

Treatments for withdrawal and craving relapse from drug of abuse

Opioids



Alcohol



Nicotine



Cocaine



Amphetamine



Opioids



Interventions in opioid dependence

Methadone

Long half-life
Governmental Regulated Programs

Buprenorphine

Partial agonist of μ receptor

Naltrexone

Antagonist of μ receptor

Acupuncture?

Activates endogenous opioid system

Clonidine
(Withdrawal)

Alfa2 agonist
↓ NA transmission in locus ceruleus

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L'ALCOOL! VOILA L'ENNEMI



PRISON

L'Alcool est le principal moyen
des autres délits des bandes et des
graves.

L'Alcool, non de puissance plus de tout
qui ont fait condamner la France
à l'État de la Guerre.

Guerre à l'alcool

**DISTILLATION
DEGRADATION
DEGUSTATION
DESOLATION**



Nevez vous en que tout
est meilleur, dans ce
vivre qui rendit en
un monde splendide
d'innocent? — Il faut les
sarcasme, le sang, le vie
de un homme et de son
malheur.

UNIQUE POUR L'EMMENTON

SEIN FRANÇAIS ANTI ALCOOLIQUE

**TEMPERANCE
CHERRY-BLEUE**

POISSONS DE CHOIX

SAISON DE LA
REMANOUE
REMANOUE
WIKI
BIBICH
LES AMERS
ELANDE
COGNAC
FOND D'OR
WITON
SPICERIE
ETC.



Interventions in alcohol withdrawal

Hydration state
Electrolytic state

Vitamin B1

From diet. Thiamine. TPP (tiamina pirofosfato) coenzyme in catabolism of sugar and amino acids. Biosynthesis of Ach, GABA. Polyneuritis

Sedative drug
BZ

Oxazepam

Anticonvulsant

Carbamazepine

Interventions in alcohol dependence

Support groups,
psychotherapy

Disulfiram

Antagonist of acetaldehyde dehydrogenase

Naltrexone
Slow release

Antagonist of μ receptor

Acamprosate

Antagonist of NMDA and agonist of GABA_A R

NICOTINE



Interventions in nicotine dependence

Replacement
therapy

chewgum, patch, electronic cigarettes

Bupropion

Antidepressant (DAT > SERT > NET); VMAT

Varenicline

Partial agonist at nicotinic $\alpha_4\beta_2$ R ($\alpha_3\beta_4$, $\alpha_3\beta_2$, α_6)
Agonist at nicotinic α_7 R

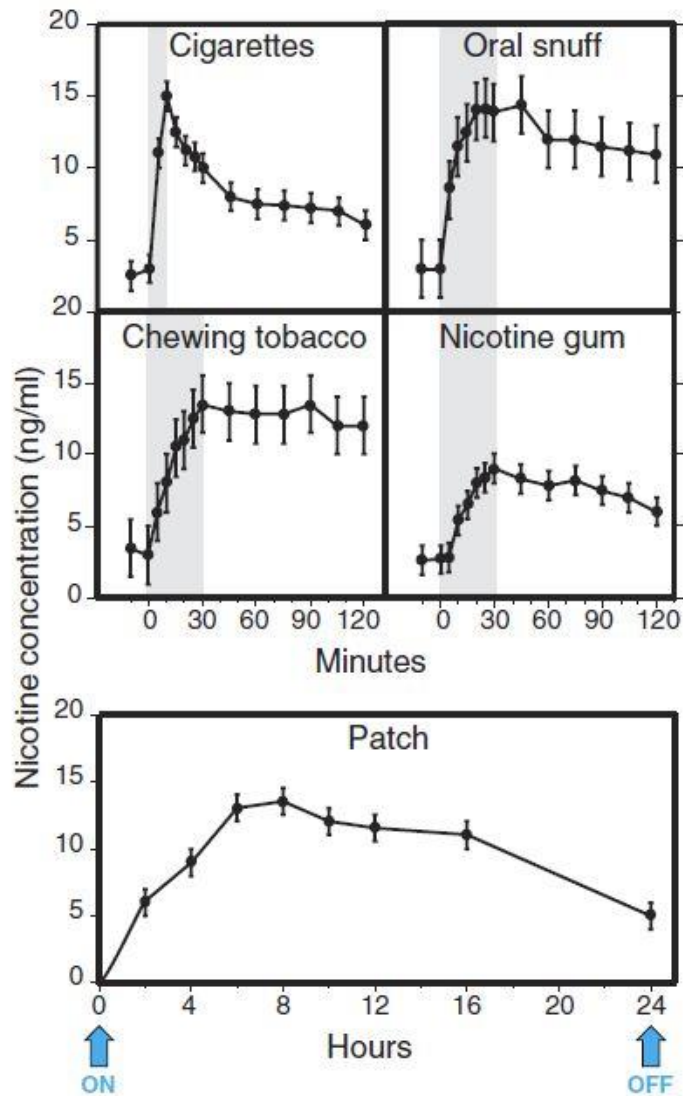


Figure 23-3. Nicotine concentrations in blood resulting from five different nicotine delivery systems. Shaded areas (upper panel) indicate the periods of exposure to nicotine. Arrows (lower panel) indicate when the nicotine patch was put on and taken off. (From Benowitz *et al.*, 1988, and Srivastava *et al.*, 1991, with permission.)

Amphetamine-related drugs and cocaine



Interventions in cocaine/amphetamine dependence

Psychotherapy

For cocaine and amphetamine

Topiramate

↓ Na⁺ channel, Glu, ↑ GABA (cocaine relapse)

Baclofen

Antagonist of GABA_BR (cocaine relapse)

Modafinil

↑ NA

Vaccine ?

For cocaine

Methylphenidate

MET, cocaine