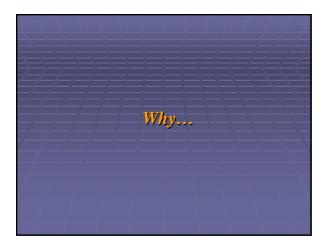


And so, inevitably-

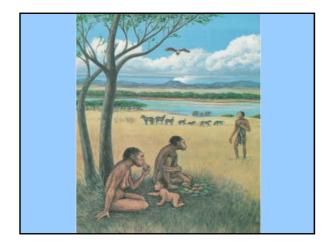
 Prospective Studies Collaboration. Bodymass index and cause-specific mortality in 900 000 adults: collaborative analyses of 57 prospective studies. *Lancet*. 2009 Mar 17. [Epub ahead of print]



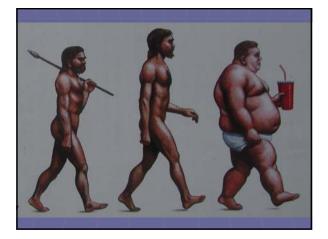
...are we 'eating ourselves to death" !?!

BECAUSE WE CAN!

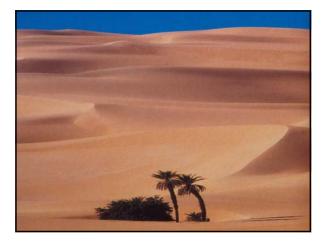
The nature of our trouble, the trouble in our nature...

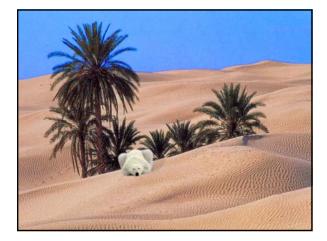














Read the Writing on the Wall-

The New Hork Eimes

- November 12, 2008
- Child Obesity Seen as Warning of Heart Disease
 By PAM BELLUCK
- NEW ORLEANS A new study finds striking evidence that children who are obese or have high <u>cholesterol</u> show early warning signs of heart disease.

<u>Realize</u> that there is **Lifestyle...** and everything else

- McGinnis JM, Foege WH. Actual causes of death in the United States. JAMA. 1993;270:2207-12
- Mokdad AH, Marks JS, Stroup DF, Gerberding JL, Actua causes of death in the United States, 2000, JAMA. 2004;291:1238-45

Recognize the actual causes of causes...

- of both troubles, and cures-
 - Strong K, Mathers C, Leeder S, Beaglehole R. Preventin chronic diseases: how many lives can we save? Lancet. 2005 Oct 29-Nov 4:366(9496):1578-82
 - Epping-Jordan JE, Galea G, Tukuitonga C, Beaglehole R. Preventing chronic diseases: taking stepwise action. Lancet. 2005 Nov 5:366(9497):1667-71

Respect what lifestyle can do...

- 80% reduction in heart disease
- 90% reduction in diabetes
- 60% reduction in cancer
 - and so on...

And renounce-

Superfluous complexity...

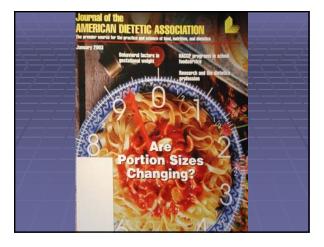


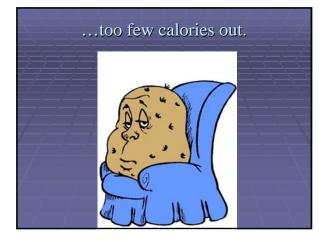
Causes of Obesity & Chronic Disease? **Complex** Simplicity...

- energy imbalance: calories in, calories out!
 basal metabolism
 postprandial thermogenesis
 physical activity
- genetic factors
- metabolic syn
 Ob gene
 - hearonomionar reginanton (e.g., neuropeptide 1: amponecum, P11, §
 basal metabolic rate (Pima Indians)
 FTO polymorphisms
- Hypertrophic vs. hyperplastic obesity metabolic set-point

Too many calories in...

- 3900 calories produced in US each day for every man, woman, and child (<u>www.usda.gov</u>); something has to be done with them all!
- Nielsen SJ, Popkin BM. Pattern and Trends in Food Portion Sizes, 1977-1998. JAMA. 2003;289:450-453







Or, in other words:

"Eat food, not too much, mostly plants*." Michael Pollan

in case confirmation were required, we just got it:

 Sinha R et al. Meat Intake and Mortality. A prospective study of over half a million people. Arch Intern Med. 2009;169(6):562-571











So it should be clear where "there" is.

But it may seem...



The falsely alluring alternatives to eating well... Pharmacotherapeutic Phantasies & Cold Hard Steel-• EU suspends sales of rimonabant: 10/24/08

- Tesofensine shows promise, but...
 Astrup A, Madsbad S, Breum L, Jensen TJ, Kroustrup JP, Larsen TM. Effect of tesofensine on bodyweight loss, body composition, and quality of life in obese patients: a randomised, double-blind, placebo-controlled trial. Lancet, 2008 Oct 22, [Epub ahead of print]
- Obesity Surgery Increases by 600 Percent

- Beware our Birthmark...
- Like Hawthorne's hapless heroine, we a are marked from birth
 - Katz DL. The Scarlet Burger. Wall Street Journal, Op-Ed. 11/19/03

Gene "complex"... no kidding!

 Emilsson V et al. Genetics of gene expression and its effect on disease. Nature. 2008 Mar 16; [Epub ahead of print] PMID: 18344981





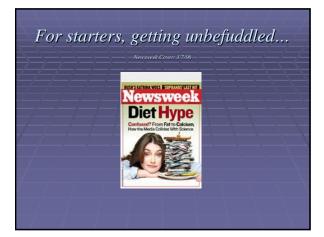


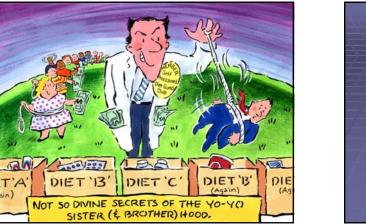


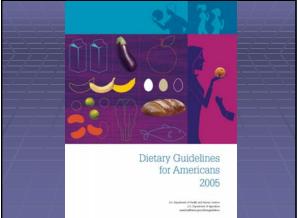


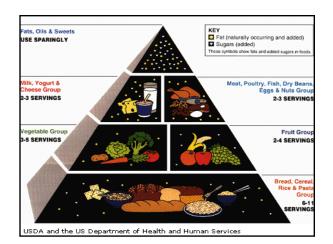




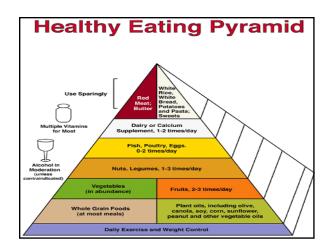


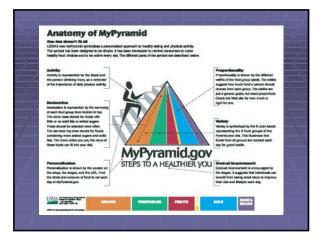


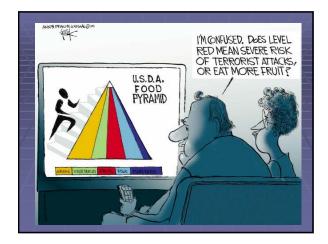


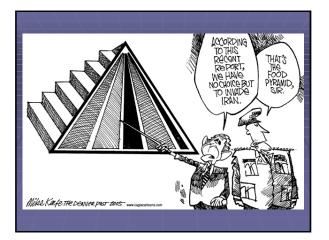


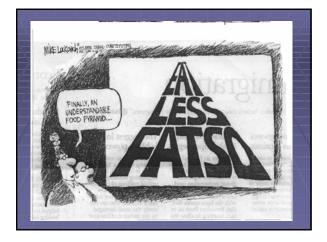
ain)

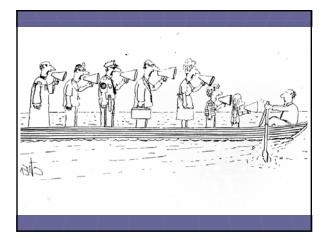












Recipe for Reconciliations:

A dash of dietary Darwinism...

- Eaton SB, et al. Evolutionary Health Promotion. Prev Med. 2002;34:109-118
- Eaton SB, Eaton SB III, Konner MJ. Paleolithic nutrition revisited: A twelve-year retrospective on its nature and implications. *Eur J Clin Nutr.* 1997;51:207-216

Along with a dash of...

...DASH, a pat of PREMIER, a pinch of the DPP, & a smidgen of the NWCR

- Sacks FM et al. N Engl J Med 2001;344:3-10
 Waiting Group, JAMA 2003;289:2083-95
 Knowler WC et al. N Engl J Med 2002;346:393-403
 Wing RR, Hill JO. Annu Rev Nutr. 2001

So perhaps it's time to stop parsing...

- Hit me in the head if you don't agree we should:

 - me in the nead if you don't agree w Reduce stars fat Reduce softim Increase fruits and vegetables Increase whole grains Reduce refined starches and simple sugars Replace "bad" fats with "good"

What food could do...

- 80% reduction in heart disease
- 90% reduction in diabetes
- 60% reduction in cancer
- and so on...

Empowering people means teaching them... things they <u>never knew</u> they never knew-









Reinventing the food label...

• For dummies.

• Katz DL. Op-Ed, the Hartford Courant, 10/02

What?... FDA or IOM would have done:

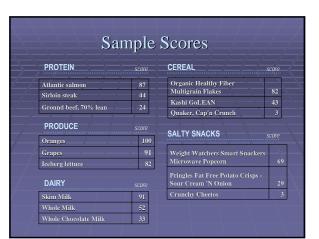
- July, 2003
- Feb, 2006: If you want something done... and the rest is history...

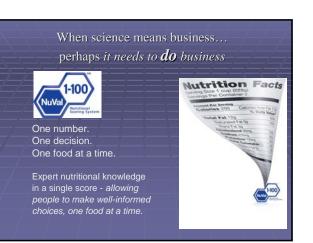
ONQI Scientific Expert/Development Panel

- Dr Keith Ayoob, Albert Einstein College of Medicine Dr Leonard Epstein, University of Buffalo; inventor, Traffic Light Diet Dr David Jenkins, University of Toronto; inventor, Glycemic Index Dr Fancine Kaufman, USC; Past President, American Diabetes Association Dr Robert Kushner, Northwestern University Dr Ronald Prior, Arkansas Children's Nutrition Center, USDA HNRC Dr Bebecea Reeves, Past President, American Dietetic Association Dr Barbara Rolls, Pennsylvania State University Dr Sachiko St. Jeor, University Of Nevada Dr John Seffrin, President & CEO, American Cancer Society Dr Walter Willett, Harvard University

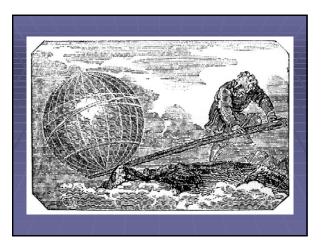
The ONQI Algorithm-		
Fiber Folate Vitamin A Vitamin D Vitamin D Vitamin B12 Vitamin B6 Potassium Calcium Zinc Calcium Total arotenoids Magnesium Iron	Saturated fat Trans fat Sodium Sugar Cholesterol	•Universal Adjustors Fat quality Protein quality Glycemic load Energy density •Trajectory Scores •Weighting Coefficients

ONQI formula				
Something like:				
(1+UA1)×(1+UA2)×(1+ WP1×WS1×WR1×(adjustedTS1)+ WR16×(adjustedTS16))	+WP16× WS16×			
GL×ED×(1+WP1×WS1×WR1×(adjustedTS1)+ +WP5×WS5×V	VR5×(adjustedTS5))			
Variables in Formula				
 TS = trajectory score Wp = weighting coefficient, prevalence 				
 Wr= weighting coefficient, relative impact UA1= adjuster for biological quality of fat 				
 UA1= adjuster for biological quality of rat UA2= adjustor for biological quality of protein 				
 GL= glycemic load adjuster Adjusted= pertinent mathematical transformations 				
- Adjusted-perment mathematical transformations				





Initial Jaunch in supermarkets & on web: October, 2008 Initial Jaunch in supermarkets & on web: October, 2008 Lead market taunch: Price Chopper, Hyvee wawamarketom Ramp up: 2009 Unto 15 committed retailers, nepresenting -5 000 stores Paulking contact who are of up of 25 retailor Hall so grant with observe of the retailers in US and Canada, representing thousands of additional stores Book scrites planned; Hachette Publishing Malptations for total dietary scorej Otal diaptations for total dietary scorej Organization at latored to particular dietary needs and preferences, e.g., weight management, etc. Organization tailored to particular dietary needs and preferences, e.g., vegetarian, gluten-free, autored to particular dietary needs and preferences, e.g., vegetarian, gluten-free, autored to particular dietary needs and preferences, e.g., vegetarian, gluten-free, autored to particular dietary needs and preferences, e.g., vegetarian, gluten-free, autored to particular dietary needs and preferences, e.g., vegetarian, gluten-free, autored to particular dietary needs and preferences, e.g., vegetarian, gluten-free, autored to particular dietary needs and preferences, e.g., vegetarian, gluten-free, autored to particular dietary needs and preferences, e.g., vegetarian, gluten-free, autored to particular dietary needs and preferences, e.g., vegetarian, gluten-free, autored to particular dietary needs and preferences, e.g., vegetarian, gluten-free, autored to particular dietary needs and preferences, e.g., vegetarian, gluten-free, autored to particular dietary needs and preferences, e.g., vegetarian, gluten-free, autored to particular dietary needs and preferences, e.g., vegetarian, gluten-free, autored to particular dietary needs and preferences, e.g., vegetarian, gluten-free, autored to particular dietary needs and preferences, e.g., vegetarian, gluten-fre





If health is not its own incentive-

then incentivize health:

Let's eat out! Virtually good dining...

www.healthydiningfinder.com

Avoiding (gastric) Bypassby Resolving an Impasse.

• 0-W-C-H; this won't hurt a bit...

 On-line Weight Counseling instruction for Healthcare Providers; National Obesity Action Forum, Washington, DC; 6/06
 Katz DL. Behavior Modification in Primary Care: the Pressure System

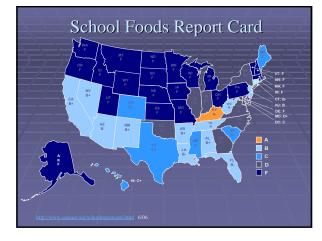
www.owch.us

The Vision-

- On-line training
- CME credits
- Quality control indicators embedded
- Controlled access at first
- Cost-utility analysis
- Trust, verify, disseminate

Be sure that Schools lead, follow, or...

- are ashamed!
 - National School Lunch Program Policie



Of Will, & Ways-

- The WAY Program: <u>http://www.wayplanet.c</u>
- Planet Health
- CATCH
- <u>http://www.sph.uth.tmc.</u>
 WE CAN
- <u>http://www.nhlbi.nih.</u> slow.whos.htm
- Here's to You, Mr. Robinson
- PE41 if
- Take 1(
- http://www.take10.net/

Meanwhile, back at the ranchcommon sense, from the bird's eye view:

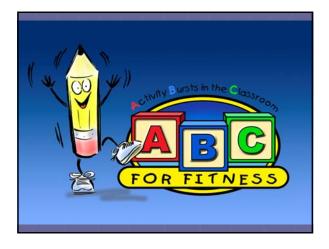
Katz DL. School-Based Interventions for Health Promotion and Weight Control: Not Just Walting on the World to Change. Annu Rev Public Health 2009 Jan 15. [Epub ahead of print]

Katz DL, O'Connell M, Njike VY, Yeh MC, Nawaz H. Strategies for the prevention and control of obesity in the school setting: systematic review and meta-analysis. *Int J Obes* (Lond). 2008 Dec;32(12):1780-9

No Child Left (*on their*) **Behind**-Square Peg, Round Hole?

As easy as "ABC" for Fitness-

Activity Bursts in the Classroom





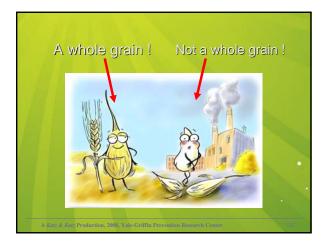


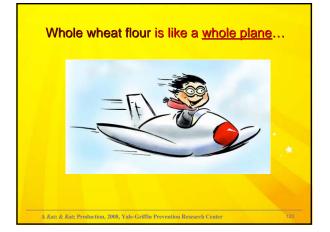










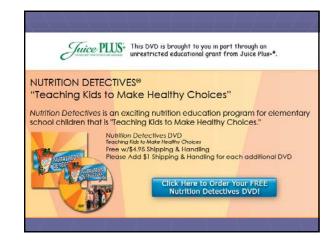


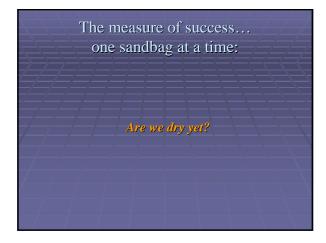








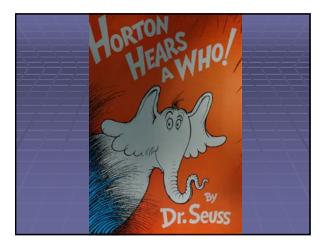






Who should lend a hand-

and stack a bag of sand?



To turn the tide...

- It will take the whole Village
 There is heavy lifting to be done- but in unity, there is strength!
- We have to do what is necess
- We have to do what is right
- Everyone has to be part of the solution... or be part of the problem
- We have to understand the problem, and for that we need to understand ourselves... in native context





