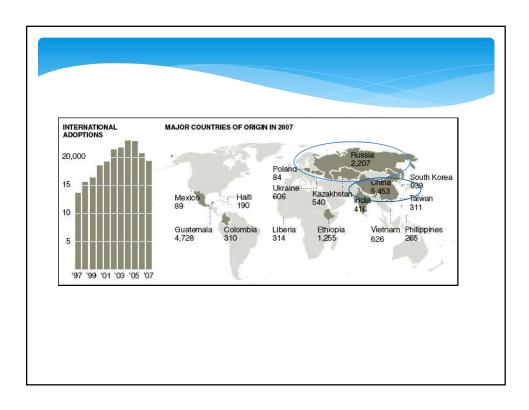
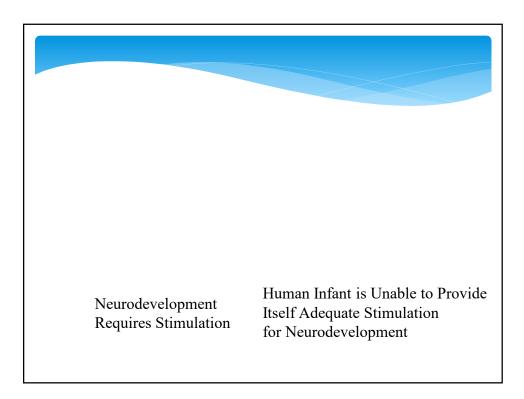
The Developmental Correlates of Early Deprivation: Studies of Orphanage-Adopted Children

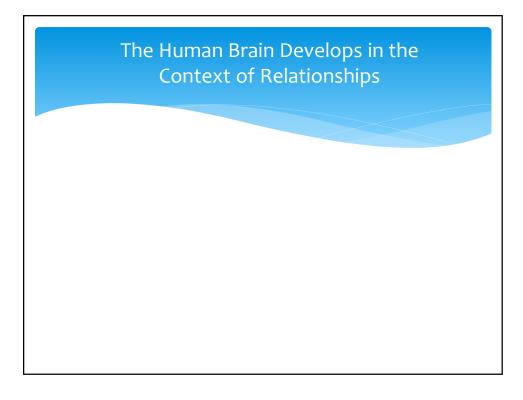






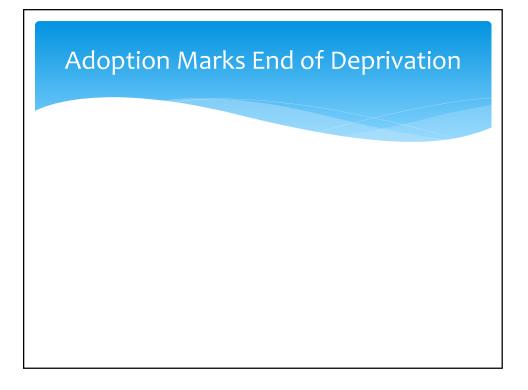


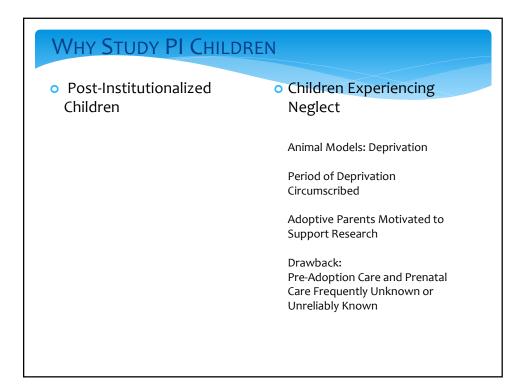


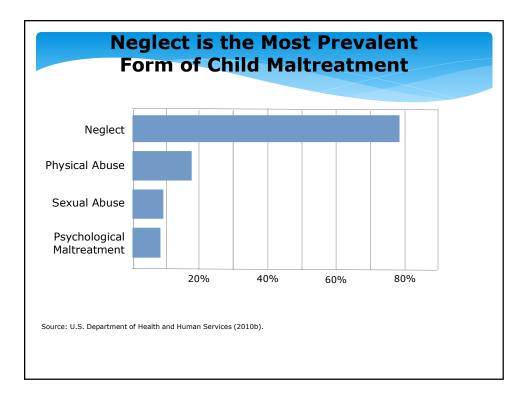


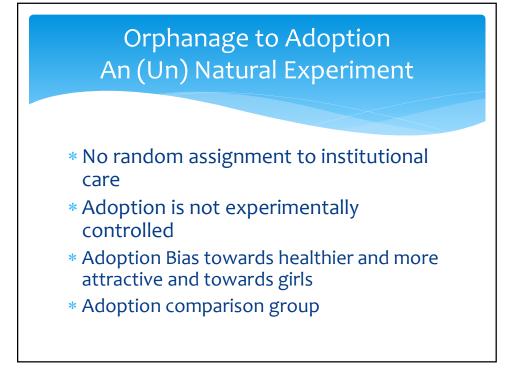
What if we lack these relationships?











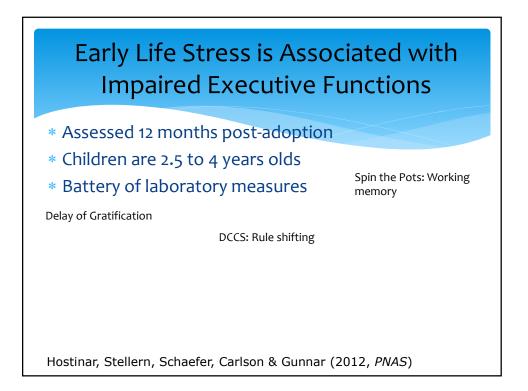


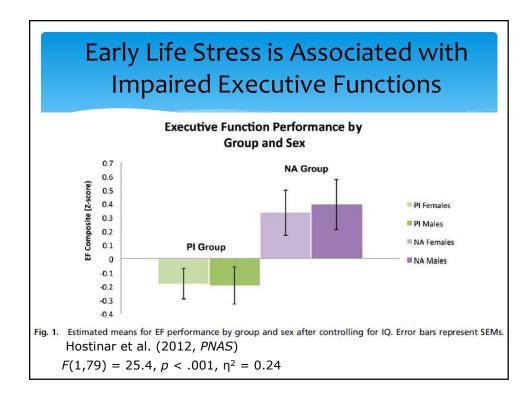
General Cognitive Functioning

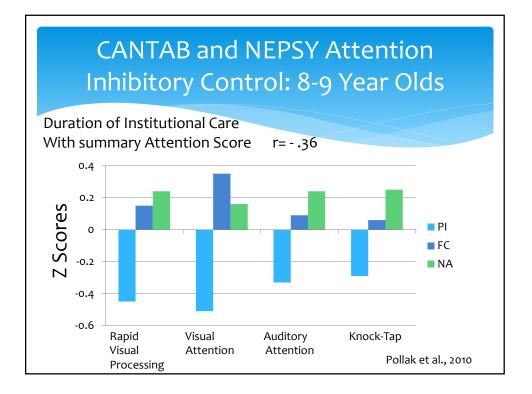
- Marked delays in cognitive development that increase with duration of institutional care; due to decreased stimulation (Tizard)
- * DQ Often too low to measure in institution and by 1-2 years post adoption IQ is in normal range
- * Duration of exposure to institutions associated with greater delay and long time to catch-up

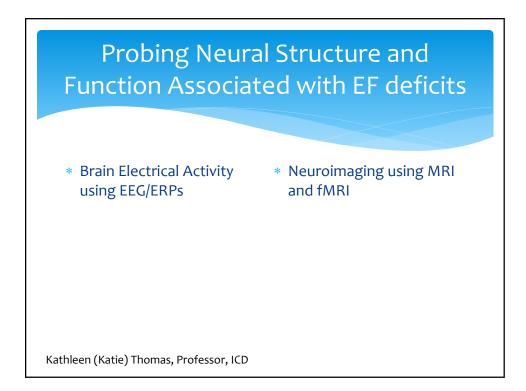
Executive Functions (Air Traffic Control System of the Mind)

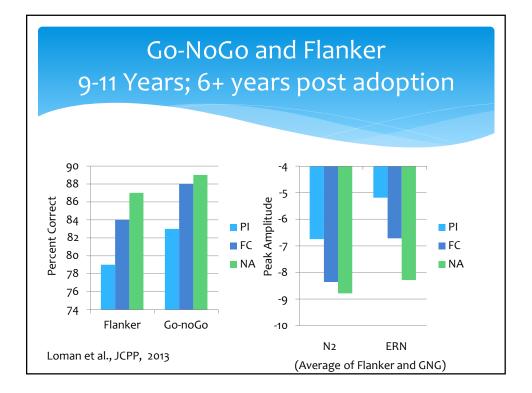
- * Depend on three types of brain function:
 - * Working memory
 - *** Cognitive Flexibility**
 - * Inhibitory Control
- * Begin developing in Infancy and show improvements to mid-late 20's.
- Depends on complex, distributed circuits that mature with maturation/development of prefrontal brain regions

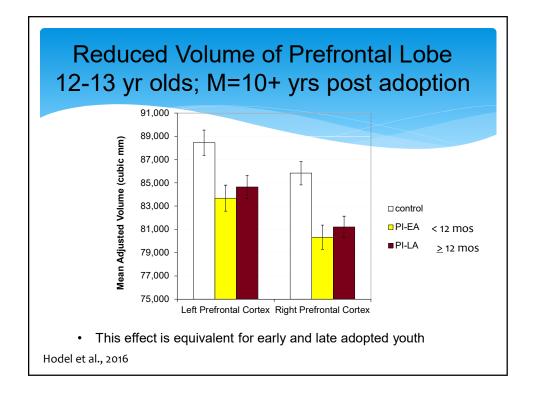


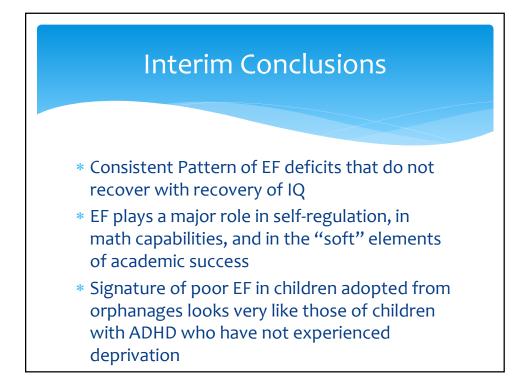


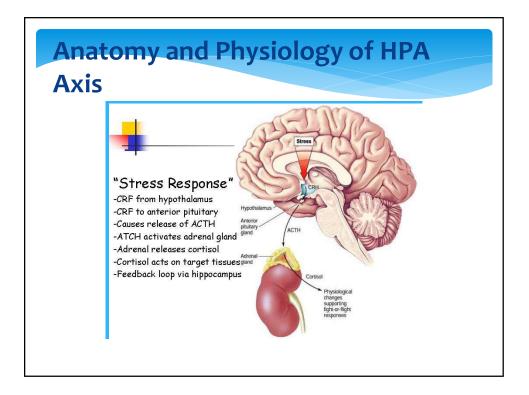


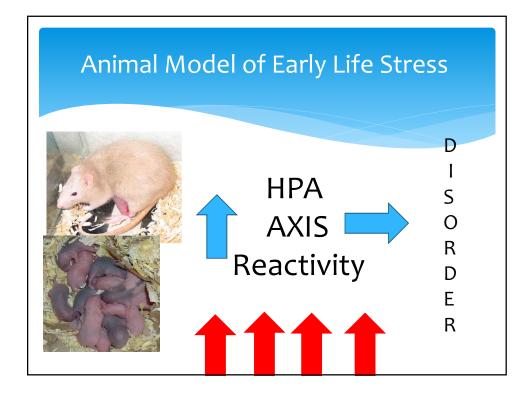


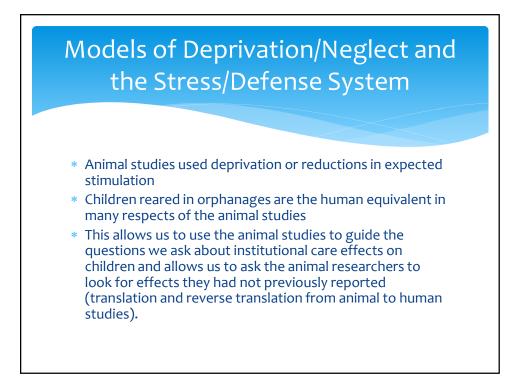






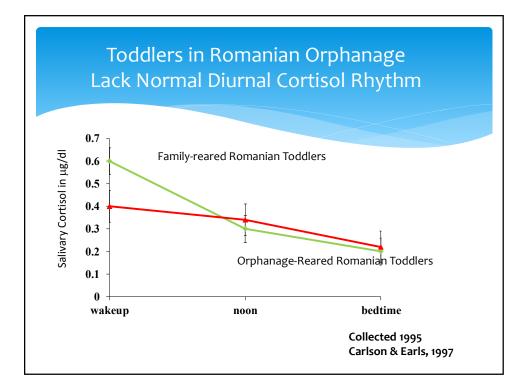


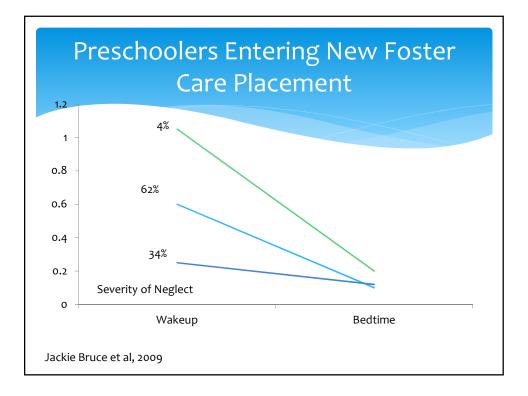




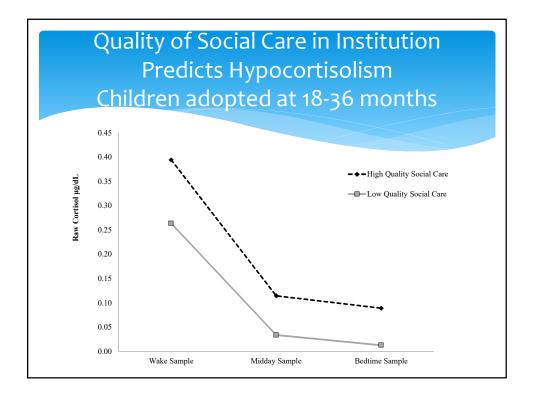
Iasi Romania 1995

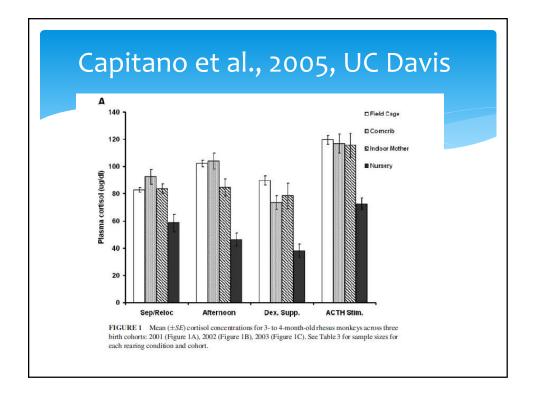
- * My first experience collecting measures of stress hormone activity on children in institutional care came from work in Iasi Romania
- We went in expecting that the orphanage children (age 2 years) would have highly elevated cortisol levels, but we were wrong. Their levels across the day were either significantly lower (morning) or not significantly higher (noon and late afternoon) than family reared 2 years olds in Romania.
- * We later found that neglected children entering a new foster placement also were more likely to have low morning and a flat daytime cortisol rhythm.
- * This led us to write a paper in 2001 alerting the field to the possibility that hypocortisolism was the expected pattern in human following early deprivation.

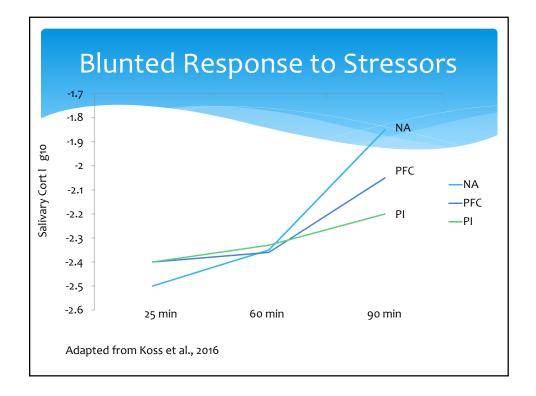




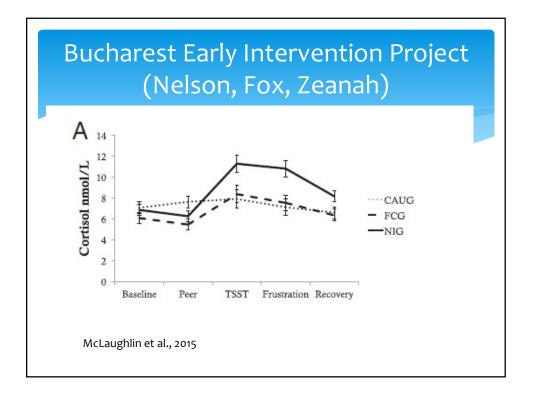


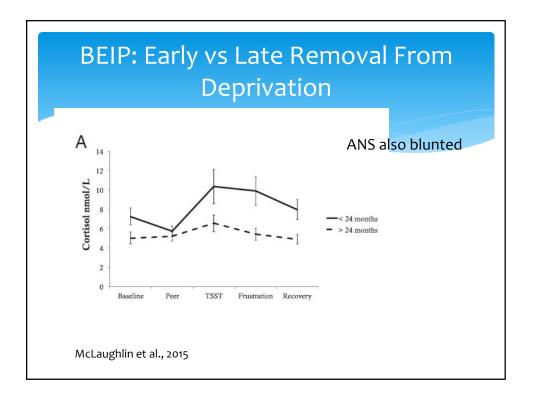


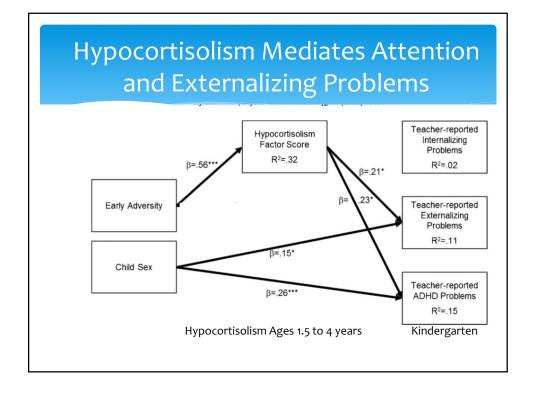


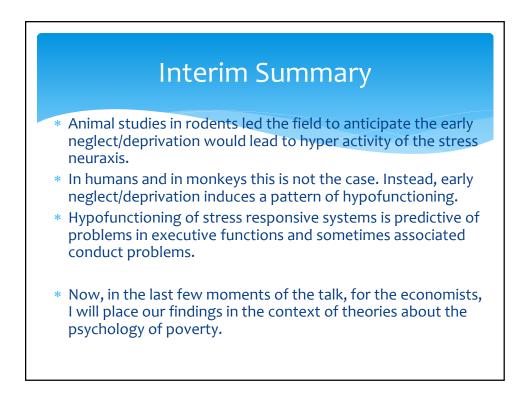




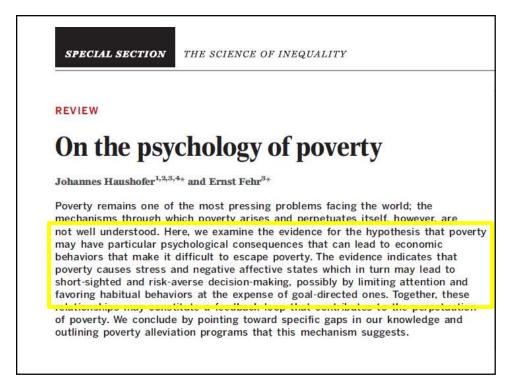








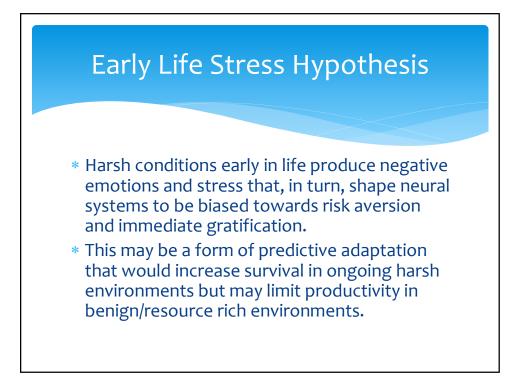




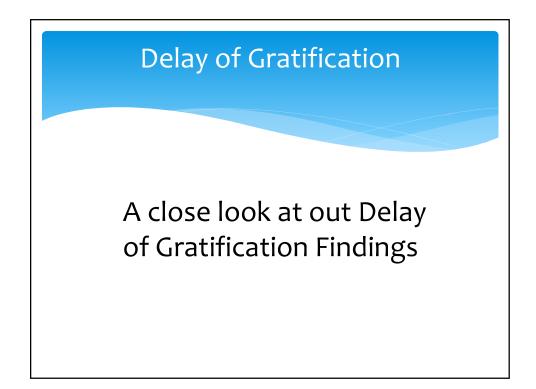
Stress Effects on Risk Aversion and Delay Discounting

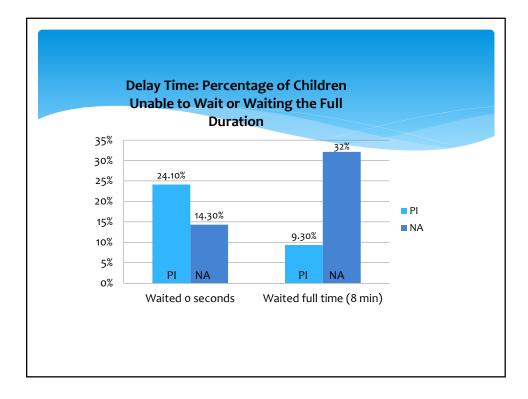
* Hanshofer & Fehr reviewed studies showing that pharmacologically elevating cortisol and/or manipulations that increase negative emotions

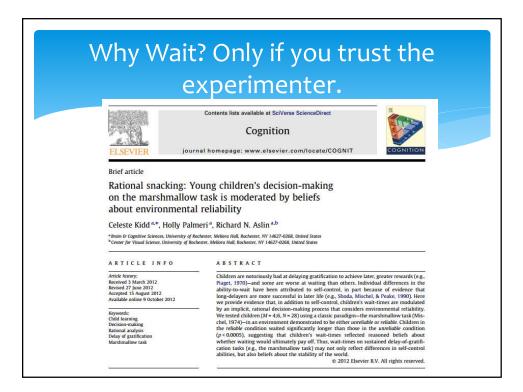
- *Increased Risk Aversion
- * Decreased Delay Discounting





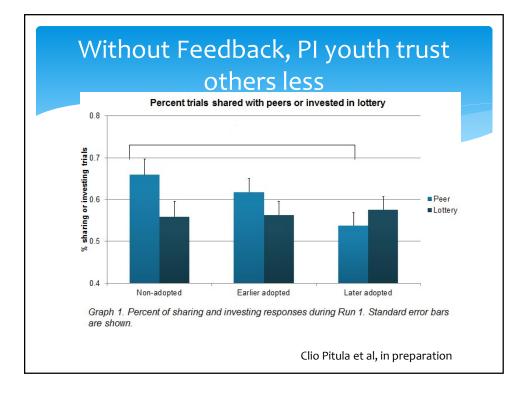


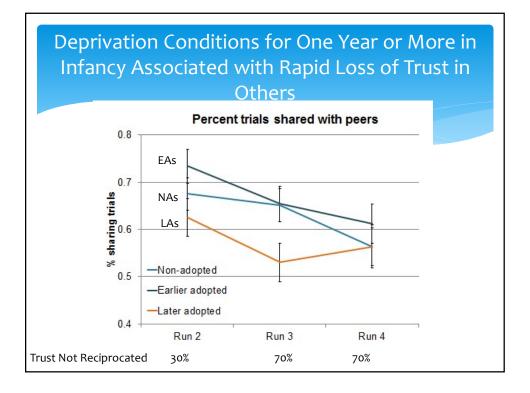


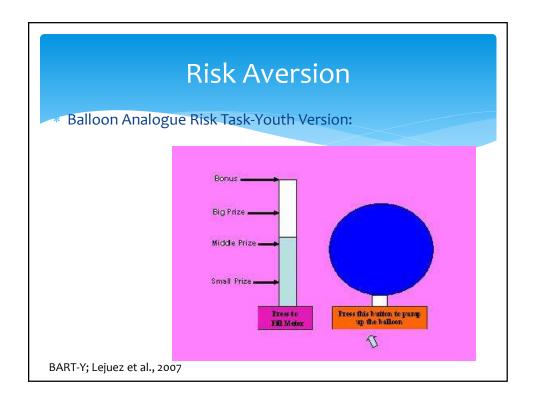


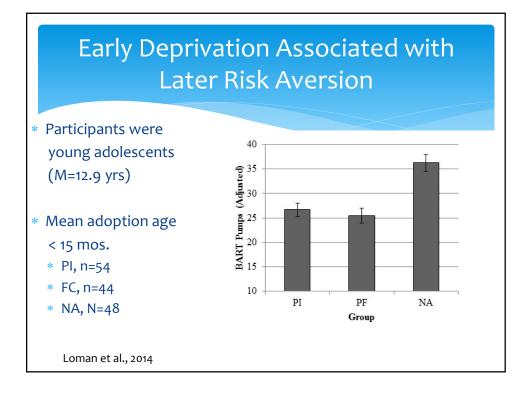
Trust and Decision Making in Post-Institutionalized Children: <u>Clio Pitula et al, Dev Sci, 2016</u>

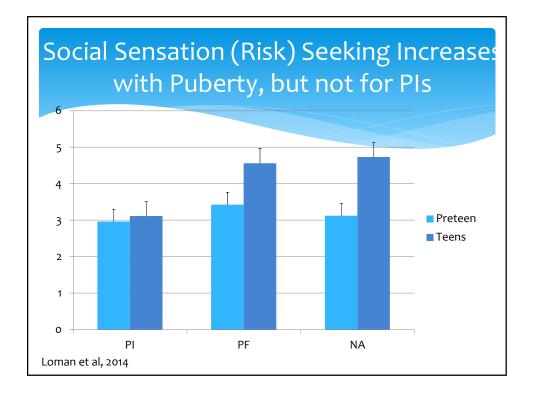
- * Youth ages 12-14 years
- * Adopted from orphanages between 2 mos and 5 years of age (early= <12 mos; late=> 12 mos)
- * Non-adopted comparison families of same SES as adoptive families
- * 30 in each condition: NA, Early and Late Adopted
- * Variation of the Trust Game developed by Berg, 1995
 - * Don't trust= no gain and no loss
 - * Trust and Trust not reciprocated=loss
 - * Trust and Trust reciprocated=big gain











Psychology of Povety Conclusions

- * So far, results suggest support for the hypothesis that conditions early in life are associated with setting biases affecting preferences for immediate vs delayed rewards, less trust in others, and less willingness to take risks.
- * If conditions have been harsh/low resourced early in life, conditions post infancy may not readily "reset" these biases.
- * Biases may continue to influence decision making into adolescence and perhaps into adulthood.
- * If moving a child into a highly resourced and supportive family doesn't "reset" these biases, what will?
- * We may need targeted interventions focused on the systems specifically altered by adaptation to harsh conditions early in life.



