

KIDS IN THE CANDY STORE

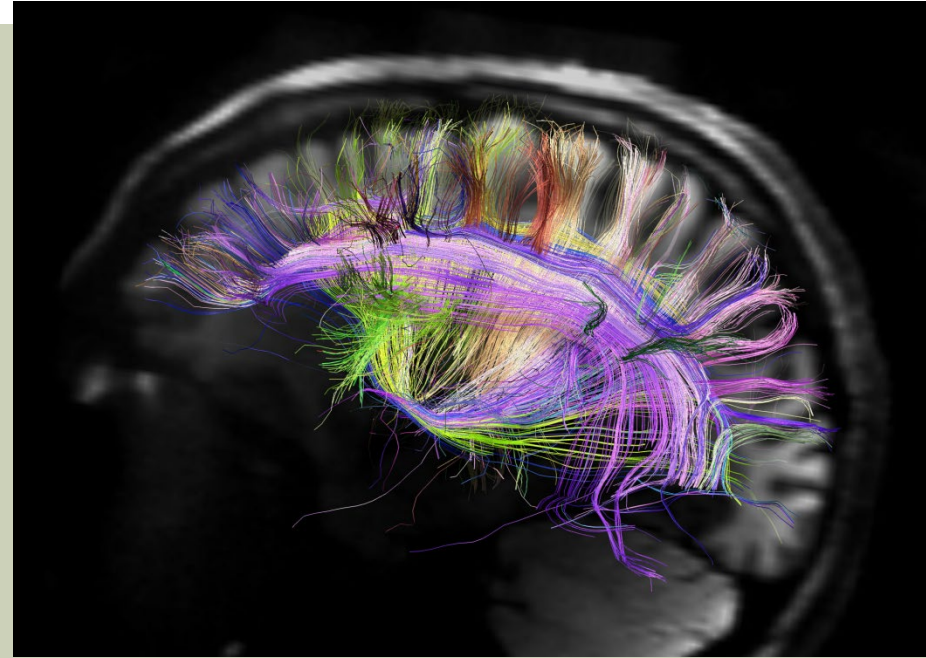
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Intoxicants in
the Home

THE ADOLESCENT BRAIN FACTOR

■ Emotional Intensity

- Ages 11 – 24 years
- Amygdala
 - Hormones
 - Larger and more active
- 2 to 4 times

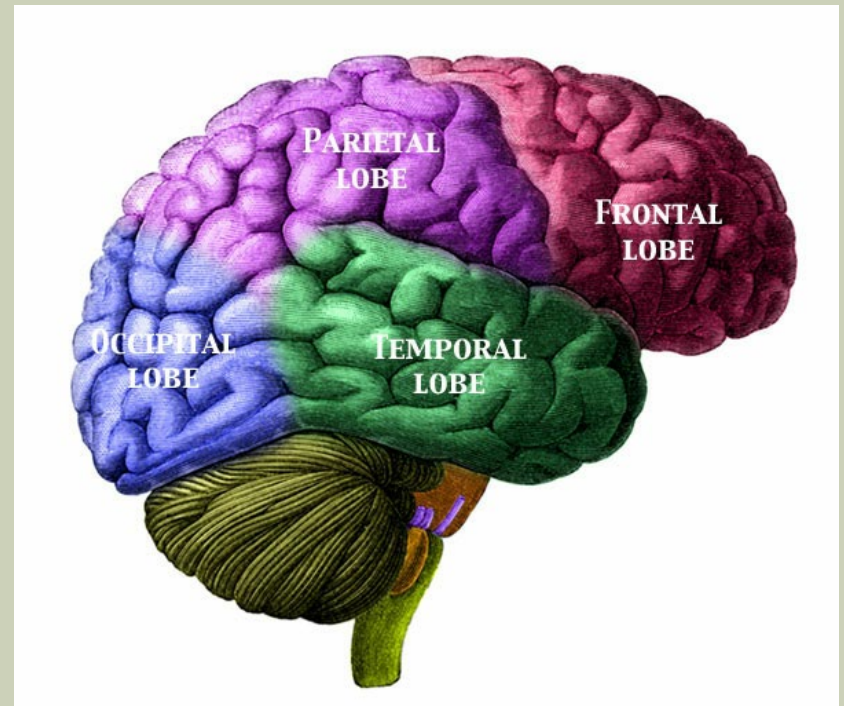


<https://images.nonexiste.net/popular/2012/03/30/diffusion-spectrum-imaging-reveals-an-orderly-weave-of-nerve-fibers-in-the-brain/>

THE ADOLESCENT BRAIN FACTOR, CON'T.

■ Risk Taking and Peers

- Change at 13 years old
- New sites appear in brain
- Emotional reward for risk taking
- Peer influence



BRAIN FACTOR, CON'T.

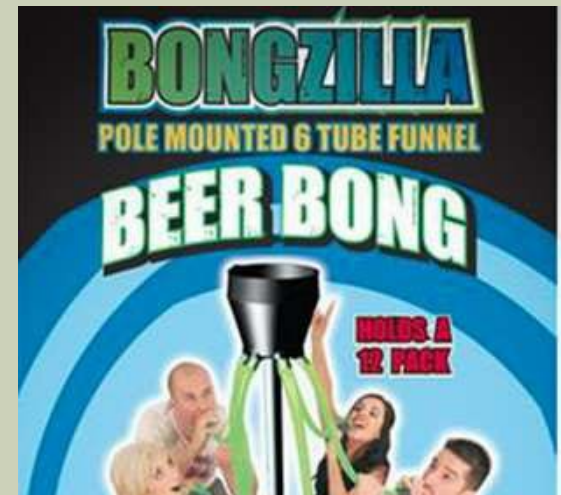
■ Social Media

- YouTube, TikTok, Instagram, Snapchat, Twitter, WhatsApp
- Instant information
- Personal communication
- Possibly anonymous
- Nearly every young person has access



CULTURAL AND ENVIRONMENTAL INFLUENCES

■ Role Models

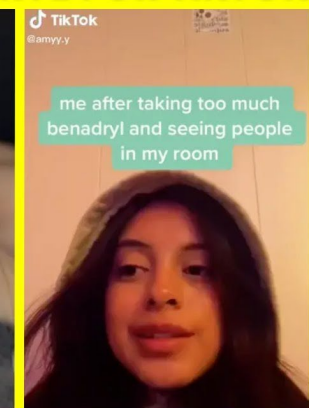
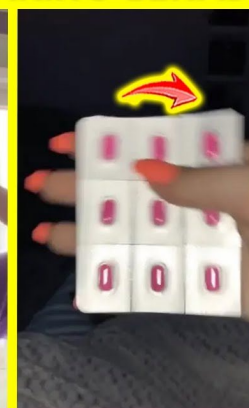


■ TV



■ Soc

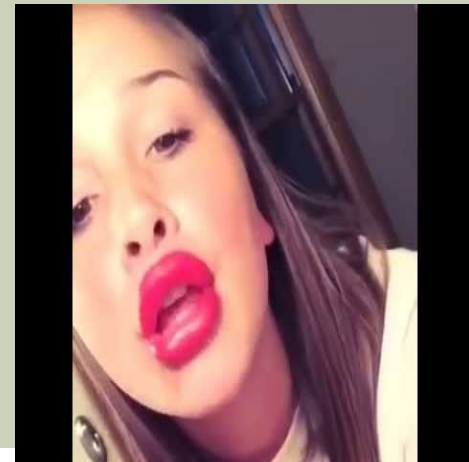
TEENS ARE TAKING BENADRYL FOR TIKTOK



© RIVER TRIPS © CAMP SITES

RISK TAKING

■ Kylie Jenner Challenge



RISK TAKING



THE CHOKING GAME AND SOME OF THE LIVES IT'S TAKEN



Josh Huntington - 18
York, Pa., USA
May 7, 1989 - Nov 14, 2007



Leo McPhee - 18
San Jose, N.C., Canada
Sep 26, 1989 - March 21, 2005



Eric Matthew Greenup - 15
Aliso, Texas
April 1, 1990 - Dec 1, 2005



Sean Sanders - 16
Lakewood, N.H., USA
Sep 26, 1989 - Feb 13, 2003



Utah Thomas Gilard Martin - 12
Albuquerque, New Mexico
April 16, 1990 - Nov 14, 2008



Erik Robinson - 12
San Jose, California
Jan 27, 1990 - April 20, 2010



Cody Ryan - 14
London, Michigan
Jul 1, 1997 - May 11, 2008



Tyler Mison - 13
Boulder, Colorado
Feb 1, 1990 - Sep 6, 2003



Laurian Joy Brunker - 13
Boulder, Colorado
Feb 23, 1997 - Jul 4, 2010



Brianna Reid Concan - 12
Gainesville, California
Oct 3, 1993 - June 15, 2010



Skylee W. Smith - 12
York, Pa., USA
April 4, 1995 - May 8, 2003



Braden Erickson - 13
Tulsa, Arizona
Feb 19, 1992 - May 20, 2003



Austin H. Rasmussen - 18
Tulsa, Oklahoma
Feb 20, 2002 - March 11, 2012



Jacob - 13
Levy, Florida
Feb 26, 2010



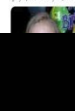
Cayden Scott Wines - 12
Norwalk, Ohio
Dec 12, 1994 - Jan 7, 2007



Marsha Lynn Boddie West - 15
Vicksburg, Mississippi
Dec 9, 1993 - Jan 16, 2005



Alex Quinley - 18
Farmington, New Mexico
Jan 20, 1990 - Nov 16, 2009



Dallas Trevi Stover Drenth - 13
Farmington, New Mexico
Jan 12, 1993 - Oct 26, 2008



Jay Smith - 17
Tulsa, Oklahoma
April 1997 - Aug 1999



Kelly Carlie LaRoque - 18
Hillsdale, New Jersey
Nov 20, 1987 - Jan 2, 2006



Justin Paul Butler - 16
Tulsa, Oklahoma
Jan 20, 1990 - Nov 16, 2009



Joshua Leo Eagle - 13
Boulder, Colorado
Aug 1990 - Nov 21, 2011



Thomas Evan Hyder - 12
Joliet, Illinois
Aug 10, 1984 - March 10, 1997



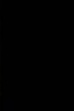
Miracles - 15
St. Louis, Missouri
Feb 29, 2010



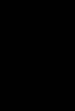
Harry Robinson - 13
England
March 16, 1996 - Jan 7, 2010



Harry Kane - 16
England
Feb 17, 1994 - Jan 7, 2010



Justin Isaac Linkins - 14
Williamstown, North Carolina
Feb 18, 1995 - April 23, 1999



Nicholas Gocher - 14
New France, New France
Nov 6, 1985 - Sep 20, 2000



Doran Richard - 11
Saint-Louis-de-France, Quebec
Oct 11, 1990 - Jan 26, 2011



Nicholas Ryan Dossally - 16
Pittsford, Ohio
March 24, 1994 - Oct 17, 2010



Thomas Evan Hyder - 12
Joliet, Illinois
Aug 10, 1984 - March 10, 1997



Gage Andrew Weeks - 12
Shelburne, Wisconsin
Oct 29, 1999 - Sep 15, 2012



Zachary Michael Hughes - 15
Illinois City, Illinois
Dec 17, 1991 - Aug 3, 2007



Zebby Jim Belgrave - 14
Hillman, Kentucky
June 20, 1997 - Aug 3, 2011

Xavier John Darr - 15
Joliet, Illinois
June 8, 1999 - May 21, 2006

Jack Martin Doyle - 15
Waukegan, Wisconsin
Nov 8, 1992 - Oct 25, 2010

Alexa Beth Sorenson - 14
Tulsa, Oklahoma
Oct 28, 1995 - Oct 5, 2008

Billy Jay Crow - 11
Burlington, Ohio
Dec 28, 1998 - Dec 23, 2010

Brody Everett Hagmann - 14
Bloomington, Illinois
Dec 14, 1997 - April 4, 2012

David C Wright - 13
Lawrenceville, Georgia
April 19, 1997 - Oct 8, 2010

Drew Paul Allen Fink - 11
Shelburne, Wisconsin
March 17, 1999 - March 12, 2010

Florian Tiel - 13
Greny, Switzerland
May 20, 2009

Gage Andrew Weeks - 12
Shelburne, Wisconsin
Oct 29, 1999 - Sep 15, 2012

Zachary Michael Hughes - 15
Illinois City, Illinois
Dec 17, 1991 - Aug 3, 2007

Zebby Jim Belgrave - 14
Hillman, Kentucky
June 20, 1997 - Aug 3, 2011

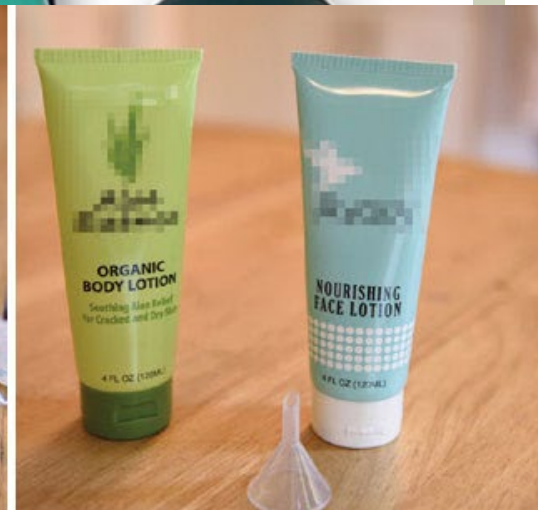
SOURCES

- Your House/Grandma's House
- A Friend's Home
- The School
- The Neighborhood
- The Internet



HIDDEN TREASURES

- Common articles for hiding drugs



PATTERNS

- As Needed

- Medication for Feelings

- 4 out of 10

- Negative Emotions



PATTERNS

- Recreation

- Disinhibition

- Anxiety Reduction

- Euphoria



PATTERNS

- Cross-generational

- Other Siblings' Medications
- Parents Medical/Recreational
- Kids use grandparents' drugs and products



DRUG COMBINATIONS

■ Enhance Primary Drug Effect

- Boost the initial drug
- Slow metabolism
- Grapefruit juice



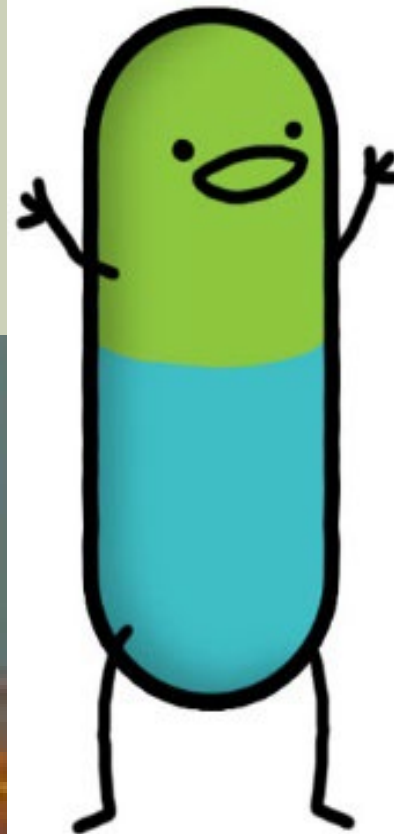
DRUG COMBINATIONS

- **Alleviate Withdrawal**
 - Mask the withdrawal symptoms
 - Two separate systems
 - One system suppression



DRUG COMBINATIONS

- Reduce Negative Side Effects
- Minimize unpleasant effects



Side effects may include death!

DRUG COMBINATIONS

■ Dewshine



ALCOHOL AND CAFFEINE

■ Impact on Brain

- Two systems activated
 - Stimulatory – caffeine
 - Biphasic – alcohol
- Harvard University study
 - “Wide Awake Drunk”



ALCOHOL AND CAFFEINE: RISK FACTORS

■ Physical

- Energized
- Uncoordinated
- 30% drop in glucose uptake in motor cortex
- 30% drop in glucose uptake in visual cortex
- Slower reaction time



ALCOHOL AND CAFFEINE: RISK FACTORS, CONT.

■ Behavioral

- Sense of competence
- Aggressive social interactions
- Twice as likely to suffer physical injury
- Twice as likely to get in fights
- Twice as likely to be either a victim or a perpetrator of sexual assault

ALCOHOL AND CAFFEINE: RISK FACTORS

■ High risk when operating any moving vehicle

- Auto/motorcycle
 - 32% of all crashes alcohol-related
- Boat
 - 60% of fatalities alcohol-related
- Bike/skateboard



■ High risk:

- Swimming
- Heights
- Parties

ALCOHOL: COMBINATIONS

■ Robo-shots

- Dextromethorphan
- Opioid cough suppressant
- Plus alcohol
- Rapid and powerful intoxication
- Motor control
- Impulse control
- Delusional



ALCOHOL: OTHER PRODUCTS

- **Hand Sanitizer**

- 68-72%

- **Mouthwash**

- As much as 27% Alcohol

- Can be purchased with zero alcohol

- **Vanilla Extract**

- 35% Alcohol



ALCOHOL STUDIES

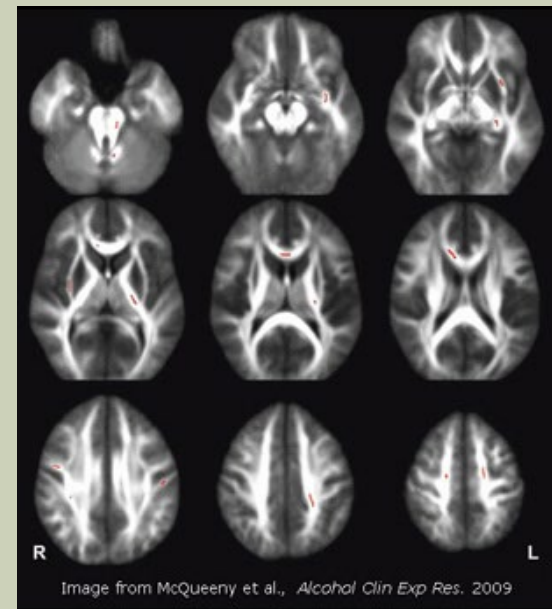
- Duke Study
- 23+ NMDA
- Calms and sedates
- 23- NMDA
- Stimulates and excites
- Calcium override



ALCOHOL: IMPACT ON ADOLESCENT BRAIN, CONT.

■ NMDA pathways

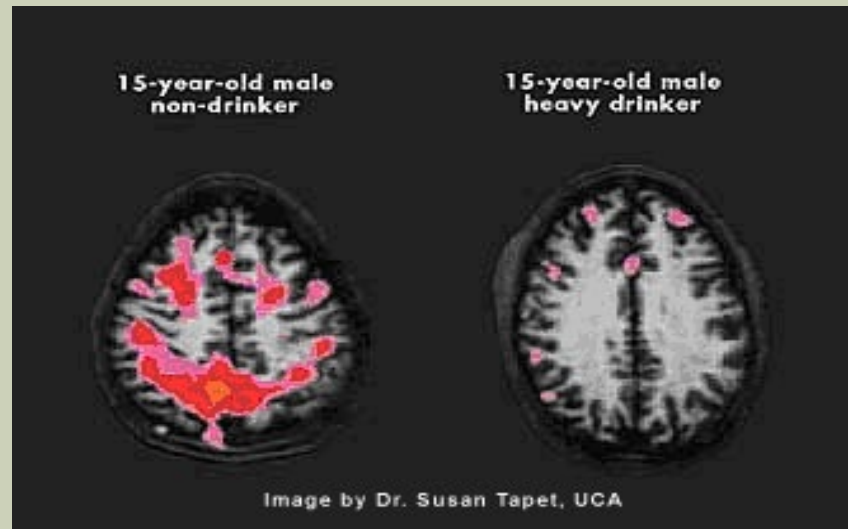
- 48 hours – calcium overrun
- Cell death
- One year of binge drinking
 - 10% loss of PFC volume
 - Logic, reason, executive function



ALCOHOL

■ 10% Loss of Volume in Hippocampus

- Memory
- Motivation
- Social Behaviors



ALCOHOL: SOCIAL BEHAVIORS

- **Heavy drinkers in adolescence:**
 - 7 times more likely to have multiple sexual partners
 - 6 times more likely to cut class in college; skip school in middle and high school
 - 4 times more likely to engage in vandalism and theft
 - 3 times more likely to get in fights
 - 3 times more likely to be self-injurious

ALCOHOL: THE COSTS

- **Thirteen teens die each day in the US**
- **600,000 HS and college students injured per year**
- **70,000 alcohol-involved sexual assaults per year**
- **Drop outs/Flunk outs**
- **Unwanted pregnancies**
- **Addiction potential**

ALCOHOL AND PAIN PILLS

- Rx Meds

- Opioids



ON THE HORIZON

■ Other Opioids

Zohydro Rx pain

Codeine Rx pain and cough

Imodium OTC

Gabapentin and Lyrica
nerve pathway

NEW PRODUCTS

■ Marijuana edibles

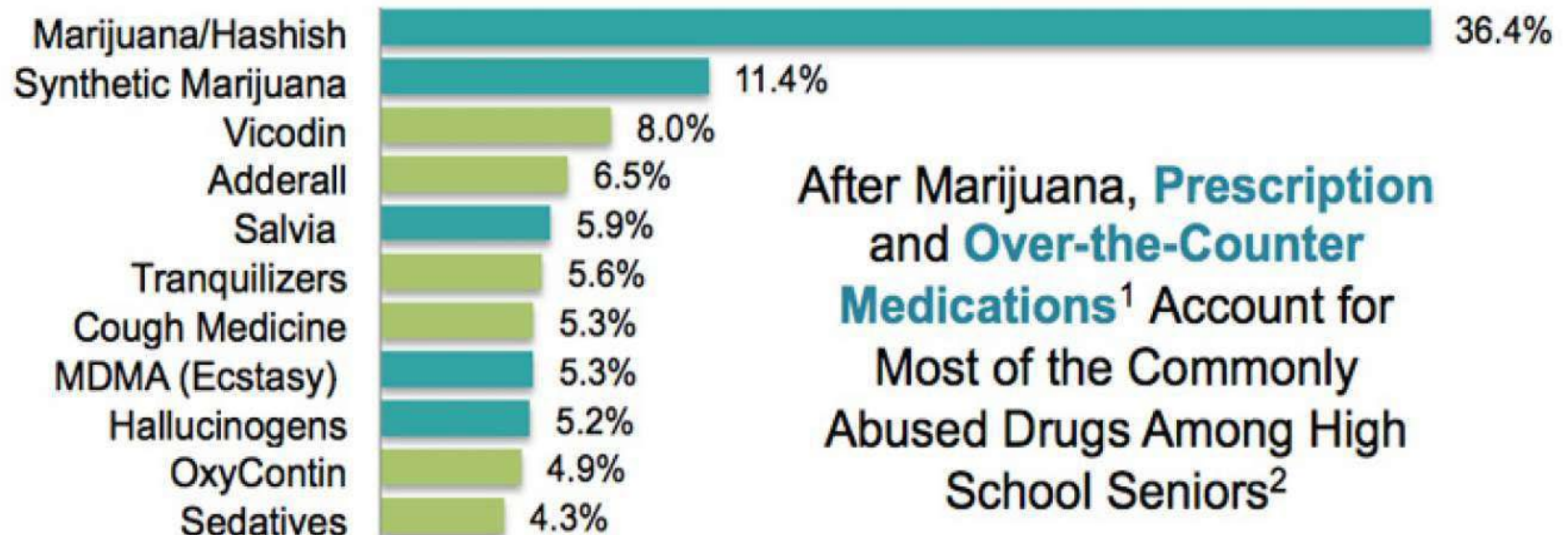


NEW PRODUCTS: DABBING

- Butane Hash Oil
- Amber, Shatter, Ear Wax



RX AND OVER THE COUNTER



OVER THE COUNTER DRUGS

Availability



Photo source: www.1dalawyersblog.com

Many over-the-counter (OTC) and prescription drugs are readily available.



OTC

- Allergy Medications

- Cough suppressants

Depressant plus alcohol

- Antihistamines

- Decongestants
Stimulatory

Acetaminophen often added



UNDER THE SINK/IN THE GARAGE

Inhalants



- Chemical fumes /nitrous oxide
- Found in products such as Reddi-wip, Dust Off and other aerosols. Metallic spray paints are preferred.
- Inhaling from a paper or plastic bag "bagging", and huffing (inhaling) from a soaked rag.
- Causes hypoxia, can result in death from the very first use

SOLVENTS/PROPELLANTS

■ Solvents

- Cleaners for computer keyboards
- Vegetable oil spray
- Spray paint
- Whipped cream cans (also referred to as whip-its or whippets)
- Hair sprays
- Spray deodorant
- Canned air fresheners
- Fabric protector spray

■ Nail polish and NP remover

- Brain Damage, organ damage and SSD

VOLATILE GASES

■ Hydrocarbons

Gasoline, Butane, Propane



FROM THE KITCHEN

- Nutmeg/Mace
 - Long lasting
 - Side effects
 - Hallucinogenic



SPECIAL CIRCUMSTANCES

- A Day at the Beach
- Spring, Summer, and Fall
- Open water drownings
- Male /Female



SOCIAL MEDIA / RISK TAKING

- GoPro/YouTube

- High T + H2O = 1+1+1+1+1+1+1+1+1 = DD

- ETOH + T + H2O = 50%

E + H2O = 1

DD

Open water 3x



WHAT TO DO

- Online Research

Yours and Theirs

- Know your Medications

Check numbers and levels

Same with Alcohol and household products

PAY ATTENTION TO INTUITION

- Keep the lines open
- What are your beliefs?
- Watch for changes
- Denial is not just a river in Egypt
- Ask for Help