

Date	Jun 4 1999
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Title	Smallpox vaccine needs
Event	Priorities for bioterrorism
Event Sponsor	probably General Accounting Office
Event location	Atlanta GA
Notes	
Publ as	

Realities of Smallpox Vaccine Supply

A smallpox vaccine vial contains 0.20-25 ml.

No. of doses with glass rod applicator = 20-25

No. of doses with bifurcated needle = 70-100

Conservative planning figure = 50 doses

Logistics and costs of vaccine production

50%+ is in filling and labeling of vials

Producing 100,000,000 doses of smallpox vaccine is roughly equivalent to producing 2,000,000 doses of tetanus toxoid -- in brief, no big deal.

If produced in rabbit kidney (Japanese vaccine)

1 rabbit = 250,000 doses

40 rabbits = 10,000,000 doses

400 rabbits = 100,000,000 doses

Commercial costs of vaccine (1974-75)(5 nations)

\$0.005-0.170 per dose

~~0.007~~ 0.005 - 0.017

100,000,000 doses = \$500,000 to \$1,700,000

0.01 = 2 doses.
1.00 = 200 doses
10.00 = 2 000
100.00 = 20 000
1000 = 200 000
500 = 100 000

RATING OF POSSIBLE BW AGENTS

Possible or unlikely use

• Brucellosis	13
• Japanese encephalitis	13
• Yellow fever	13
• Cholera	13
• Tetanus	13
• <u>Diphtheria</u>	<u>12</u>
• Rabies	8
• Typhoid fever	7
• Dysentery	6
• Staphylococcus	5
• HIV	5