

1492

Christopher Columbus sailed across the Atlantic and discovered the Americas

Old World and New World



“The Columbian Exchange”

Old World



New World



Wheat



Horse

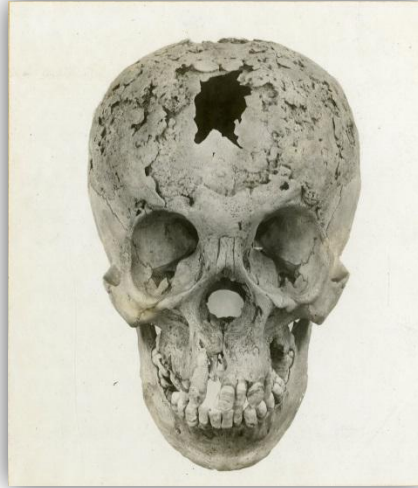


Spirits

New World



Tobacco



Syphillis of skull



Cocaine powder

Cocaine

Erythroxylon coca



Cultivated in the Andes
since ancient times



Bolivia, Peru,
Ecuador, Colombia

**Spraying herbicide over
a coca field in Colombia**



Cocaine

Cocaine production and use



Strictly controlled under the Incas

Cocaine

Why did the people up in the Andes grow the coca plant?



Used for stamina, especially at high altitudes

Still widely cultivated in South America

Cocaine

Evo Morales



President of Bolivia



Former leader of Coca
Farmer's Union in Bolivia



Evo Morales

Cocaine

Collapse of Spanish power
in South America after 1820s



Coca entered Europe

Initially fashionable



Quickly banned

Cocaine

Early users



Sherlock Holmes



Sigmund Freud

Also used as an ophthalmic anaesthetic

Cocaine



COCAINE
TOOTHACHE DROPS
Instantaneous Cure!
PRICE 15 CENTS.
Prepared by the
LLOYD MANUFACTURING CO.
219 HUDSON AVE., ALBANY, N. Y.
For sale by all Druggists.
(Registered March 1885.) See other side.

**Cocaine
tooth drops**

Cocaine, crack, coke

Alkaloid

Natural compound



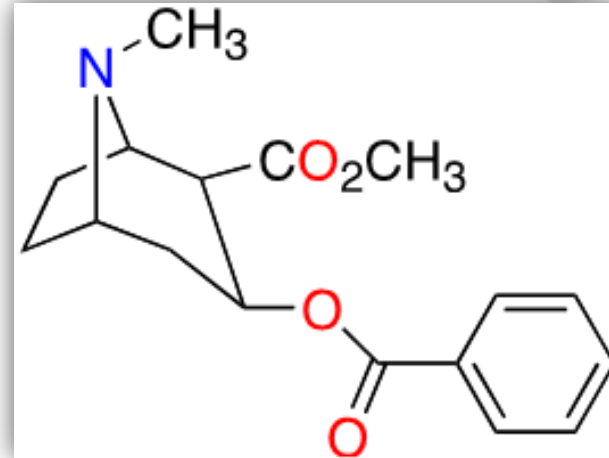
Contains basic nitrogen atom

Free cocaine molecule

Chunky material

Crack cocaine

Can be smoked,
snorted or injected



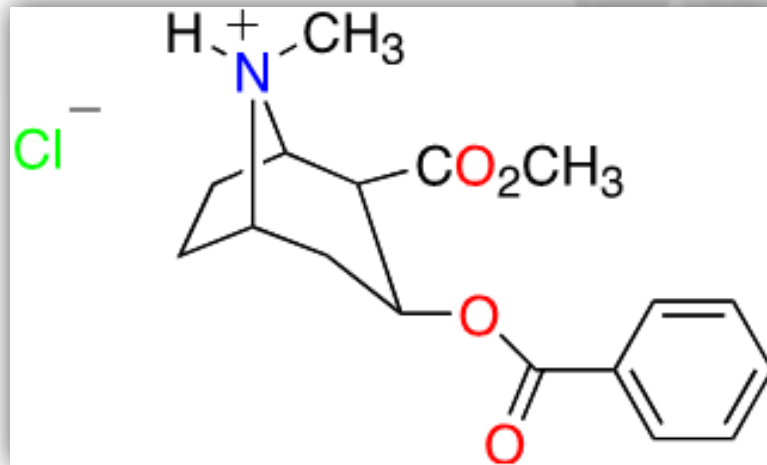
Free base cocaine

Cocaine hydrochloride

Free base with
hydrochloric acid

White powder

Snorted or injected



Cocaine hydrochloride

Cocaine, crack, coke

Often “cut”



Diluted with other white colored materials



Mannitol or sugar



Local anaesthetics

Cocaine

Comes from the coca leaf

“Coca”



Original recipe contained extracts of the coca leaf

DNA

Fingerprints

Fibre Analysis

Poison

Blood

Cocaine



Cola flowers



Cola seed



Cola tree