

Date	Apr 4 1995
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Notes	
Publ as	

Ref. Operation - the 7 cases I said were African American / women
SMALLPOX ERADICATION

(1)

- ① Al. Maabini - ^{Marked as such} / GRINNEL COLLEGE April 1991
Oct 22 77 / fever headache
Hosp. c? malaria / 4 days later spot / exposed 161 people.

- Thousands of field staff / house to house search.
② WHO Recognition card. - Have you seen anyone c rash like this
Reward of \$ 10000 offered. - ^{Dermatologists dream} Anyone c a pustule.

~~1/3~~ International Commissions visited every country to check results.
and reported to WHO

- ④ WTA - Freedom from spot
⑤ WTA - No. more var.

^{over the centuries}
Variola virus - ^{once} the most feared & devastating disease known to man
is now confined in glass vials in 2 laboratories - Atlanta Norwalk.
⑥ The great Ramses II was first certain victim - 1160 B.C. > 3000 years ago
Two earlier mummies of 18th dynasty - some 300 years before

Presume its origin from animal reservoir - sometime after 1st agric settlements
10 000 years ago.

Only disease for which specific death is created.

⑦ Sitla Mala -

⑧ Sappona. -

Why? Occurred in epidemics, ~ Killed 20% to 40% - much blindness?
Could spread in any climate / in any area. / all were susceptible.
~~All were susceptible - whether~~
There was and is no treatment

Let's look at a typical, not severe case.

- 9 }
 10 } core
 16 }

12 Blindness - most common cause - India / Europe.

Lord.
 13 MR CAULEY

29 yr. old Eliz I developed spox leaving her bald & face permanently scarred.
 also Louis XV (France); Wm II of Orange; Peter II of Russia
 Emperor Joseph I of Germany.

Why adults?

- 1520 - Mexico / 1524 - Peru / N. America.
 - U.S. universities

75 to 90% of pop. eliminated -
 over a 100 year period

14 Edw Jenner - 1796

15 Cowpox -

Dairy maid - complexion

1802 - Vaccine sent round the world. - arm to arm.

But problems - vaccine died out / weakened by Δ
 Smallpox persisted.

One of America's most famous victims - Abe Lincoln.
~~One of America~~ 1880's vaccine in calves.

16 FREEZ DRYING - 1950's (like Coffee)

Post WWII - ^(importation) Outbreaks in Europe continued.

England & Germany - smallpox Hospitals.

Why not a global program.

- (17) 1966 WHA U.S. & USSR argued together to undertake.
 Much debate / much skepticism - ^{Polio Bk} never eradicated before.
 Issue \$2.5 × 10⁶ yes or no. Passed by 2 votes
 10 year time table. \$50000 / country)

A Director needed.

(18) Jan, 1967

Endemic 34 countries 10 - 15 × 10⁶ cases 2 - 2.5 × 10⁶ deaths.

(19) Why do we think it can be eradicated.

(20) VACCINE VIALS - 250 × 10⁶ doses / year.

Tests of vaccines - < 10%

USSR - 140 × 10⁶ / U.S. 40 × 10⁶

Production labs.

(21) Bifurcated needle.

Strategy - vaccination 80% / Assessment
 Surveillance / containment.

(22) 1967 AGAIN

(23) 1970 Note W. Africa.

(24) 1973 Only Asia - 700 × 10⁶ people in constant motion

(25) Ferry

(26) Jetway bus

(27) Train

1973 summer - a new strategy

Every village / labor every house. - 10 days.

Discover cases / contain.

120 000 workers visited 100 million households

10% sample.

8 tons of pen.

② 1st week Oct 1973 (one week) 7000 cases compared to ^{~100} ~~500~~ reported.
Only half of villages visited!
Containment

② Pak / B. Lash / India incidence. Oct. 75

② Only Ethiopia 25 x 10⁶ larger than France / Germany / Denmark combined.
One half population lived more than one day's walk from road
100 staff - total

③ LOA

③ BRIDGE

③ Left case in Oct. 76 but spread to Somalia
Somalia

③ Leth case - Oct 22 1977 Missed ^{10 years} target date by 10 months.

③ Document of global commission

* Cost - \$100 x 10⁶ Intl. Health / \$200 x 10⁶ domestic.

U.S. - spent \$150 x 10⁶ in 1969 for protection alone
Vacc. / quarantine.

contributed \$34 x 10⁶ to campaign investment (evac. stopped)
recouped in 26 days.

②

honored

3

UNICEF Child Survival

over

crad

Global Zero

16 mo

2000 copies sent

⑦ Surveillance - 2000 sq ft