Statisticians: Making our World a Better Place
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) 864-4976

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

<table>
<thead>
<tr>
<th>Reason</th>
<th>Percent of Respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td>To advance medicine</td>
<td>51%</td>
</tr>
<tr>
<td>To find a better treatment for my condition</td>
<td>46%</td>
</tr>
<tr>
<td>To help others with my condition</td>
<td>39%</td>
</tr>
<tr>
<td>To earn extra money</td>
<td>36%</td>
</tr>
<tr>
<td>My doctor recommended it</td>
<td>31%</td>
</tr>
</tbody>
</table>

Source: Harris Interactive, 2005; N=2,261
Problems

Clinical Trial RESULTS

LAB RESULTS
Exchanging Drugs
Placebo Group Dropout!
Persuasion

KEEP CALM
AND
AND FOLLOW THE RULES

KEEP CALM
AND
FOLLOW THE PROCEDURE
DON’T ...
Agreement
AIDS Clinical Trial:
Opportunistic Infection and Death
Placebo (red) vs. AZT (green)
Unsung Heroes: Ordinary People doing Extra-Ordinary Things
AIDS Volunteers: Making our World a Better Place.
AIDS Clinical Trial: Opportunistic Infection and Death Placebo (red) vs. AZT (green)

- Infection: 50% drop
- Death: 80% drop
Statisticians?
Error bars are hypothetical

![Bar chart with hypothetical error bars and cartoon character saying "is that finding statistically significant?".]
Fake Cures?

What are the Top 7 Natural Cures for Cancer... and why does Western Medicine lie, cheat and steal to keep you from knowing them?

EBOLA SCAMS
Statisticians: Making our World a Better Place.
Statisticians: Making our World a better Place
Video created by Milo Schield ©

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
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://aidsperspective.net/blog/?p=749&preview=true
http://aidsperspective.net/blog/?cat=98  [Pitfalls of subgroup analysis]
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
www.sciencedirect.com/science/article/pii/0895717795002294
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