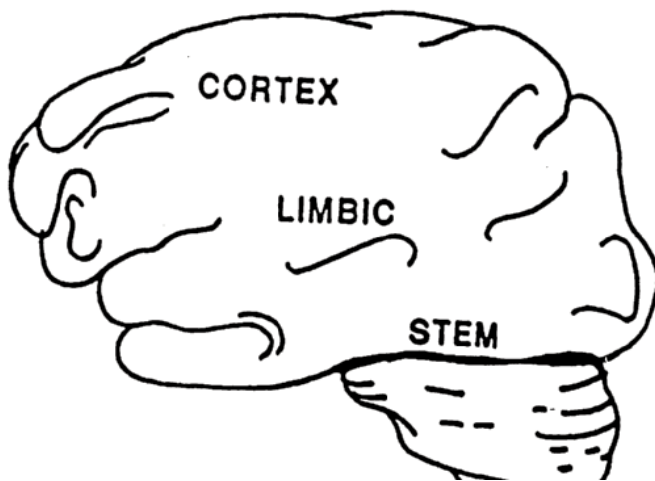


The Adolescent Brain and High Risk Behaviors

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Brain Facts: Why is this Brain at Risk?

200 Billion Cells

Migration and Activation

Emotional Intensity

Risk taking

Problem Solving

Risk Factors

Family Dysfunction

Emotional and Learning Disorders

School Failure/Social Isolation

Risk Factors

Emotional stressors

Boredom

Money

Additional Risk:

Males

Females

CONCERNS

BRAIN CHANGES:

1) Reward System Shutdown

2) Embedded Emotional Memory

LIFE CHANGES:

1) Limited Practice Skills

2) Dominant Response

Long Term Outcomes of Underage Drinking and Drug Abuse

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COMPONENTS OF TRUST

1. Reliability

2. Predictability

3. Faith

Prevention Strategies

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ADOLESCENT ISSUES RESOURCE LIST

Brizendine, Louann, MD, *The Female Brain*, Morgan Road Books, NY, 2006

Garbarino, James, and deLara, Ellen, *And Words Can Hurt Forever: How to Protect Adolescents from Bullying, Harassment, and Emotional Violence*, Free Press, NY, 2002.

Goleman, Daniel, *Emotional Intelligence: Why It Can Matter More than IQ*, Bantam, NY, 1995.

Goleman, Daniel, *Working with Emotional Intelligence*, Bantam, NY, 1998.

Gurian, Michael, *Boys and Girls Learn Differently! A Guide for Teachers and Parents*, Jossey Bass, San Francisco, 2001.

Gurian, Michael, *The Wonder of Boys: What Parents, Mentors and Educators Can Do to Shape Boys into Exceptional Men*, Tarcher Putnam, NY, 1996.

Howard, Pierce J., *The Owner's Manual for the Brain: Everyday Applications from Mind-Brain Research*, Bard Press, GA, 2000.

Lamb, Sharon, *The Secret Life of Girls: What Good Girls Really Do – Sex Play, Aggression and Their Guilt*, Simon and Schuster, New York, 2001.

Ponton, Lynn, *The Romance of Risk*, University of California

Restak, Richard, *The Secret Life of the Brain*, Dana Press, NY, 2001.

Simmons, Rachel, *Odd Girl Out: The Hidden Culture of Aggression in Girls*, Harcourt Inc., New York, 2002.

Walsh, David, *Why Do They Act That Way? A Survival Guide to the Adolescent Brain for You and Your Teen*, Free Press, NY, 2004.

ADOLESCENT ISSUES RESOURCE LIST,

Ongoing Research:

Brain Chemistry in Teens:

Sandra Witelson, McMaster University, Ontario, Canada

Brain Chemistry in Teens – Amygdala Function:

Jay Giedd, National Institute of Mental Health

Limbic System in Teens:

Deborah Yurgelun-Todd, McLean Hospital, Belmont, MA

Gender Differences in Neurochemistry in Teens:

Francine Benes, McLean Hospital, Belmont, MA

Risk Taking in Teens:

Marvin Zuckerman, University of Delaware

Web sites:

Brain Development:

www.dana.org

www.nida.nih.gov and www.Brainconnection.com

Teens and Drugs:

Lloyd Johnson, “Monitoring the Future” Study

www.nida.nih.gov

Center for Adolescent Studies, Indiana University, IN

<http://www.indiana.edu/~cafs/>