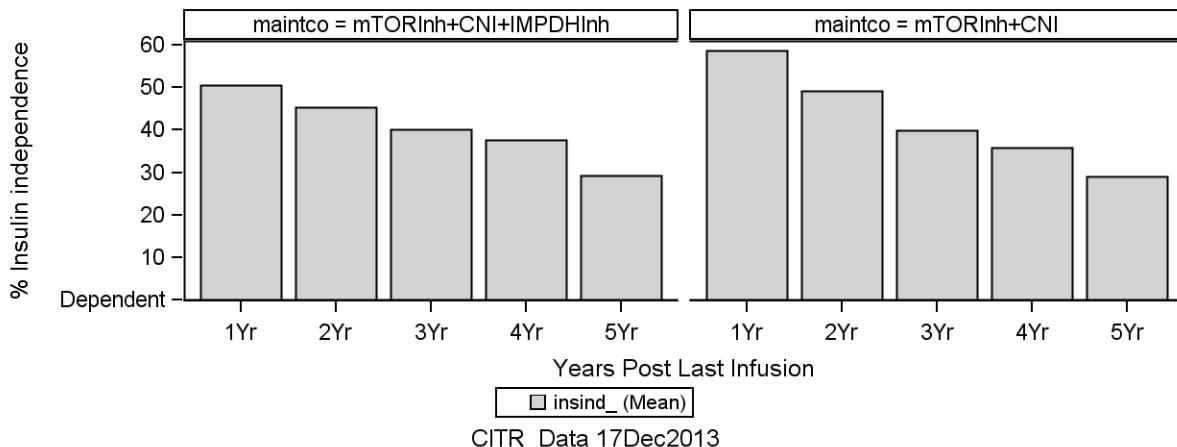
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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.4071	0.3165	-0.2132 1.0274	1.29	0.1984
yrspli	-0.2357	0.0640	-0.3612 -0.1103	-3.68	0.0002
inducco	-0.1254	0.0468	-0.2172 -0.0336	-2.68	0.0074

Insulin independence



mainco	Years Post Last Infusion				
	1	2	3	4	5
mTORinh+CNI+IMPDHinh	101	86	75	64	48
mTORinh+CNI	362	329	293	263	245
CNI+IMPDHinh	144	118	100	85	58

	Years Post Last Infusion				
	1	2	3	4	5
CNlfree	45	42	38	29	23
Total	652	575	506	441	374

Testing at 1-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.8996	0.2713	0.3678 1.4314	3.32	0.0009
yrspli	-0.1282	0.0715	-0.2684 0.0120	-1.79	0.0731
maintco	-0.2841	0.1188	-0.5169 -0.0513	-2.39	0.0168
yrspli*maintco	-0.0701	0.0325	-0.1337 -0.0064	-2.16	0.0311

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	1.1778	0.2295	0.7281 1.6276	5.13	<.0001
yrspli	-0.2718	0.0250	-0.3207 -0.2229	-10.89	<.0001
maintco	-0.4141	0.0968	-0.6038 -0.2245	-4.28	<.0001

Testing at 4-5 yr

### The GENMOD Procedure

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#### Analysis Of GEE Parameter Estimates

##### Empirical Standard Error Estimates

Parameter	Estimate	Standard Error	95% Confidence Limits	Z	Pr >  Z
Intercept	0.3345	0.8632	-1.3573 2.0263	0.39	0.6984
yrspli	0.0584	0.1871	-0.3084 0.4252	0.31	0.7549
maintco	-0.0319	0.3993	-0.8145 0.7507	-0.08	0.9363
yrspli*maintco	-0.1581	0.0874	-0.3294 0.0131	-1.81	0.0704

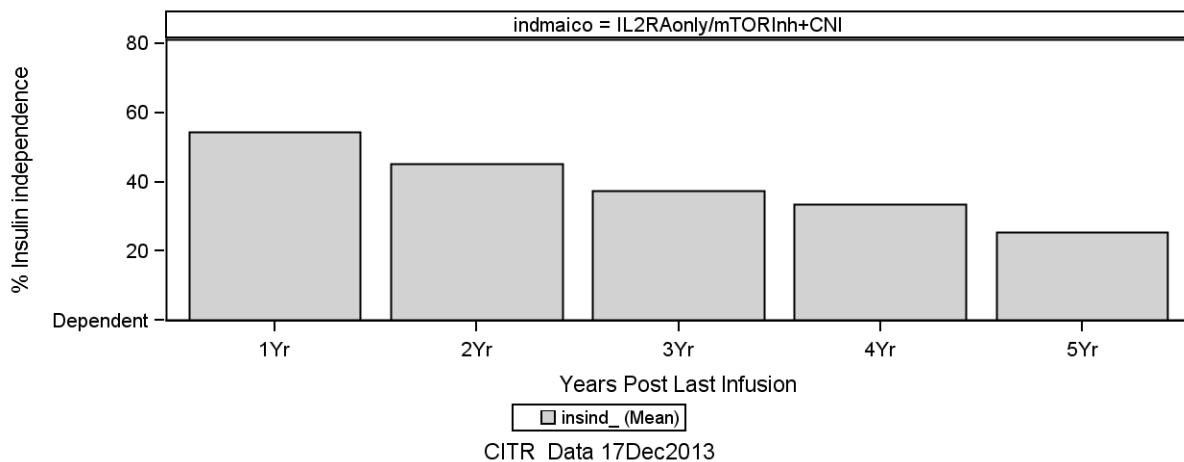
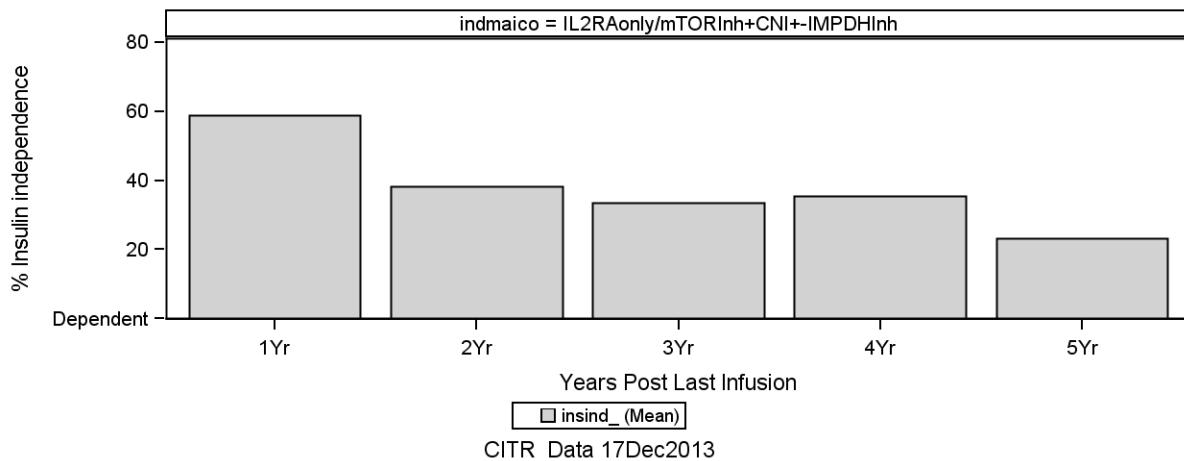
### The GENMOD Procedure

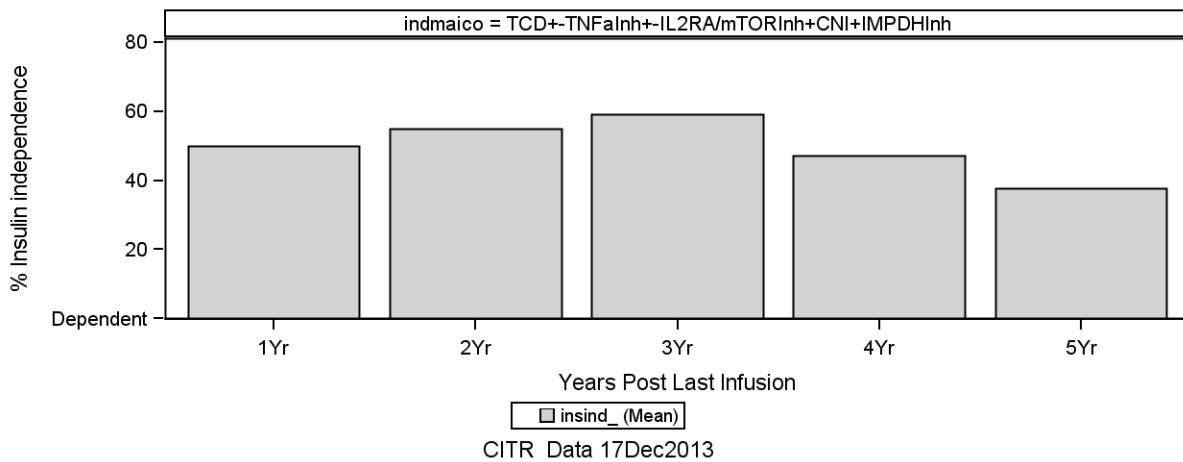
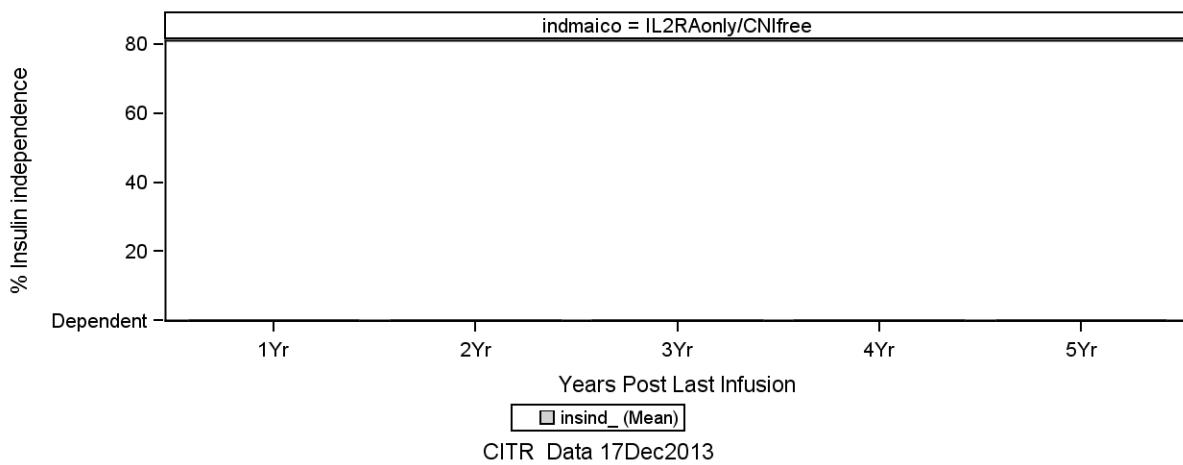
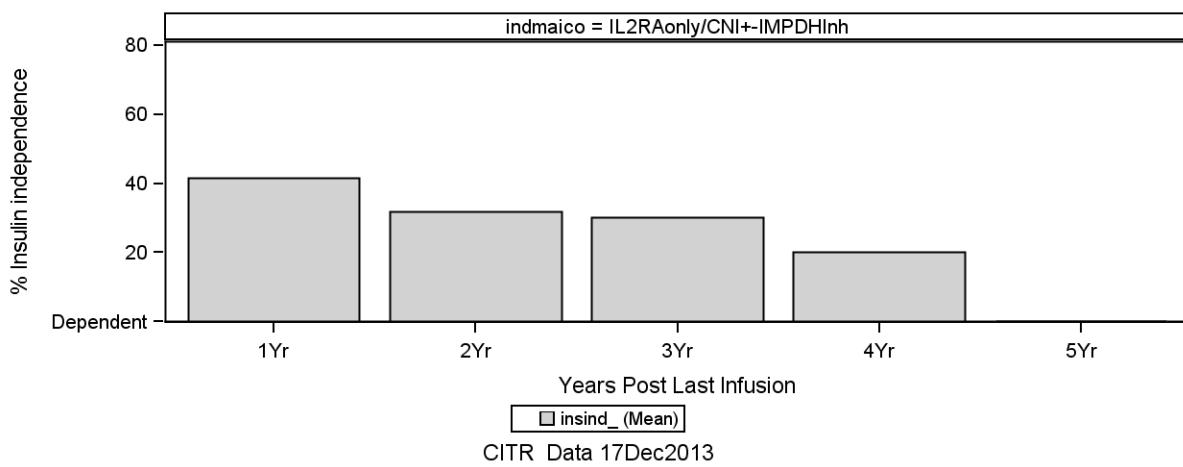
**Analysis Of GEE Parameter Estimates**

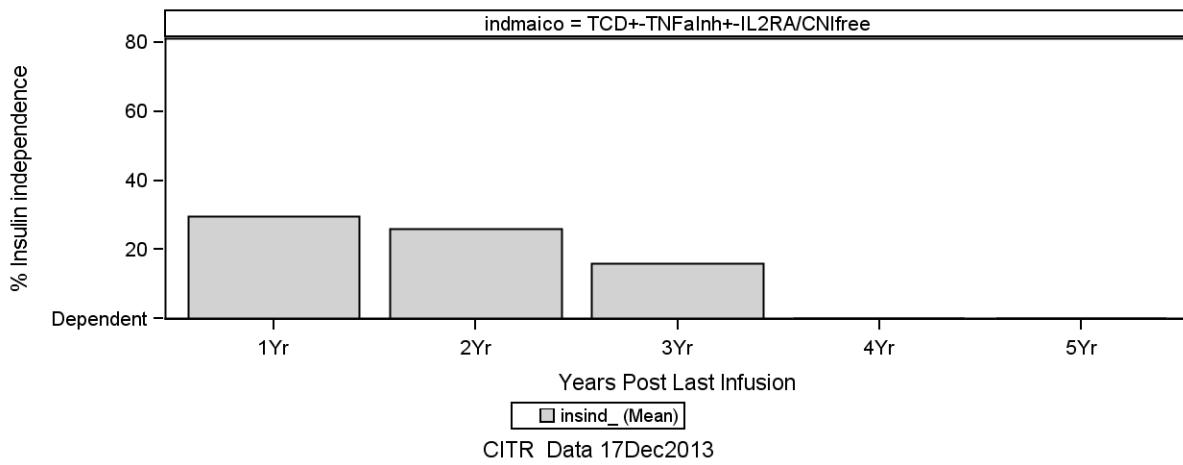
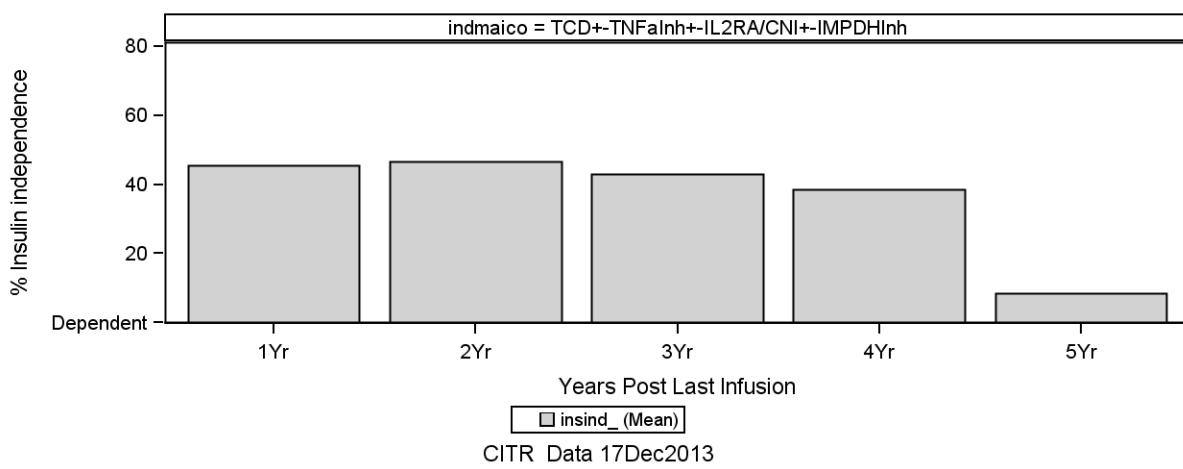
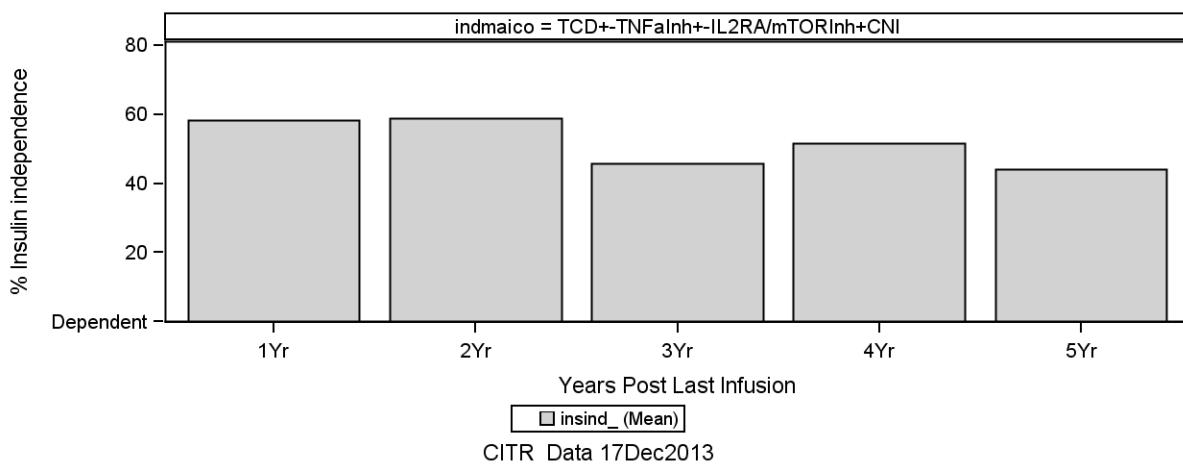
**Empirical Standard Error Estimates**

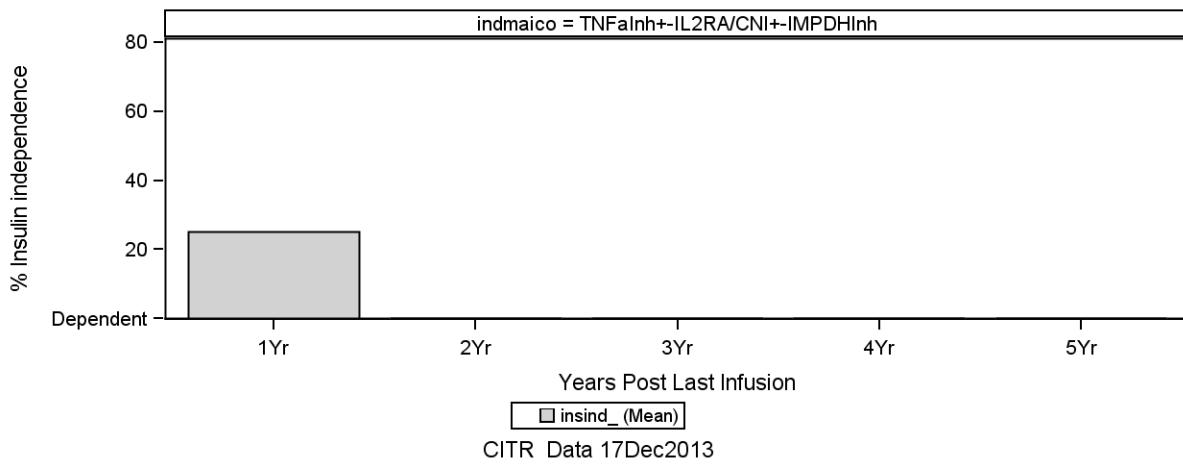
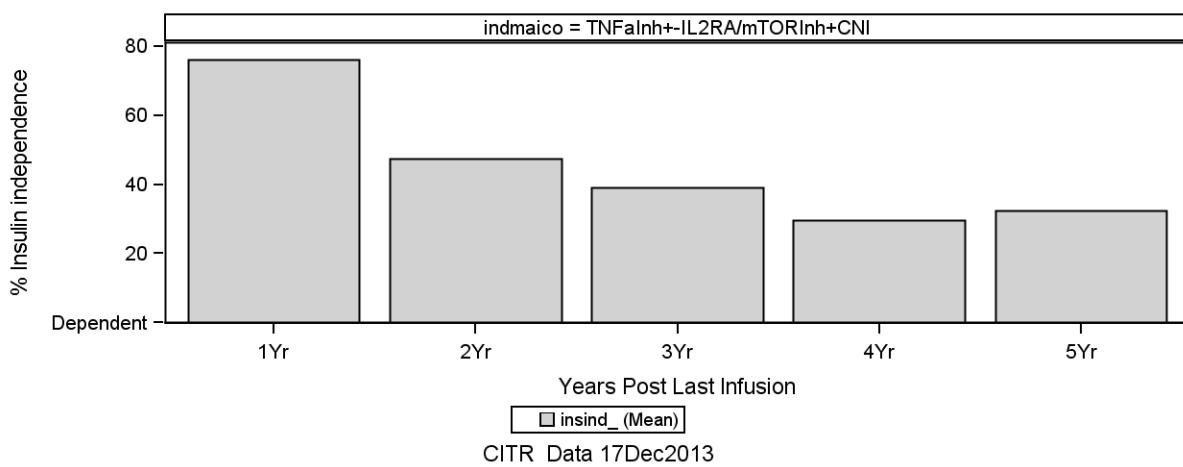
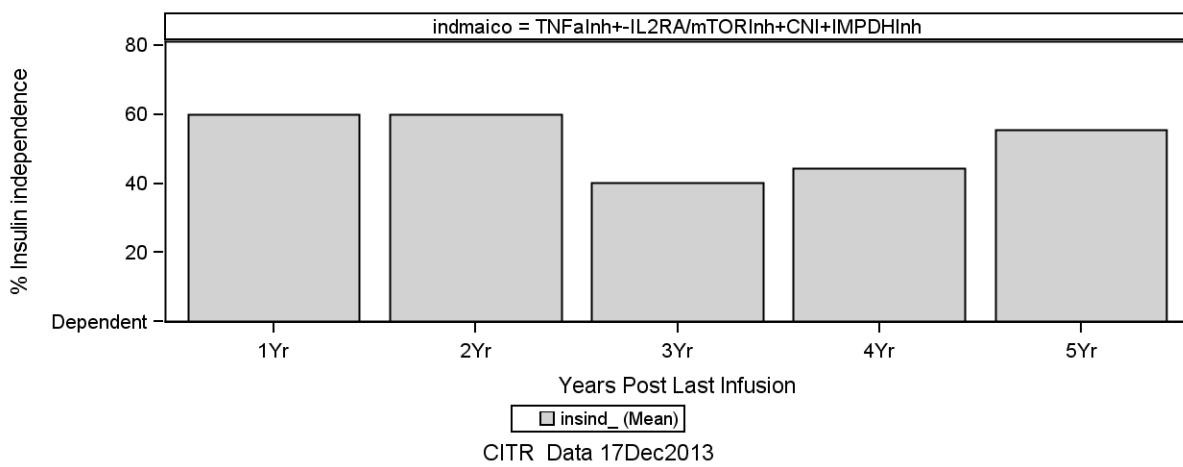
Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
Intercept	1.6489	0.4096	0.8462	2.4517	4.03	<.0001
yrspli	-0.2500	0.0652	-0.3778	-0.1222	-3.83	0.0001
maintco	-0.7037	0.1336	-0.9655	-0.4418	-5.27	<.0001

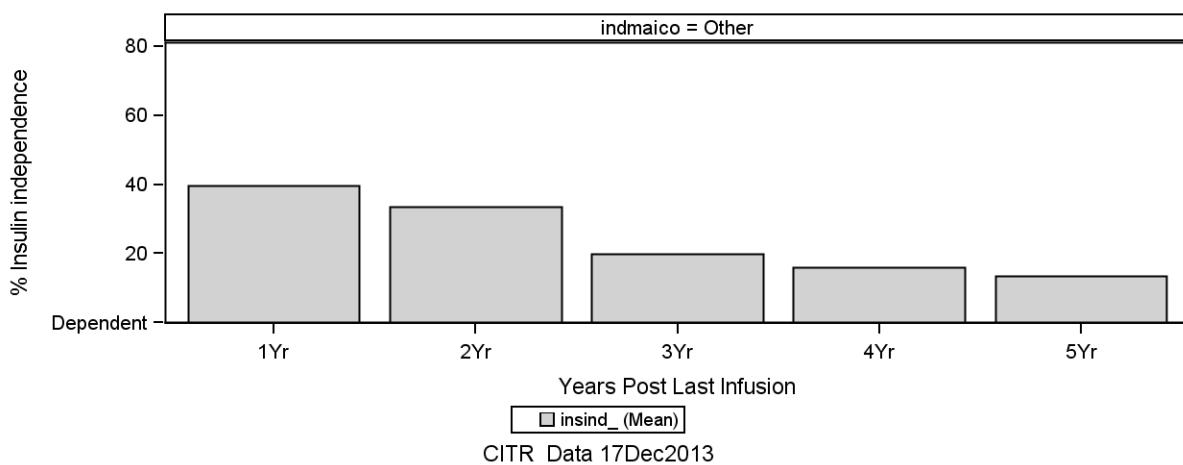
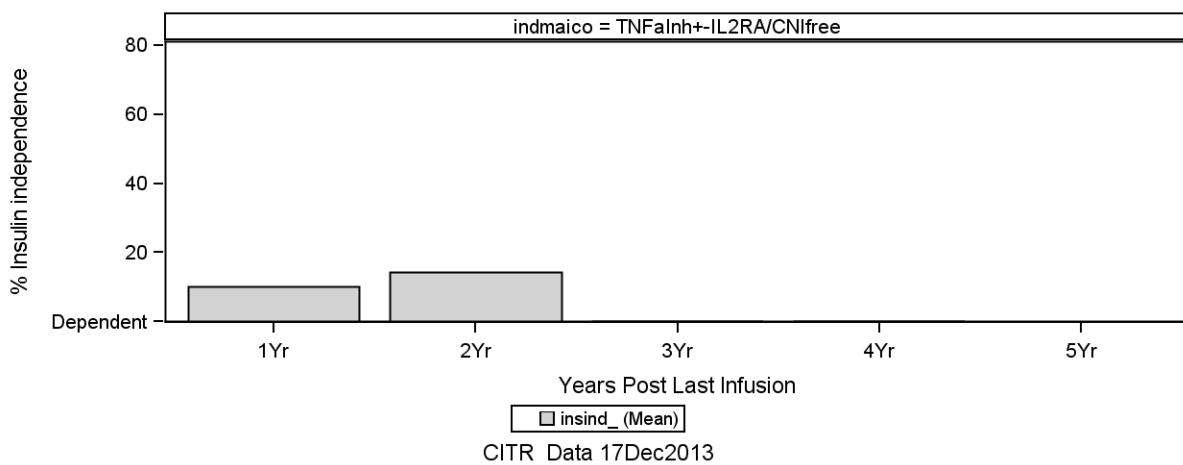
Insulin independence











	Years Post Last Infusion				
	1	2	3	4	5
<i>indmaico</i>					
<i>IL2RAonly/mTORInh+CNI+-IMPDHInh</i>	34	34	33	31	26
<i>IL2RAonly/mTORInh+CNI</i>	201	195	187	177	170
<i>IL2RAonly/CNI+-IMPDHInh</i>	24	22	20	20	14
<i>IL2RAonly/CNIfree</i>	1	1	1	1	1
<i>TCD+-TNFaInh+-IL2RA/mTORInh+CNI+IMPDHInh</i>	44	31	22	17	8
<i>TCD+-TNFaInh+-IL2RA/mTORInh+CNI</i>	84	68	48	33	25
<i>TCD+-TNFaInh+-IL2RA/CNI+-IMPDHInh</i>	55	43	35	26	12
<i>TCD+-TNFaInh+-IL2RA/CNIfree</i>	27	27	25	20	17
<i>TNFaInh+-IL2RA/mTORInh+CNI+IMPDHInh</i>	10	10	10	9	9
<i>TNFaInh+-IL2RA/mTORInh+CNI</i>	42	40	36	34	31
<i>TNFaInh+-IL2RA/CNI+-IMPDHInh</i>	4	4	3	2	1
<i>TNFaInh+-IL2RA/CNIfree</i>	10	7	5	2	1
<i>Other</i>	116	93	81	69	60
<i>Total</i>	652	575	506	441	374

Testing at 1-5 yr

***The GENMOD Procedure***

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*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.5247	0.1922	0.1480	0.9014	2.73	0.0063
<i>yrspli</i>	-0.2637	0.0522	-0.3661	-0.1614	-5.05	<.0001
<i>indmaico</i>	-0.0119	0.0076	-0.0268	0.0031	-1.56	0.1192
<i>yrspli*indmaico</i>	-0.0002	0.0022	-0.0045	0.0041	-0.07	0.9429

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***The GENMOD Procedure***

*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.5309	0.1660	0.2056	0.8563	3.20	0.0014
<i>yrspli</i>	-0.2670	0.0248	-0.3156	-0.2183	-10.76	<.0001
<i>indmaico</i>	-0.0121	0.0061	-0.0242	-0.0001	-1.98	0.0482

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Testing at 4-5 yr

***The GENMOD Procedure***

*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	1.1572	0.5626	0.0545	2.2599	2.06	0.0397
<i>yrspli</i>	-0.3748	0.1193	-0.6085	-0.1410	-3.14	0.0017
<i>indmaico</i>	-0.0517	0.0249	-0.1004	-0.0029	-2.08	0.0377
<i>yrspli*indmaico</i>	0.0070	0.0053	-0.0033	0.0173	1.33	0.1838

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***The GENMOD Procedure***

*Analysis Of GEE Parameter Estimates*

*Empirical Standard Error Estimates*

Parameter	Estimate	Standard Error	95% Confidence Limits		Z	Pr >  Z
<i>Intercept</i>	0.5553	0.3528	-0.1361	1.2466	1.57	0.1155
<i>yrspli</i>	-0.2361	0.0638	-0.3611	-0.1112	-3.70	0.0002
<i>indmaico</i>	-0.0214	0.0088	-0.0386	-0.0041	-2.43	0.0153

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