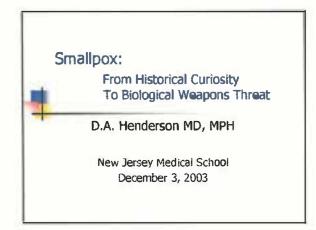
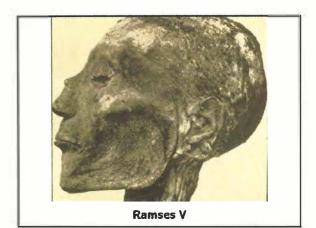
Diat . Lestrue 18 John Birgel -Approacite initation to come to upperfy Normet to prosent this sectors but - more than this to learn of the fix program you have desen developing to deal with P.H. Kneyenin sop as they relate to biotorromim Just & years age when two if us, Mike O, and myself, commenced an effort to concate collenges in medicine I pl. as well as Engross and the Expectition That bid rejust weapons, were a genetine services rick, very different from during cal or miclear weapons - that the hundred's fourthing of dollars pouring into DOI + DOI to train 1st uppendus (polie, fue, puer rescue) That the \$ smillin assigned IT Hits was weefely mad equite. The effort proved to be more successful then any of us dreamed - indeed the the budget reached \$3 billing in the last FY and is now \$14, 5 pilling. Philorth Hegimning in October - 2 years ago - it was my responsibility to orrese land nchestrate programs across the Dyntmet. This proved the a 7 day 100 hour walk with a limited ability on on part & leave Washing tur. My moolvement has scaled back and now an opportunity of the low the money is sking used in States - at Universities - and I can say I am suppressed - the efforts here at this Medical Carbor and in the State are to be capecally commended. This. A. M. - Smallpro - ? no longer a problem. · Dean's story · of all the agents - swellpop and anthrop -Like to walk you thro the slavial side; briefly touch on the oradicate propon and conclude with where we stand today.

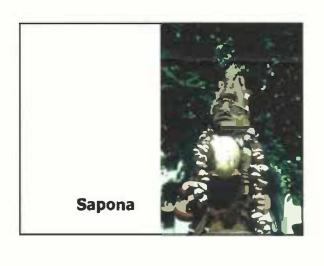


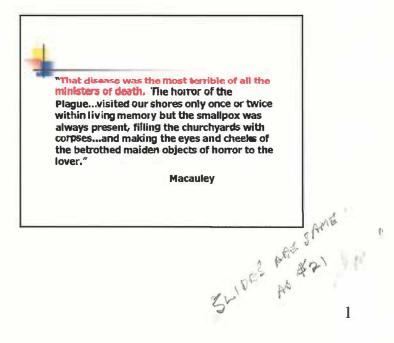


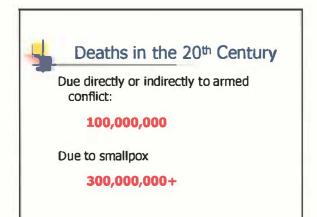
Ali Maalin - 26 October 1977

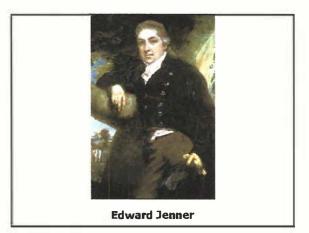


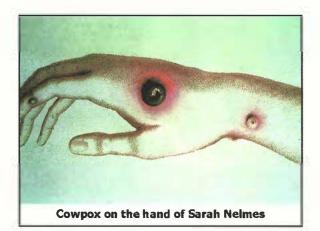


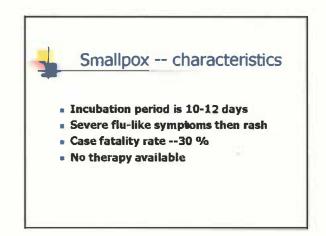


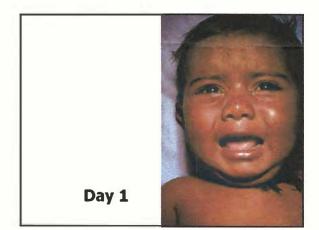


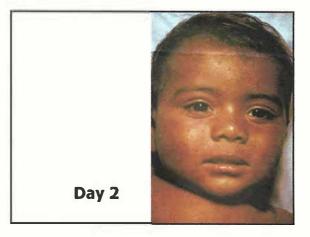


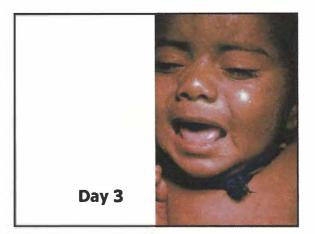




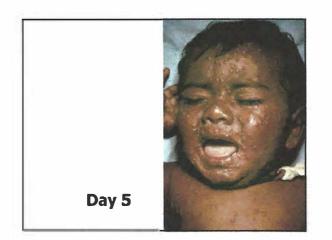






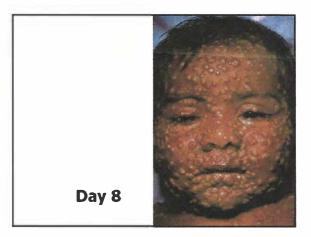




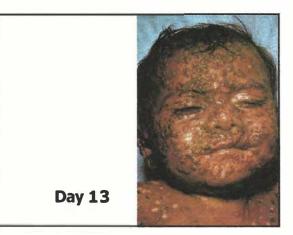


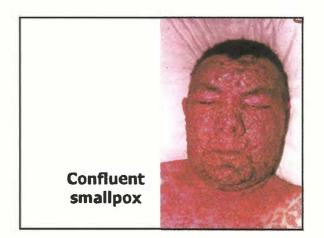


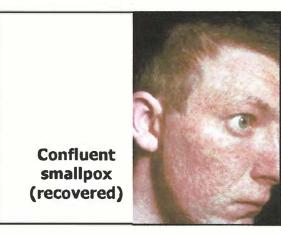








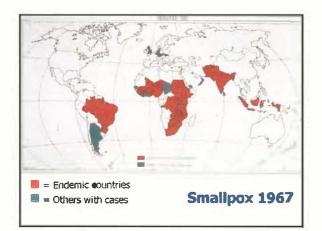


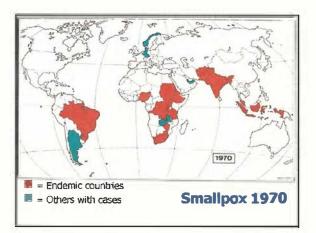


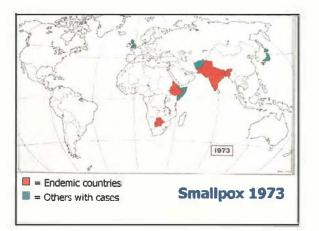


## Characteristics of Smallpox Favoring Eradication

- Man -- the only host
- Virus spread -- only during rash
- Permanent immunity after recovery
- Spread of virus by face to face contact
- Transmission stops spontaneously in remote areas
- Vaccine provides long-lasting protection





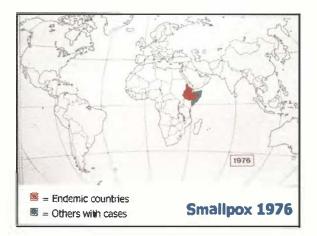


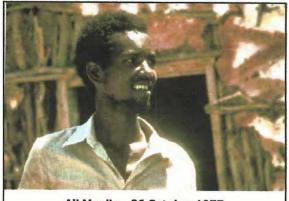




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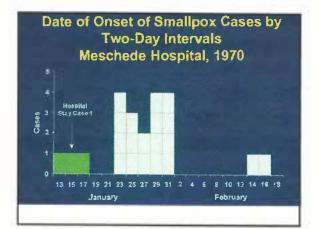


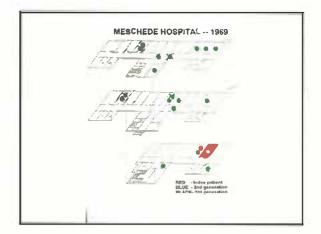


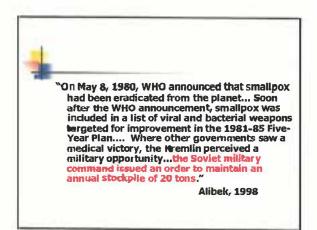


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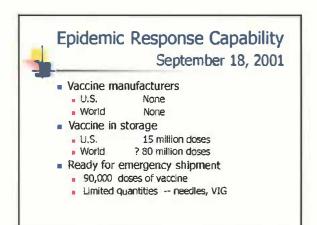


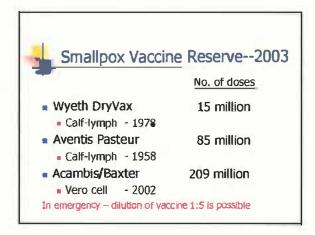


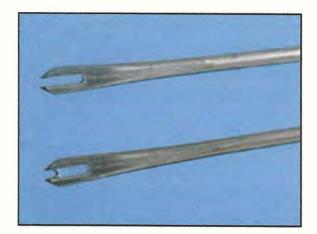


## Susceptibility of US Population to Smallpox -- 2003

- Vaccination stopped in 1972
- Persons under 32 years have not been vaccinated -- 45% of population
- Persons vaccinated only once pre-1972 have little or no immunity
- Of total population, >75% is fully susceptible to smallpox







## MVA – A Next Generation Vaccine? Non-replicating attenuated vaccinia strain (Modified Vaccinia Ankara) Vaccination by IM –either 2 doses or 1 dose followed by NYCBH vaecinia

- Contract awarded for development and initial
  manufacturing
- Phase 1 trials are in progress

Options for Vaccination Before an Event • Vaccinate no one • Vaccinate those at highest risk, candidates: • Health care woukers • Recommend vaccination • Make vaccination compulsory

