HIV Epidemic at 30 Years Where we've been and where we're going

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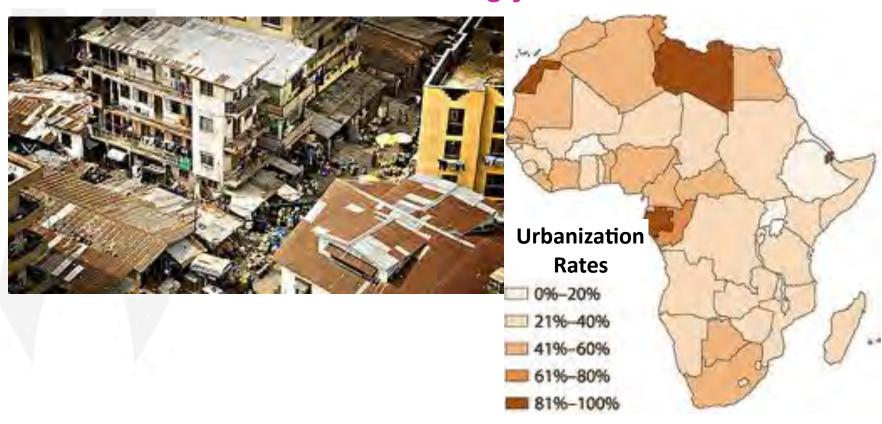
The Eras of the HIV Epidemic

Pre-	Pre-	Early	Early	2nd Gen.	3 rd Gen.
Detection	Treatment	Treatment	HAART	HAART	HAART
1930s-	1981-	1987-	1996-20	2006-	2012 +
1980	1986	1996	06	2011	

1930s: Hunter in central Africa, believed to have acquired HIV-1 from a Pan troglodytes chimpanzee



- 1950s-60s: Viral infection spreads across Africa due to:
- Post-colonial urbanization and increase in the sex trade
 - Medical reuse of increasingly available needles

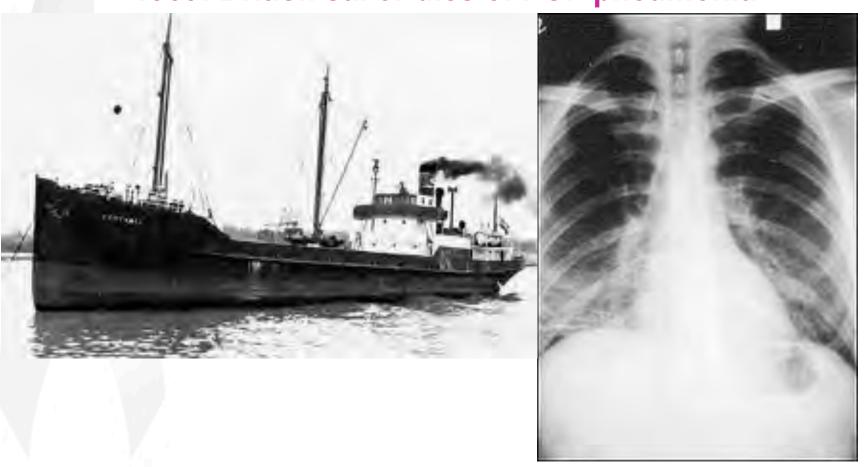


1959: 1st known case of HIV in person who died in the Congo; based on viral sequence analysis of stored blood samples





1959: British sailor dies of PCP pneumonia



1960s: HIV-2 believed to have transferred to humans from sooty mangabey monkeys in Guinea-Bissau



1964: AZT developed under NIH grant as anticancer drug



Zidovudine (AZT)

3' carbon

HIV believed to have arrived in the Americas: 1966 in Haiti via worker from the Congo 1968 in US via Haiti, based on serotype mutation analysis



1969: 16yo St Louis US teenager "Robert R" first confirmed case of AIDS in the US



Hillis, Science 2000; 288: 1757-1759.

1975: First reports of wasting disease in African, later determined to be AIDS



1976: Norwegian sailor Arvid Noe dies; later determined to be AIDS from 1960s contact in Camaroon and Kenya

THE LANCET

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HIV-1 INFECTION IN NORWEGIAN FAMILY BEFORE 1970

S.S. Fr Olanda, P. Jenumb, C.F. Lindboec, K.W. Wefringd, P.J. Linnestadd, T. Böhmere

1977: Danish surgeon dies; later determined to be AIDS contracted in Africa



The Lancet, 23 April 1983

1980: San Francisco man with KS reported to the CDC: First case of AIDS recognized at the time in the US



1980: French-Canadian flight attendant:
visits NY bathhouses,
known as "patient zero"
source of the early US Aids cases

