

XXX Anys Tractant el VIH.

Qué ha canviat?

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Hospital Clínic
Universitat de Barcelona



MMWRs on HIV/AIDS from 1981

- 1 -

1981 June 5;30:250-2

Pneumocystis Pneumonia – Los Angeles

In the period October 1980-May 1981, 5 young men, all active homosexuals, were treated for biopsy-confirmed *Pneumocystis carinii* pneumonia at 3 different hospitals in Los Angeles, California. Two of the patients died. All 5 patients had laboratory-confirmed previous or current cytomegalovirus (CMV) infection and candidal mucosal infection. Case reports of these patients follow.

Patient 1: A previously healthy 33-year-old man developed *P. carinii* pneumonia and oral mucosal candidiasis in March 1981 after a 2-month history of fever associated with elevated liver enzymes, leukopenia, and CMV viruria. The serum complement-fixation CMV titer in October 1980 was 256; in May 1981 it was 32.* The patient's condition deteriorated despite courses of treatment with trimethoprim-sulfamethoxazole (TMP/SMX), pentamidine, and acyclovir. He died May 3, and postmortem examination showed residual *P. carinii* and CMV pneumonia, but no evidence of neoplasia.

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National Center for HIV, STD and TB Prevention

Divisions of HIV/AIDS Prevention

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MMWRs on HIV/AIDS from 1981

1981 July 4;30:305-8

Kaposi's Sarcoma and *Pneumocystis* Pneumonia Among Homosexual Men – New York City and California

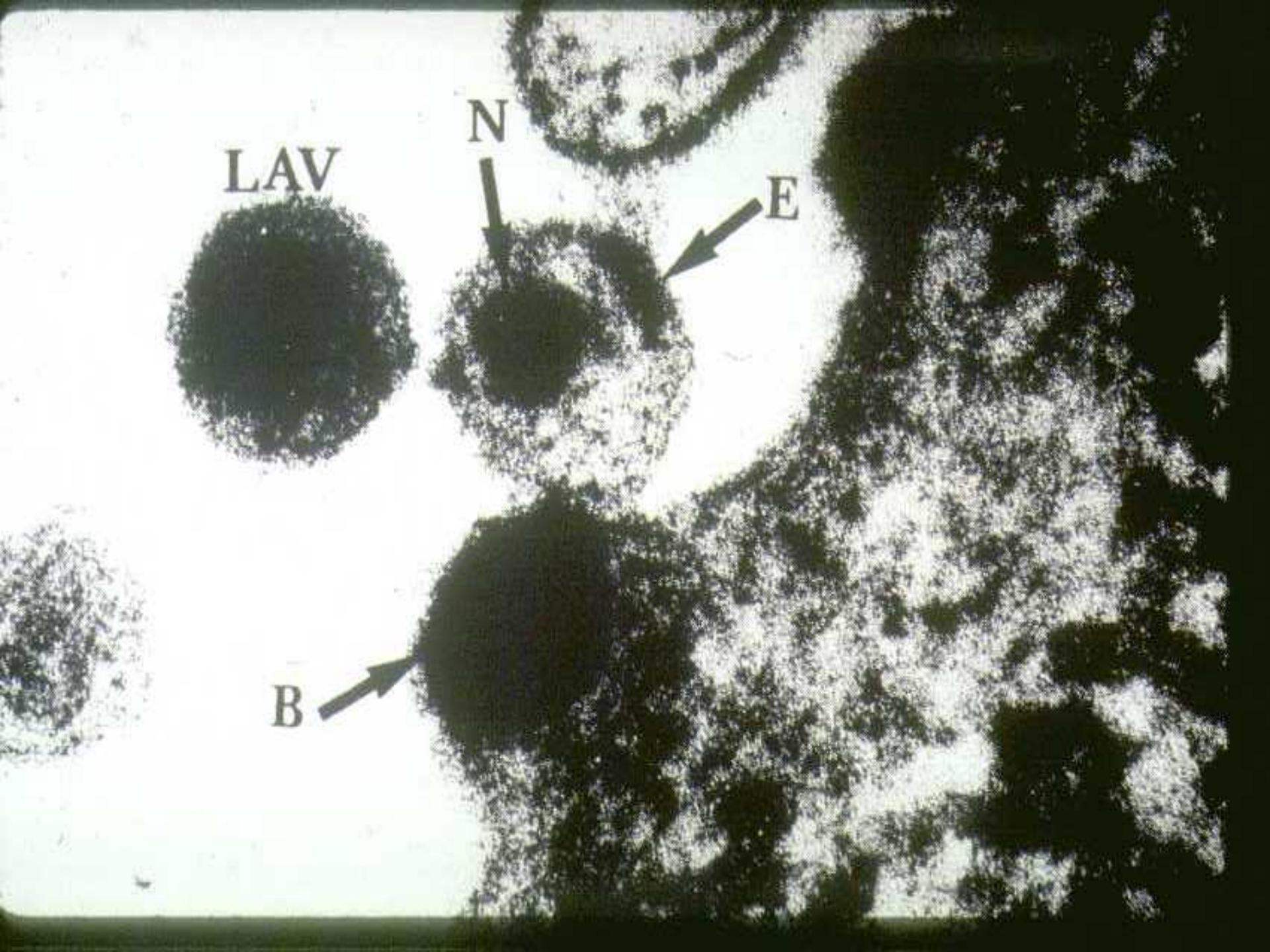
During the past 30 months, Kaposi's sarcoma (KS), an uncommonly reported malignancy in the United States, has been diagnosed in 26 homosexual men (20 in New York City [NYC]; 6 in California). The 26 patients range in age from 26-51 years (mean 39 years). Eight of these patients died (7 in NYC, 1 in California)—all 8 within 24 months after KS was diagnosed. The diagnoses in all 26 cases were based on histopathological examination of skin lesions, lymph nodes, or tumor in other organs. Twenty-five of the 26 patients were white, 1 was black. Presenting complaints from 20 of these patients are shown in Table 1.

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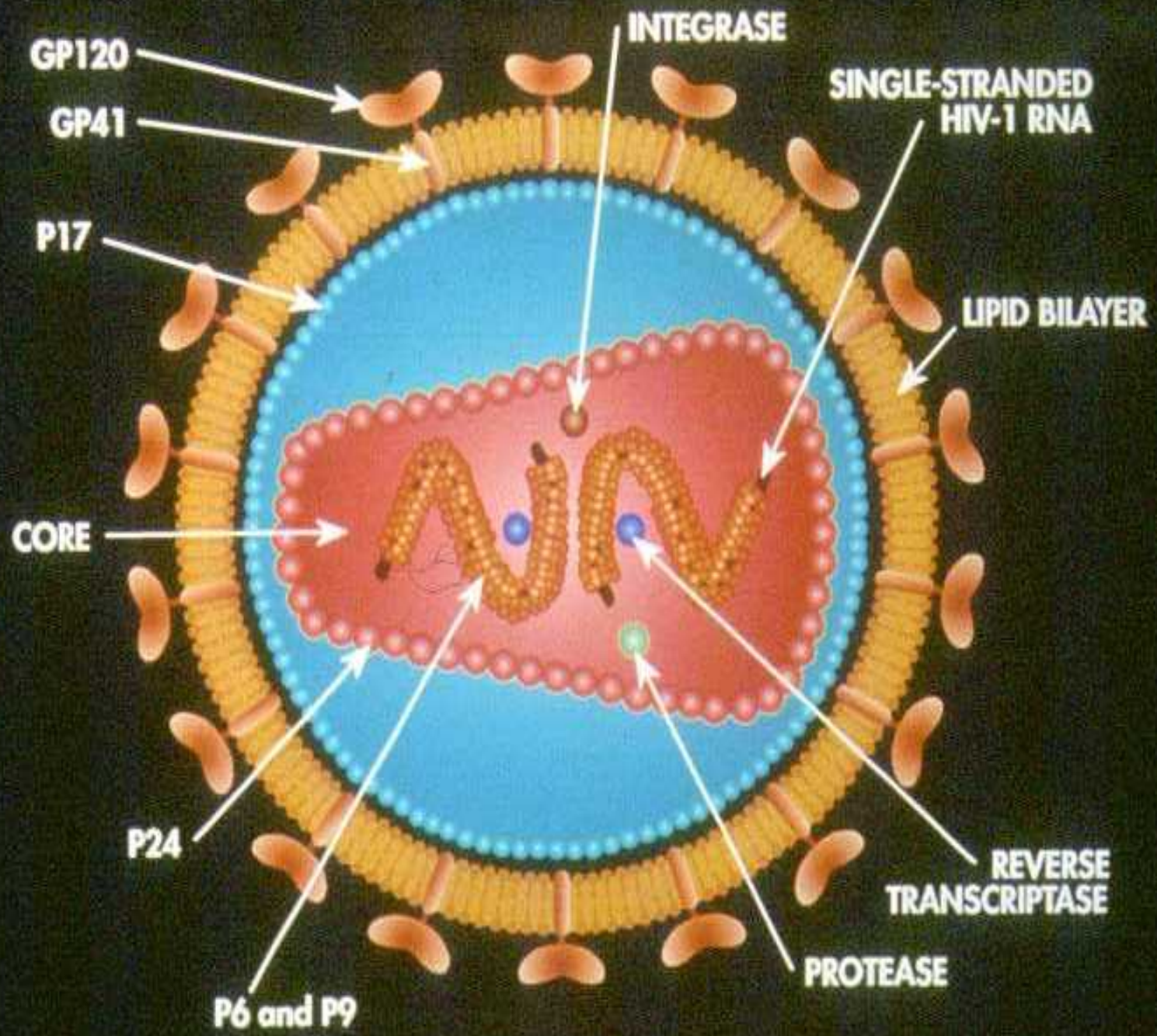
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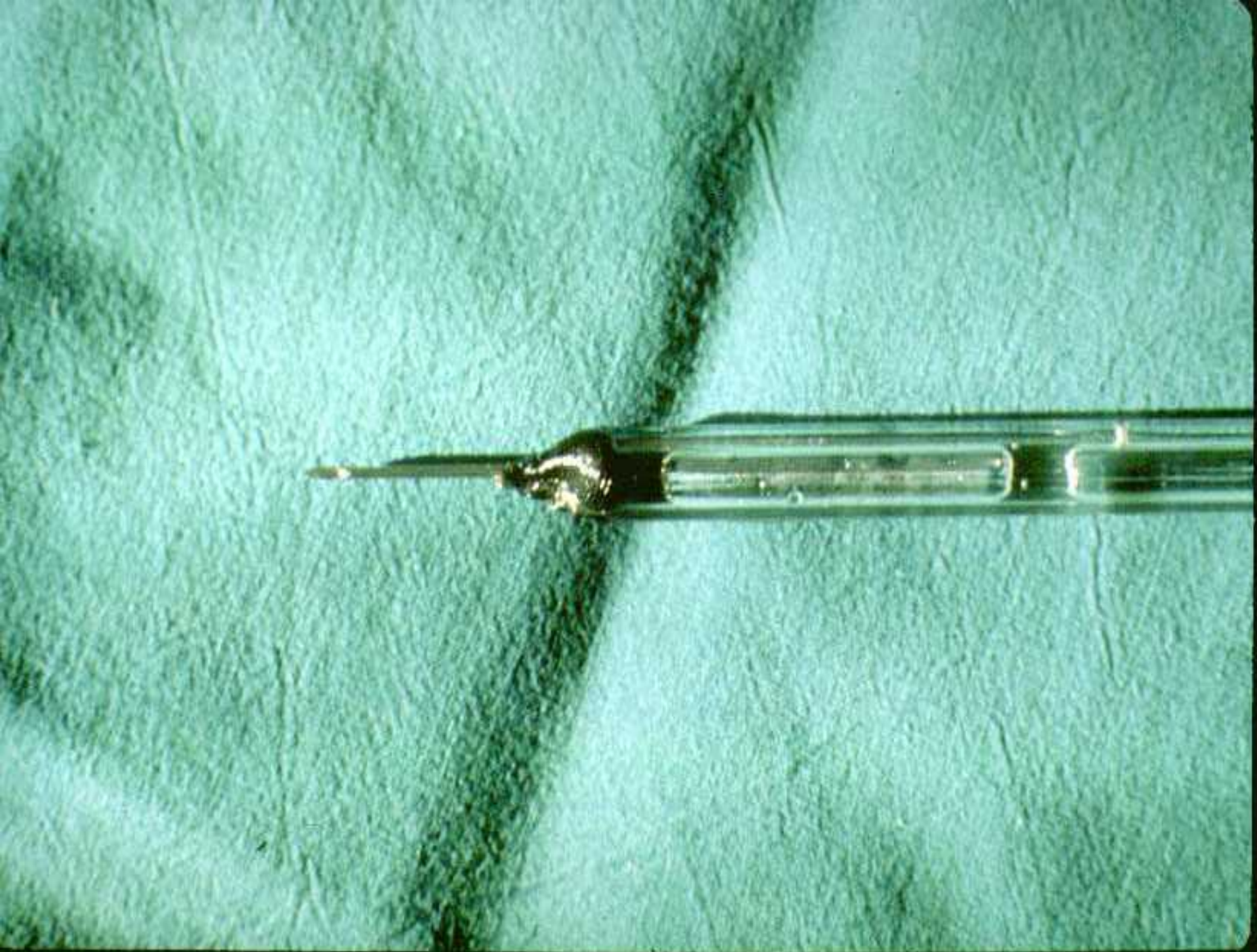




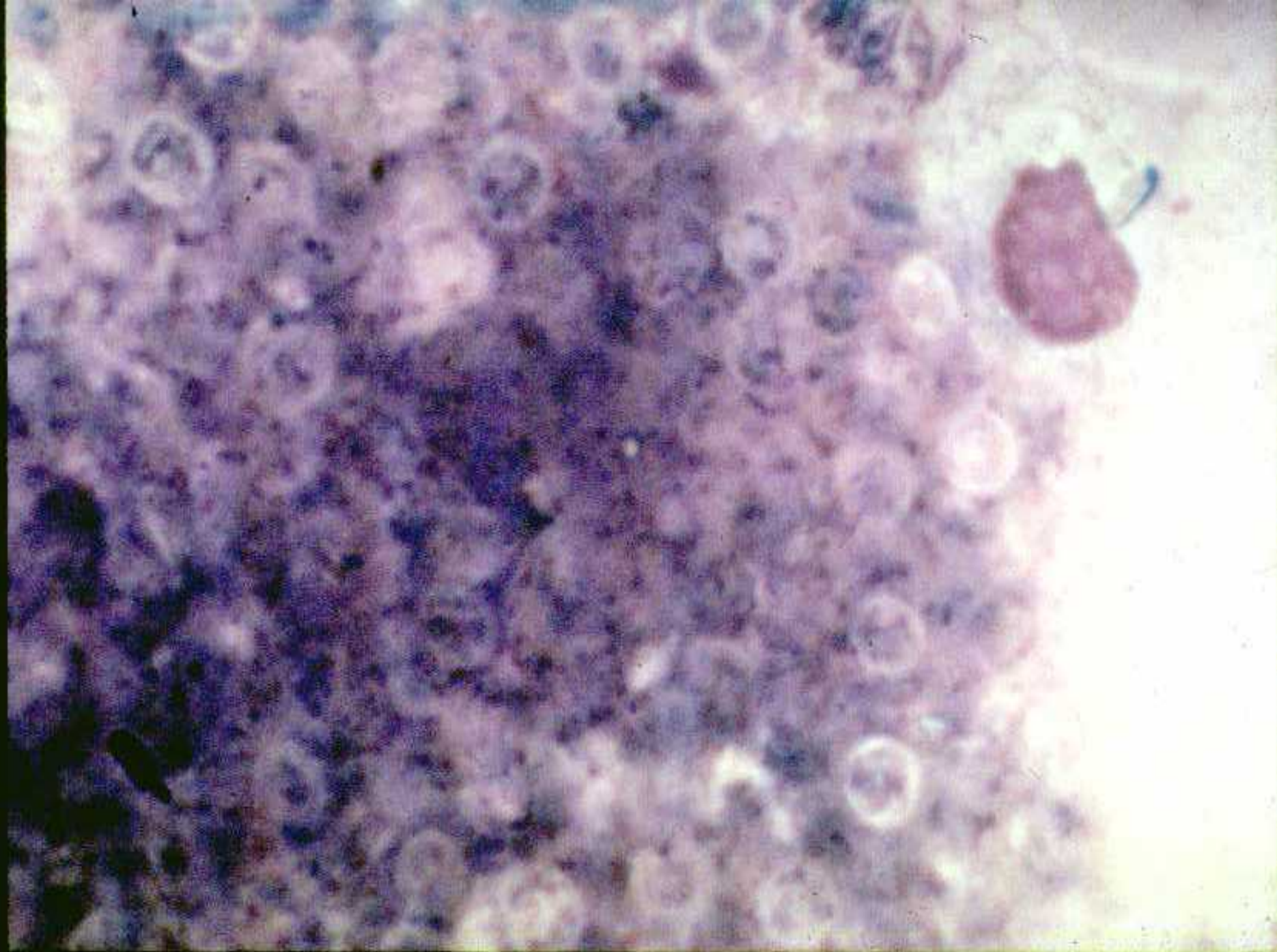


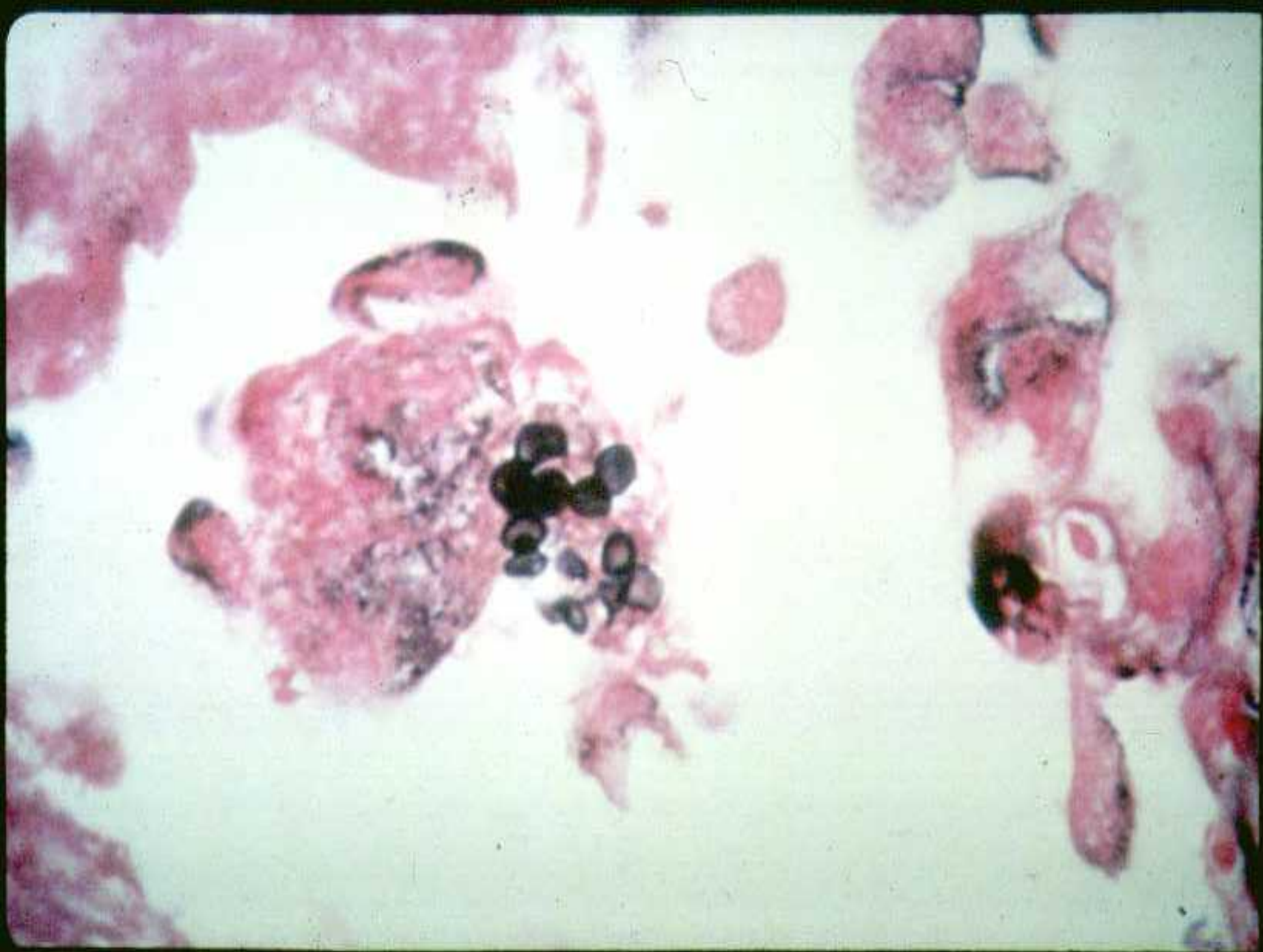








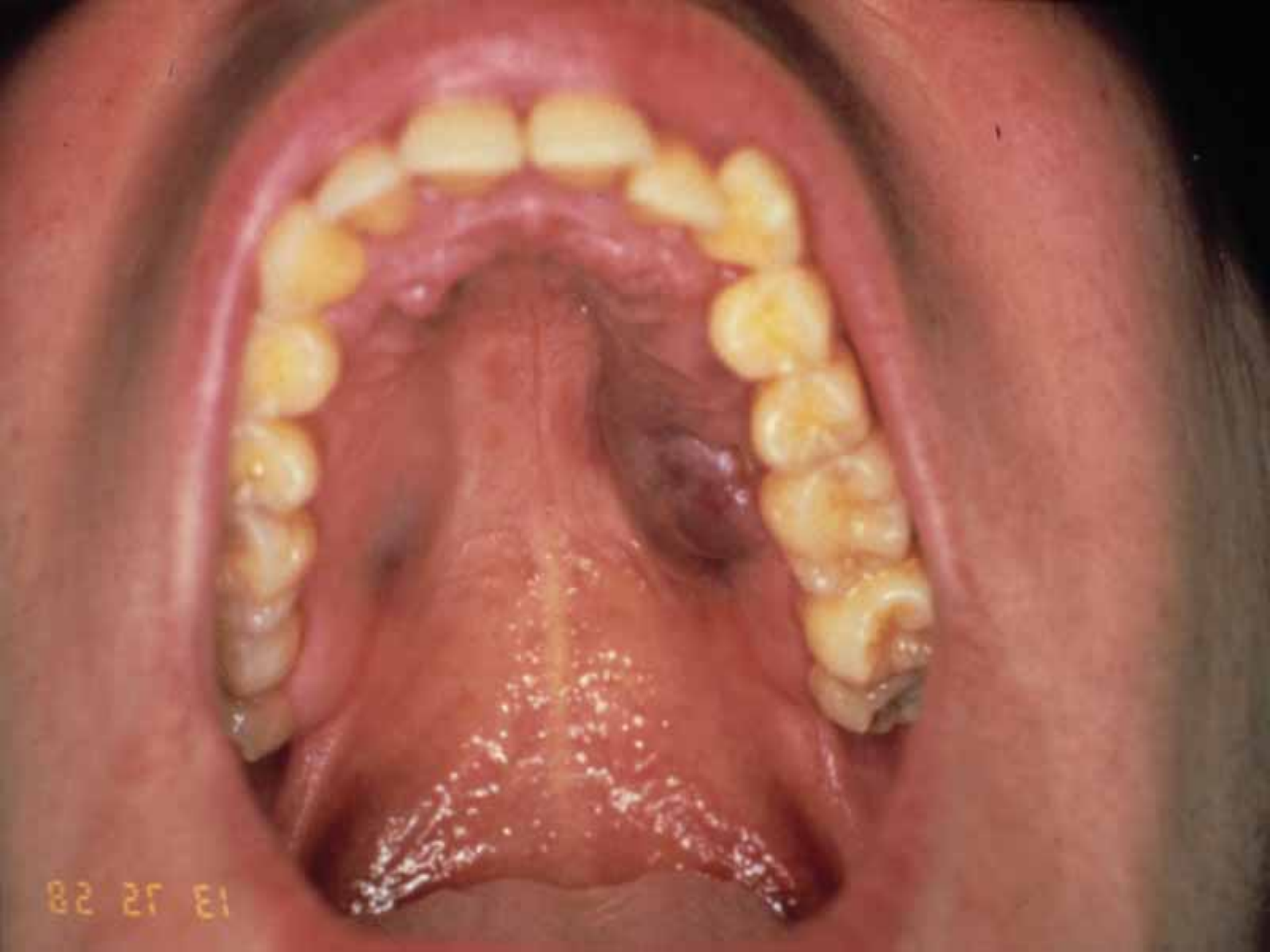












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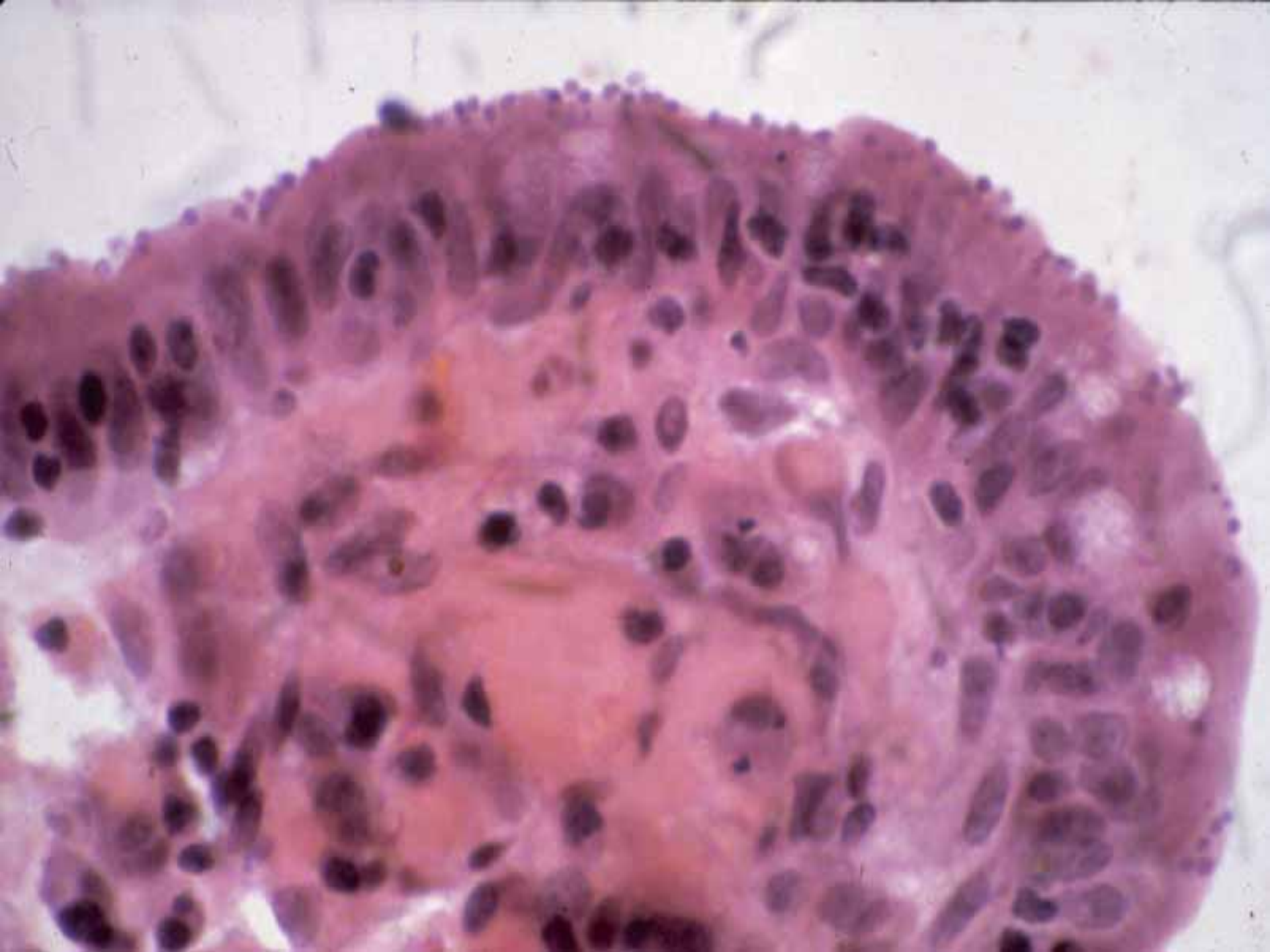
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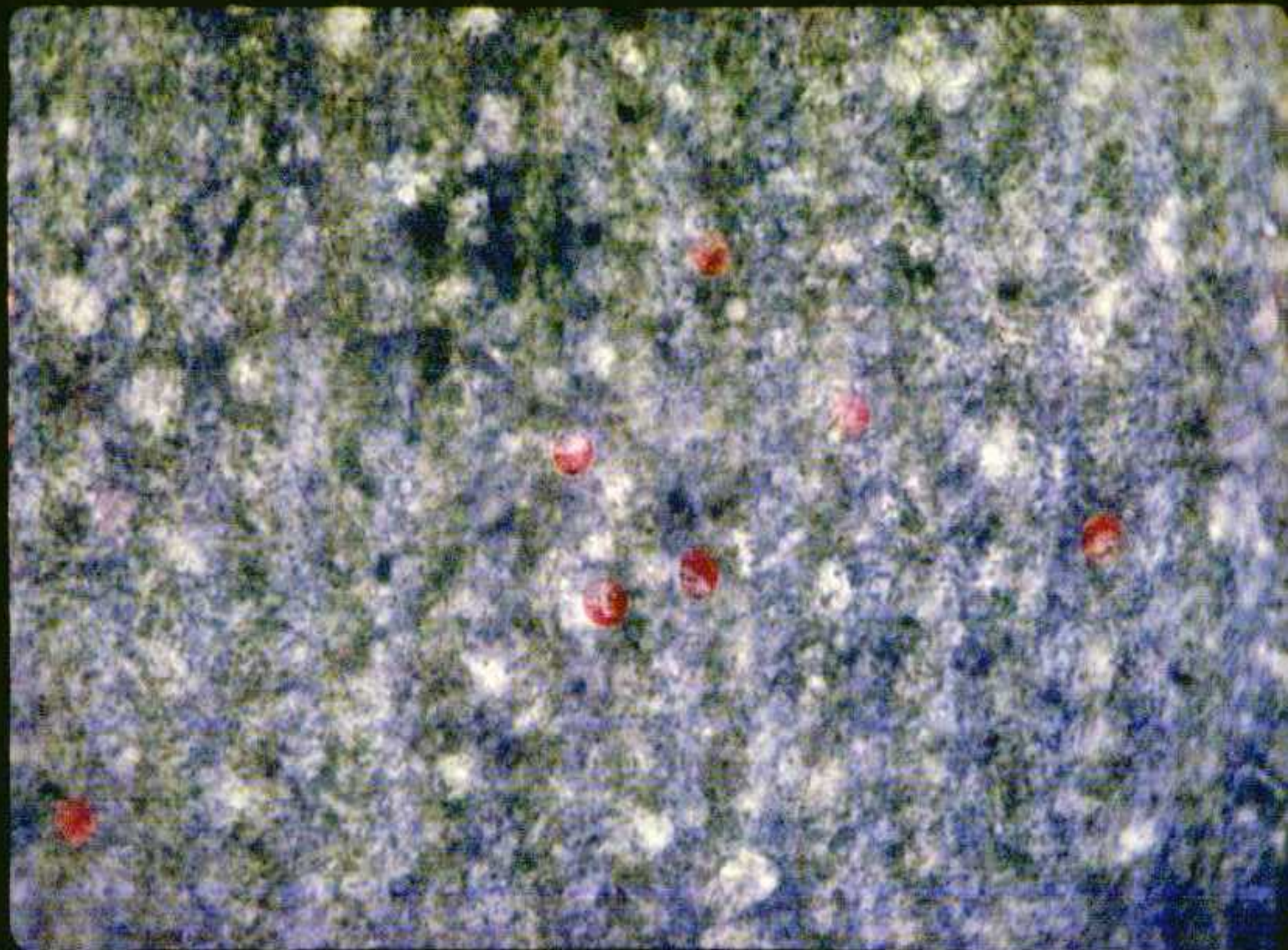


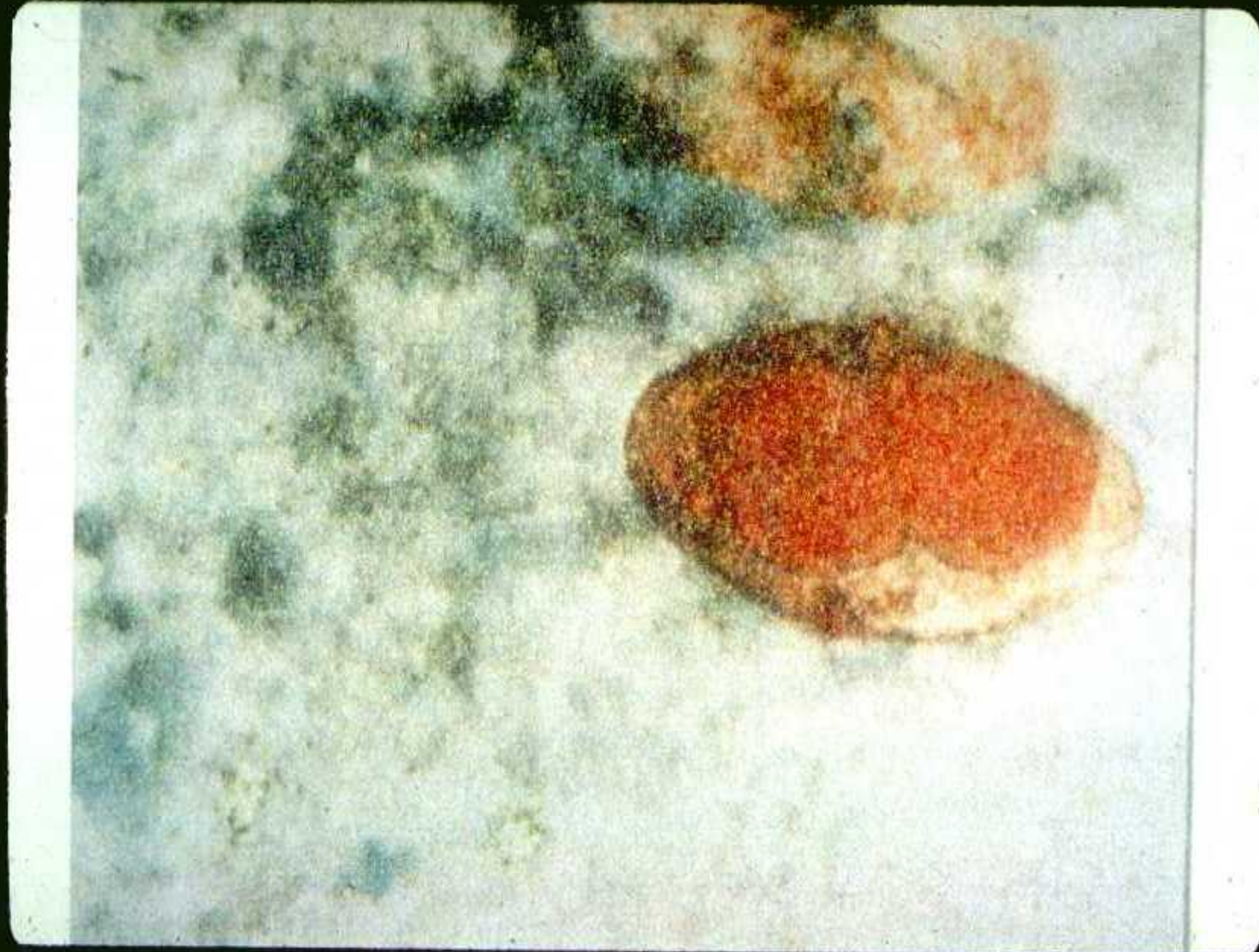
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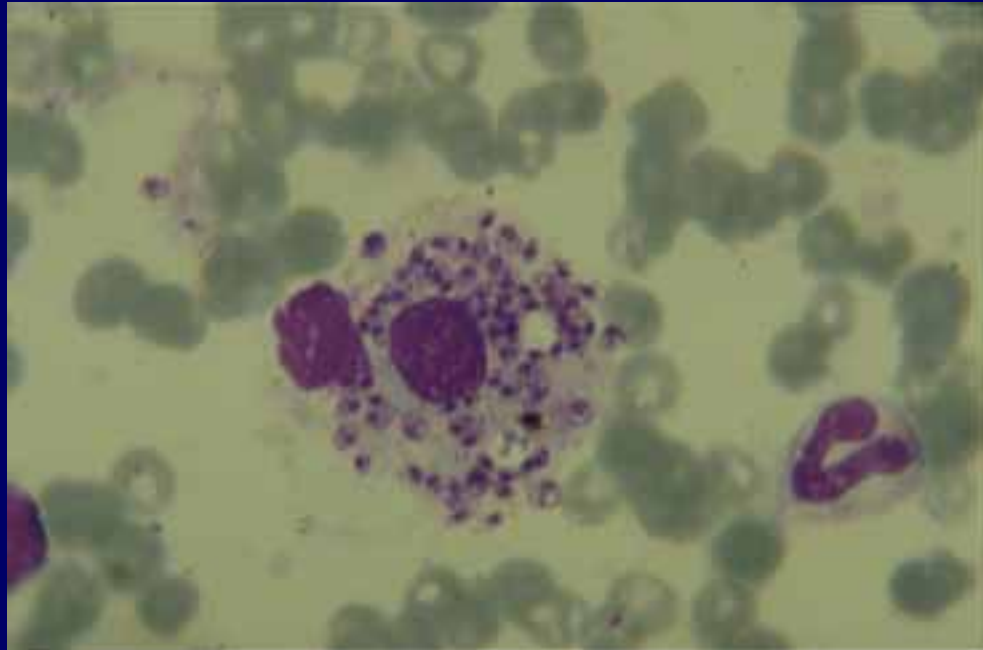
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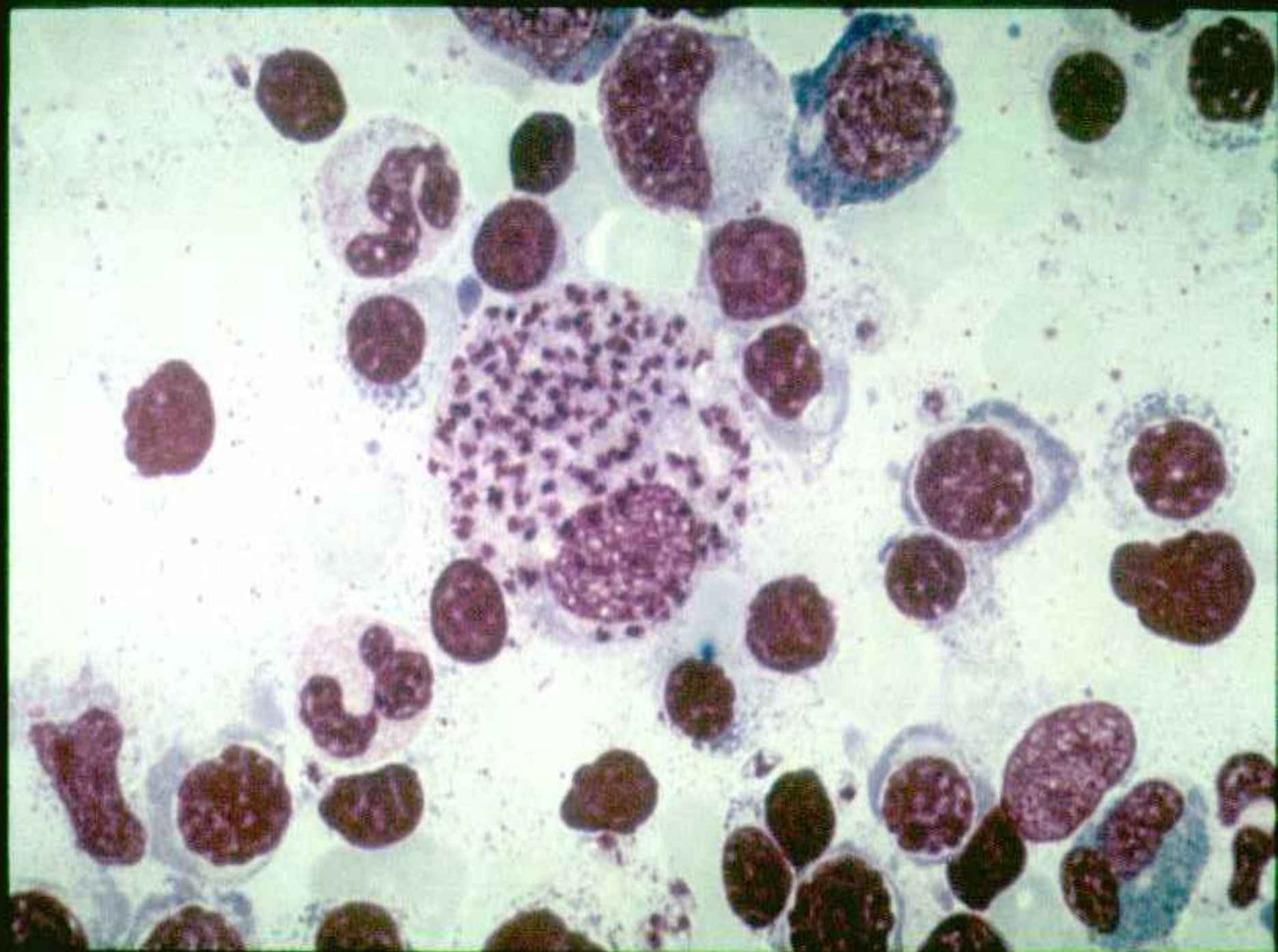
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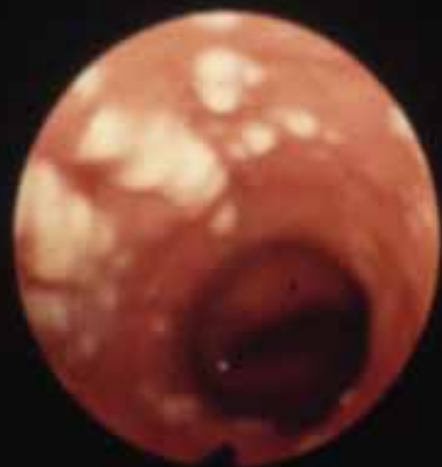








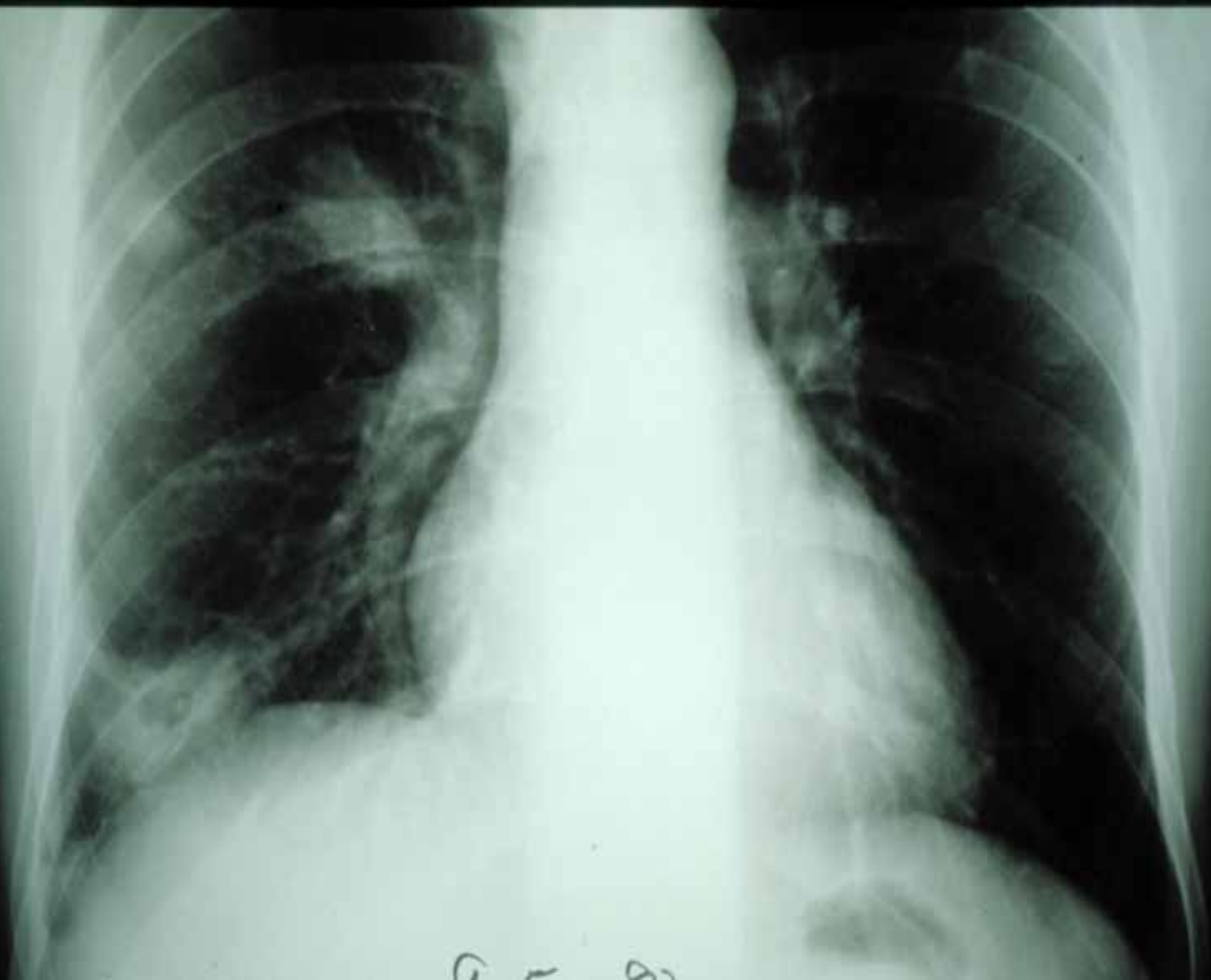




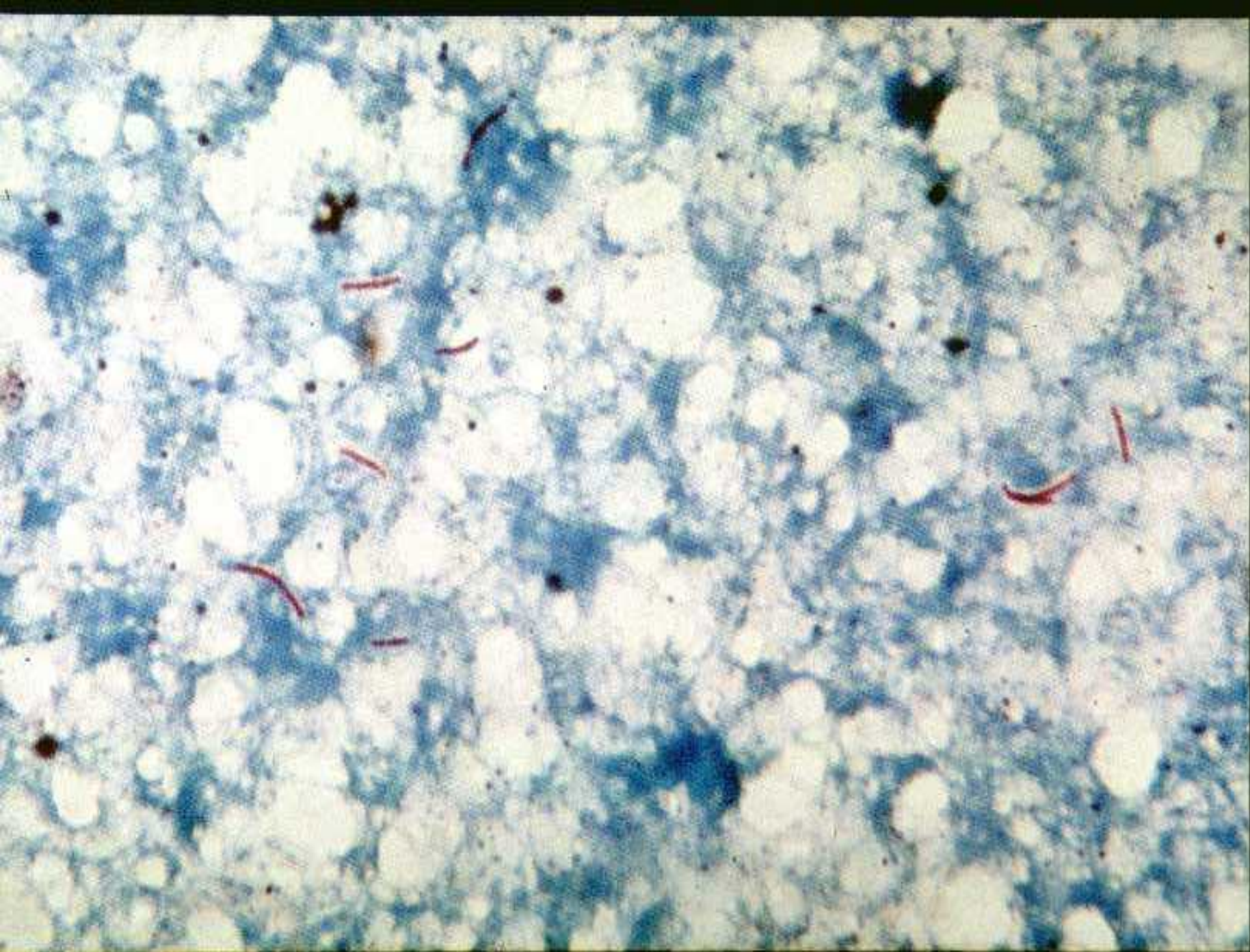








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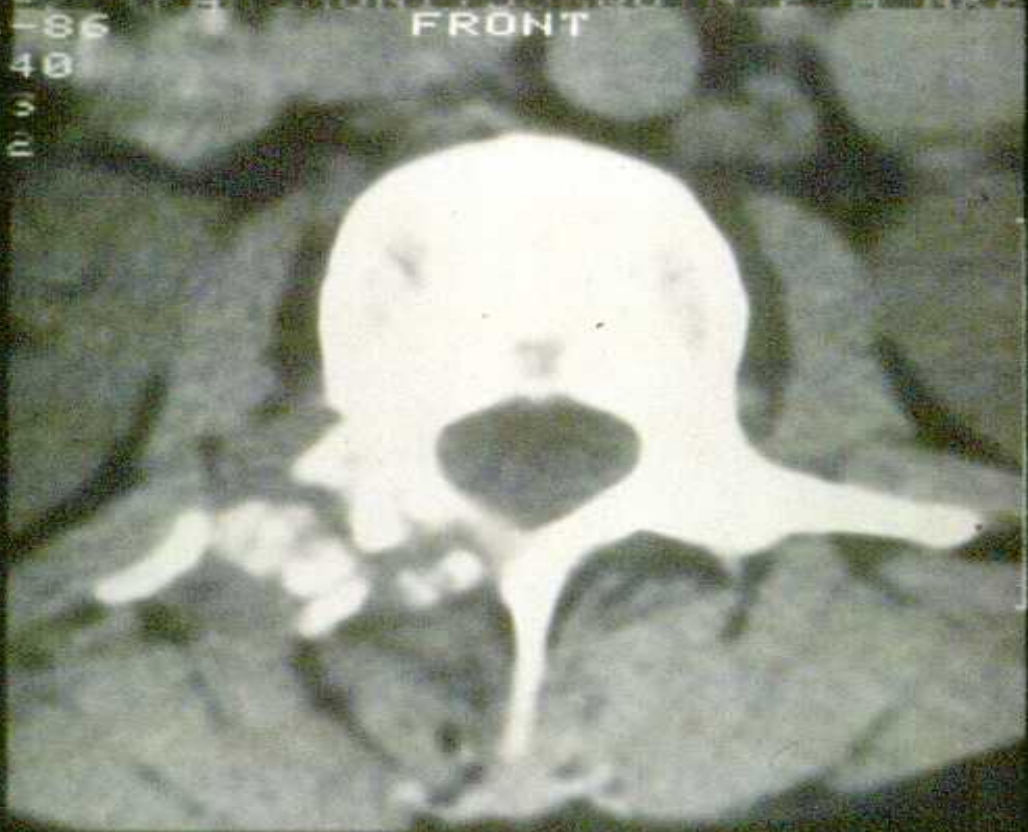
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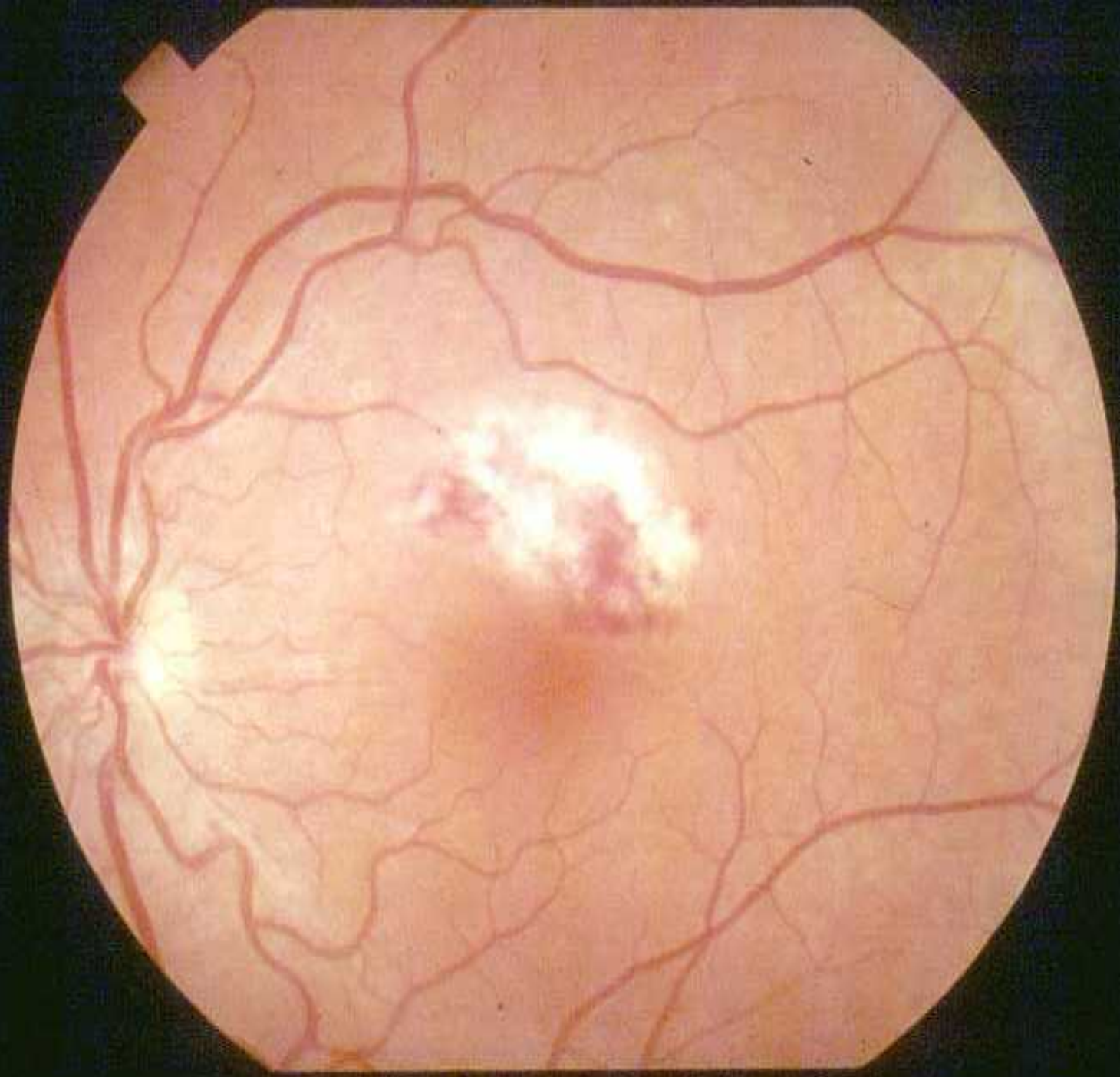
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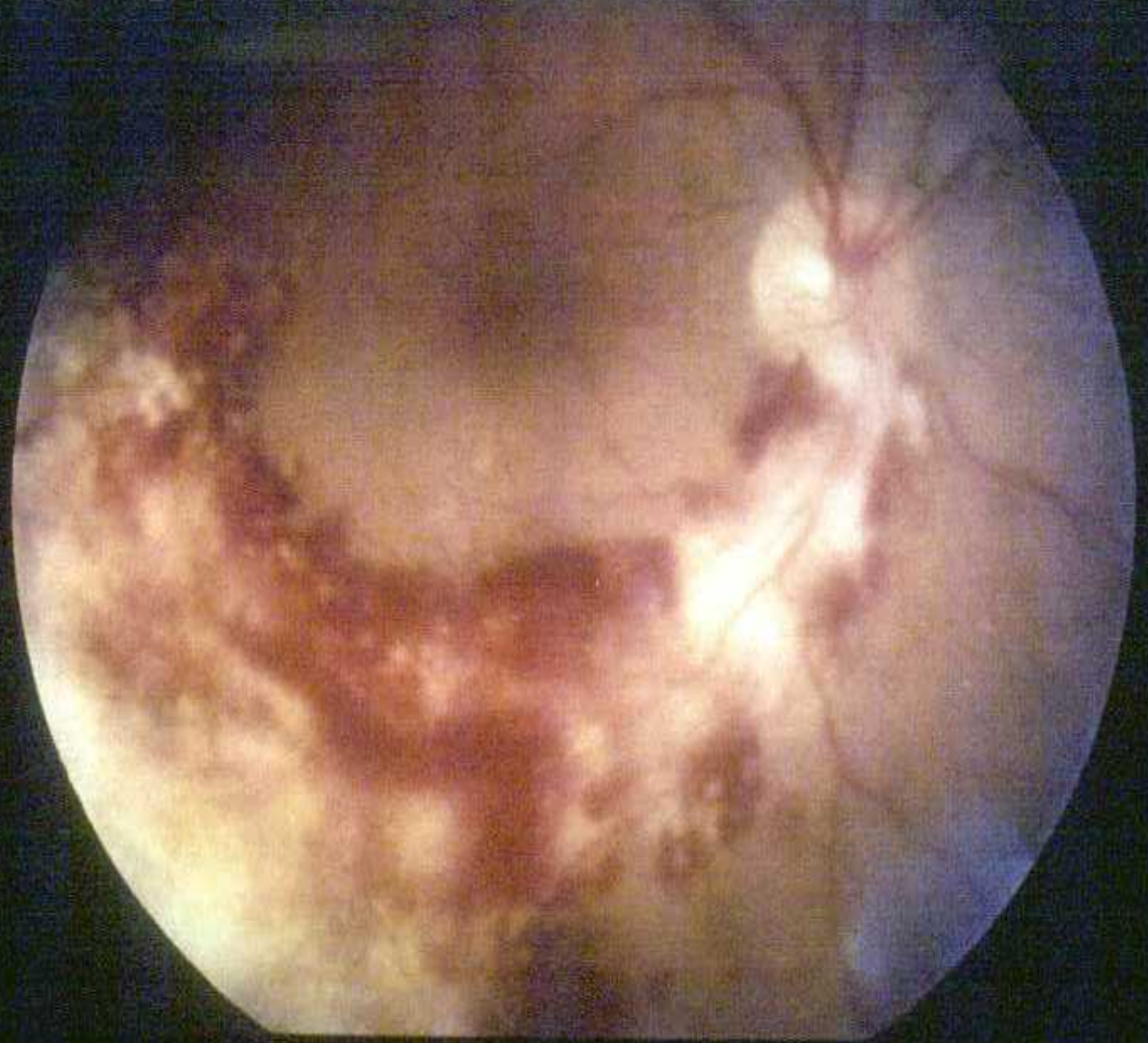






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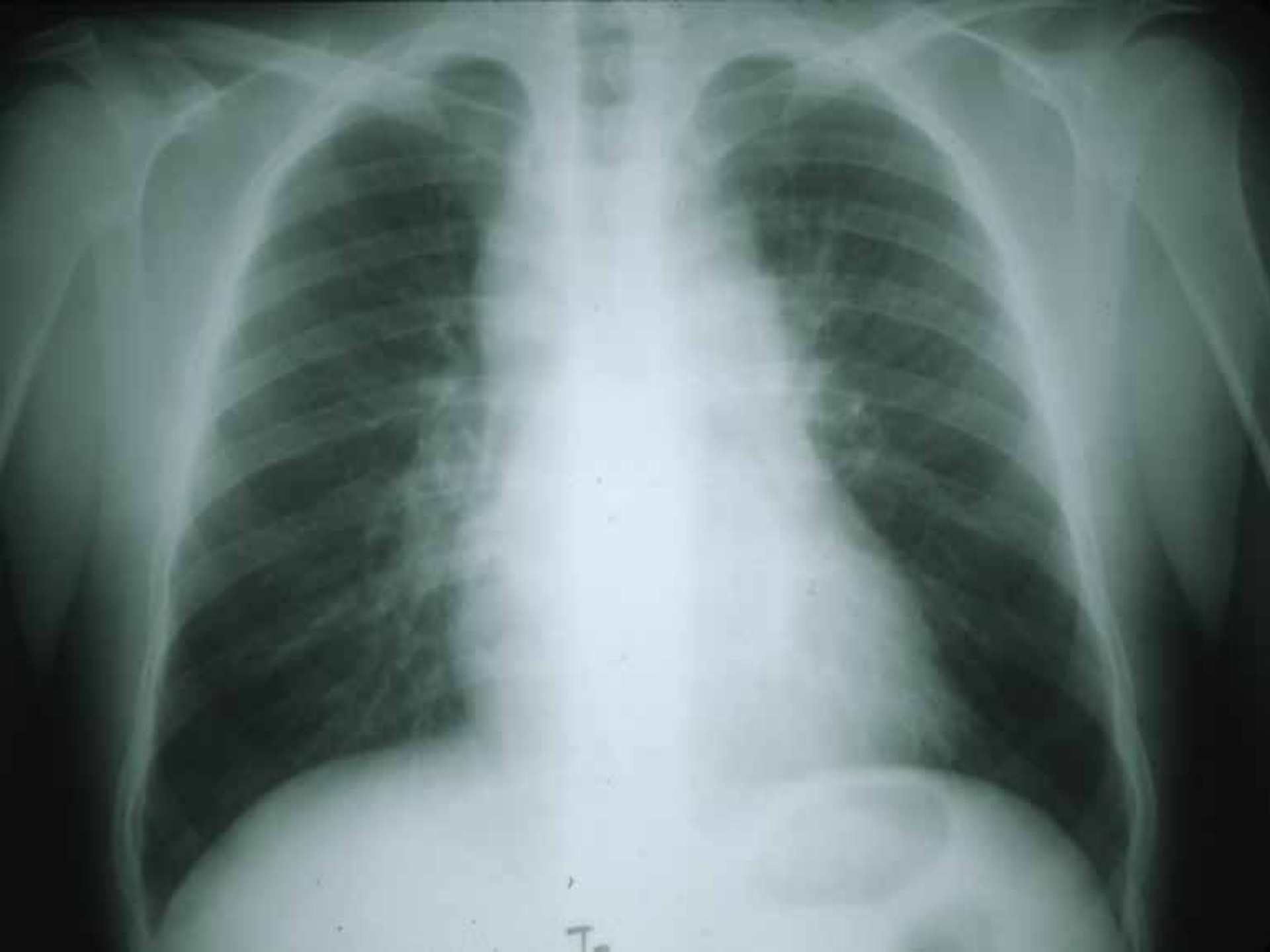
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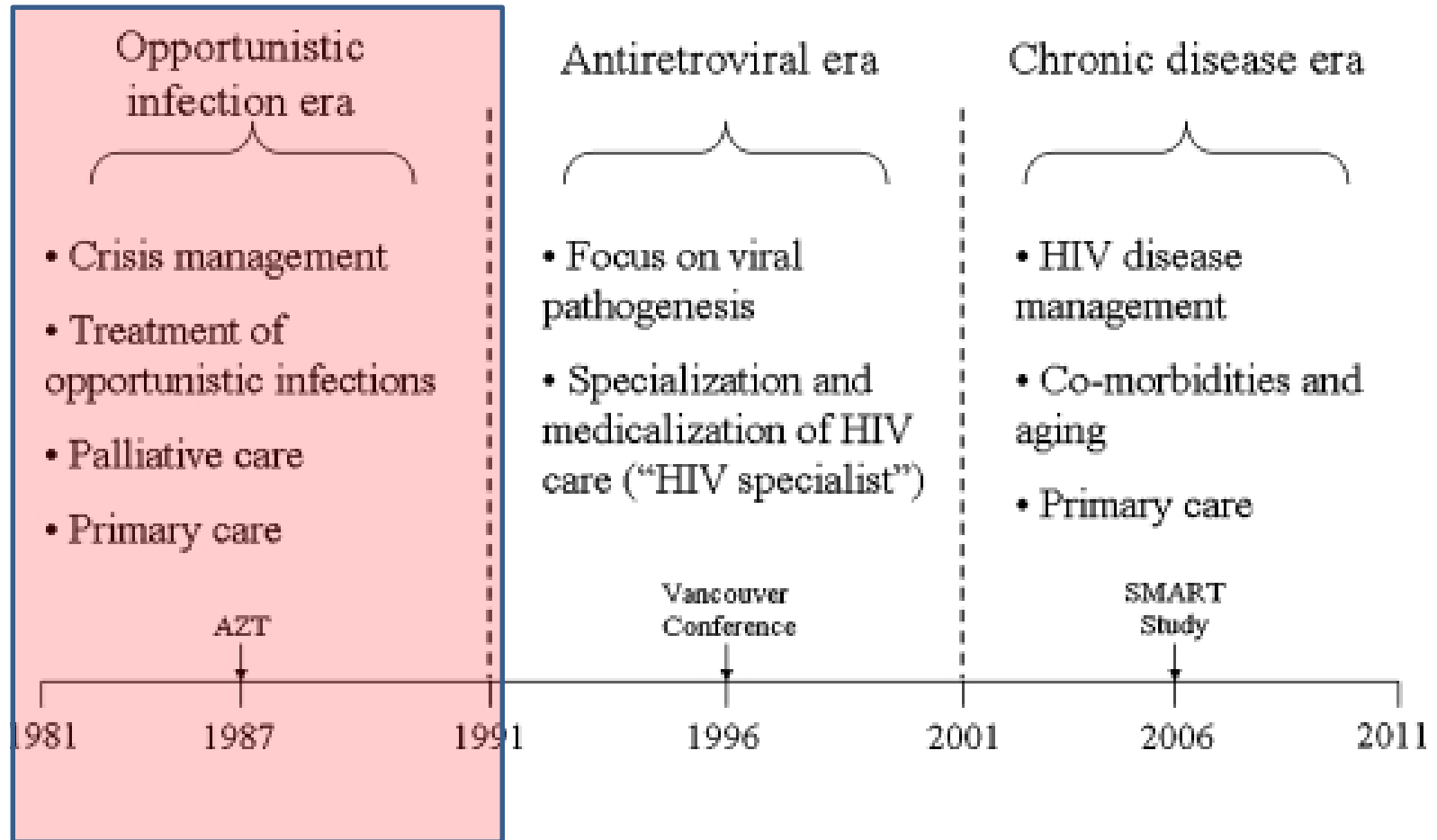
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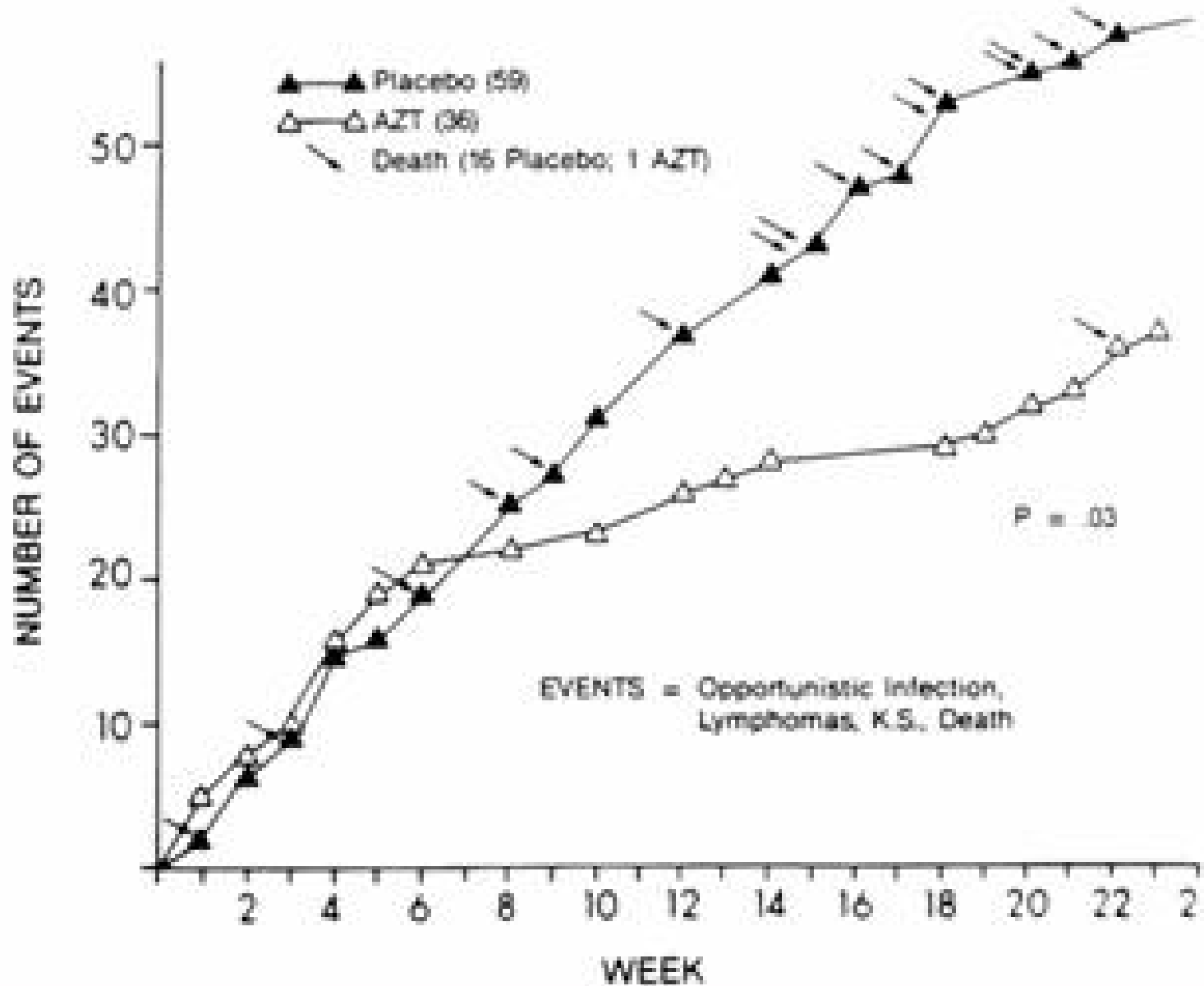


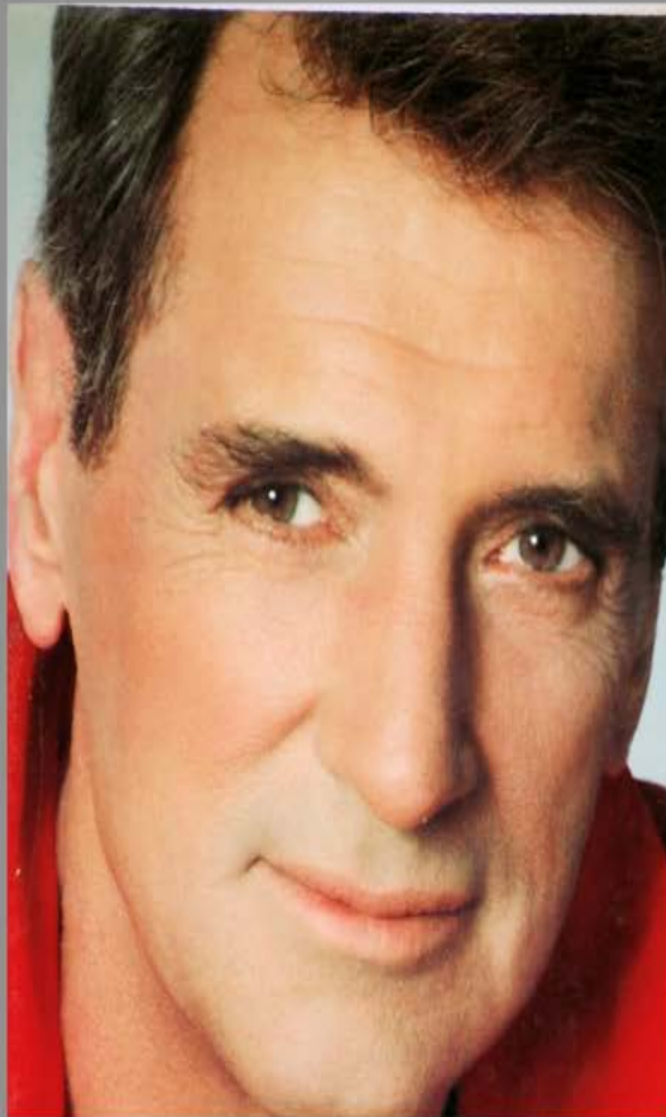


Three Eras of HIV Treatment



SERIOUS EVENTS / ALL PATIENTS





Rock Hudson

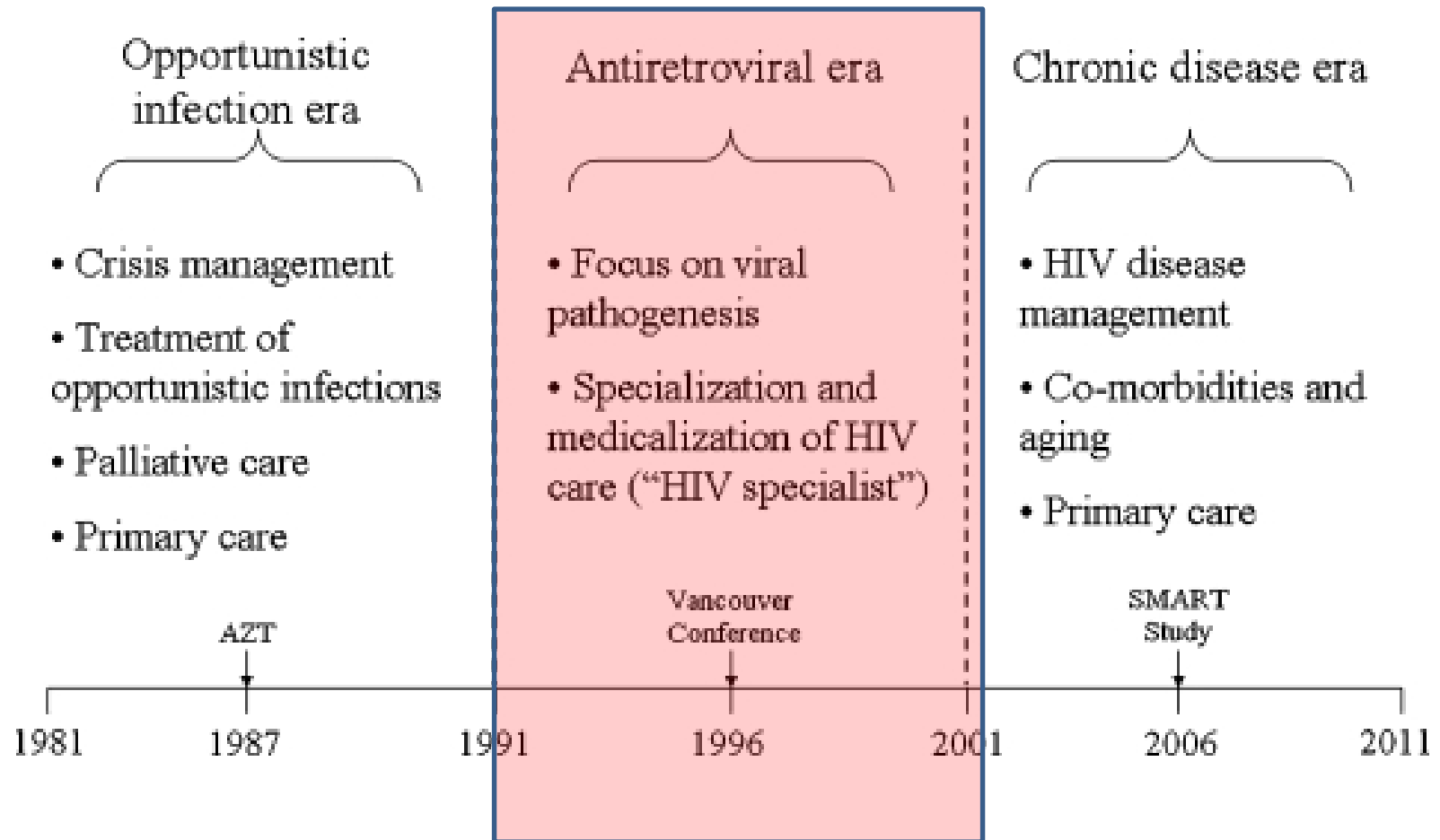




Rock Hudson

1925-1985

Three Eras of HIV Treatment



XI INTERNATIONAL CONFERENCE ON AIDS: VANCOUVER, JULY 7-16, 1996

HIV viral dynamics

D. Ho, G. Shaw: 10 billion/d

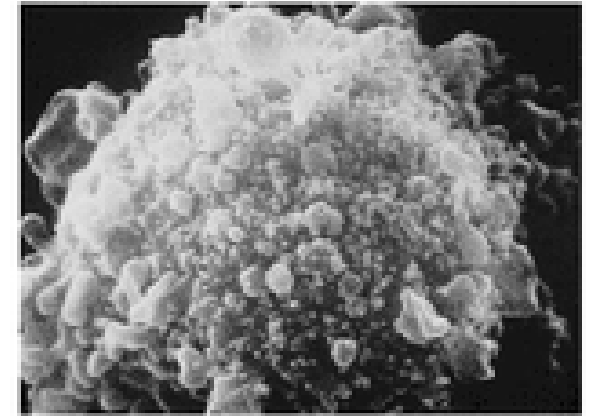
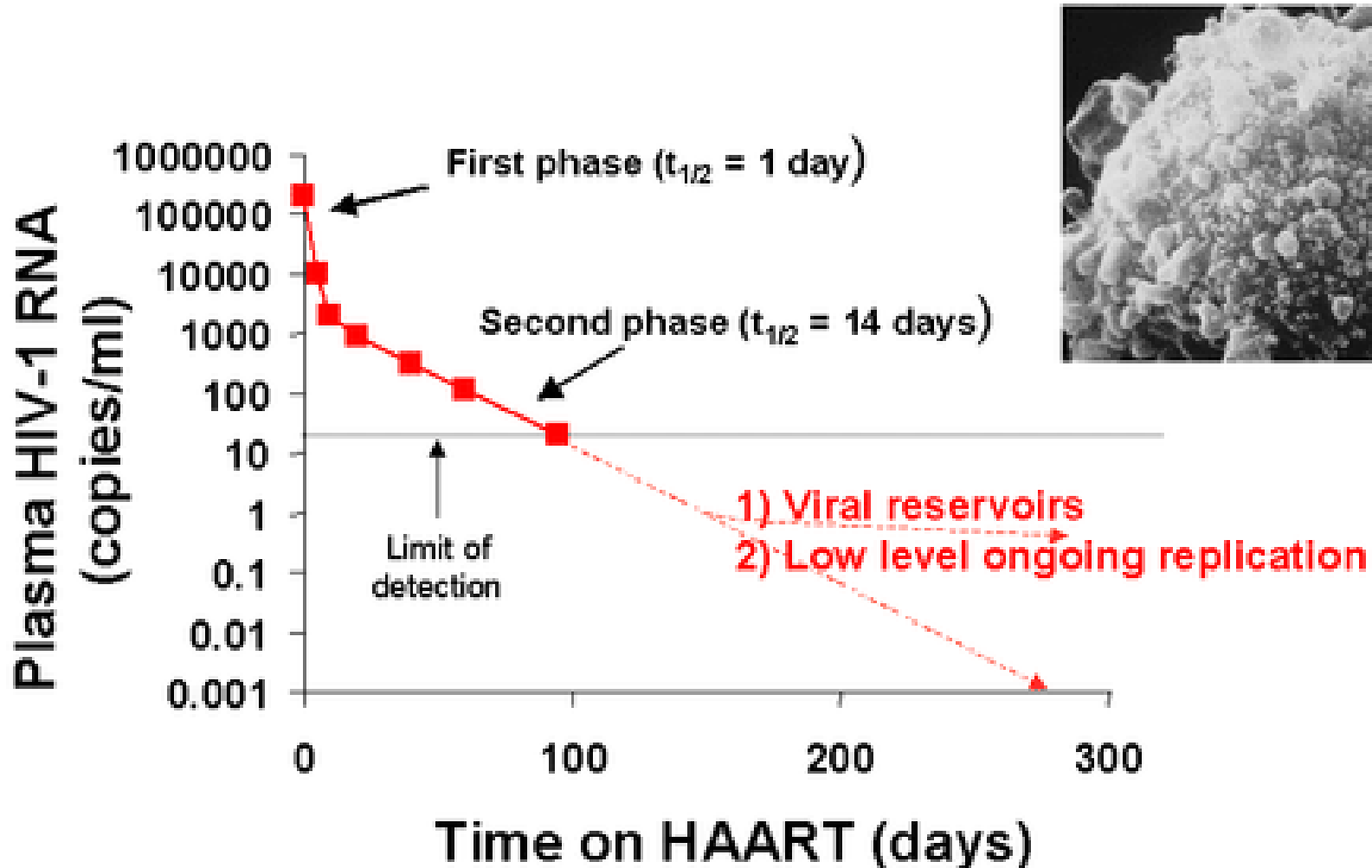
HIV viral load

- **J. Mellors: Predicts progression**
- **Roche: Threshold 15-25 c/mL**

Clinical trials

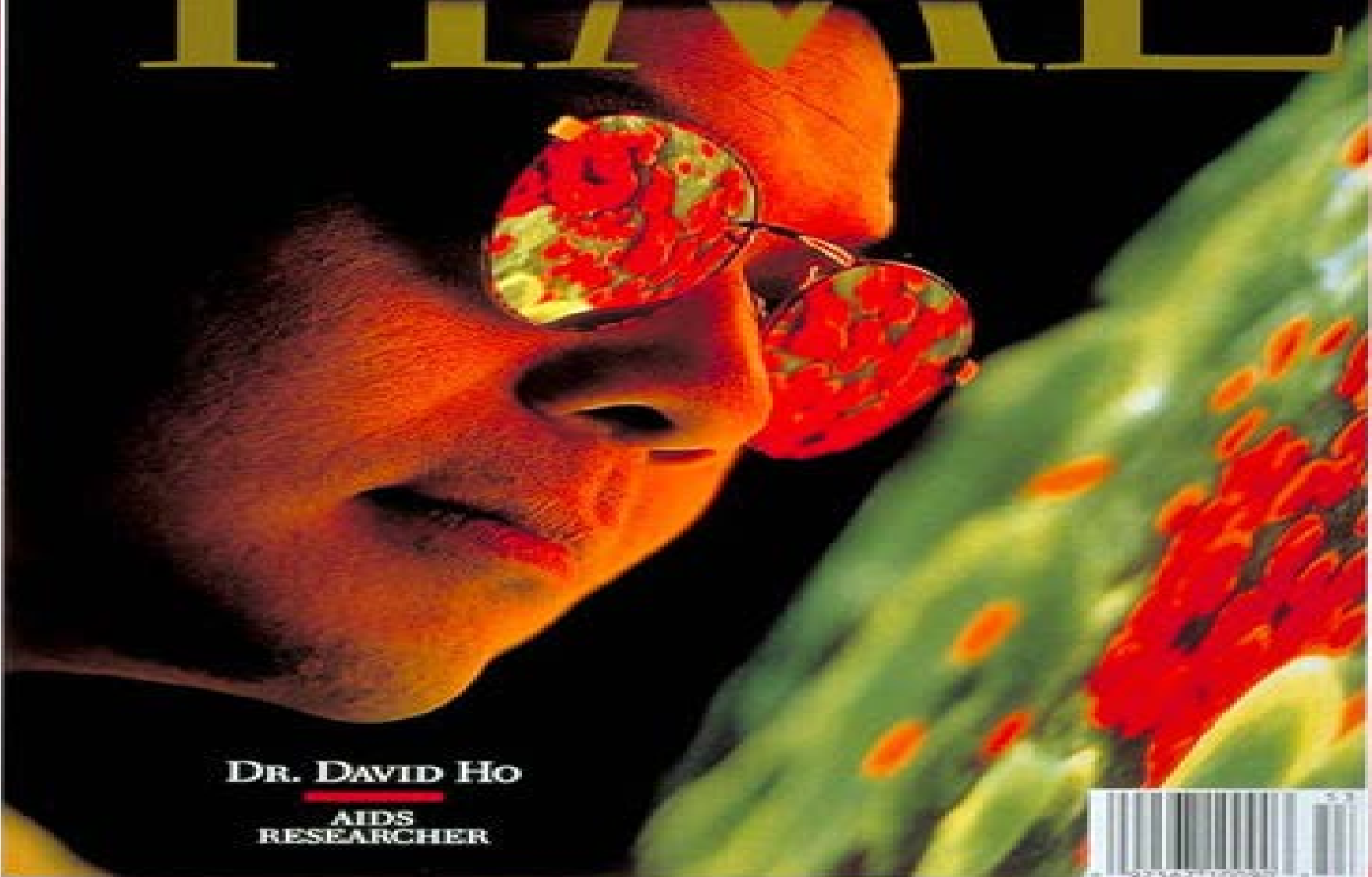
- **J. Montagner: NVP/AZT/ddI**
- **R. Gulick: IDV/AZT/3TC**
- **M. Markowitz: SQV/RTV**

Dynamics of HIV-1 Replication in Patients on Antiretroviral Therapy



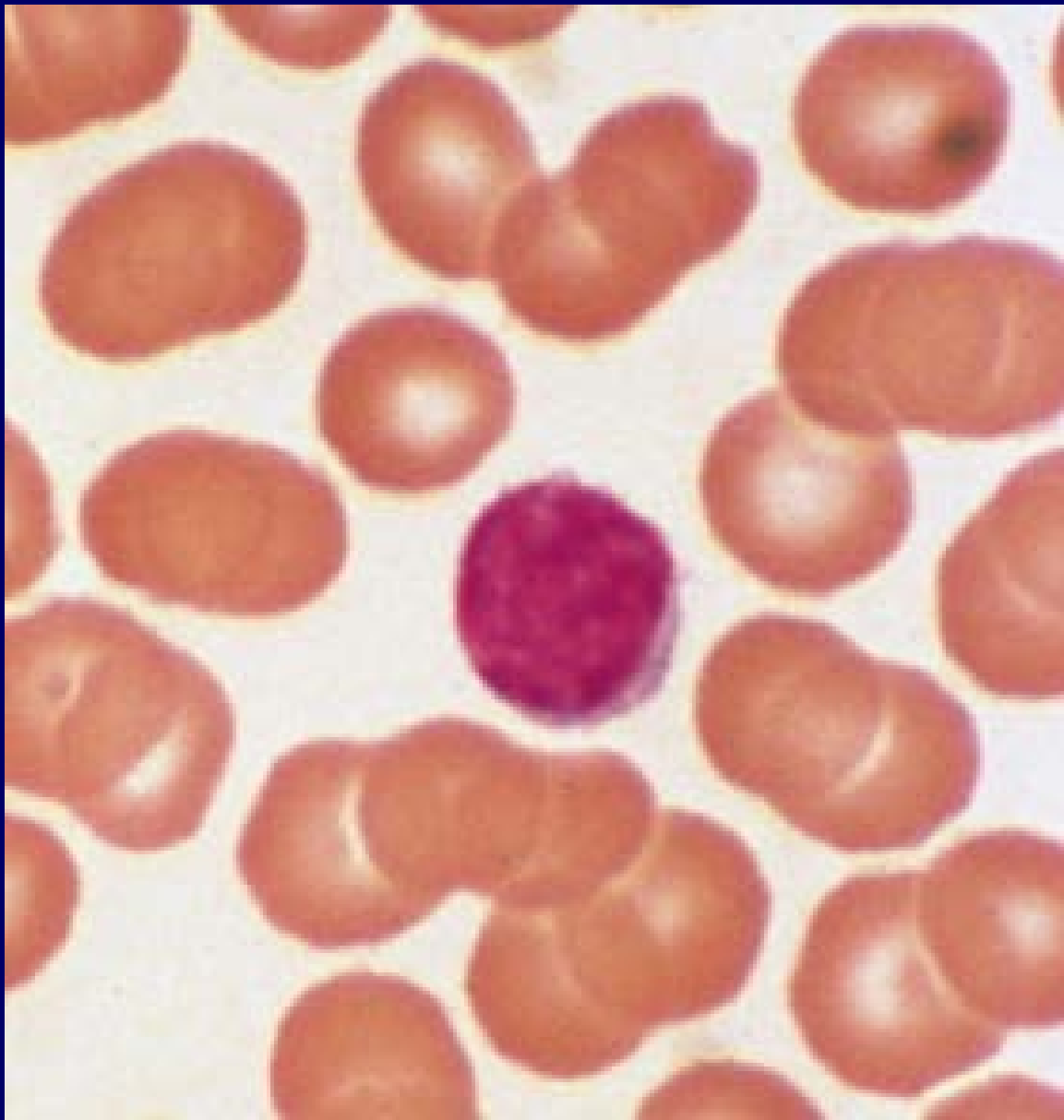
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MAN OF THE YEAR

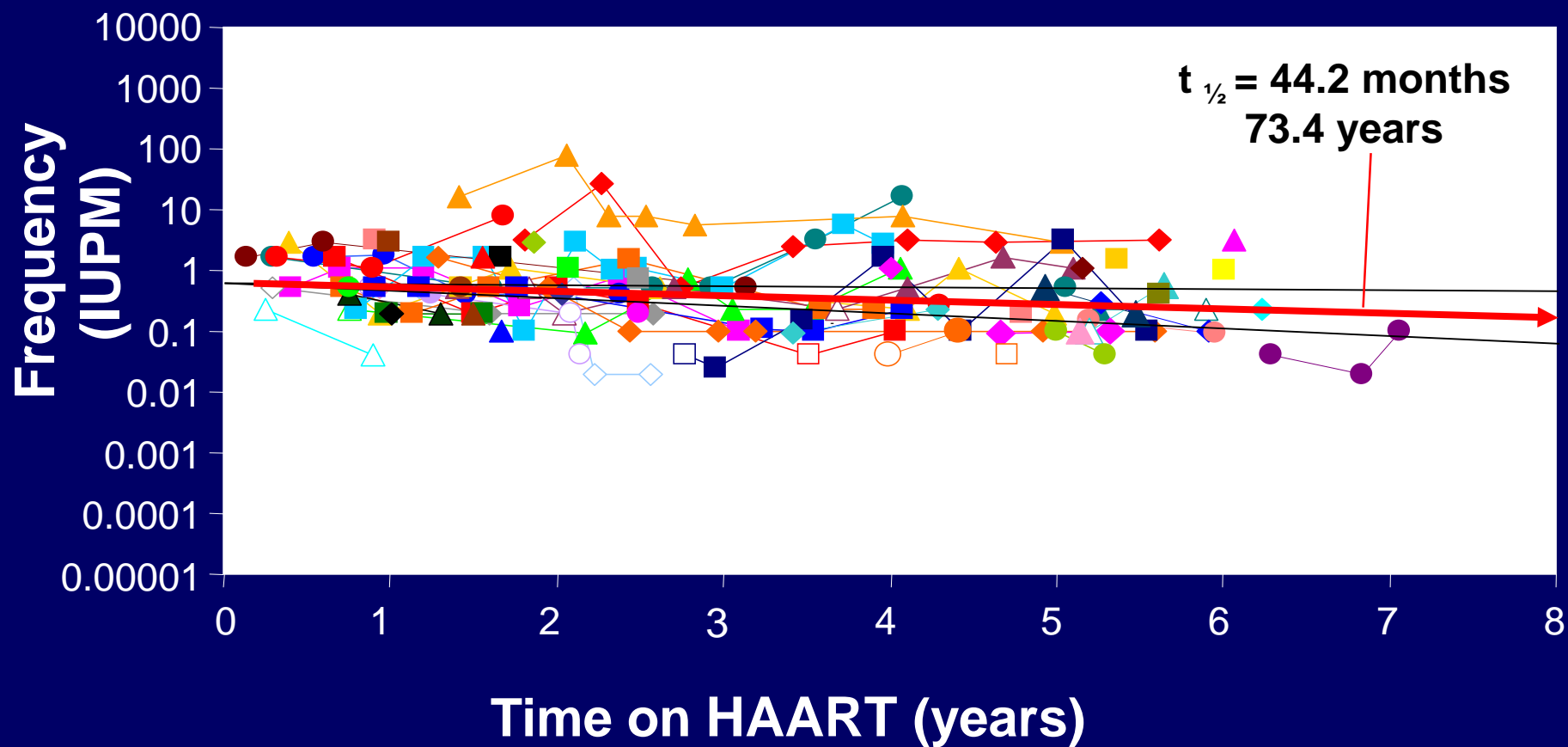


DR. DAVID HO
AIDS
RESEARCHER



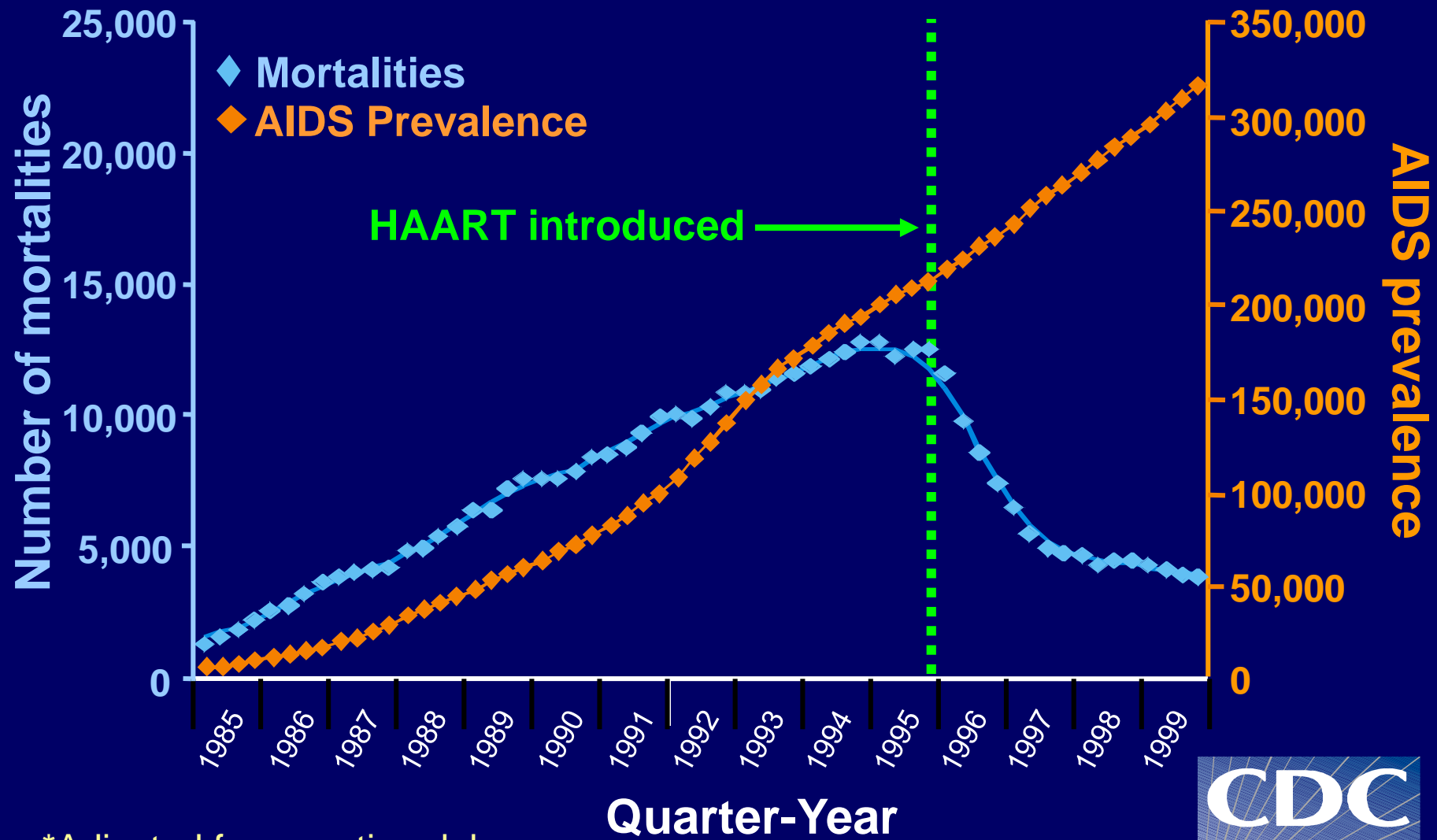


Frequency of Latently Infected CD4+ T Cells as a Function of Time on HAART



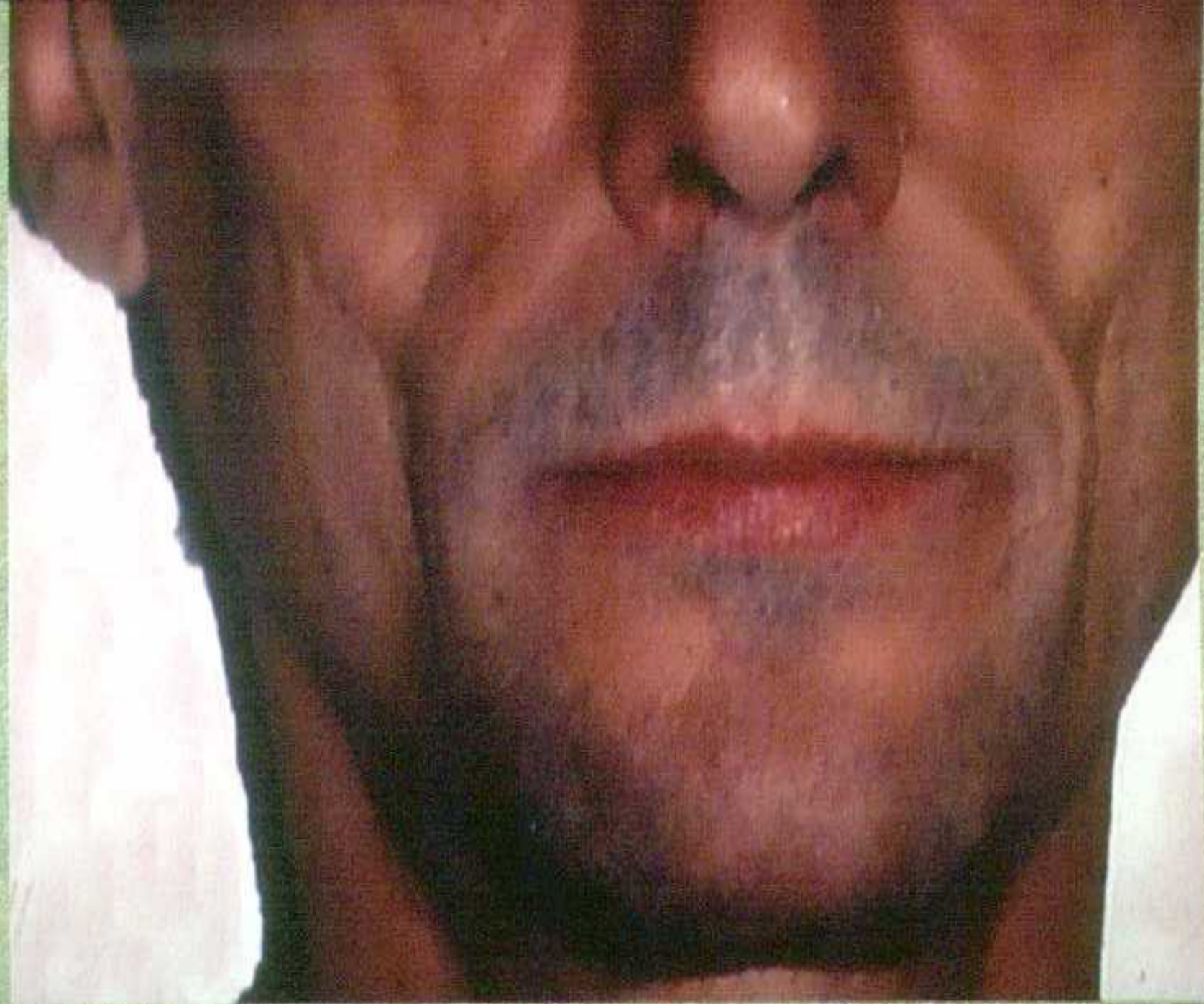
Impact of HAART on HIV-related mortality

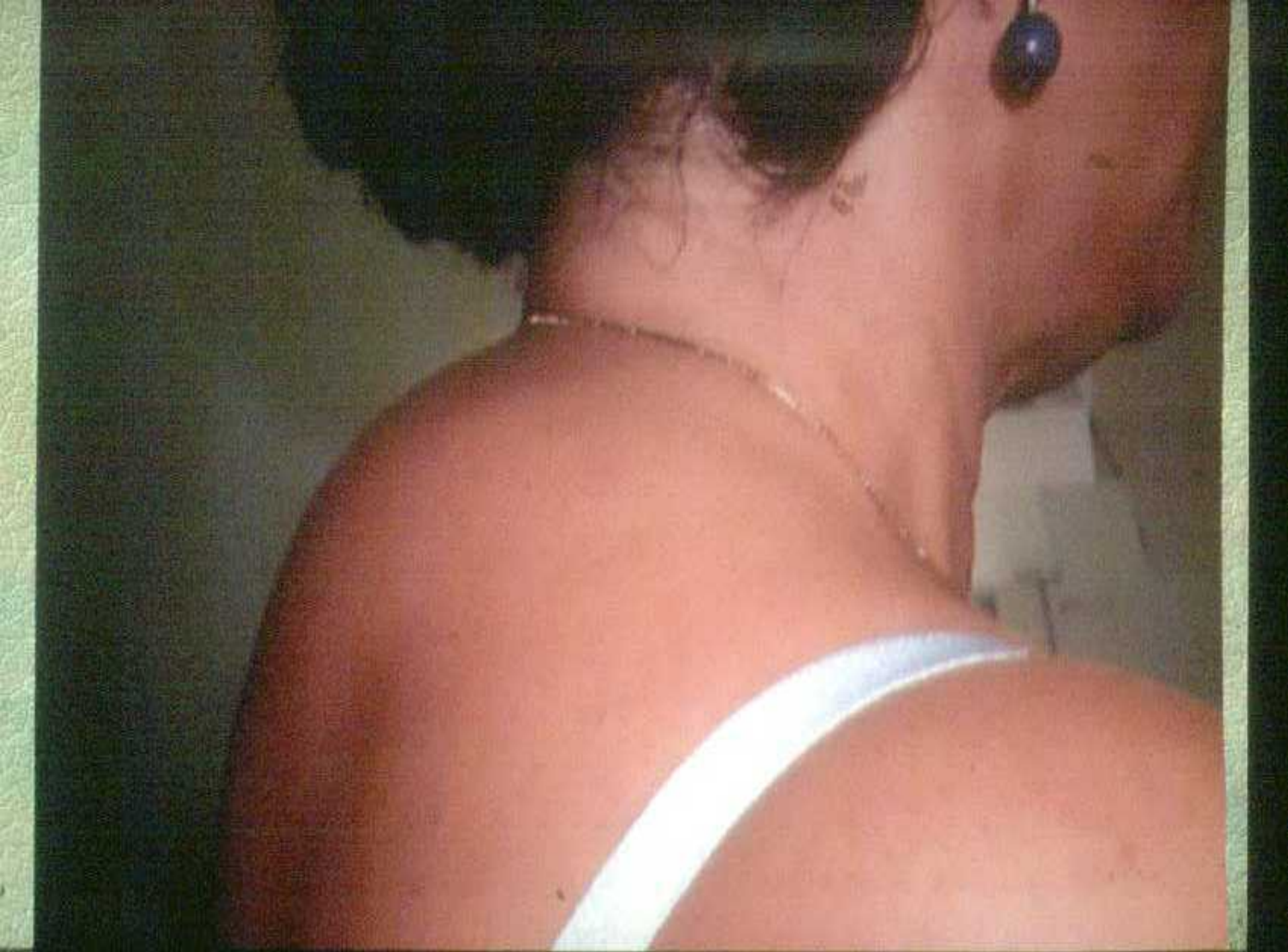
United States, 1985-1999*



*Adjusted for reporting delays











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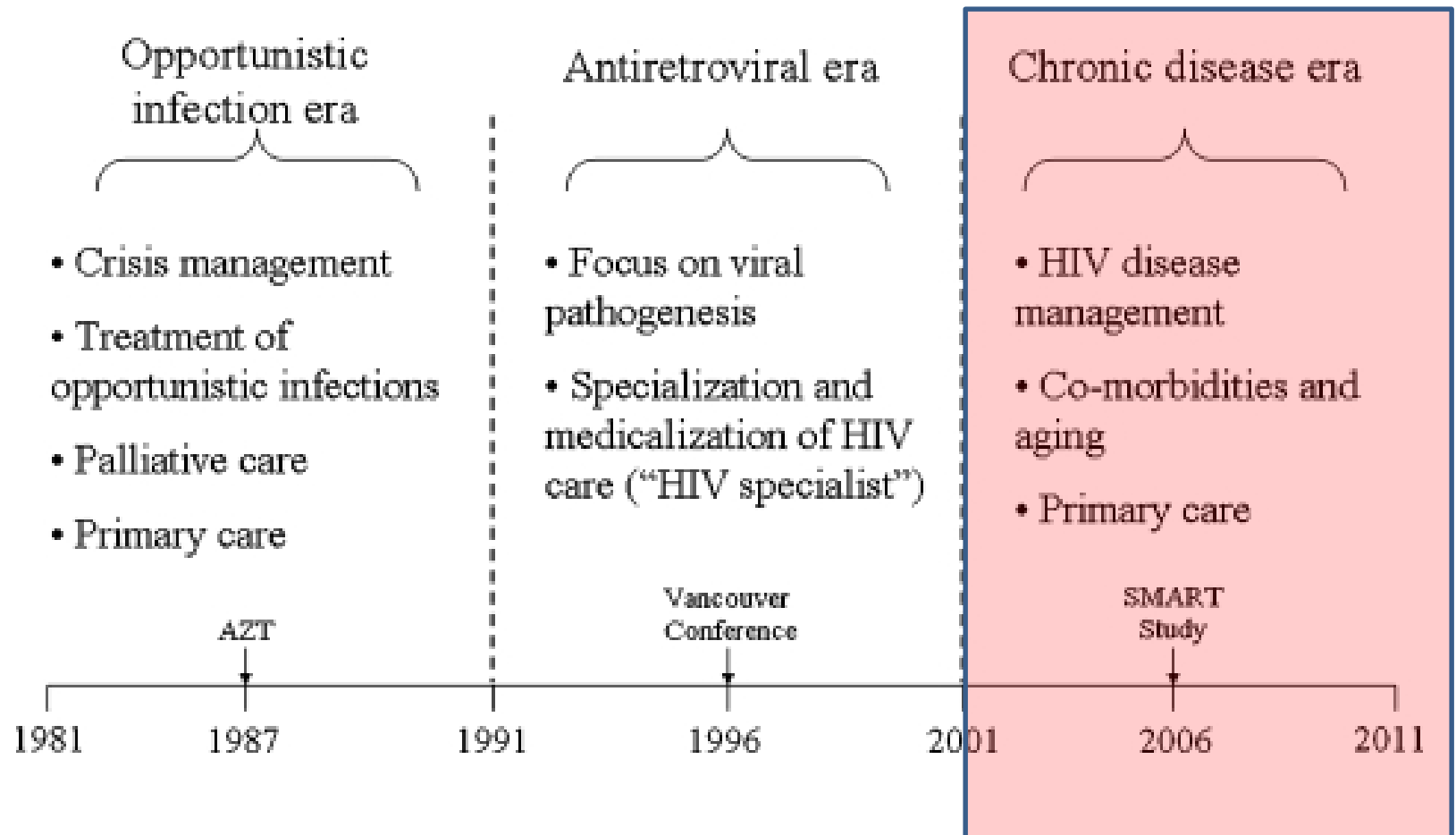




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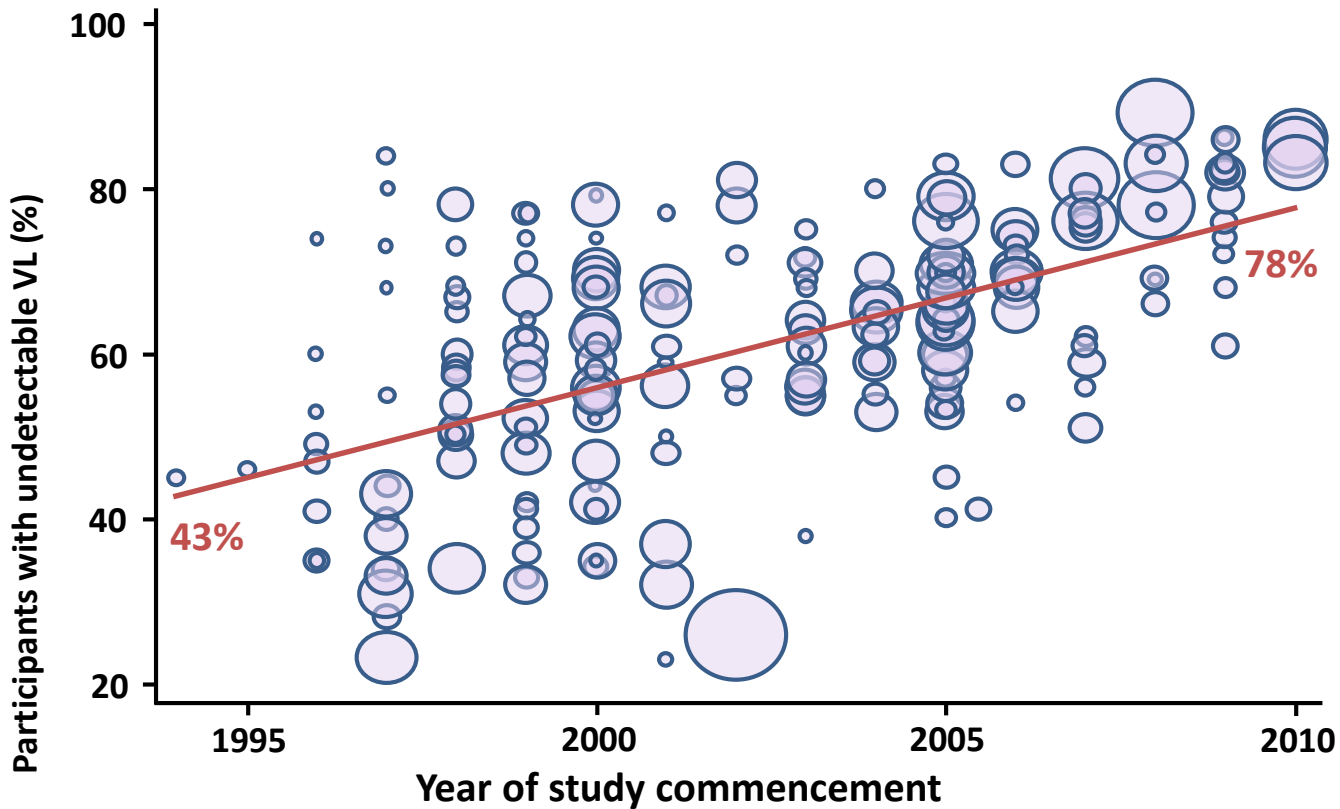
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Three Eras of HIV Treatment



Increasing efficacy of HIV drugs over time

Meta-analysis of 144 studies in >40,000 ART-naive patients



Years	Pre-2000	2000–2002	2003–2005	2006–2008	Post-2008
Efficacy (SD)	47% (14)	52% (1.7)	64% (7.1)	74% (8.5)	82% (6.7)



Magic Johnson

1959-

Physicians taking care of HIV people spent more than 80% of the time searching the best “virological option” for the patient from the beginning until the end of the 90s....

However, this approach has been changed and now we spend more than 80% of the time working as an “Internal Medicine” physician....

“Decálogo”

In the management of patients on ARV:

1.- Short term and long term side effects

2.- Age

3.- Cardiovascular disease

4.- Liver (toxicity and hepatotropic viruses)

5.- Kidney

6.- Inflammation

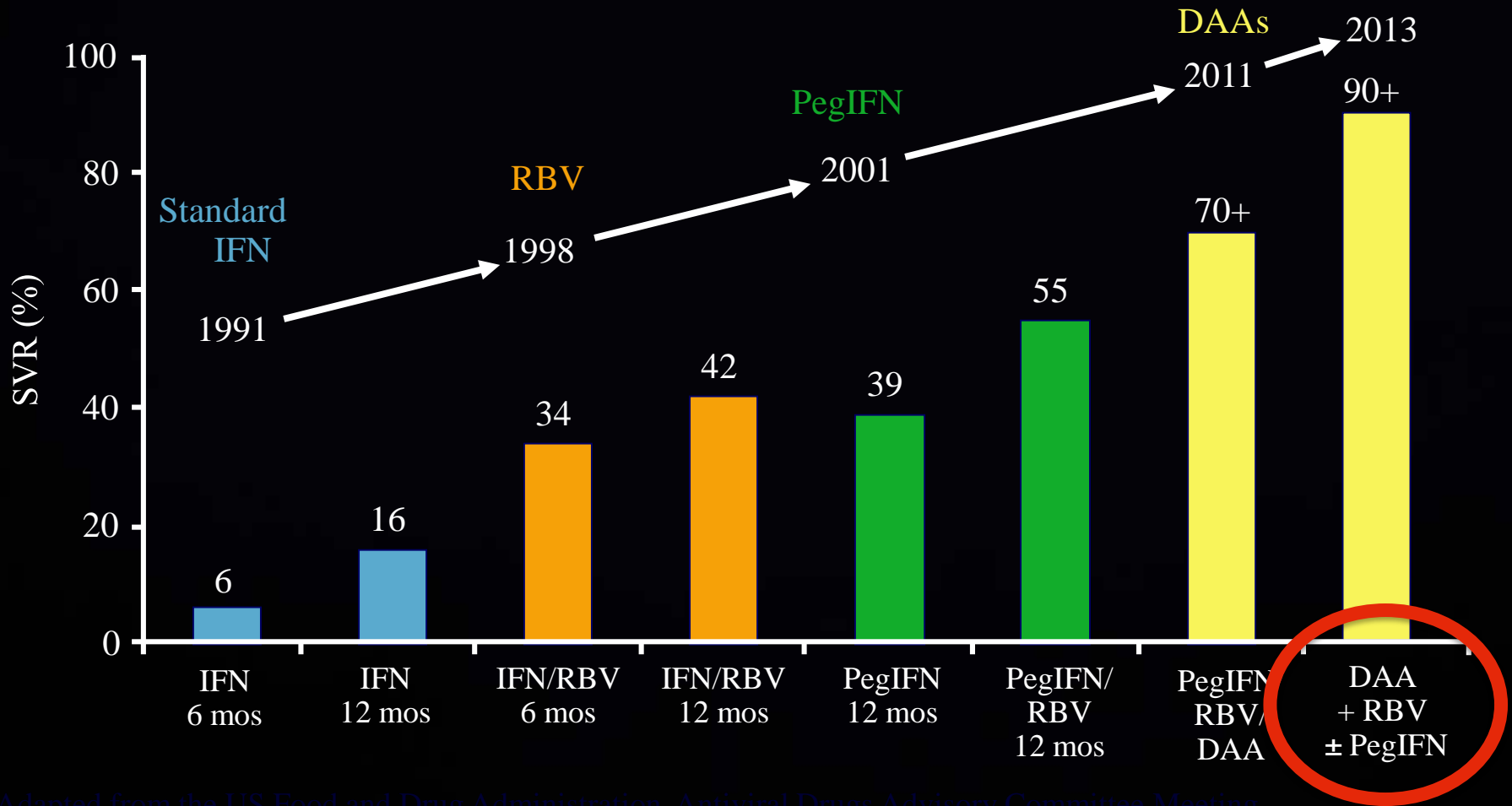
7.- Lipodystrophy

8.- Neurotoxicity

9.- Bone

10.- Vitamin D

The Good News



Adapted from the US Food and Drug Administration, Antiviral Drugs Advisory Committee Meeting, April 27-28, 2011, Silver Spring, MD.

IFN-Free Therapies: Considerations

- No parenteral. ✓
- Tolerance (equal to placebo) ✓
- Higher SVR ✓
- *...Can we forget PR based therapies?????*
- ***YES, WE CANiiiiiii***

HIV-1 Vaccines



Thirty-six years ago, President Kennedy...gave us a goal of reaching the moon, and we achieved it - ahead of time

Let us today set a new national goal for science in the age of biology. Today, let us commit ourselves to developing an AIDS vaccine within the next decade

- President Bill Clinton, 1997

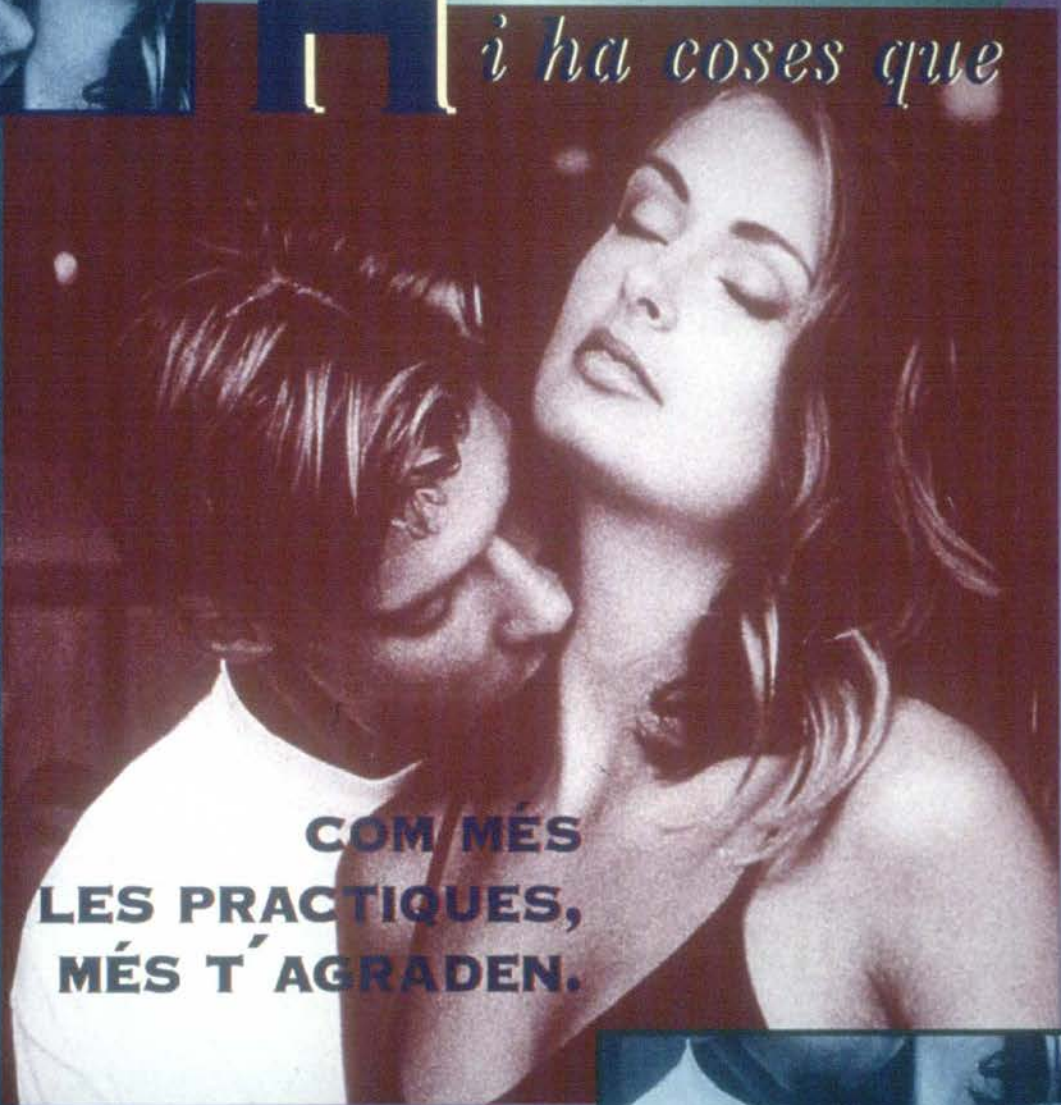


Kondom

Swedish condom symbol. *The Swedes have been promoting condoms for more than a decade to slow the spread of sexually transmitted diseases. The mathematical model of the AIDS epidemic indicates that if condom use can decrease by a factor of 5 the chance that a man with AIDS will infect a homosexual partner, the epidemic will die out in the homosexual community.*



H *i ha coses que*



**COM MÉS
LES PRACTIQUES,
MÉS T'AGRADEN.**



Just another small changes in the last 30 years,....





Moltes
Gràcies!!!!