### All you need is ignorance and confidence. All else is assured.

#### Mark Twain



#### I'D DO IT MYSELF BUT I CAN'T DISGUISE THE BITTERNESS AND DESPAIR THAT GNAW AT MY SOUL.

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#### By Scott Adams

#### PLUS MY SON HAS BEEN BAD AND I TOLD HIM I'D PUNISH HIM.

#### I'D BE HONORED TO SPEAK.



#### **Conventional medicine:**

Medicine as practiced by holders of M.D. (medical doctor) or D.O. (doctor of osteopathy) degrees and by their allied health professionals, such as physical therapists, psychologists, and registered nurses. Other terms for conventional medicine include allopathy and allopathic medicine; Western medicine, mainstream medicine, orthodox medicine, and regular medicine; and biomedicine.



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PEDIATRIC USE Safety and Efficacy of (Your drug name here) has not been established.

### FACTS DO NOT CEASE TO EXIST BECAUSE THEY ARE IGNORED.

Aldous Huxley

**Ethical Constructs** 

Technology

Number of Age Groups

**Regulatory Constraints** 

Financial Disincentives Small Populations Formulations Extended Liability

Lack of Political Will

#### Lack of Infrastructure

Pediatric Pharmacologists Pediatric Clinical Research Units Pediatric Ambulatory Research Networks Pediatric Expertise on IRB's

#### Lack of Baseline Information

Frequency of Disease Treatment of Choice Drugs of Choice of Disease States

- **n** Drugs that were not:
  - n Antibiotics
  - Allergy/Cough/Cold Medication
  - Asthma Medication
  - n Vaccines
- n Were not studied in pediatric patients

- Huge Improvements in Chronic Diseases Seizures
- n Asthma
- n Cystic Fibrosis
- n Leukemia
- n H. Influenza Meningitis/Epiglottis

#### n Seizures:

n Two drug choices

n One made you dumbn The other made you ugly

#### n Asthma:

- <sup>n</sup> 3 Shots of Epi followed by Suspherine®
- Theophylline: Never sure if it would make you stop wheezing before it would make you sieze.
- The quality of life improvement with inhaled steroids and leukotriene inhibitors is hard to ignore

n Cystic Fibrosis:

- **n** Why the longer survival time:
  - Increase emphasis on nutrition?
  - The Vest?
  - The inhaled antibiotics?
  - n Understanding enzyme replacement?

#### n Leukemia

- The most obvious case for rational therapeutics.
- Because virtually every pediatric patient with leukemia is enrolled in a clinical trial, the survival rate has skyrocketed

#### n H. Influenza Meningits/Epiglotitis

**n** Sometimes what is not there is the hardest to see.

- Effective vaccine introduced in 1988
- H. Influenza Meningitis/Epiglotitis are now mostly historical disease in the United States.

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Stopping by Woods on a Snowy Evening by Robert Frost

Whose woods these are I think I know. His house is in the village, though; He will not see me stopping here To watch his woods fill up with snow.

My little horse must think it queer To stop without a farmhouse near Between the woods and frozen lake The darkest evening of the year.

He gives his harness bells a shake To ask if there is some mistake. The only other sound's the sweep Of easy wind and downy flake. The woods are lovely, dark and deep, But I have promises to keep, And miles to go before I sleep, And miles to go before I sleep.

#### Thank you for your attention.

#### Questions???