

The following slides are a graphic representation of the material presented in Rep. Seaton's State of Reform 2014 booklet which can be found on-line at:

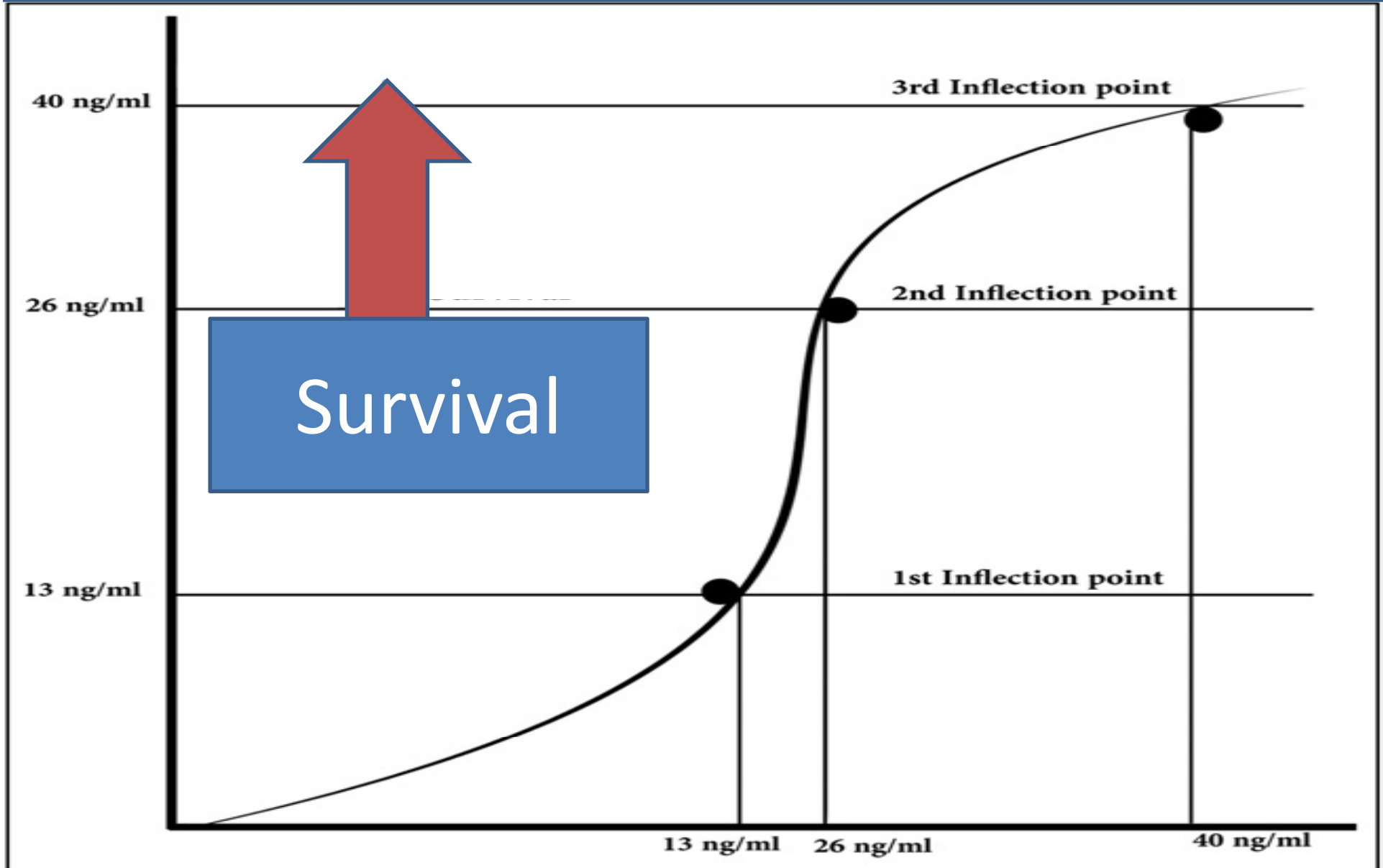
[http://www.housemajority.org/wp-content/uploads/2014/10/State of Reform 2014.pdf](http://www.housemajority.org/wp-content/uploads/2014/10/State_of_Reform_2014.pdf)

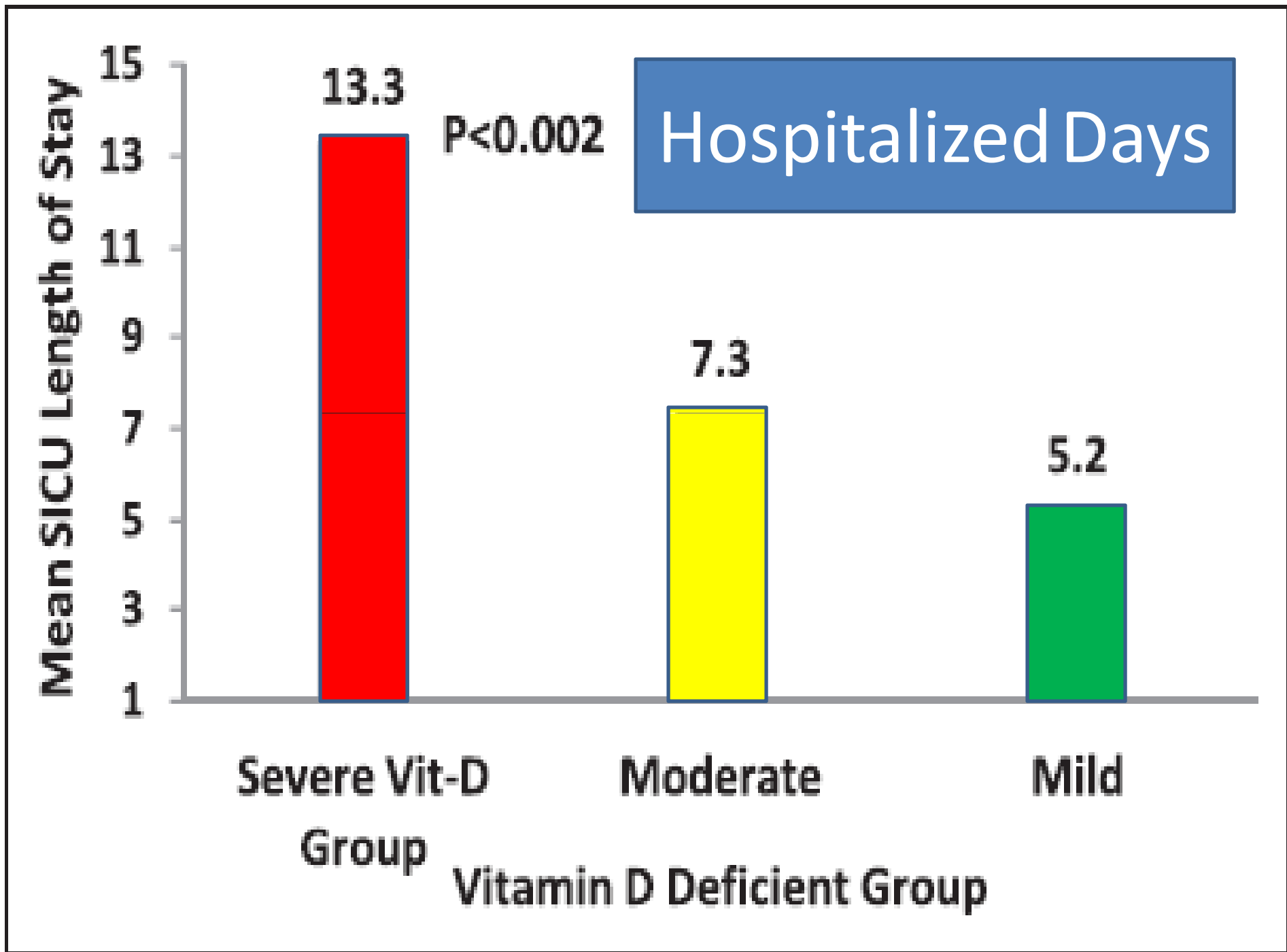
State of Reform 2014

Representative Paul Seaton

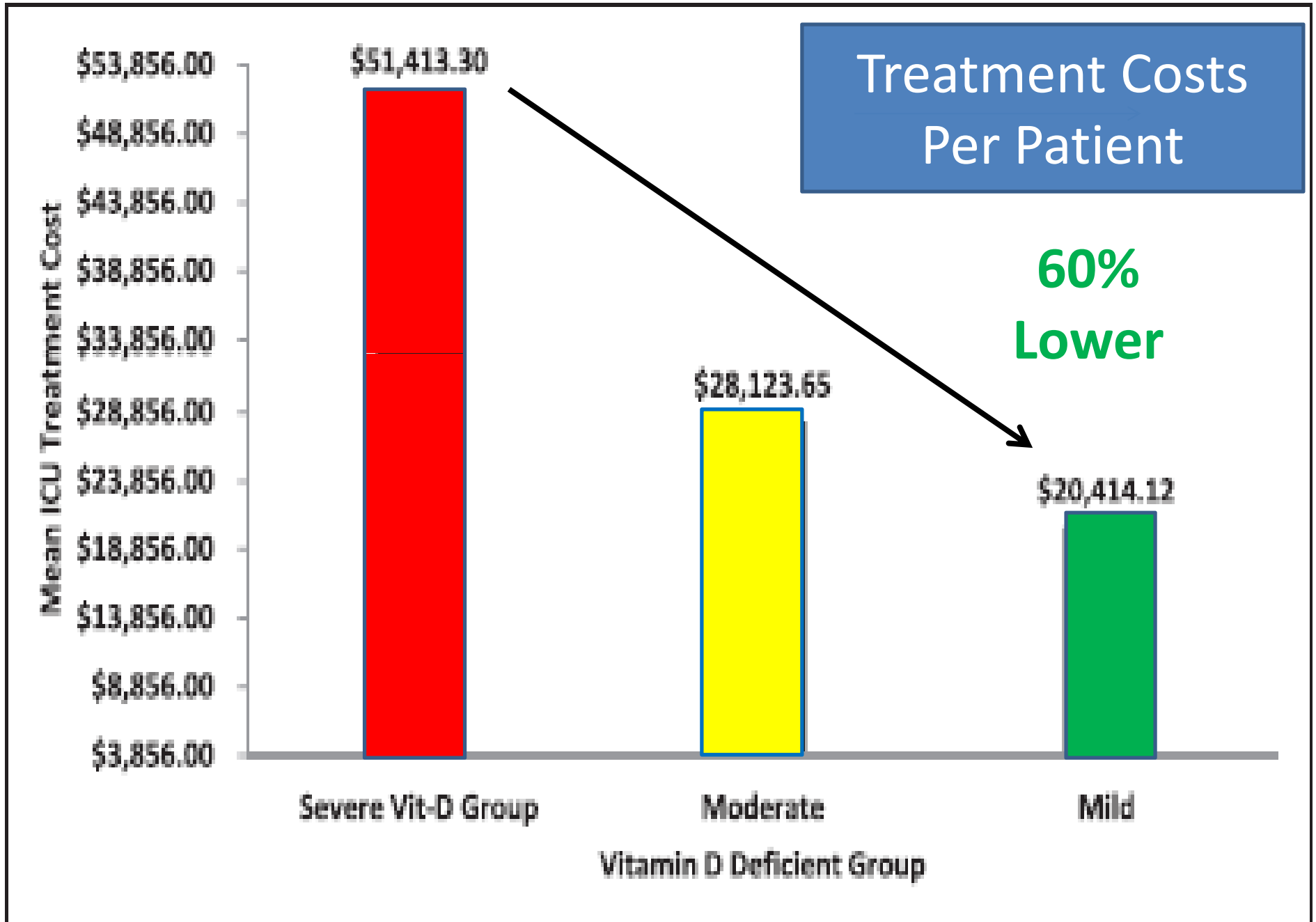
Evidence Based Medicine?

Worsening Severity of Vitamin D Deficiency is Associated with Increased Length of Stay, Surgical Intensive Care Unit Cost, and Mortality Rate in Surgical Intensive Care Unit Patients – *American Journal of Surgery*, Matthews, et. al. 2012



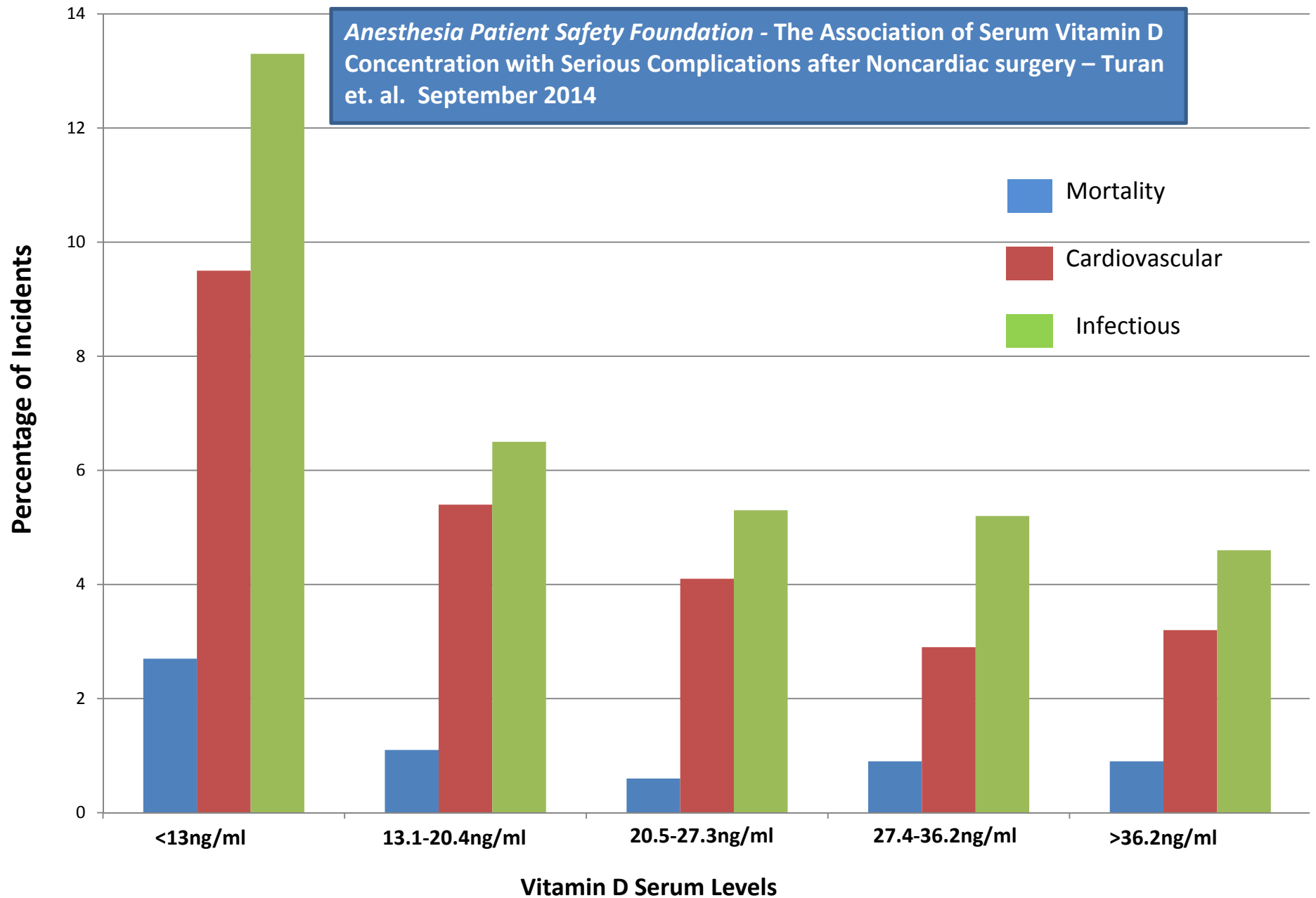


Grady Memorial Hospital Atlanta, Georgia



Incidence of In-Hospital Mortality and Cardiovascular and Infectious Morbidities for 3409 Noncardiac Surgical Patients by Quintiles of Serum Vitamin D Concentrations

Anesthesia Patient Safety Foundation - The Association of Serum Vitamin D Concentration with Serious Complications after Noncardiac surgery – Turan et. al. September 2014



Other Outcomes

Months to first episode of peritonitis with no oral active vitamin D: **5.5**

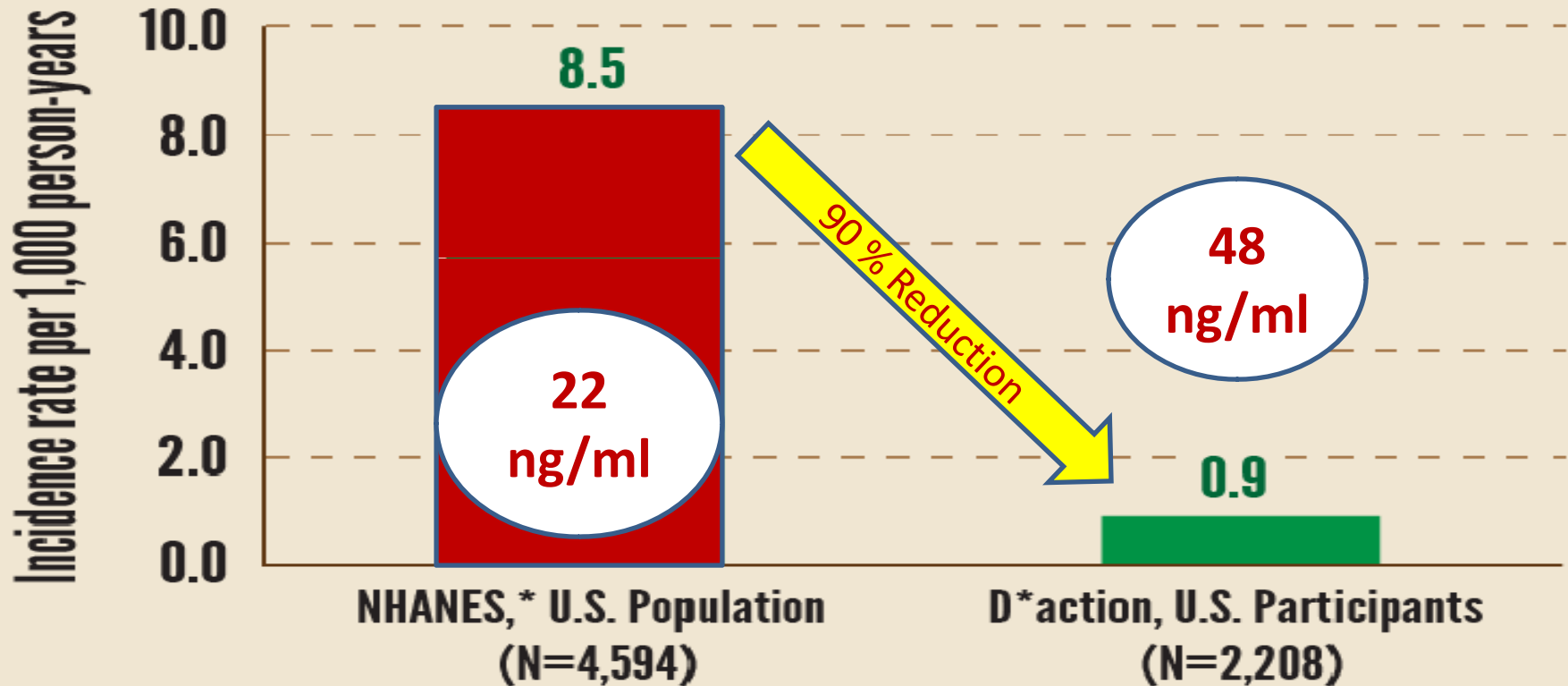
Months to first episode of peritonitis with oral active vitamin D: **16.3**

Episodes of peritonitis per patient-year with no oral active vitamin D: **0.45**

Episodes of peritonitis per patient-year with oral active vitamin D: **0.29**

TYPE 2 DIABETES

Diabetes Incidence:
Comparing NHANES* and D*action (18+ years)



Vitamin **D*action**

 **GrassrootsHealth**
A Public Health Promotion Organization
www.grassrootshealth.net

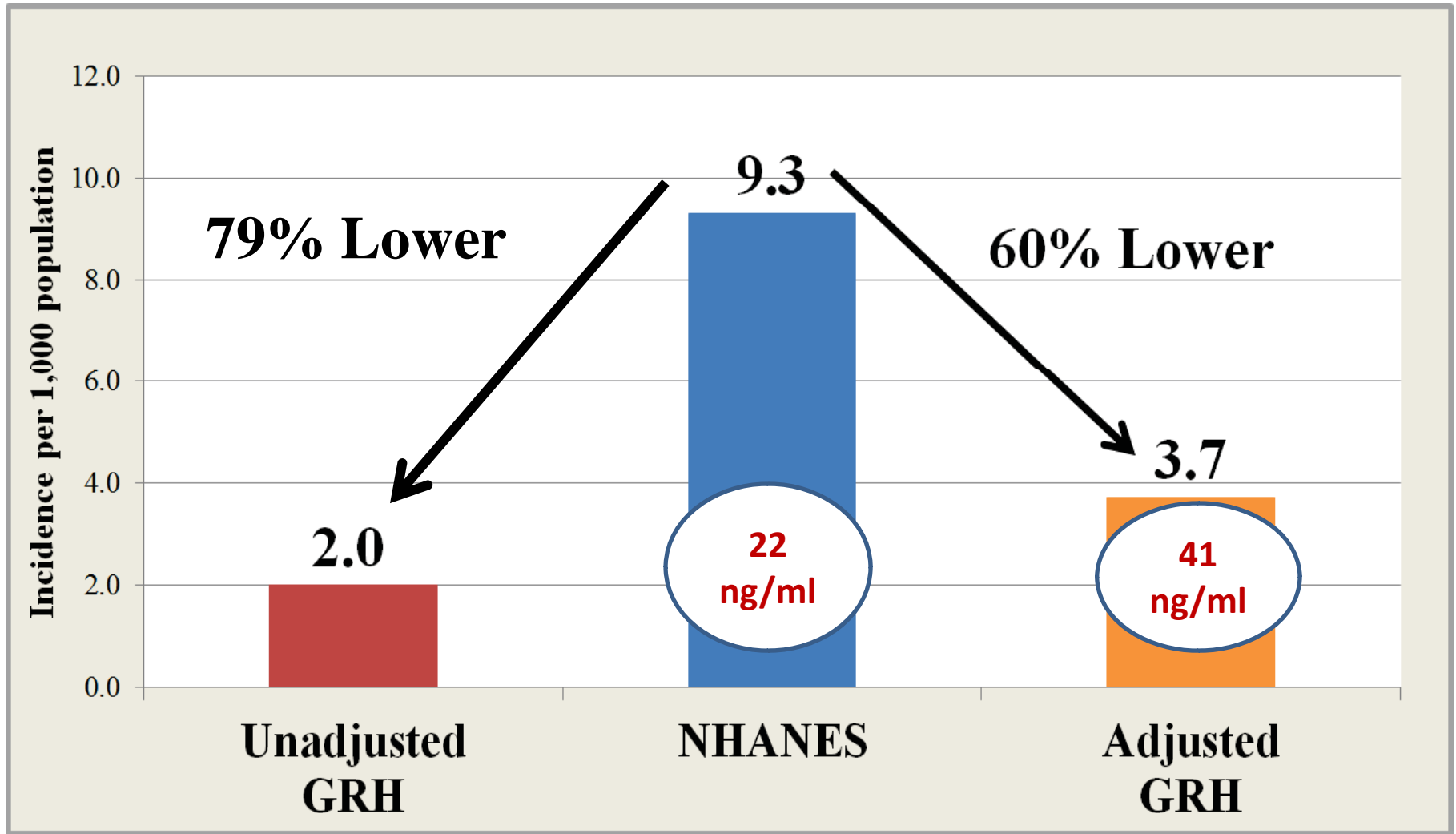
*DATA SOURCE: NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES), 2005-2006

**RATE RATIO = 9.7 (P=0.0002)

Chart Date 8/6/13

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Preliminary data, not yet published.

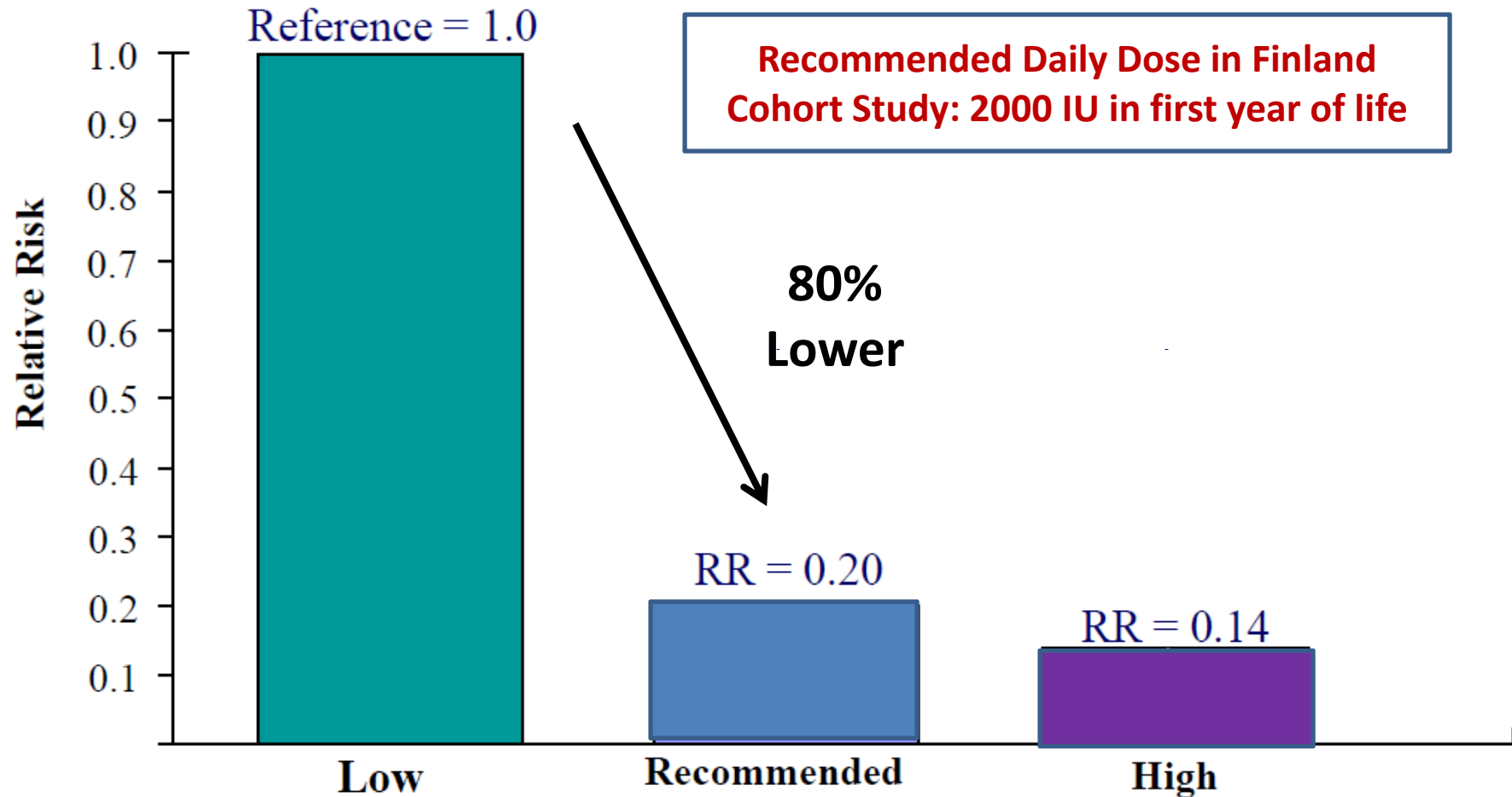
Type 2 Diabetes Incidence in GrassrootsHealth (N=4,933) and NHANES (N=4,078) Cohorts



Median 25 (OH)D concentration in GRH cohort was 41 ng/ml and in NHANES was 22 ng/ml

Data from GrassrootsHealth presentation at the June 2014 International Vitamin D Workshop

Infants' Vitamin D Supplementation Dose and Incidence of Type I Diabetes in Children in Northern Finland

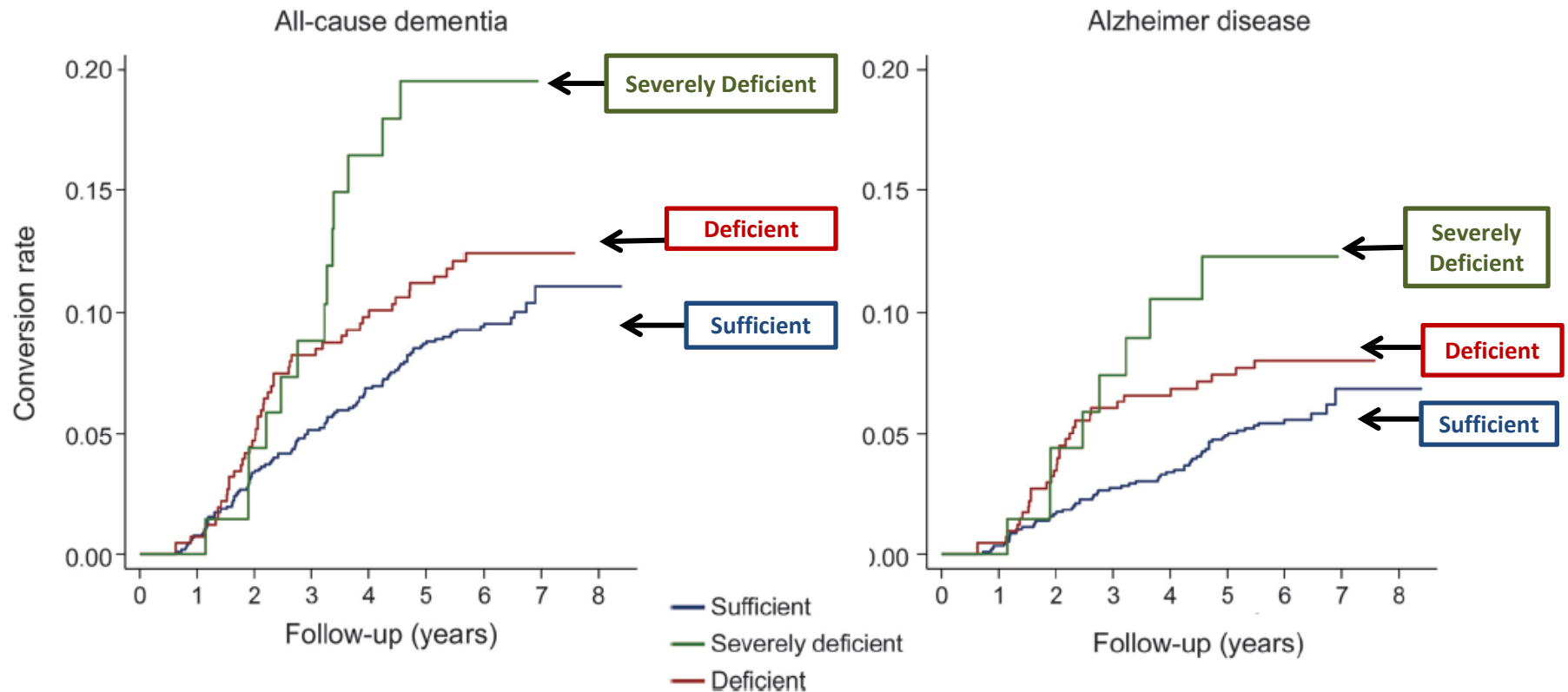


Relative Risk and 95% confidence intervals for diabetes by vitamin D supplementation dose, Birth Cohort study, N=12,055 pregnant women

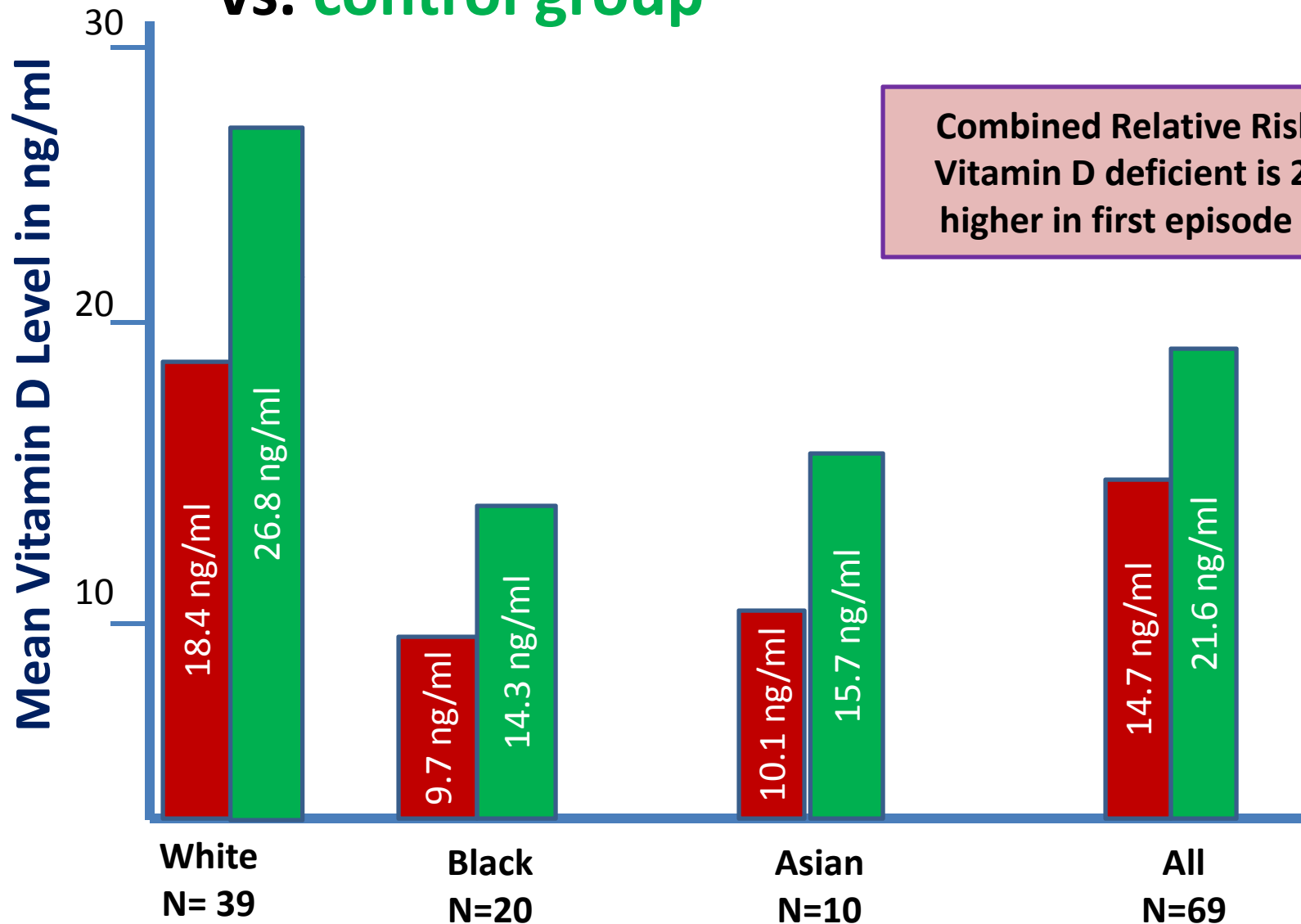
Vitamin D and the risk of dementia and Alzheimer disease

Neurology published online August 6, 2014

Clear Link Found Between Vitamin D Deficiency and Alzheimer's Disease – **Yahoo Health**

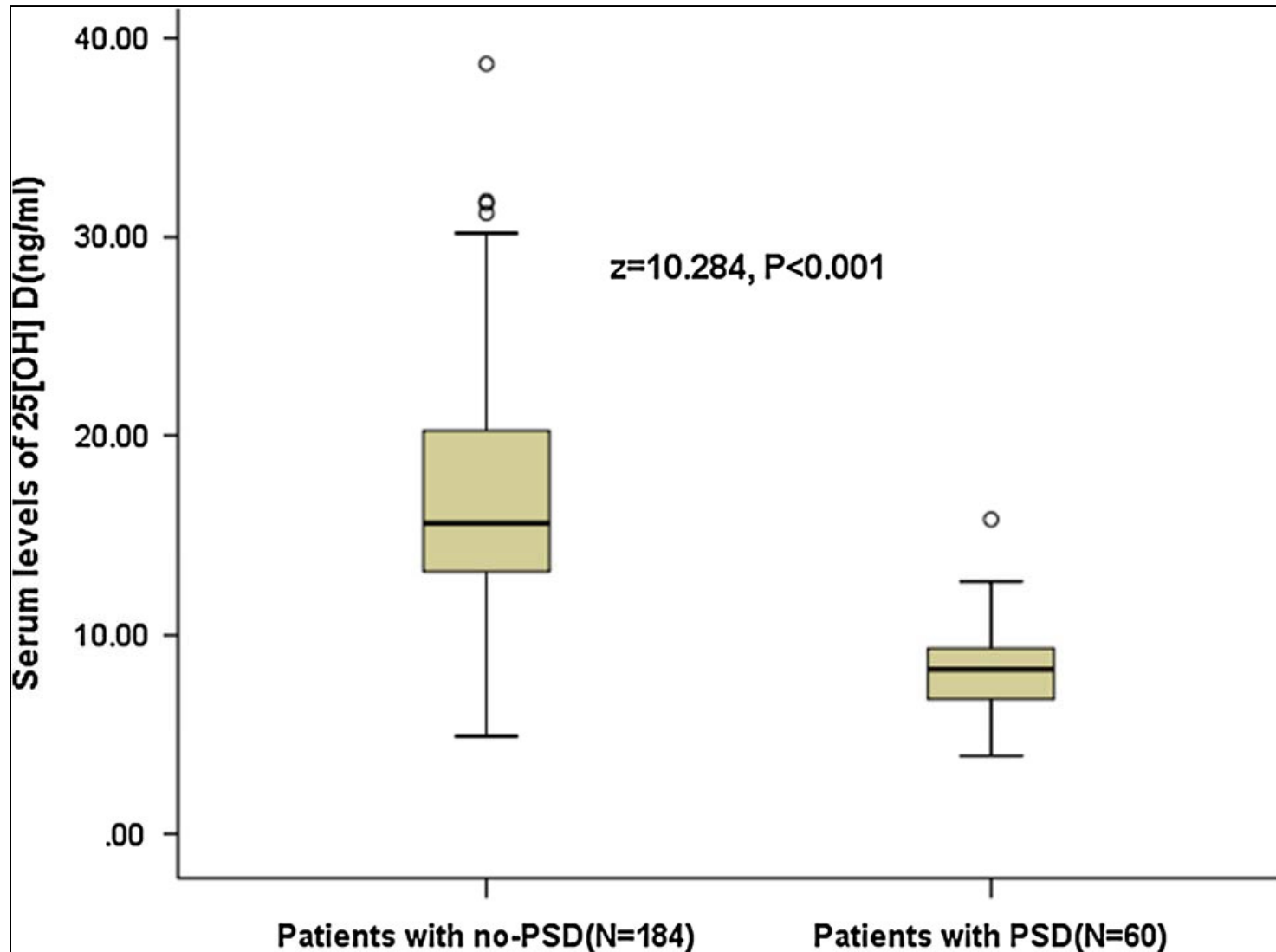


Vitamin D level at **first episode psychosis** vs. **control group**



Combined Relative Risk of being Vitamin D deficient is 2.99 times higher in first episode psychosis

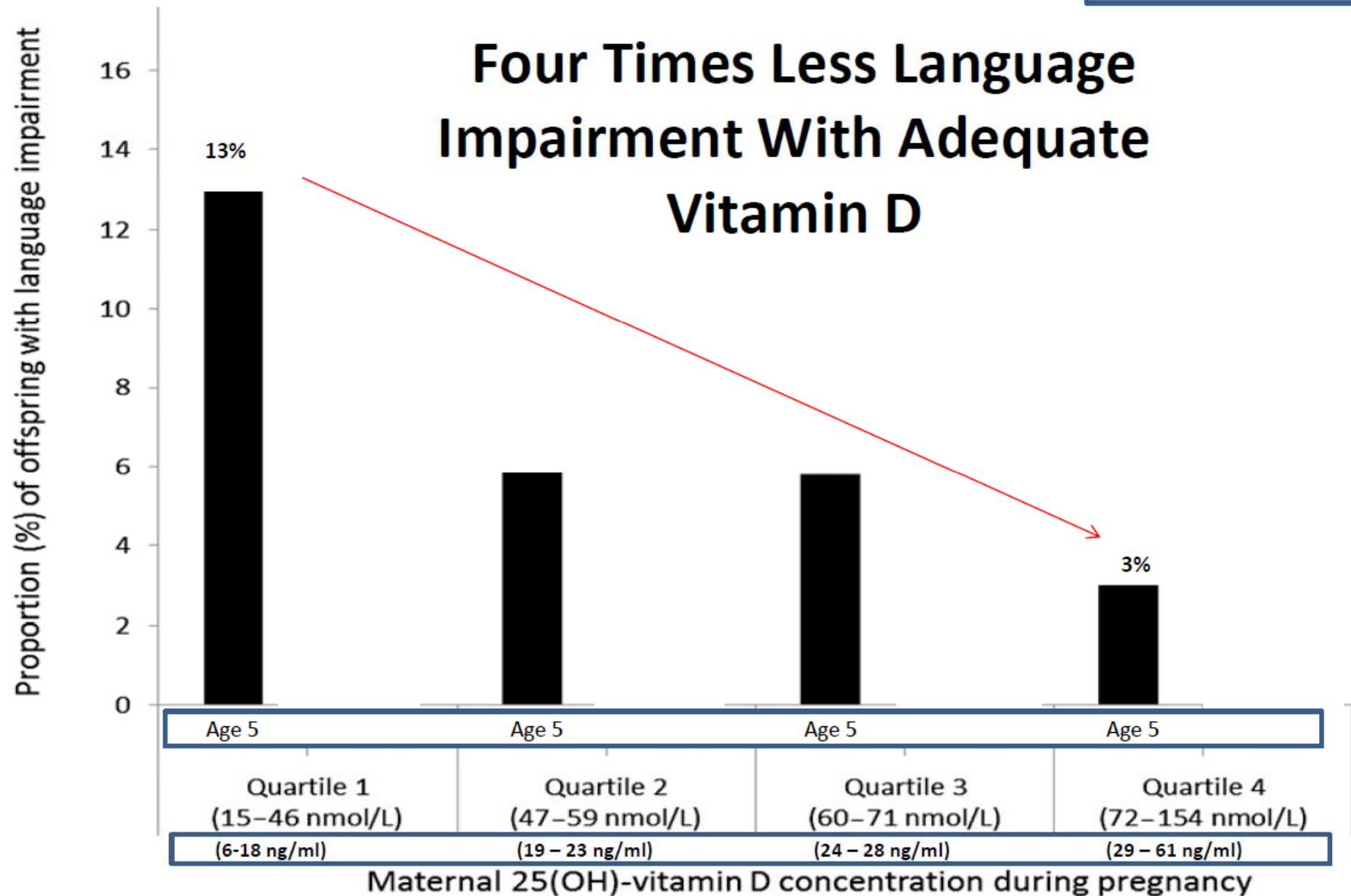
Association of Serum 25-Hydroxyvitamin D with Symptoms of Depression after 6 months in Stroke Patients – *Neurochemical Research*, August 2014, Wei Yue et. al.



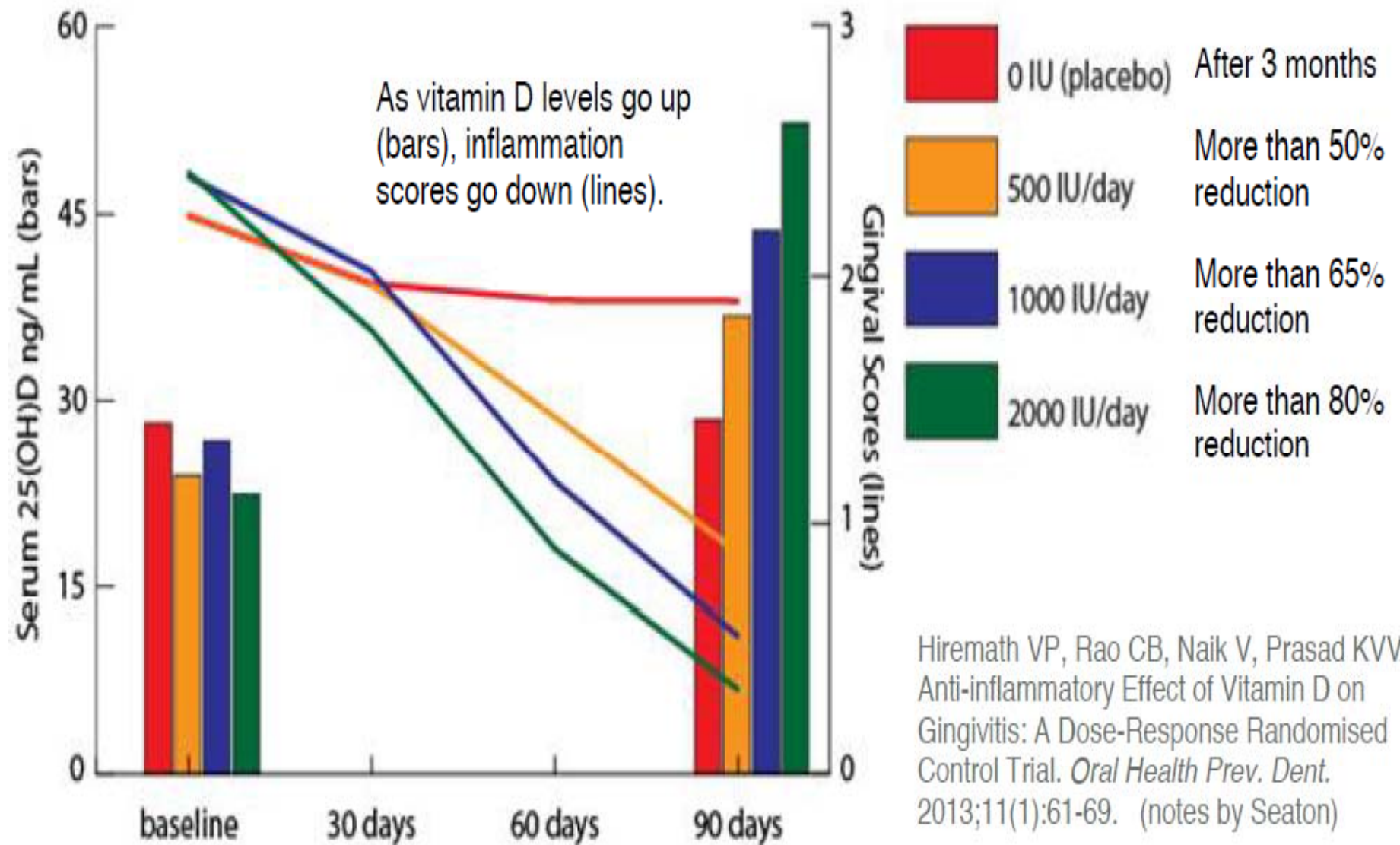
Odds Risk for Post Stroke Depression (PSD) increased by 21.12 times if vitamin D levels were below 11.2 ng/ml and still increased 10.32 times when fully adjusted for all confounders – notes by office of Representative Paul Seaton

Figure 1 data format changed and notes added by Rep. Seaton From Whitehouse, A. (2012) "Maternal Serum Vitamin D Levels during pregnancy and offspring neurocognitive development." *Pediatrics* 485-493

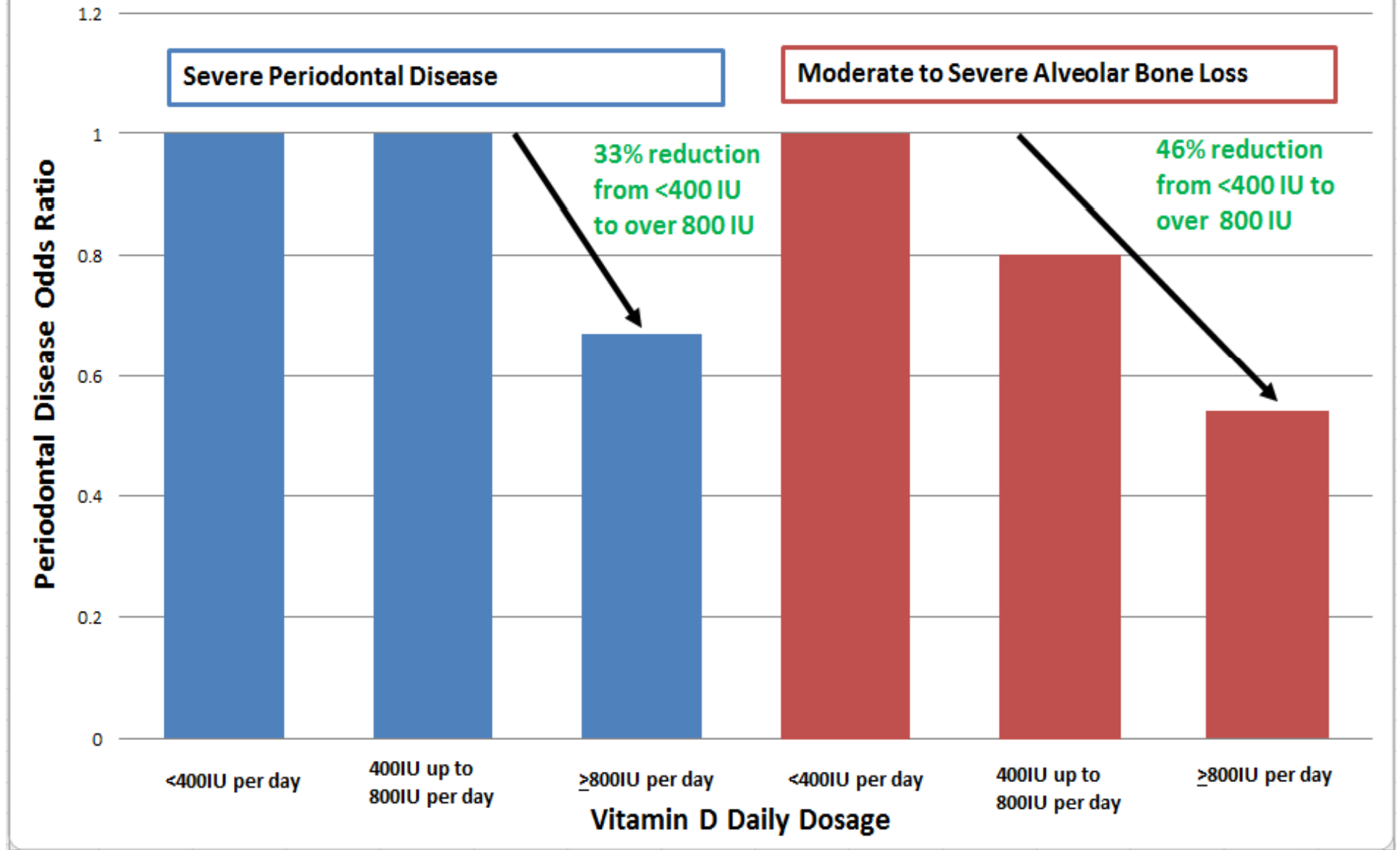
Moderate-Severe



Inflammatory gum disease



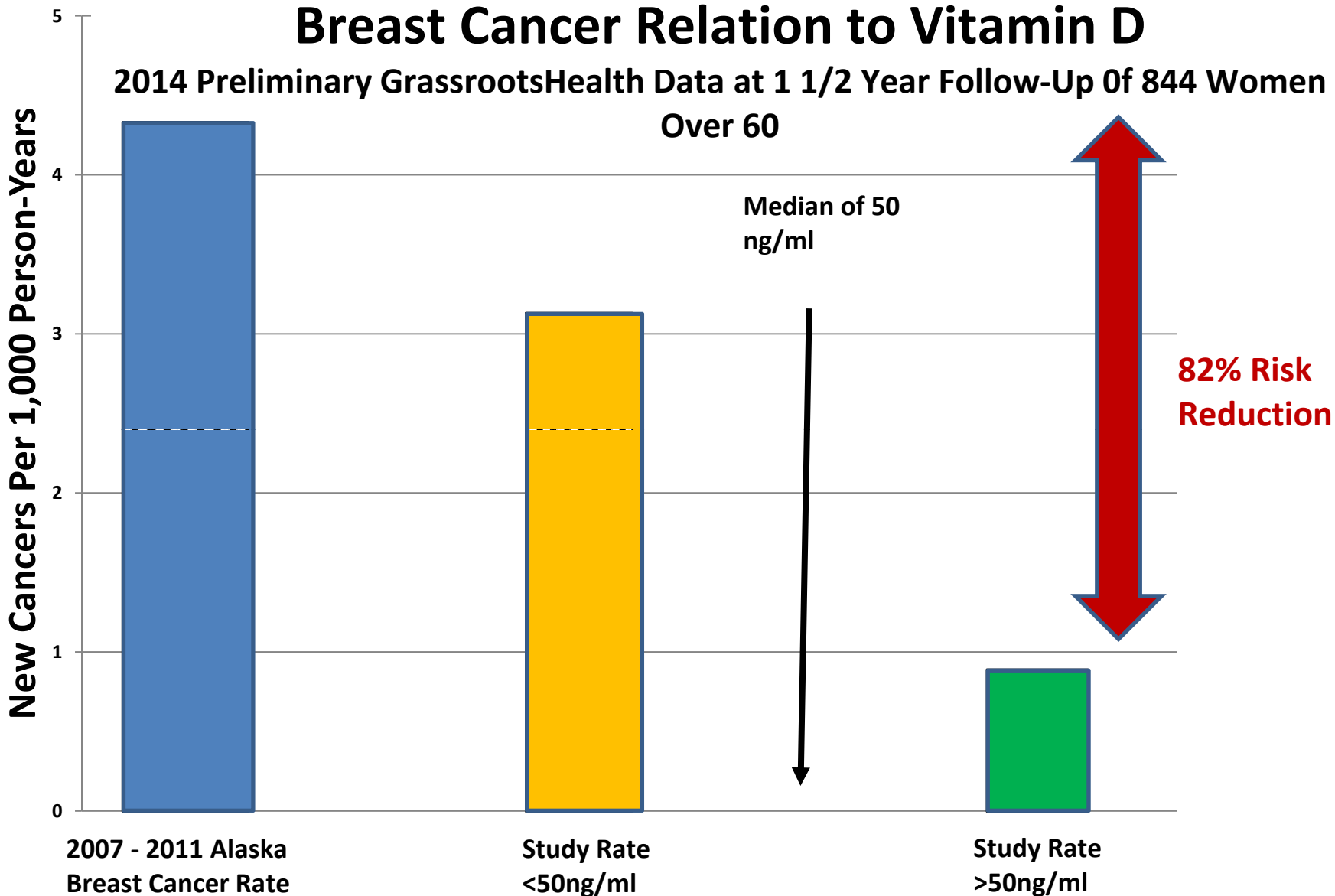
Vitamin D and Periodontal Disease Risk in Older Men



Vitamin D and Periodontal Disease Risk in Older Men, *Journal of Dental Research*, August 2013
Alshoubi et. al.

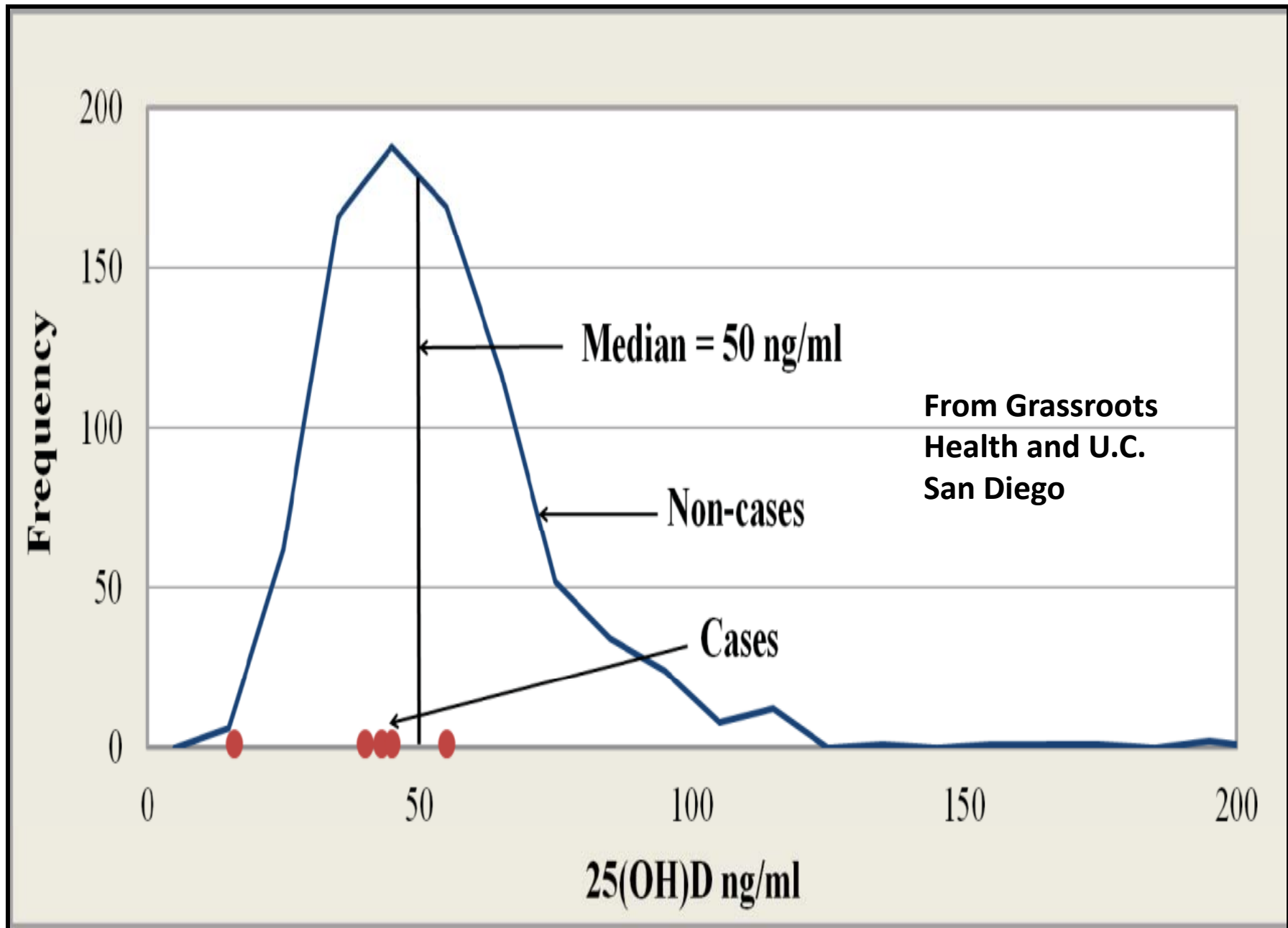
Breast Cancer Relation to Vitamin D

2014 Preliminary GrassrootsHealth Data at 1 1/2 Year Follow-Up Of 844 Women Over 60

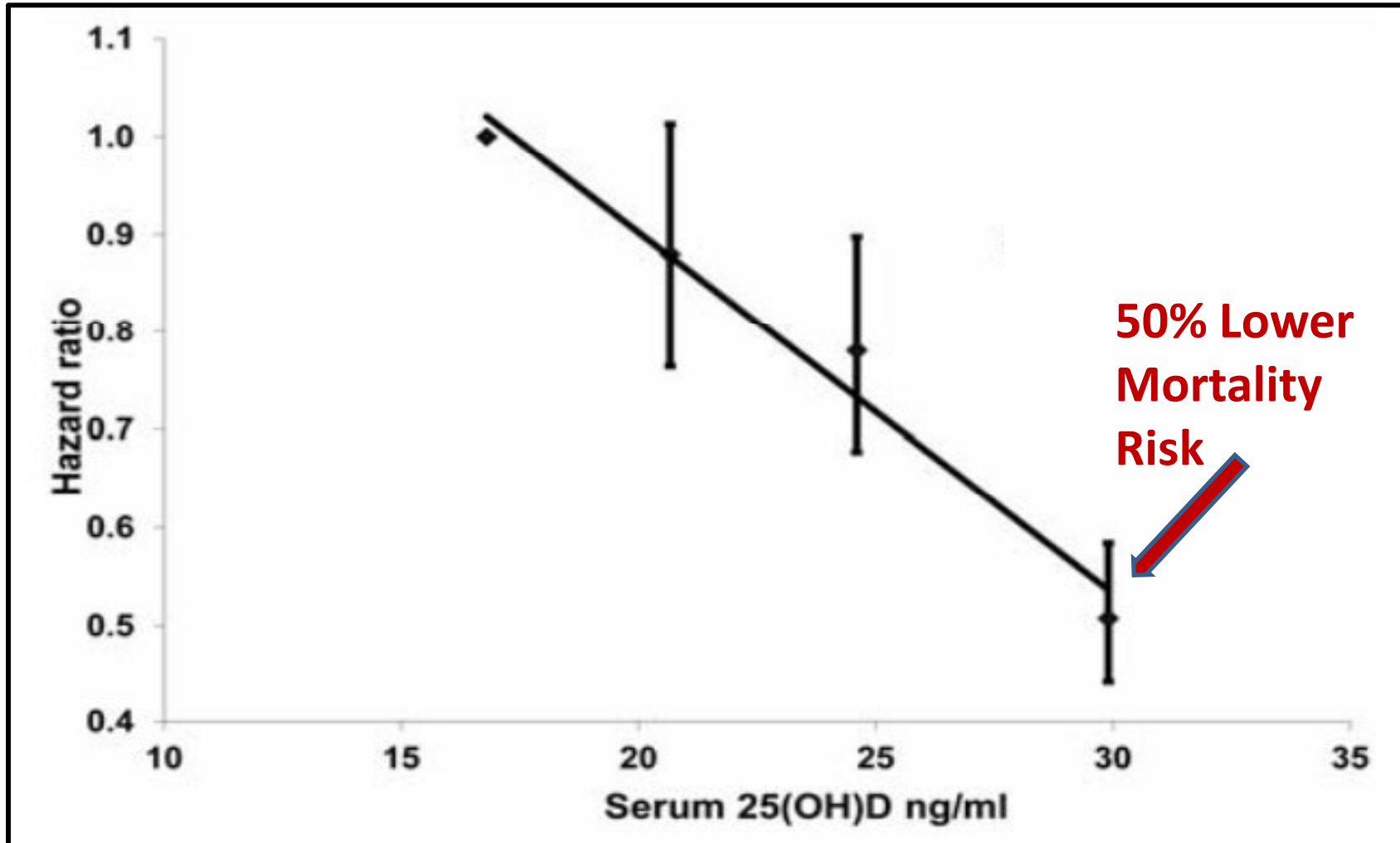


Hazard ratio of breast cancer for those with serum 25(OH)D <50ng/ml was 5.1 times more compared to those with \geq 50ng/ml, adjusting for age and BMI. Chart arranged by the office of Representative Seaton

GrassrootsHealth Prospective Study 2009-2014



2014 Mohr et. al.: 25-Hydroxyvitamin D and Survival in Breast Cancer



Anticancer Research 2014 Mar;34(3):1163-6.

Meta-analysis of vitamin D sufficiency for improving survival of patients with breast cancer.

[Mohr SB](#)¹, [Gorham ED](#), [Kim J](#), [Hofflich H](#), [Garland CF](#).

Relative risk of Upper Respiratory Tract Infections at different vitamin D levels



Low Serum 25 Hydroxyvitamin D level and Risk of Upper Respiratory tract infection in Children and Adolescents
Science et. al. Journal of Clinical Infectious Diseases, August 2013 volume 57.

Slide prepared by the office of Representative Paul Seaton