

Statisticians: Making our World a Better Place



John
Enright
c2003

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Main symptoms of AIDS

Neurological

- Encephalitis
- Meningitis

Eyes

- Retinitis

Lungs

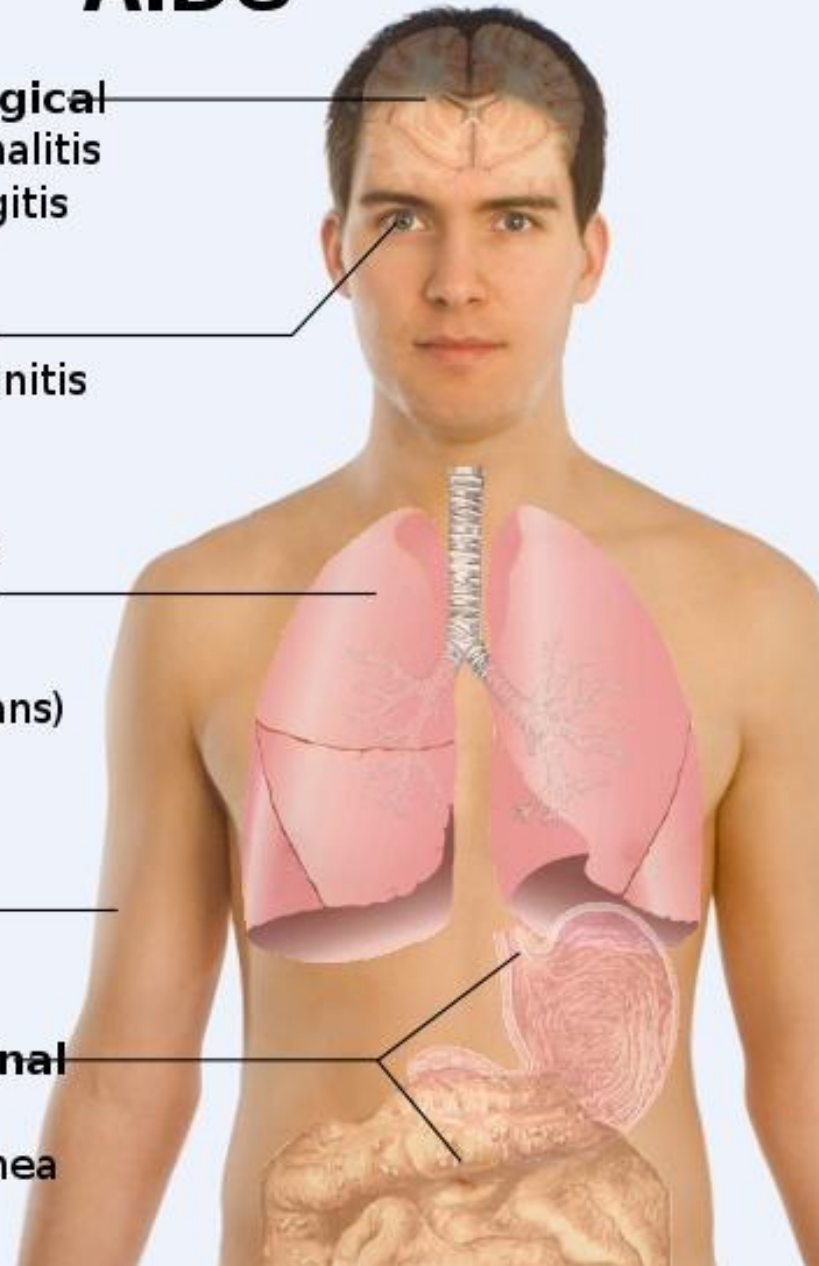
- Pneumocystis pneumonia
- Tuberculosis (multiple organs)
- Tumors

Skin

- Tumors

Gastrointestinal

- Esophagitis
- Chronic diarrhea
- Tumors





FIGHTING FOR OUR LIVES

AN AIDS CANDLELIGHT MARCH

A personal expression to honor the dead and support the living.

SAN FRANCISCO

7:30 P.M.

FROM CASTRO & MARKET
TO U.N. PLAZA/CIVIC CENTER

BRING CANDLE

INFO / AIDS & KS FOUNDATION
(415) 864-4376

NEW YORK

8:00 P.M.

FROM SHERIDAN SQUARE
TO FEDERAL BUILDING

BRING CANDLE AND WEAR
BLACK ARMBAND WITH
PINK TRIANGLE

INFO / GMHC HOTLINE
(212) 685-4952

MONDAY, MAY 2, 1983

Randomized Clinical Trials

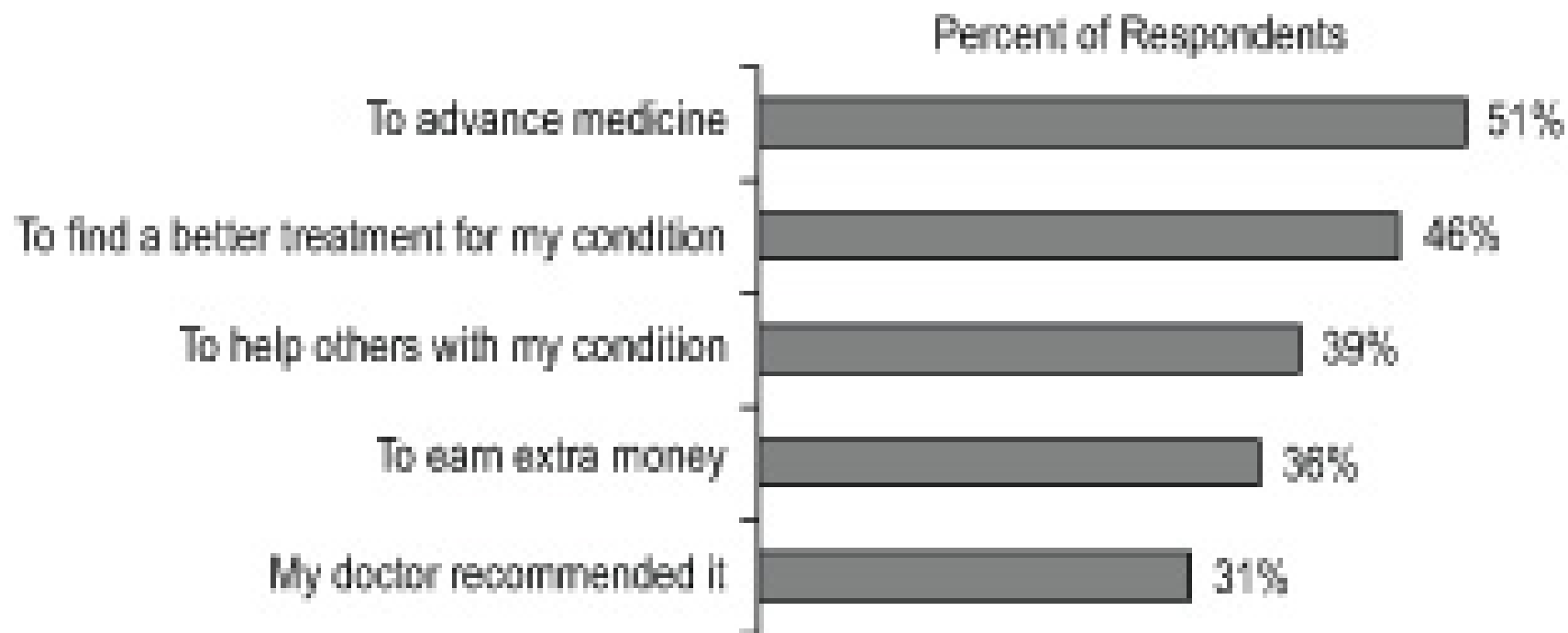
(RCT):

The Way that Science

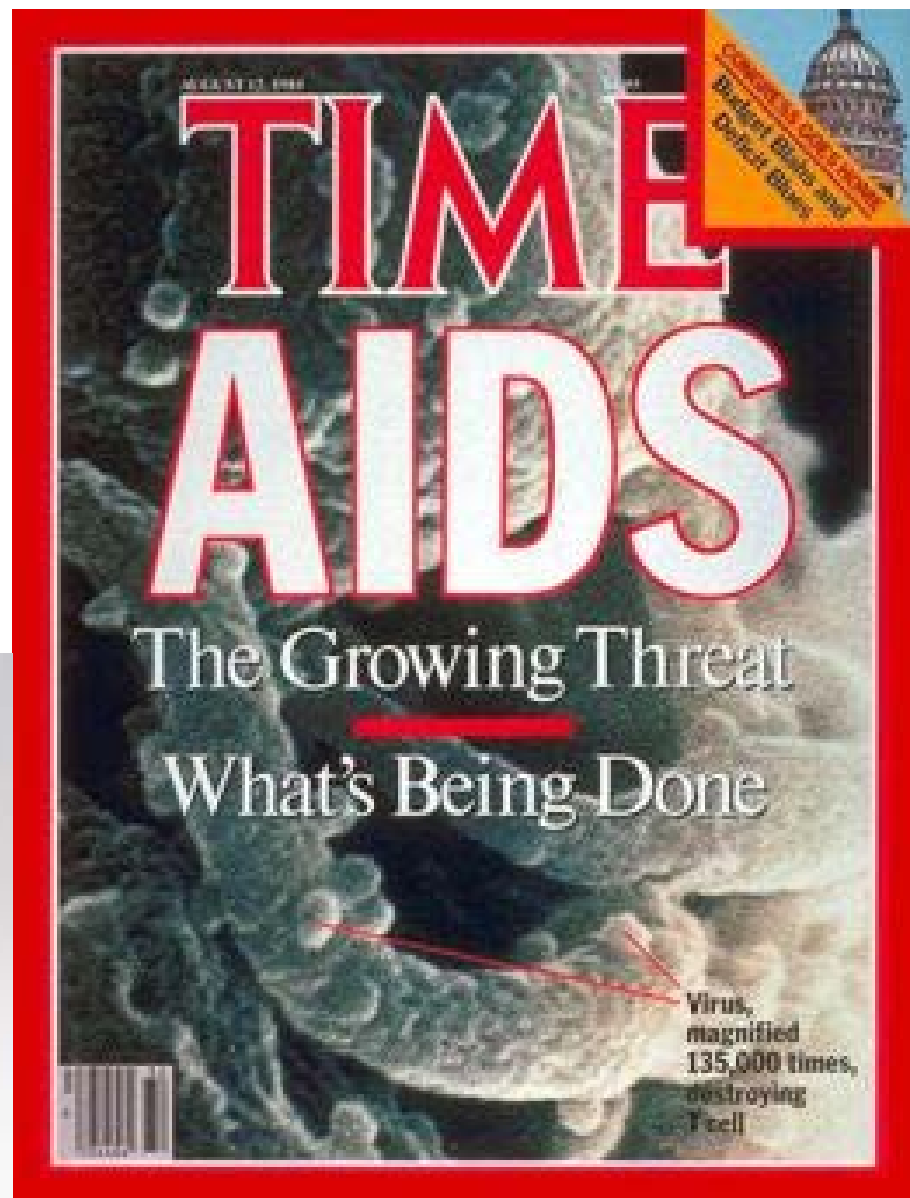
Makes Progress

Against Disease

Top 5 Reasons Why People Participate in Clinical Trials



Source: HamishInteractive, 2005; N=2,261



Problems



Clinical Trial 
RESULTS

Exchanging Drugs



Placebo Group Dropout!



Persuasion



**KEEP
CALM**

AND

**AND FOLLOW
THE RULES**



**KEEP
CALM**

AND

**FOLLOW
THE PROCEDURE**

DON'T ...





yes

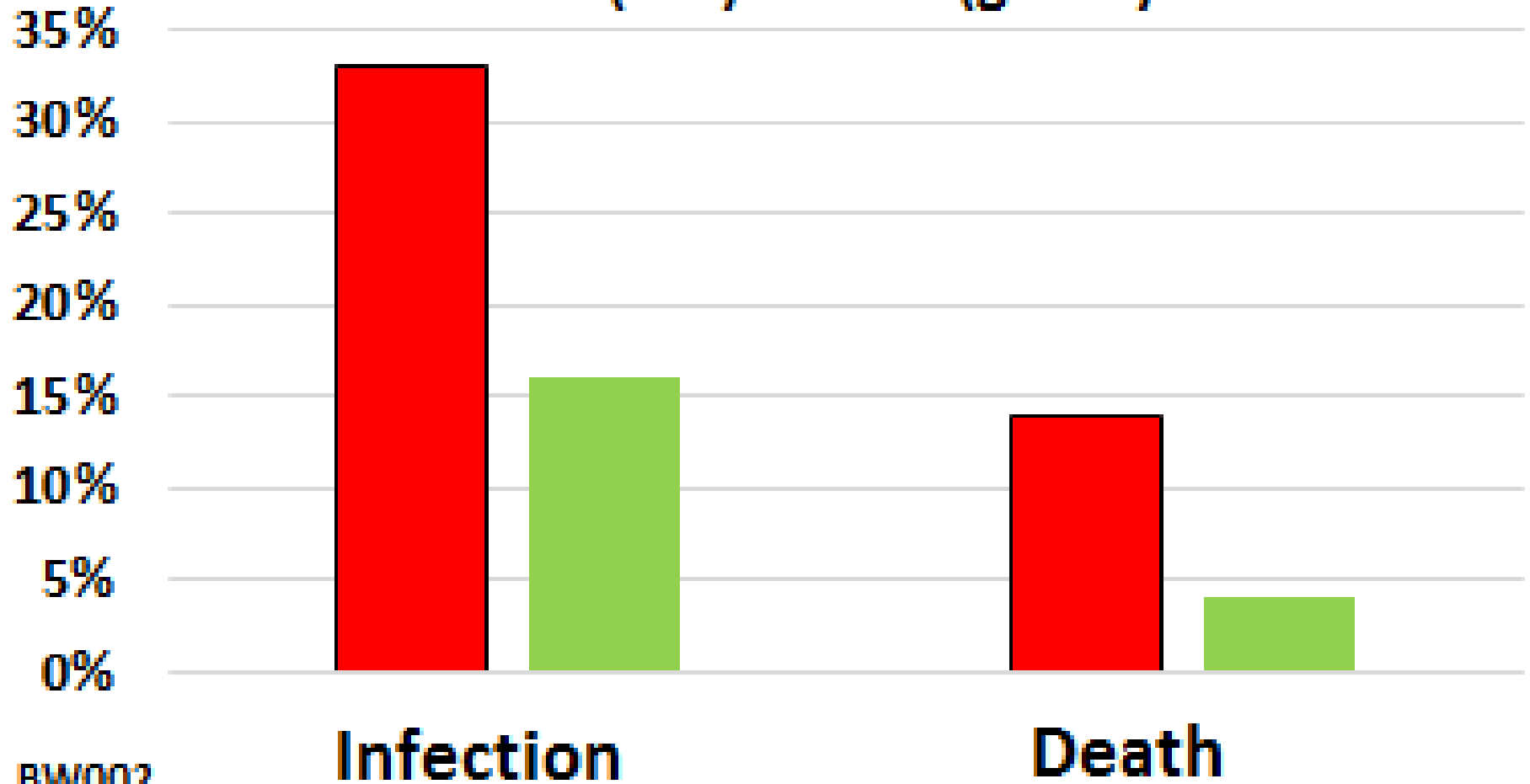
no

maybe

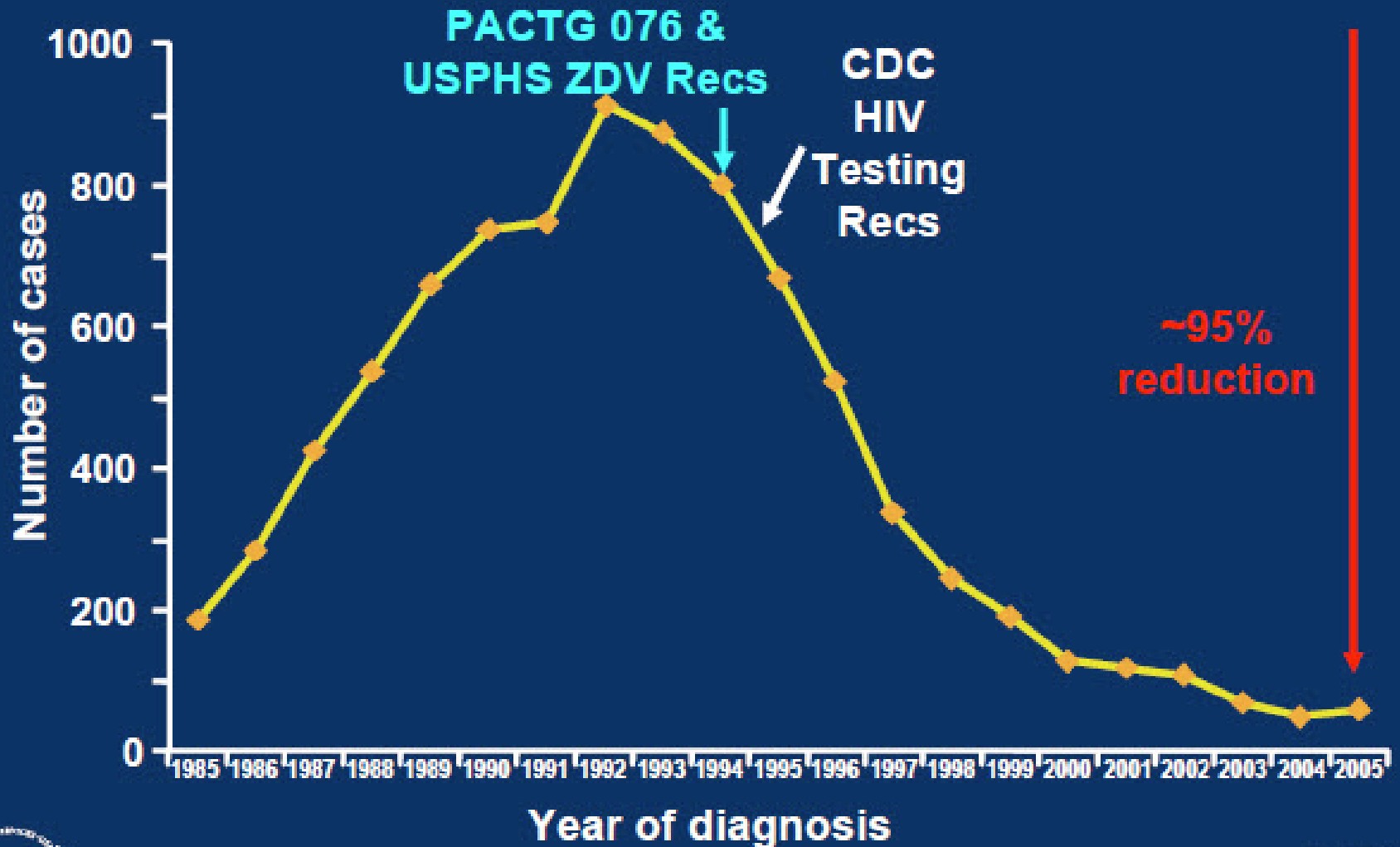
Agreement



AIDS Clinical Trial: Opportunistic Infection and Death Placebo (red) vs. AZT (green)



Estimated Number of Perinatally Acquired AIDS Cases, by Year of Diagnosis, 1985-2005 – United States



Unsung Heroes: Ordinary People doing Extra-Ordinary Things



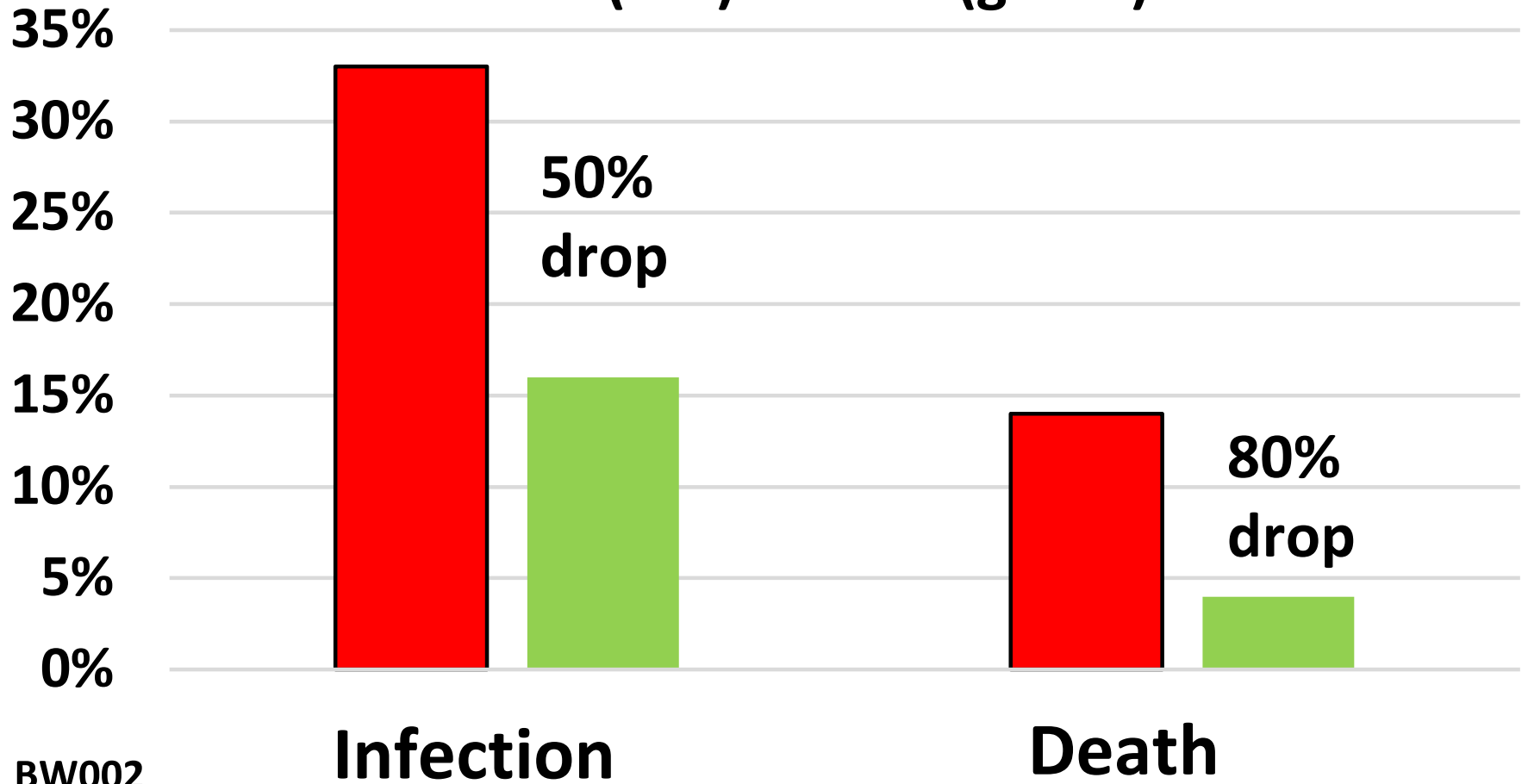
AIDS Volunteers: Making our World a Better Place.



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AIDS Clinical Trial: Opportunistic Infection and Death Placebo (red) vs. AZT (green)



BW002

LAW & ORDER:
TRIAL BY JURY

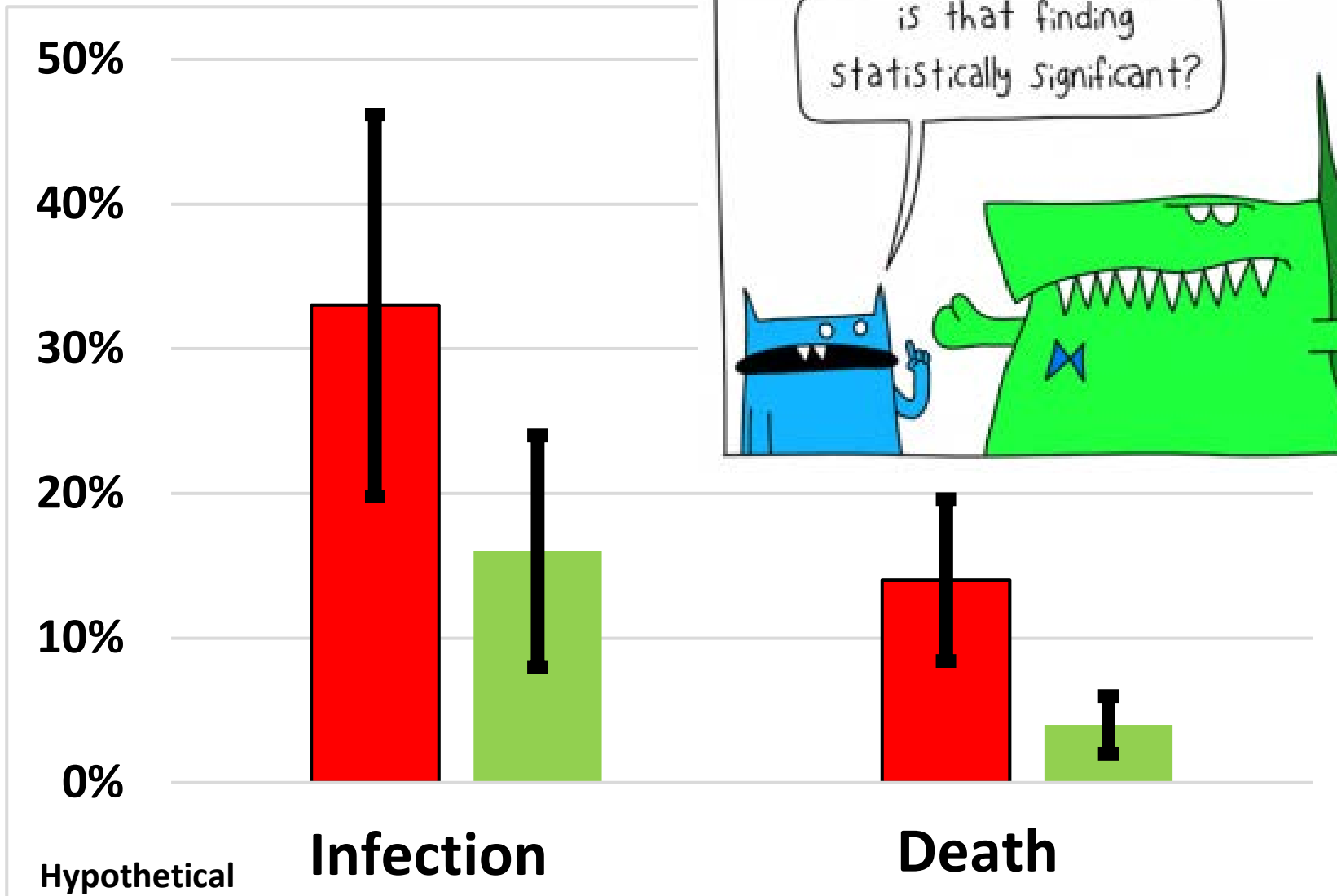
Statisticians?



KEEP
CALM
AND
TRUST YOUR
STATISTICIAN

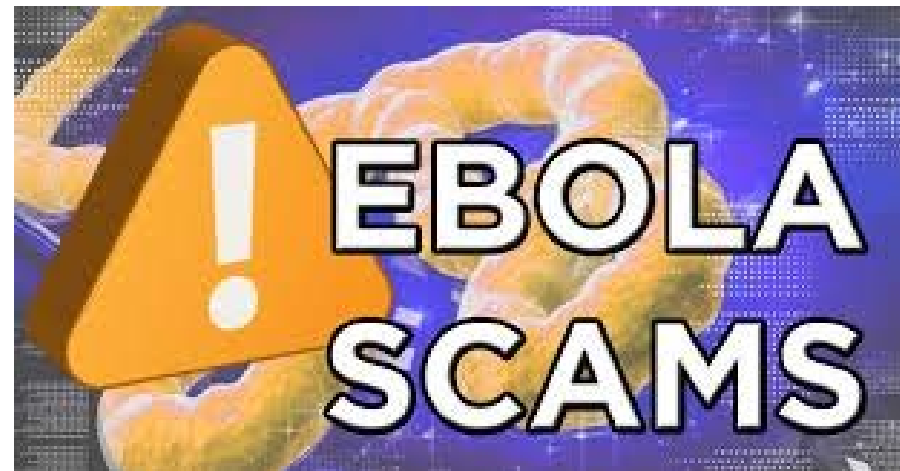
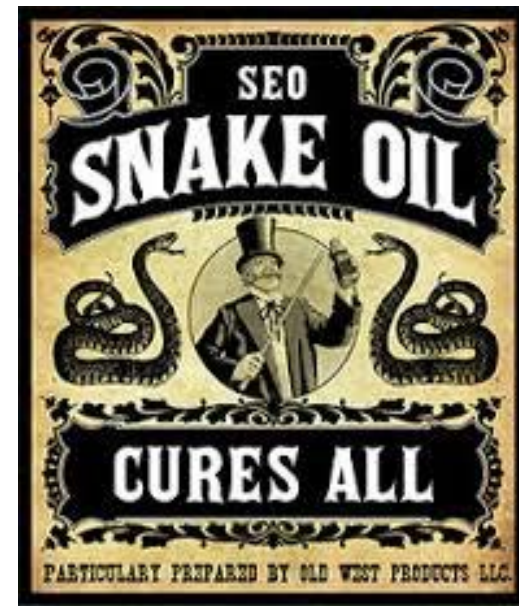


Error bars are hypothetical





Fake Cures?



Statisticians: Making our World a Better Place.



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Member: International Statistical Institute

US Rep: International Statistical Literacy Project

Director, W. M. Keck Statistical Literacy Project

Video: www.StatLit.org/V/2015-Schield-USCOTS-AIDS.mp4

Slides: www.StatLit.org/pdf/2015-Schield-USCOTS-AIDS.pdf

Text: www.StatLit.org/pdf/2015-Schield-USCOTS-AIDS-Text.pdf

Historical Fiction?

The error bars in slide 20 are fictional; they show S/S.

The accuracy of this story is uncertain.

It is based on a story I heard and the following sources:

<http://en.wikipedia.org/wiki/Zidovudine>

www.StatLit.org/pdf/2013-Simon-AIDS.pdf

<http://aidsperspective.net/blog/?p=749&preview=true>

<http://aidsperspective.net/blog/?cat=98> [Pitfalls of subgroup analysis]

<http://www.aidsmap.com/Effectiveness/page/1730905/> [short-term delay]

<http://www.avert.org/history-hiv-aids-usa.htm>

<http://www.virusmyth.com/aids/hiv/jltrial.htm>

www.people.com/people/archive/article/0,,20094689,00.html

<http://annals.org/article.aspx?articleid=703868>

<http://partners.nytimes.com/library/national/science/aids/122887sci-aids.html>

www.sciencedirect.com/science/article/pii/0895717795002294

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