

# HIV 1981-2015

# Giampiero Carosi

#### MILANO 8 9 SETTEMBRE 2015

Università degli Studi di Brescia



## Fondazione Malattie Infettive e Salute Internazionale



SECONDO WORKSHOP DI ECONOMIA E FARMACI PER L'HIV WEF-HIV 2015 K WEFY



Pan troglodytes troglodytes

SIV cpz – HIV - 1

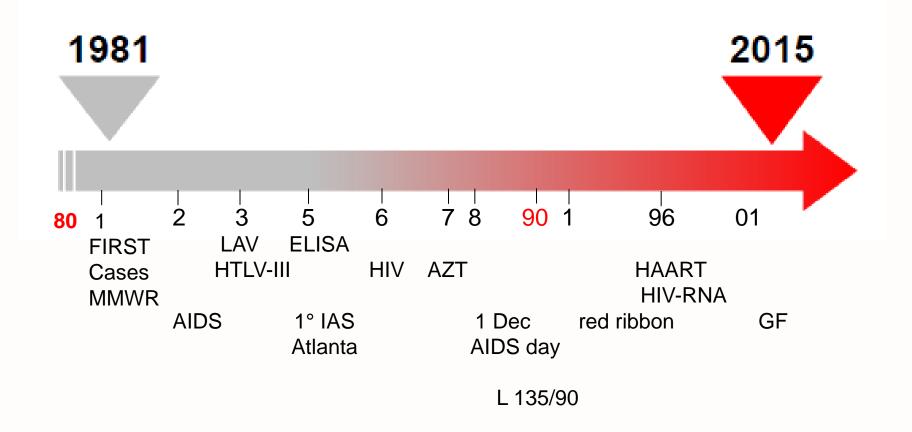
Circa 1900: From Apes to Humans

Between 1884 and 1924, somewhere near modern-day Kinshasa in West Central Africa, a hunter kills a chimpanzee. Some of the animal's blood enters the hunter's body, possibly through an open wound. The blood carries a virus harmless to the chimp but lethal to humans: HIV. The virus spreads\* as colonial cities sprout up, but deaths are blamed on other causes.

\* A relevant role could be attributed to semi-prostitutes women iatrogenically infected (campaignes for syphilis)

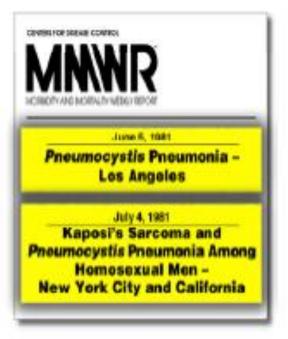


## HIV/AIDS: a 34 years long story





# **1981: identification of the first cases of AIDS**





Epideminiogic Notes and Pitaonia

#### Preumonia - Los Angeles

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Police: 1. A previously hashing 20 year-old mus clearloads P cables previously off and non-cased on-Collada in March 1991 offer a Transmit Actary of New answersteel with metabolic live subpress, bashinghong, and COV version. The sensitivity of the Section Mrl state is Director 1985 and 2085. In Nay 1985 in was 52,<sup>14</sup> The section of cashing deviced despite course of transmitted with principal communities despite (1987), predictivity, and any force, but not any law parameters meaning and despite academic, course and transmitted by the antibiotic section and academic medical P. Course, and Device in Na clear May 2, and premiserate meaning in despite medical P. Course, and Device in Na clear May 2.

Patient 2: A previously healthy 38 year out man developed P submit previously in Ryski 1981 site a Simulation biology of their each day and of elecand liver function tests. DW visually, and mourements the DUV, i.e., an acceptance liter of 18, and a conselectivables their of 29° in anticompletent intercomplete liter of 18, and a conselectivables their of 29° in anticompletent intercomplete liter of 30, and balances of the dimen molecular leadagence and moused considered. He prevented the approach to a counter of inframework TMP/SMX, but, as of the least report, he constraint to have been rack day.

Pytiest 3: A 30 year-old man real well until January 1181 alters he devideated the phogest and excluded as that reported to Amphotonian 2 thermost. He was https://



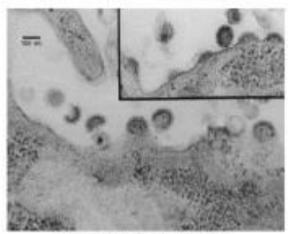


- The CDC warns that AIDS may spread by heterosexual sex and by mother-tochild transmission.
- The U.S. Public Health Service asks "members of groups at increased risk for AIDS" to stop donating blood.





# 1983-84: French or American virus?

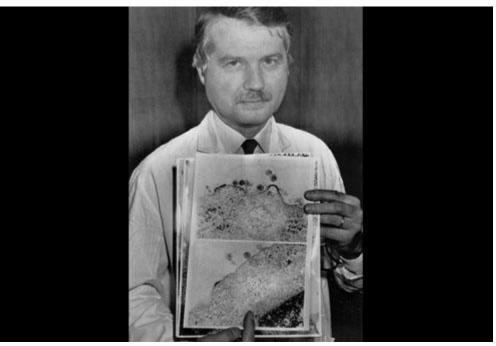


F Barré-Sinoussi et al. Science 220:868, 1983

1983 LAV







Drs. Montagnier (shown) and Barre-Sinoussi discover the AIDS virus

## 1983

Pasteur Institute researchers Luc Montagnier and Francoise Barre-Sinoussi find a virus in the swollen lymph gland of an AIDS patient. They call it lymphadenopathy-associated virus or LAV. Not until 1986 does everybody agree to call it HIV: human Immunodeficiency virus





National Cancer Institute (NCI) researcher Robert Gallo detects an AIDS virus he calls HTLV-III. Later, it turns out to be LAV from a sample sent by the Montagnier lab. Heckler predicts a vaccine in two years but does not specifically fund AIDS research





• Luc Montagnier and Francoise Barre-Sinoussi receive the Nobel Prize in medicine for the discovery of HIV.





# 1985: use of serological tests – Elisa FDA approved









Actor Rock Hudson dies of AIDS.

 Actress Elizabeth Taylor becomes the founding international chairman of AmFAR, the American Foundation for AIDS Research.



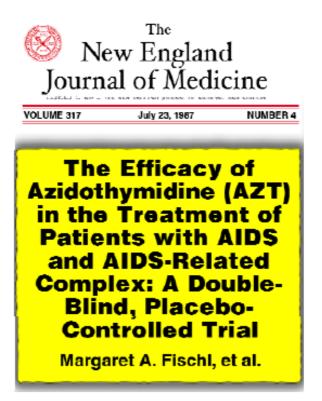


# **International AIDS Conferences**

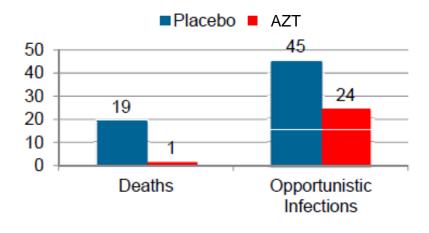
1985	I - Atlanta	anti-HIV tests
1986	II - Paris	
1987	III - Washington	AZT licensed
1988	IV - Stokholm	Dec 1st as AIDS day
1989	V - Montreal	AZT price and activists
1990	VI - San Francisco	
1991	VII - Florence	ddl licensed
1992	VIII - Amsterdam	ddC
1993	IX - Berlin	blood scandal in France
1994	X - Yokohama	
LAST ANNUAL CONFERENCE		
1996	XI - Vancouver	start of HAART era



# 1987: FDA approves the first antiretroviral drug→zidovudine (AZT)

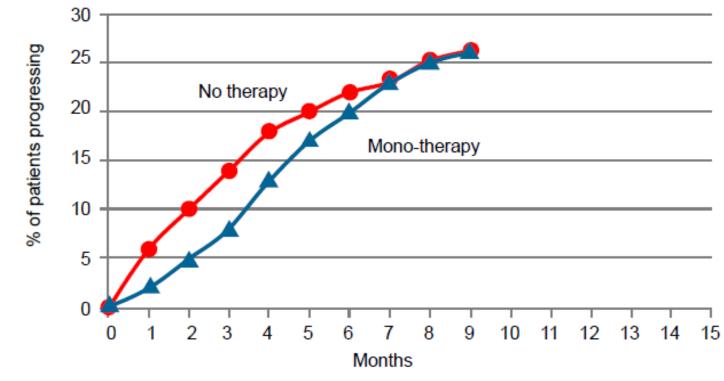


### BW 002: 24-week study of AZT vs Placebo in patients with AIDS or ARC





# **Progression to AIDS/death**



JAMA 1998 & CMAJ 1999

