

BIOLOGICAL OR CULTURAL PERHAPS A BIT OF BOTH

A biological and cultural perspective of casual sex

THE HOOK-UP

Hook-Up(The Un-relationship)

- The most common way young people, male/female and gay/strait people relate intimately to each other (Stepp, 2007)
- Feelings are discouraged
- Doesn't always mean sexual intercourse
- Can be one time, with a stranger, friend, acquaintance, ongoing
- Just to meet a physical need or just for fun.
- Often involve being under the influence of drugs or alcohol (Desiderato & Crawford, 1995).

Appeal of the Hook-Up or Casual Sex

- Exciting-feel as being rebellious, or being caught
- Adds a sense of mystery
- Appealing because each partner has no expectations of the other and can be uninhibited
- Adds a bit of enjoyment to life

Risks of Casual Sex

- Unknown history of the partner
- Unknown risk of STI's (Sexually Transmitted Infections)
- Even asymptomatic individuals have infections
- Condoms are safer than nothing---but not necessarily SAFE (and therefore, without risk)
- Psychological impact

Theoretical framework

- Sexual activity releases chemicals into the brain and this causes emotional bonds between partners.
- Chemicals released in the brain can become addictive
- Breaking these bonds can cause depression and make it harder to bond with someone else in the future

The Brain is Adaptable

- Not rigid
- Can grow and adapt
- Synapses can survive and strengthen we can see them flourish
- Synapses can disintegrate and we see the brain weaken

Inside the Adolescent Brain

- MRI-allows observation of the brain as it grows and develops
- Functional MRI-uses MRI to observe how much oxygen a portion of the brain is using
- PET scan-a medical imaging technique that gives a three-dimensional map by measuring the blood flow in a particular area of the body
 - Different areas are highlighted as blood flow increases to areas affected by differing emotions

Prefrontal Cortex

- Explosion of growth of brain neurons
 - In the few weeks prior to birth
 - Just prior to puberty
 - Some of these areas are strengthened and others not stimulated.
 - The more a synapse is used the more it becomes ingrained in a personalities and structure of the brain

Prefrontal Cortex

- Responsible for cognitive maturity
- Maturity not necessarily linked to intelligence- possible to be very intelligent but not completely developed in the prefrontal cortex
 - The ability to make sound judgments can be compromised with less maturity
 - Less likely to make sound judgment with younger age

- Neurochemicals
 - Dopamine
 - Makes us feel good when we do something exciting
 - Produces a feeling of excitement or well-being
 - Has a role human behavior, cognition, motor activity, motivation, and reward.
 - Is Values Neutral-meaning that it rewards all kinds of behavior without distinction
 - Is a powerful motivator-rewards for risky behavior-(leaving home for independence)-with a feeling of satisfaction

Dopamine

- Overstimulation-can lead to relative resistance of the brain to dopamine
 - Leads to over-seeking the behavior that lead to dopamine release (Needs more "drug" for same "high")
- Values Neutral
 - Reward for healthy life-enhancing excitement
 - Reward for exhilarating but unhealthy and destructive behavior
 - Use of non-prescription drugs
 - Excessive drinking
 - Thrill-seeking behavior (Speeding, Racing)

Dopamine

Sex

- One of the strongest generators of the dopamine reward (McIlhaney & Bush, 2008)
- Teenagers are vulnerable to falling into a cycle of dopamine reward for unwise sexual behavior
- This dopamine reward is, however, for married couples because it "addicts" them to each other

Oxytocin

- Important to healthy sex and bonding
- Primarily active in females
- Produces a cumulative effect once bonding has begun
- Is also VALUES Neutral
- Results in long-term connectedness
 - In America —when marriage is intact it is rare for a woman to have intercourse with someone other than her husband
 - Bonding of the mother and father greatly increases the chance for a child to be raised in a nurturing two-parent home
 - Bonding is not just an emotional feeling-it is more like the effect of adhesive glue, which can not be undone without great emotional pain (Eisenburger & Leiberman, 2004)

- Oxytocin
 - Action of oxytocin
 - Bonding and trust in the other person
 - Causes uterine contractions that cause birth
 - Helps produce the flow of milk to nourish infant
 - Reasons for oxytocin release
 - Meaningful or intimate touching with another individual
 - Sexual intercourse
 - Onset of labor in pregnant woman
 - Nipple stimulation after delivery of an infant

- Vasopressin
 - Causes male brain response during intimate physical contact
 - Leads to a bonding of a man to his mate
 - Helps bond a man to his offspring
 - Is commonly called the "monogamy molicule"
 - Just like dopamine & oxytocin are VALUES neutral
 - Important to the survival of our race

How it affects women

- Teens and sex
 - 4 in 10 girls having sex beginning at 13-14 report having unwanted or forced sex (Wallace, 2008).
 - 4 in 10 girls become pregnant at least once prior to age 20 (and 80% of these are unplanned pregnancies)
 - Sexually active teens are only 25% of those who are sexually active but 50% of the STI's

Chlamydia

- 75% of Chlamydia occurs in people <25 y/o
- Estimates state that by the time a women reaches age 30, about half will show evidence of Chlamydia.
- Experts estimate infertility rates to double in the next decade (to about 1 in 3)
- Up to 25% of women will get re-infected within 3-6 months

Gonorrhea

- Rates have increased for two consecutive years
- Cause of the increase is unclear
- Rates of drug (Fluroquinolone) resistant gonorrhea on the rise and now at 14%
- CDC now recommends treating all MSM or PID with Cephalosporin therapy

Human Papilloma Virus (HPV)

- One of the most common STI's in those who are sexually active < 22y/o
- Estimates state 28-46 percent of females affected are < 25 y/o age
- Estimates of 3-5 % of HPV is visible as warts
- Condom use is recommended
- Gardasil is available
- Pap smears annually still important

HIV (In the US)

- 25% of new cases are in people who are age
 13-21.
- Increased risks with rectal intercourse
- About 50% of cases each year are from MSM
- Transmission rates different than expected
 - 53% MSM contact
 - 31% male-female contact
 - 12% IV drug use

Syphilis

- Rates have risen 13.8% from 2005 thru 2006
- Seeing an increase in what was considered a preventable problem
- Increased rate among African-Americanswith the rate about 6 fold
- Increase in women
 - First increase in numbers of babies that have needed treatment due to exposure in the womb

Herpes (Type 2)

- One of the most common STI's in the U.S.
- Estimates are that 20-40 % of people have HSV type 2
- Estimates are 50-80% of people have HSV-1
- HSV type 1 can be transmitted by oral/genital contact as well
- Condoms/barriers offer less protection, but still important

Hepatitis (B and C)

- Vaccination from HEP A and HEP B are available and recommended.
- Infections are spread by contact with blood, semen, IV drugs, or perinatal transmission
- No vaccine available for type C
- Rates stable since 1992 for types B and C

The Next Step: Where do we go now?

- How can we help
 - Teaching correct information
 - Listening to others
 - Fostering communication between those involved
 - Provide a nurturing environment to our children

Further Suggestions

- Encourage screening and testing for both asymptomatic and symptomatic individuals
- Encourage safer sex practices as well as abstaining
- Be open and aware that emotions and physiologic changes are working in concert to impact our lives
- The culture and biology of the situation may be at work during a situation and it all needs consideration

Further Research

- More research needs to be done to give consideration to how lifelong bonds are created and nurtured
- Research needs to be done on how we as nurses can provide culturally sensitive care even when challenged with unusual cultural circumstances
- We should promote research on disease prevention and follow-up for the different types of infection as well