



# HEROIN

## MODULE 8

### **ALLIED TRADES ASSISTANCE PROGRAM**

PREVENTATIVE EDUCATION: SUBSTANCE USE  
DISORDER



# WHAT IS HEROIN

HEROIN IS A CONCENTRATED FORM OF OPIUM, THAT HAS DETERMINED THE HISTORY OF NATIONS, BEEN THE CAUSE OF MAJOR WARS AND TODAY HAS BECOME OUR NEWEST EPIDEMIC.







HEROIN

THE MOTHER DRUG OPIUM IS RAPIDLY GAINING  
A HOLLYWOOD IMAGE IN AMERICA -- THANKS  
TO ITS REFINED FORM: HEROIN





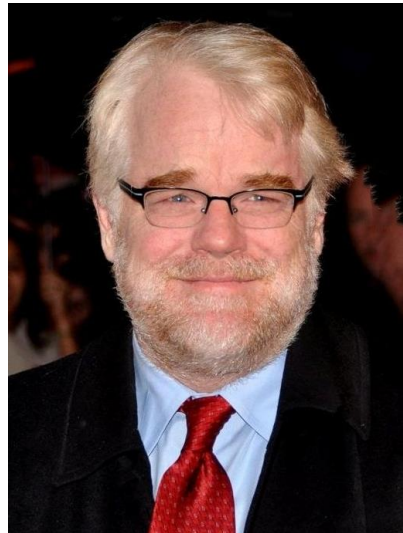
THE DEATHS OF SINGER **CURT COBAIN**  
(SUICIDE) AND ACTOR **RIVER PHOENIX** (OD)  
BEGAN THE RISE OF HEROIN AS THE LATEST  
“GLITTER” DRUG





## RECENT CELEBRITIES WHO DIED FROM HEROIN

- CORY MONTEITH DIED AS THE RESULT OF A TOXIC COMBINATION OF ALCOHOL AND HEROIN ON JULY 13, 2013 AT THE YOUNG AGE OF 31. HE HAD STRUGGLED WITH ADDICTION AS A TEEN, BUT HIS DEATH CAME AS A SHOCK TO BOTH HIS FRIENDS AND FANS. HE STARED ON THE TV SHOW “GLEE.”
- PHILIP SEYMOUR HOFFMAN DIED IN FEBRUARY 2014 FROM A MIXTURE OF HEROIN AND COCAINE AT THE AGE OF 46





# HOW IS HEROIN TAKEN?

- INHALED THROUGH THE NOSTRILS
- INJECTED UNDER THE SKIN (SKIN POPPING)
- INJECTED DIRECTLY INTO A VEIN (MAINLINING)
- SPRINKLED ON A “JOINT” SMOKED





# DIFFERENT FORMS OF HEROIN

*THE FOLLOWING DETERMINE  
DIFFERENT TYPES OF HEROIN:*

- COLOR
- PHYSICAL STATE
- PRODUCING REGION
- HEAT STABILITY
- WATER SOLUBILITY
- LEVELS OF PURITY
- AND 'CUTS'



*MOST STREET HEROIN IS CUT WITH A  
WIDE RANGE OF SUBSTANCES SUCH AS:*

- SUGAR
- FLOUR
- CAFFEINE
- STARCH
- POWDERED MILK
- QUININE
- AND SOMETIMES FENTANYL



Brown Heroin is  
Easier to produce



It also Burns at a  
lower temperature,  
making it easier to  
smoke

**BROWN HEROIN  
(DIAMORPHINE BASE)**



# **BLACK TAR HEROIN**

Black Tar Heroin is A Dark, sticky substance of Mexican origin

Generally cheaper and faster to produce than white or brown heroin

Actual percentage of heroin is generally very low



White heroin is the Most refined heroin on the market

The Production is extremely dangerous due to the flammable nature of the chemicals used

It is Pure and water-soluble salt form of the drug which is typically used through IV

Ironically, it is not always white, so it is sometimes hard to identify; it could be pink, beige, brown, or off-white depending on the differences in chemicals used to produce it

# WHITE HEROIN

## (DIAMORPHINE HYDROCHLORIDE)



# HEROIN'S STREET NAMES

Dope

H

Junk

Smack

Big H

Hell Dust

Nose Drops

Thunder

Horse

Skag

Mr.  
Brownstone

H 12



# **COSTS OF HEROIN**

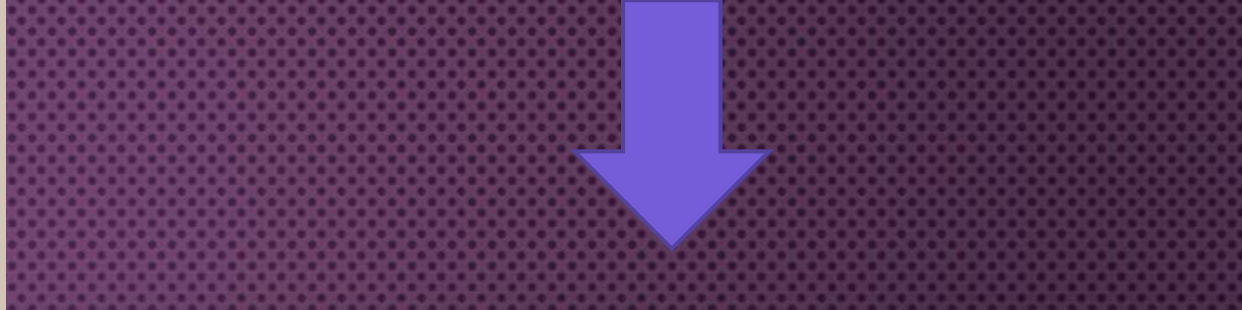


- \$10 STAMP BAG
  - 1 SINGLE USE – 100 MG
- \$80-\$100 BUNDLE (10 BAGS)
  - APPROXIMATELY 1 GRAM



# High Cost of Heroin

How heroin impacts the American economy



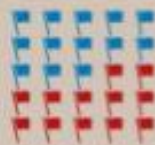
## Heroin only accounts for 5% of substance abuse



1. We need to **RETHINK** our strategy on drug policy
2. Petition Congress to change regressive drug policy
3. Advocate for prevention and treatment instead of incarceration



Rethink



Petition



Treat

The Scary Fact? These Statistics Were Published in 1996

**ASIA HAS TWO  
PRINCIPAL  
AREAS OF  
ILLICIT OPIUM  
PRODUCTION.  
THEY ARE  
CALLED:**

The Golden  
Triangle

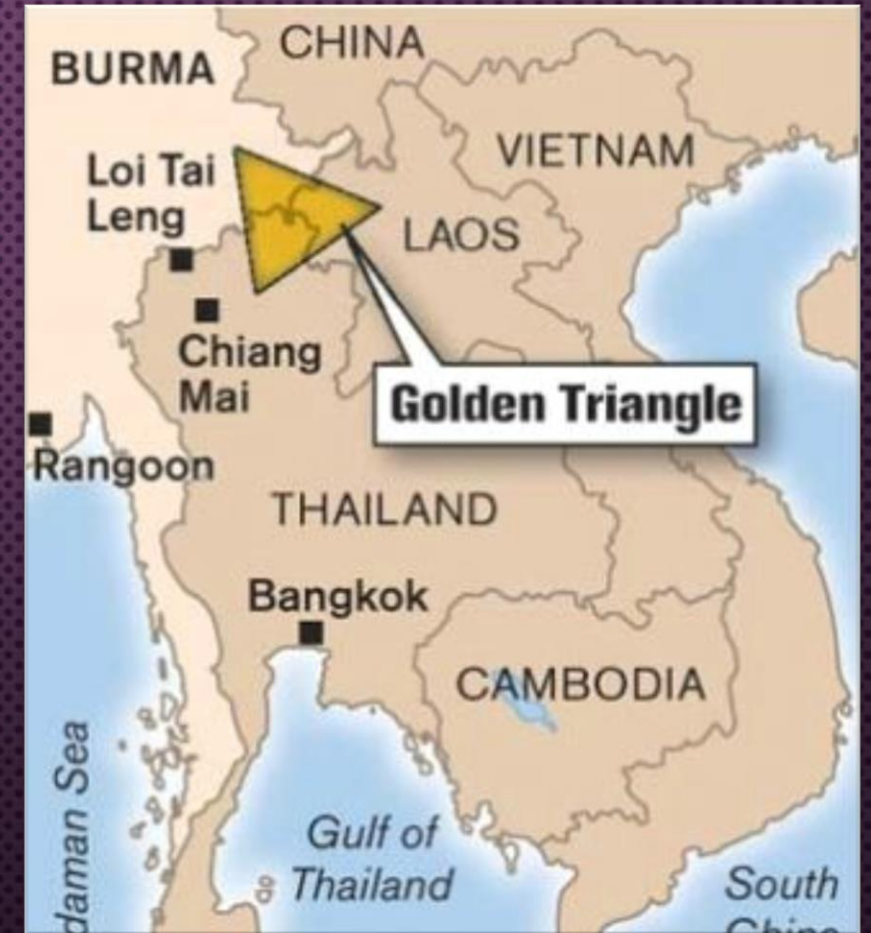
The Golden  
Crescent



# THE GOLDEN TRIANGLE

THE GOLDEN TRIANGLE IS AN AREA THAT INCLUDES: MYANMAR, NORTHERN THAILAND, AND LAOS (LAO PEOPLES DR)

- THE GOLDEN TRIANGLE IS THE 2ND LARGEST SOURCE OF OPIUM
- THE POPPY CULTIVATION IN MYANMAR HAS TRIPLED IN THE LAST 8 YEARS
- THE SHIPMENTS TYPICALLY GO TO EAST ASIA AND AUSTRALIA



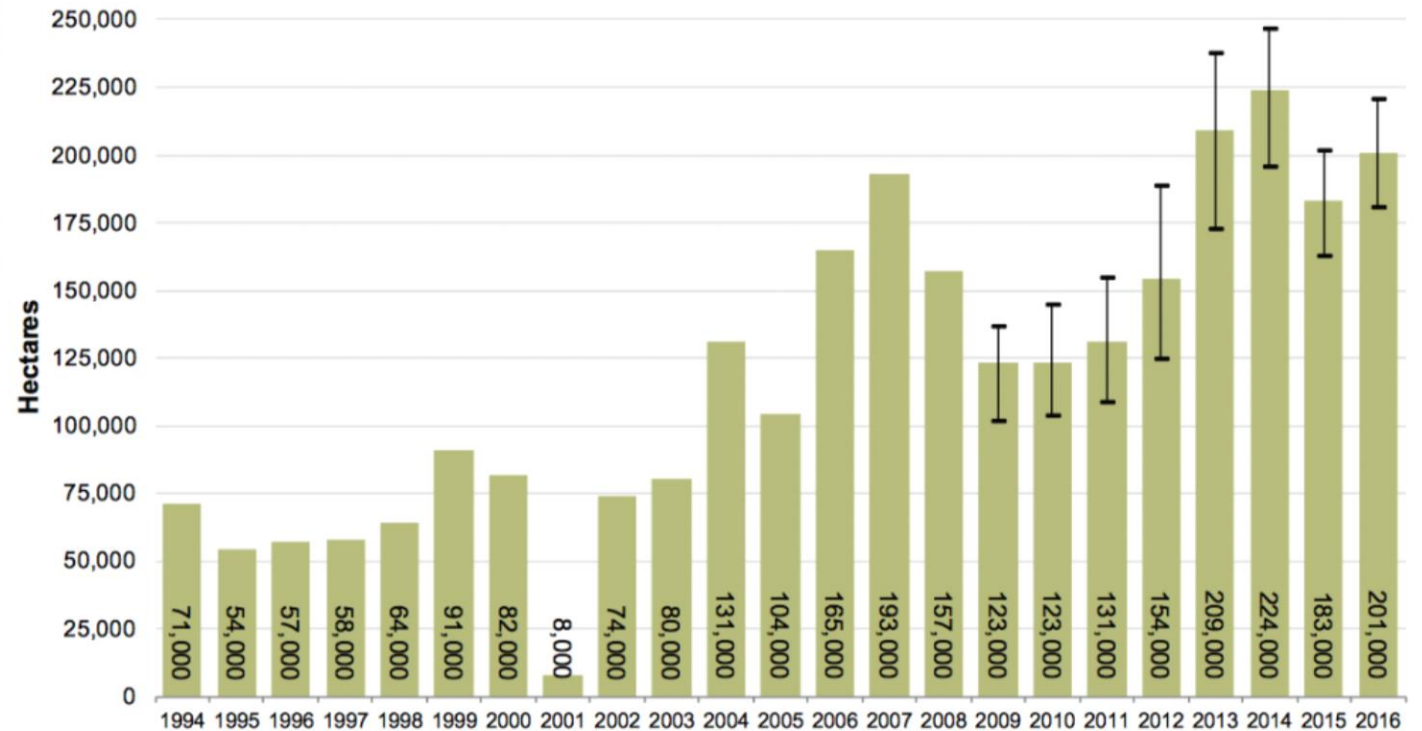


# THE GOLDEN CRESCENT

THE GOLDEN CRESCENT IS A REGION THAT INCLUDES: AFGHANISTAN, PAKISTAN, AND IRAN:

- THESE AREAS REPRESENT OVER 80% OF THE GLOBAL OPIUM PRODUCTION
- AFGHANISTAN'S ANNUAL PRODUCTION POTENTIAL FOR HEROIN HITTING OVER 600 TONS IN 2014

Figure 1: Opium poppy cultivation in Afghanistan, 1994-2016 (hectares)



Sources: UNODC/MCN opium surveys 1994-2016. The vertical lines represent the upper and lower bounds of the 95% confidence interval.



# WHERE DID HEROIN ORIGINATE?

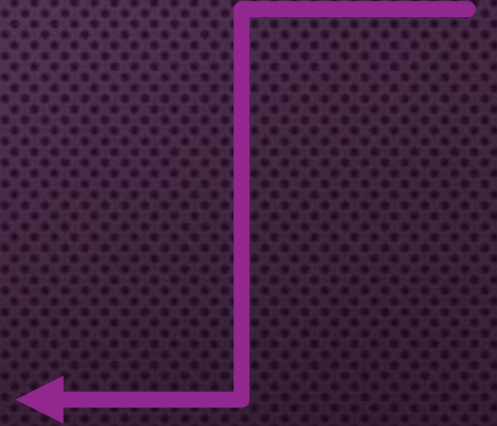
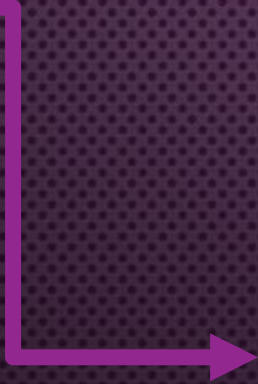
- TOWARD THE END OF THE 19TH CENTURY, A SMALL BUT IMPORTANT CHEMICAL TRANSFORMATION WAS MADE TO THE MORPHINE MOLECULE
- THE CHEMICAL CHANGE PRODUCED DIACETYLMORPHINE, A SUBSTANCE THREE TIMES AS POTENT AS MORPHINE







**Opiates, which include  
heroin, were once used to  
treat diarrhea, insomnia,  
psychosis, pneumonia,  
gastrointestinal issues  
and “female problems.”**







BAYER LABORATORIES GAVE  
THE NEW CHEMICAL THE  
BRAND NAME OF HEROIN AND  
PLACED IT ON THE MARKET IN  
1898.

HEROIN WAS ORIGINALLY  
MARKETED AS A NON-  
ADDICTING SUBSTITUTE FOR  
CODEINE



# USE INCREASES:



AFTER THE CIVIL WAR, THERE WAS A GROWTH IN THE PATENT MEDICINE INDUSTRY DUE PRIMARILY TO THE LARGE NUMBER OF MAIMED AND DISEASED VETERANS

AT THIS TIME, SOCIETY ACCEPTED THE USE OF OPIATES FOR MEDICINAL PURPOSES --- AND THE USE WAS INCREASING



IN 1906, THE PURE  
FOOD AND DRUGS ACT  
WAS PASSED, DUE TO THE  
CONCERN OVER THE  
NUMBER OF PEOPLE  
BECOMING ADDICTED TO  
OPIATES

## Pure Food and Drug Act



The Pure Food and Drug Act was passed in 1906. It provided the federal inspection of food products and medicines. This Act created the Food and Drug Administration, which protects and promotes public health.

### **New Drug Law!**

As passed by Congress under the Pure Food Act of June 3, 1906, has not effected our business. We adopted our motto, "Only the Best," long before Congress thought of such an Act. Call on us for fresh Colgan's Taffy Tolu and Dr. Hass' stock and chicken powders.

LYNE BROS, Crab Orchard Druggists.



IN 1915, THE SUPREME  
COURT RULED THAT  
POSSESSION OF  
SMUGGLED OPIATES WAS  
A CRIME, BUT  
PHYSICIANS CONTINUED  
TO SUPPORT THEIR USE







IN 1918, DATA WAS PRESENTED  
TO SUPPORT THE BELIEF THAT  
MEDICAL USE OF OPIATES  
INITIATED BY PHYSICIANS WAS  
THE NUMBER ONE CAUSE OF  
ADDICTION



- BY 1920, MOST CLINICS FOR THE TREATMENT OF OPIATE ADDICTS WERE CLOSED DOWN DUE TO GOVERNMENT PRESSURE
- SOCIETY NO LONGER APPROVED OF OPIATE USE AND BEGAN TO REGARD ADDICTS AS VILE, WEAK AND SELF INDULGENT DEGENERATES





**BY 1922, THE ONLY SOURCE FOR OPIATES  
WAS THROUGH ILLEGAL DEALERS**



HEROIN BECAME THE ILLEGAL DEALER'S CHOICE, SINCE IT  
WAS THE MOST POTENT OPIATE AND THE EASIEST TO  
CONCEAL



By 1925 —  there were 200,000 heroin addicts in the US.



**AFTER WORLD WAR II (1945), HEROIN USE SLOWLY  
INCREASED IN THE LOWER CLASS SLUM AREAS OF  
LARGE CITIES**



\$1.00 WOULD BUY ENOUGH HEROIN TO GET 3 TO 6 PEOPLE HIGH





BY 1961, A CRITICAL SHORTAGE OF HEROIN DEVELOPED

MEANWHILE, PRICES TRIPLED

ADULTERATION WAS HIGH - MEANING PEOPLE WERE BEING  
“RIPPED OFF” WITH PURITY BEING AS LOW AS 1%



# **1970: PUBLIC AND FEDERAL CONCERN FOCUSED ON THE USE OF HEROIN IN VIETNAM**



IN SOUTHERN VIETNAM, 95% PURE  
HEROIN WAS SOLD OPENLY AND WAS  
VERY INEXPENSIVE

FOR \$10 IN VIETNAM YOU COULD  
BUY WHAT WOULD COST \$500 IN  
THE UNITED STATES!





1975: MEXICO STARTS PROCESSING BLACK TAR: LOW  
PRICE, READILY AVAILABLE AND HIGHLY PURE



# 1980'S - 1990'S



NEW HIGH POTENCY HEROIN CAN BE MIXED WITH CRACK AND SMOKED OR INHALED FROM A CRACK PIPE. THAT INCREASED ITS APPEAL TO THE YOUNG GENERATIONS

ALSO, THE DEVELOPMENT OF SYNTHETIC HEROIN SUCH AS "CHINA WHITE" WAS DISCOVERED



Heroin appears to be on a parallel path with the previous cocaine epidemic

The casual attitude of today is similar to the attitude regarding cocaine snorting in the 70's and 80's

Heroin purity is very high and the drug is being snorted by all socioeconomic classes

**WHAT IS  
HAPPENING  
TODAY?**



Tolerance: It takes more and more of a drug to achieve the same effect

Cross-tolerance exists among all narcotics, if you develop a tolerance for one, you develop tolerance for all

## **CAUSES FOR CONCERN: TOLERANCE**





**DID YOU KNOW?**

AMERICANS DRINK MORE AND DO MORE  
DRUGS THAN ALMOST EVERY OTHER  
COUNTRY IN THE WORLD.



WHEN KIDS LEAVE HIGH SCHOOL  
AND HEAD TO THE WORKFORCE OR  
COLLEGE, THEY ARE COMPLETELY  
UNPREPARED TO COPE WITH HOW  
DRUGS AND ALCOHOL WILL EFFECT  
THEIR LIVES.



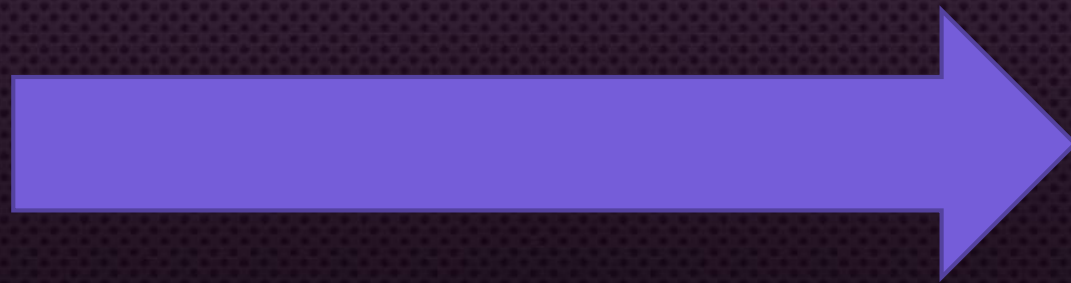
**80% OF HEROIN USERS  
INJECT WITH A FRIEND.  
WHICH IS WEIRD,  
BECAUSE 80% OF OVERDOSE VICTIMS  
FOUND BY PARAMEDICS ARE**

**ALL ALONE.**

Here's to looking out for yourself. At least you won't be alone in tha



HERE ARE A FEW THINGS  
THAT EVERYONE NEEDS TO  
KNOW ABOUT HEROIN...





THE HEROIN ON THE STREETS  
THESE DAYS IS NOT REALLY  
HEROIN.



IN THE LAST 5 YEARS, WE HAVE SEEN A  
VERY DEADLY AND VERY DANGEROUS  
TREND OF HEROIN BEING MIXED WITH  
MUCH MORE POWERFUL DRUGS SUCH  
AS FENTANYL AND CARFENTANIL.



Fentanyl is a synthetic opiate narcotic, a prescription drug used primarily for cancer patients in severe pain.



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graph TD; A[Fentanyl is a synthetic opiate narcotic, a prescription drug used primarily for cancer patients in severe pain.] --> B[It is 50 to 100 times more toxic than morphine.]; B --> C[Heroin, cocaine, oxycodone and other drugs can be cut with fentanyl, in powder, liquid or pill form.]; C --> D[You cannot see it, smell it or taste it.]; D --> E[Fentanyl abuse can result in death];
```

It is 50 to 100 times more toxic than morphine.

Heroin, cocaine, oxycodone and other drugs can be cut with fentanyl, in powder, liquid or pill form.

You cannot see it, smell it or taste it.

Fentanyl abuse can result in death

**FENTANYL**



Most recent study indicates a

73%

national increase in overdose death rate for illicitly-obtained opioids with fentanyl on the steepest rise.

In the **2016 DEA National Drug Threat Assessment**, the DEA insists that the fentanyl market will continue to expand in

2017

& onwards remaining an extremely dangerous public safety threat.





DEALERS ARE BLATANTLY AND RUTHLESSLY  
MIXING THESE INSANELY POWERFUL DRUGS  
WITH HEROIN IN HOPES THAT THEY WILL  
GET THEIR CUSTOMER BASE ADDICTED AND  
KEEP COMING BACK FOR MORE.



IF YOU ARE HAVING THOUGHTS ABOUT  
EXPERIMENTING, YOU NEED TO UNDERSTAND  
THAT THE HEROIN THAT GOES AROUND  
THESE DAYS IS NOT REALLY "HEROIN". THERE  
IS A VERY GOOD CHANCE THAT IT WILL KILL  
YOU IN ONE SHOT.



DRUGS ARE NOT WHAT THEY  
USED TO BE!!!

DO YOU REMEMBER THIS VIDEO  
FROM OCTOBER 2016?





ADDICTION DOES  
NOT DISCRIMINATE.

ADDICTION CAN  
HAPPEN TO  
ANYONE.





HOW CAN SOMEONE BE  
DEPENDENT ON A DRUG AND  
WHAT ARE THE EFFECTS?



# PHYSICAL ADDICTION

- **Body** is dependent on a substance
- Person has **TOLERANCE:**
  - PERSON NEEDS MORE TO GET THE SAME EFFECT
- Person experiences **WITHDRAWAL:**
  - WHEN SUBSTANCE STOPS PERSON GETS FLU-LIKE SYMPTOMS (DIARRHEA, SHAKING, NAUSIA ETC.)



# PHYSICAL DEPENDENCE

AS EACH DOSE  
BEGINS TO WEAR  
OFF, WITHDRAWAL  
SYMPTOMS APPEAR -  
THE BODY NEEDS  
THE DRUG

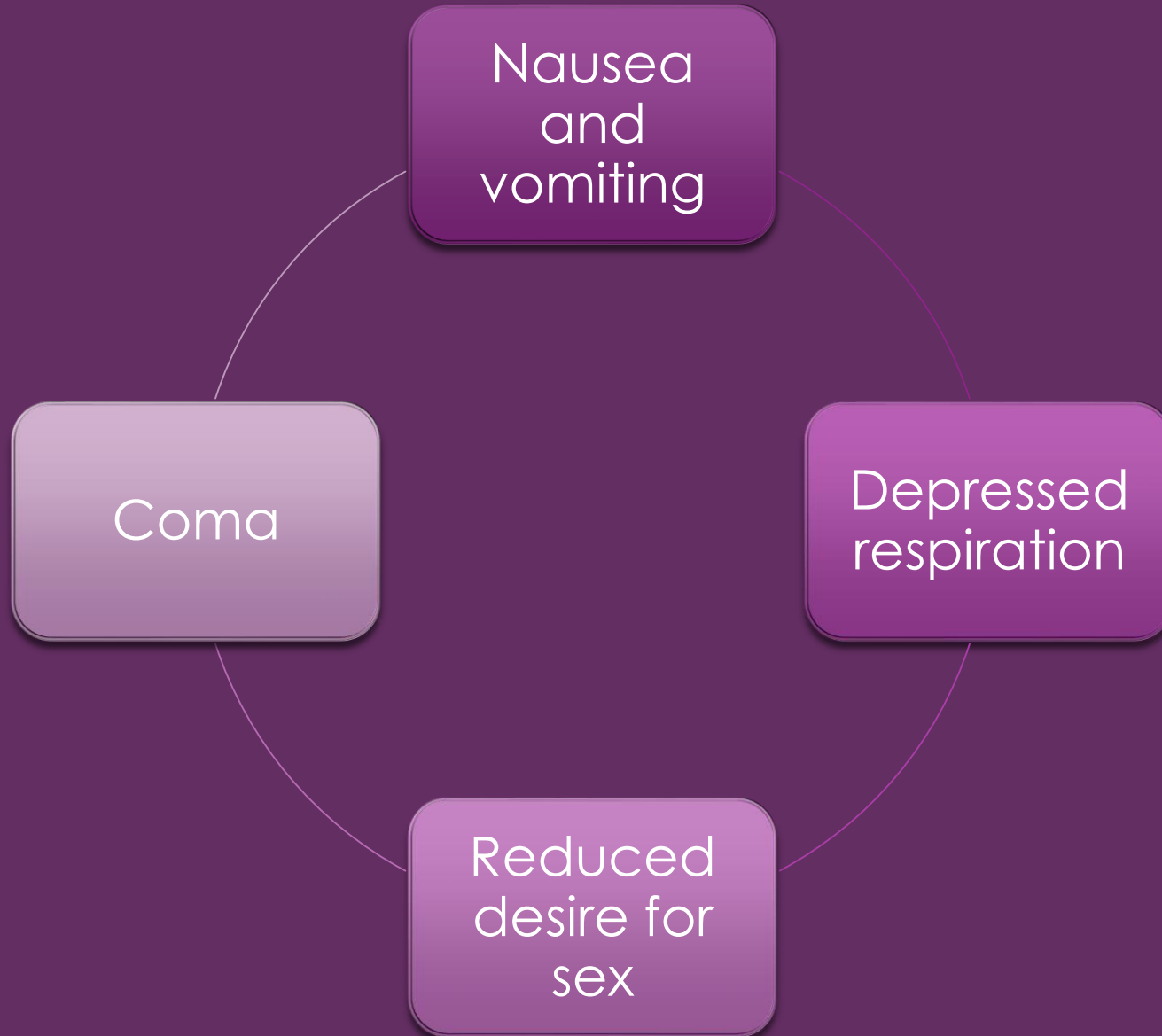


## PSYCHOLOGICAL DEPENDENCE:

ONCE PHYSICAL DEPENDENCE HAS DEVELOPED AND WITHDRAWAL SYMPTOMS ARE EXPERIENCED AND CONDITIONS ARE SET UP TO FURTHER STRENGTHEN THE HABIT, **THE MIND DEMANDS THE DRUG.**







# **TOXICITY POTENTIAL ACUTE**

**(SHORT TERM  
EFFECTS):**

Sores and  
abscesses at  
injection  
sites

# **CHRONIC TOXICITY**

## **(LONG TERM EFFECTS)**

the death rate  
for heroin  
addicts is twice  
that of the  
population as a  
whole

Spread of  
blood-borne  
diseases

- Hepatitis
- AIDS
- Death



---

No one takes heroin  
thinking he/she will  
become addicted

---

Reason for use is  
frequently curiosity and  
the influence of friends

---

Weekend warriors or  
“chippers” begin by taking  
the drug infrequently

**ADDICTED?**

**NOT ME**



Tolerance  
develops  
rapidly and  
with continued  
use  
dependence  
and addiction  
are a virtual  
certainty

Addiction  
can occur  
with just a  
few uses,  
depending  
on health  
and genetic  
background

**ADDICTED?**

**NOT ME**



---

Heroin users are looking for the rush of euphoria that occurs soon after heroin is smoked, snorted or injected.

---

The user will also feel relaxed and drowsy, and may nod off.

---

The heart and breathing slow down.

---

One's problems seem far away.

---

The user may also be nauseated, may vomit and experience itching.

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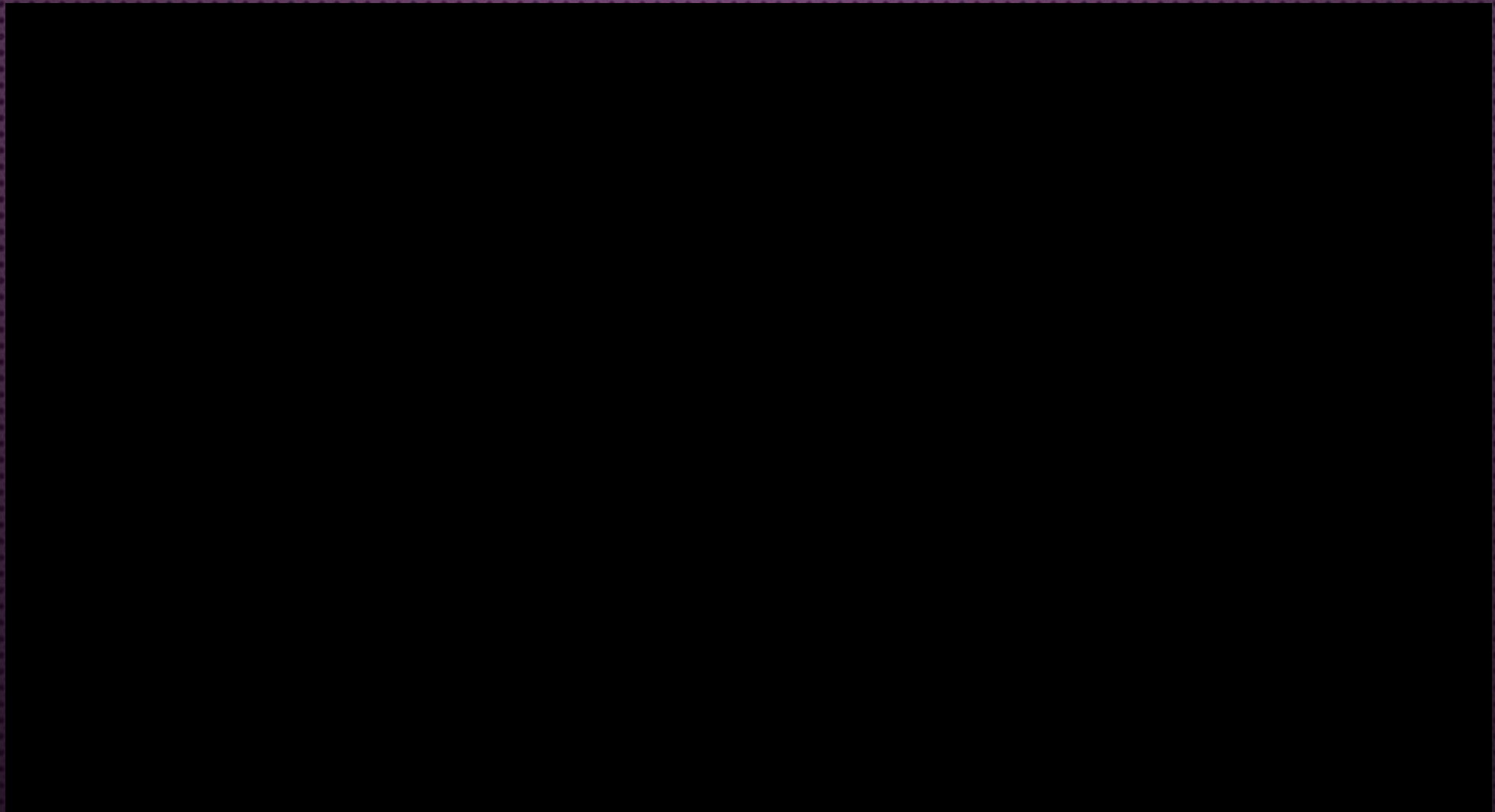
# **THE PRIMARY EFFECTS OF HEROIN**

# **THE ADDICTION:**

Heroin is a short-acting drug and must be taken every few hours to avoid painful withdrawal symptoms (muscle spasms, vomiting, chills, etc.)

Addicts still crave the drug after years of abstinence and chances of relapse rates are very high





**A HEROIN HABIT MAY COST \$100 TO \$300 A DAY**

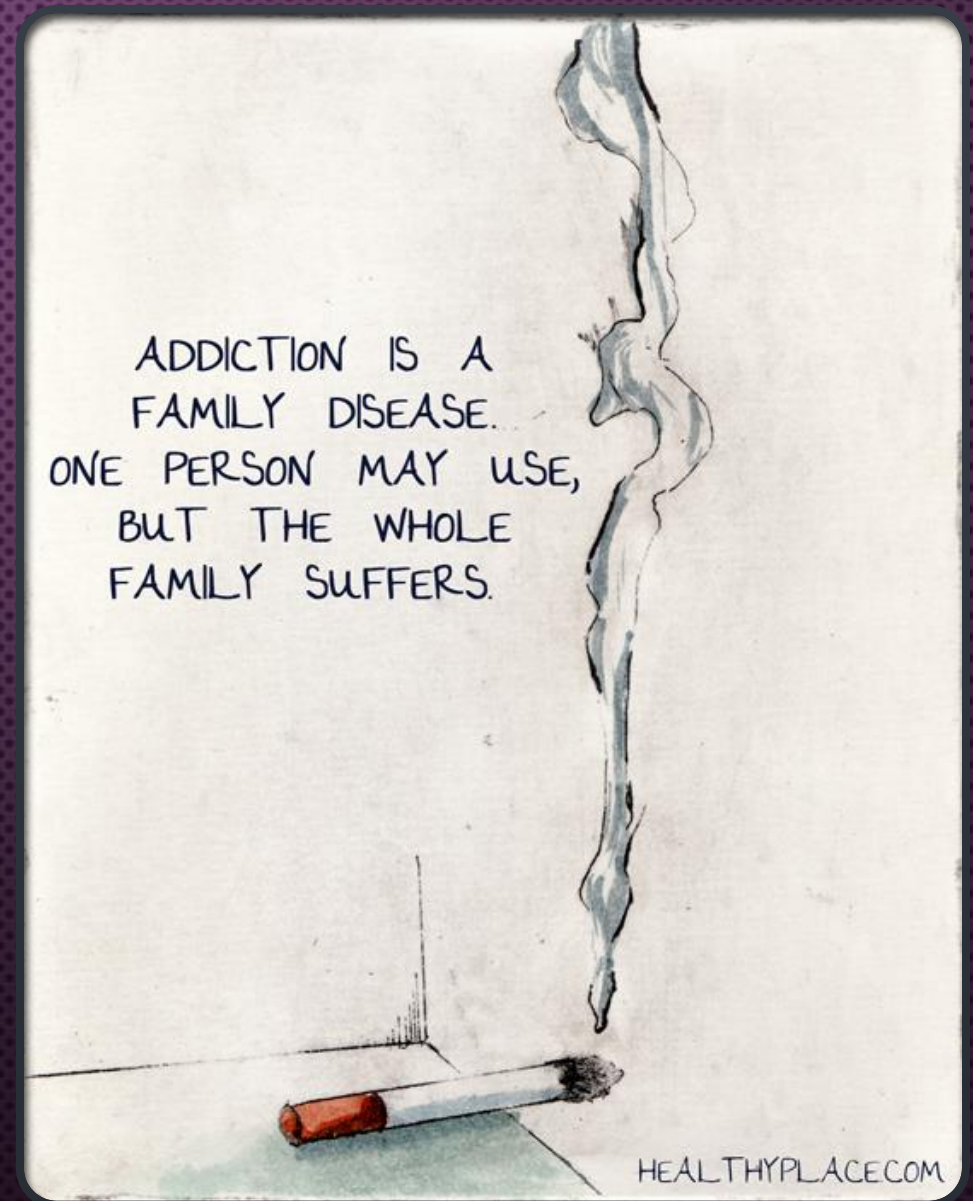
THIS MEANS \$36,500 TO \$109,000 MUST BE SPENT IN ONE YEAR TO  
KEEP AN ADDICT CONTENT AND FREE FROM THE PAIN OF  
WITHDRAWAL

THIS HIGH PRICE TAG FORCES THE ADDICT TO ENGAGE IN CRIME  
SUCH AS THEFT, ARMED ROBBERY AND PROSTITUTION TO SUPPORT HIS  
OR HER HABIT



**HEROIN DESTROYS THE  
EMOTIONAL AND  
SPIRITUAL LIFE OF THE  
INDIVIDUAL AND THE  
FAMILY**

1 IN 5 AIDS VICTIMS GOT THE  
DISEASE THROUGH  
INTRAVENOUS DRUG USE





# TODAY

TODAY, HEROIN IS ONE OF THE MOST UTILIZED ILLEGAL SUBSTANCES. OCCURRENCES OF OVERDOSES AND ADDICTION, DUE TO HEROIN USE, ARE AT AN ALL TIME HIGH AND SEEM TO BE ON THE RISE.

ONE USE OF HEROIN CAN LEAD TO ADDICTION.





IF YOU OR SOMEONE YOU  
KNOW IS SUFFERING FROM  
SUBSTANCE USE OR MENTAL  
HEALTH ISSUES, REACH OUT TO  
SOMEONE FOR ASSISTANCE.

-YOUR EAP CAN HELP-

[WWW.ALLIEDTRADES-  
ONLINE.COM](http://WWW.ALLIEDTRADES-<br/>ONLINE.COM)



