**DATA** Mother\_Infant\_PCA\_GxSxE; INPUT Sex &$16. Date\_of\_Birth Maternal\_Rank &$16. SERT\_S\_CARRIER &$16. Social\_Play PC1 PC2 PC3 ln\_DurationObserved\_h; Lines;

Female **3398803200** high SL or SS **25** -**1.26518686635662** -**0.65610492828913** -**0.421577005542181** **2.3571258863219**

Female **3395347200** middle SL or SS **9** -**0.546145038634532** **2.47070858897409** **1.76100611806832** **2.3930349959161**

Male **3398630400** middle LL **43** -**0.772131889241268** -**0.575924428496061** -**0.468235568911259** **2.3020293830603**

Female **3397075200** middle LL **2** -**0.243386598662655** **0.275503153972858** **0.0574609312282511** **2.3160769998423**

Male **3399840000** high LL **41** -**1.13943842116982** -**0.061283575930311** -**0.242558492017006** **2.3239659948566**

Female **3397593600** low SL or SS **11** **0.309876901518182** -**0.479571877390117** **0.547416343331073** **2.3553356583796**

Female **3396038400** high LL **39** **1.16204808118642** **0.0206829777835424** **0.527556671465107** **2.3645682686823**

Female **3398112000** low SL or SS **24** -**0.182347186665818** -**0.597300834736178** -**0.534223089476072** **2.4457711181919**

Male **3398198400** low SL or SS **12** **0.948834342443381** -**1.06555306903689** -**0.75570625964873** **2.3598576978448**

Male **3396556800** middle LL **34** -**0.274941476365005** -**0.434723464367086** -**0.658952076153466** **2.387793920441**

Male **3399840000** high SL or SS **9** -**0.442467409361406** -**0.42236199464149** -**0.717992482342305** **2.3417256747318**

Female **3400444800** middle SL or SS **23** -**0.407453045534432** -**0.125447047274376** -**0.330345327261301** **2.3607491738209**

Male **3396211200** low LL **26** -**0.264580523305458** **0.599965375646397** **0.24457118645255** **2.4188855486902**

Male **3399321600** middle SL or SS **80** **0.157486621366332** **1.57134991921024** -**0.361570264863636** **2.418291900706**

Male **3395606400** low SL or SS **10** -**0.344518762643784** **1.66615763453895** **0.456946176746842** **2.4286301998447**

Female **3396988800** low LL **17** -**0.158998534642045** -**0.177384979703636** -**0.373350202688032** **2.3765065398165**

Male **3398803200** middle LL **30** -**1.3999593447746** **0.378600611671371** **0.279357849863655** **2.2411233153048**

Male **3395779200** high SL or SS **38** **0.190420000902086** -**0.829588543959802** **1.66327540283033** **2.2723263236104**

Male **3396556800** middle LL **15** **0.481484832173868** **0.367203569427001** -**0.105617570854979** **2.342046161875**

Female **3398025600** low SL or SS **30** **2.33189402063766** -**0.203023743211941** **0.763590606179985** **2.4056429595892**

Female **3397680000** low SL or SS **24** **0.800254485767827** -**1.40246782138238** **0.21585848616789** **2.3484344292283**

Female **3399840000** middle LL **20** **0.596176671959502** -**0.0164993440855352** -**0.642309239830917** **2.4097439905933**

Female **3400444800** high LL **23** -**0.960689857922599** -**0.238619308889142** -**0.755968470815481** **2.3789029231991**

Male **3396384000** high LL **63** **1.78484755792761** **0.230263944606654** **0.0671577345631969** **2.2447205475489**

Male **3396816000** middle LL **28** -**1.42811748300482** -**0.29869313746933** -**0.526209126215235** **2.2020585538352**

Female **3397766400** low LL **8** **2.17484040411468** -**1.98613512343743** -**0.199159558146207** **2.2480995743731**

Male **3395692800** middle SL or SS **18** **0.14249346043109** -**0.663750018141653** -**0.42999380047004** **2.3729658897558**

Male **3396384000** high LL **67** -**0.866473193418274** **0.0379998466252074** -**0.0144979141758227** **2.344313343407**

Female **3398630400** high SL or SS **64** **1.2932346965203** -**0.270911491701751** -**0.123329897609561** **2.2968184980997**

Male **3399494400** low LL **37** -**0.11160006149139** -**0.959235461436451** -**0.558281641133091** **2.3637847128661**

Female **3397420800** low LL **6** -**1.07123719915939** -**0.734685157236621** **3.45420352892192** **2.3635756609159**

Male **3398803200** low LL **31** -**1.22716068467653** -**0.774549895434421** -**0.608553382162187** **2.3787484909946**

Male **3396816000** middle SL or SS **44** -**0.0579642286341073** **0.646986455543692** -**0.308190795582044** **2.3715668533082**

Female **3397939200** low SL or SS **16** -**1.20873159208442** -**0.417231191369786** -**0.149366939061991** **2.3533046116927**

Female **3397593600** middle SL or SS **14** -**0.207193650060438** -**0.972700633617238** -**0.279840364842119** **2.3260845821716**

Male **3399753600** high LL **29** **0.657258266393471** **1.17993190823226** -**0.108929180791823** **2.2923102650529**

Male **3396384000** low SL or SS **23** **0.467329690165589** **1.25551014325828** -**0.894044947079293** **2.2917207334328**

Male **3398630400** high SL or SS **11** -**0.29867692899326** -**0.228491246273001** -**0.674377964123621** **2.3221425922096**

Female **3398284800** low SL or SS **12** **0.801179257897216** **0.510729650694154** **0.791233414092625** **2.4107416959539**

Male **3399321600** low SL or SS **37** -**1.35767658451382** **2.13157314739546** -**0.104985020678932** **2.2848170611707**

Female **3397939200** middle LL **17** -**0.217167534157975** -**0.852645880567739** -**0.764883026398722** **2.3429002924487**

Male **3396297600** high SL or SS **46** -**0.377262898539807** -**0.190089301918382** -**0.815627808653175** **2.4162857329269**

;

**RUN**;

**PROC** **GENMOD** DATA=Mother\_Infant\_PCA\_GxSxE;

CLASS Sex Maternal\_Rank SERT\_S\_CARRIER;

MODEL Social\_Play = Date\_of\_Birth Maternal\_Rank Sex SERT\_S\_CARRIER Sex\*SERT\_S\_CARRIER

 PC1 PC2 PC3

 SERT\_S\_CARRIER\*PC1 SERT\_S\_CARRIER\*PC2 SERT\_S\_CARRIER\*PC3

 Sex\*PC2 Sex\*PC3

 Sex\*SERT\_S\_CARRIER\*PC2/ DIST=Poisson LINK=Log ALPHA=**0.05** OFFSET=ln\_DurationObserved\_h type3 scale=p;

/\*post hoc tests\*/;

/\*PC1 post hoc critical alpha P<0.025)\*/;

Estimate "PC1 LL Slope" PC1 **1** SERT\_S\_CARRIER\*PC1 **1** **0** ;

Estimate "PC1 S-Carrier Slope" PC1 **1** SERT\_S\_CARRIER\*PC1 **0** **1** ;

/\*PC2 post hoc critical alpha P<0.0125)\*/;

Estimate "PC2 LL Female Slope" PC2 **1** SEX\*PC2 **1** **0** SERT\_S\_CARRIER\*PC2 **1** **0** Sex\*SERT\_S\_CARRIER\*PC2 **1** **0** **0** **0** ;

Estimate "PC2 S-Carrier Female Slope" PC2 **1** SEX\*PC2 **1** **0** SERT\_S\_CARRIER\*PC2 **0** **1** Sex\*SERT\_S\_CARRIER\*PC2 **0** **1** **0** **0** ;

Estimate "PC2 LL Male Slope" PC2 **1** SEX\*PC2 **0** **1** SERT\_S\_CARRIER\*PC2 **1** **0** Sex\*SERT\_S\_CARRIER\*PC2 **0** **0** **1** **0** ;

Estimate "PC2 S-Carrier Male Slope" PC2 **1** SEX\*PC2 **0** **1** SERT\_S\_CARRIER\*PC2 **0** **1** Sex\*SERT\_S\_CARRIER\*PC2 **0** **0** **0** **1** ;

/\*PC3 post hoc critical alpha P<0.025)\*/;

Estimate "PC3 Female Slope" PC3 **1** SEX\*PC3 **1** **0** ;

Estimate "PC3 Male Slope" PC3 **1** SEX\*PC3 **0** **1** ;

**RUN**;