

## GrassrootsHealth

### Public Health Research IMPLEMENTATION Consortium





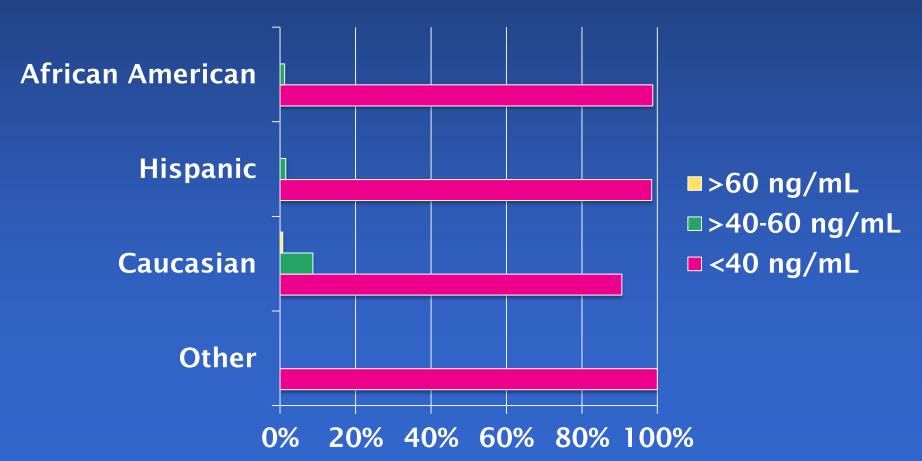


# A sense of URGENCY PROTECT NOW!

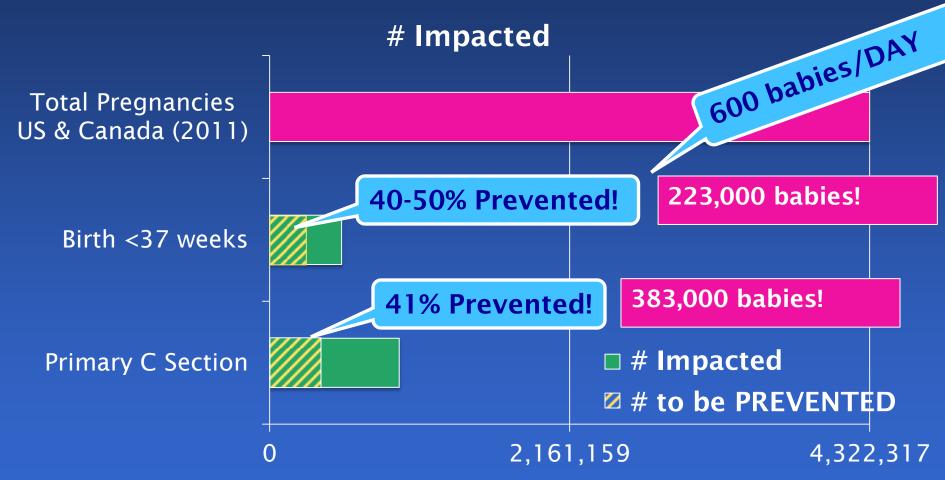


### Baseline 25(OH)D Levels by Race

Vitamin D Status of NICHD Pregnant Women at Baseline



## Rates of Comorbidities and % Reduction with Vitamin D at Average 44 ng/ml



Hollis BW, Wagner CL. Vitamin D & Pregnancy: Skeletal effects, birth outcomes. Calcif Tissue Int. 2012

## Developmental Disorders of Pre-Term Birth that might be PREVENTED

Cerebral palsy (CP)

Mental retardation (MR)

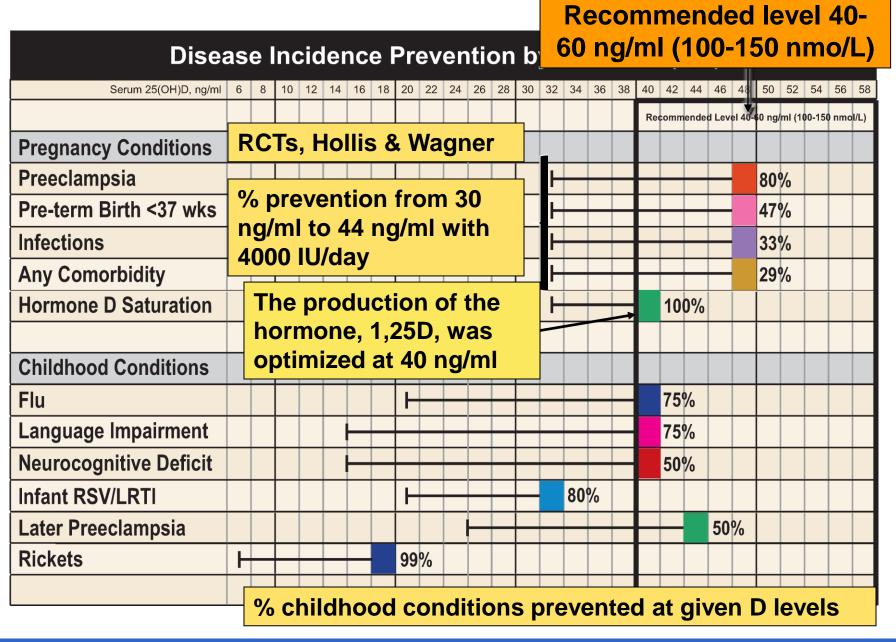
Vision impairment (VI)

Hearing loss (HL)



## **Cost to Society of Pre-Term Births**





## WHERE'S THE action???

Why doesn't 'the' government act?

Why don't institutions act?

What needs to happen?









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### **Scientists**

Moving Research into Practice

Design through Implementation





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### Results

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#### **Choose Science that is**

- Demonstrable
- **Short Term Results**
- **High Impact** 
  - Pregnancy
  - Children
  - **Older Adults**





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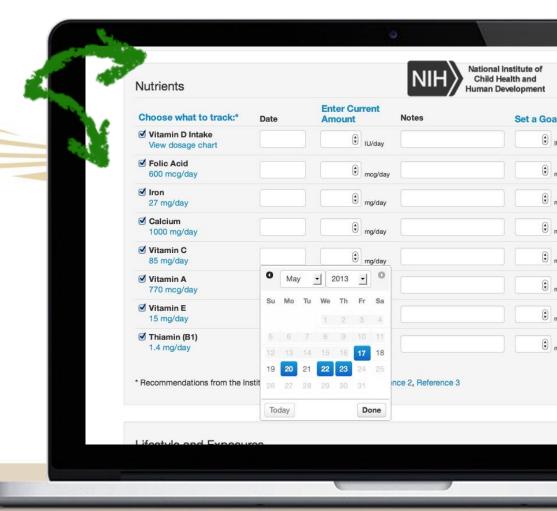
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Track health outcomes recommended by credible sources

Develop ONLINE guides for USERS to use to take action with the program



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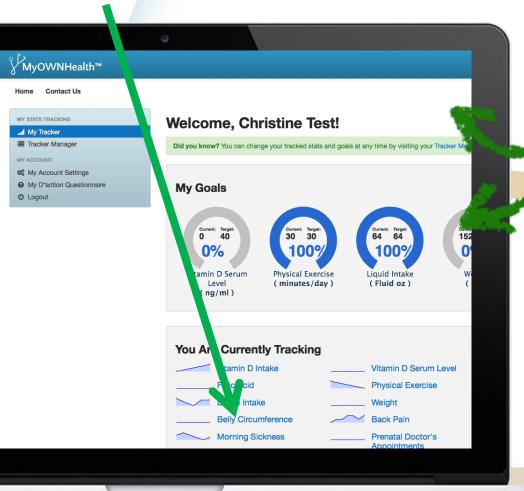
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## **Participation**

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#### **Belly Circumference**



Online system allows individuals to track their OWN health stats and create their OWN, customized wellness programs

## Online enrollment (internet) based



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### Education

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Vitamin D & Policy Creation Webinar Dr. Reinhold Veith



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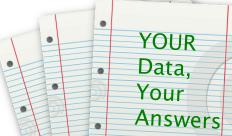
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## **Analysis**

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## YOUR DATA, YOUR ANSWERS Published Papers



- Vitamin D Dose Response; 10,000 IU/day safe
- Kidney Stones not associated with D levels in 20-100 ng/ml (50-250 nmol/L) range
- Quantifying the non-food sources of basal vitamin D input; Quantifying food sources
- Upcoming:
  - Diabetes Prevention with Vitamin D
  - Preterm birth prevention with Vitamin D (with the Protect our Children NOW! project)

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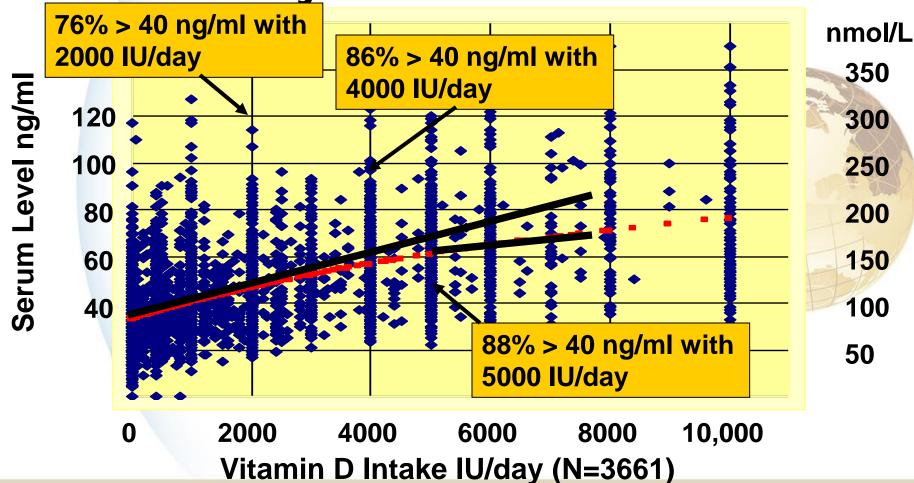
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**D\*action Project: Serum Level vs Intake** 



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## **Breast Cancer Prevention Project**

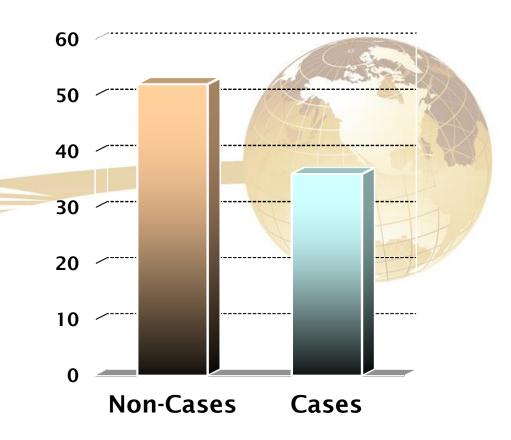
#### 1238 non-cases

> 52 ng/ml (130 nmol/L)

#### 5 cases

> 36 ng/ml (90 nmol/L)

3 years to date (5 year project)





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## **Breast Cancer Prevention Project**

"The findings of our pilot study are enough to inform the medical community that the serum 25(OH)D concentration should be 40-60 ng/ml (100-150 nmol/L) in women of all ages, and that the need is urgent."

Cedric F. Garland, Dr. P.H. Moores Cancer Center

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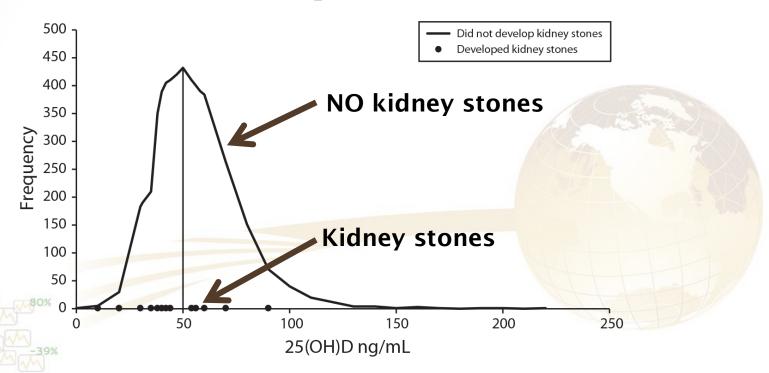
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## **Analysis**

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Note. 25(OH)D = 25-hydroxyvitamin D. Line represents median 25(OH)D serum level of 50 ng/mL among those who did not develop kidney stones. We excluded an outlier of a participant who did not develop a kidney stone (397 ng/mL). A recommendation to consult with a physician was sent to the participant. The sample size was n = 2012.

FIGURE 1—Frequency distribution of 25(OH)D among participants who developed or did not develop kidney stones: GrassrootsHealth cohort, 2009–2012.



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### **Promotion**

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- Press Releases
- Seminars
- Webinars
- Personal visits with major groups and individuals





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## Process thoroughly tested



- Over 40 key scientists enlisted
- > Tested on over 10,000 participants
  - READY to be IMPLEMENTED in a Community Setting

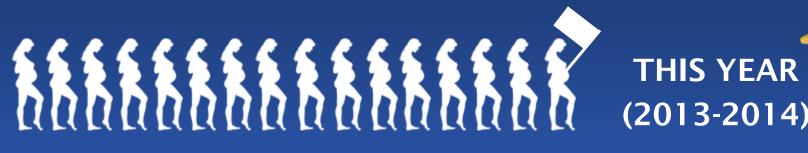
## **Start NOW!**





## **HOW to ACT to** PREVENT PRE-TERM BIRTHS+

With a Community ACTION group of 500+ Pregnant Women



(2013-2014)



Who Will TAKE THE RESULTS and CREATE



**SHARE this** INFO



## **PROJECT Components**

500 pregnant women – a community



## KARAKAKAKAKAKA

- Test, supplement, re-test (3 times) during pregnancy
- Test infant
- Women TRACK their results, share
- PUBLISH RESULTS—25 Potential, \$1.3MM
- Create PUBLIC ACTION NOW

## **Community Steps**

- Scientist
- Politician
- Media
- Signup groups to participate (e.g., community centers, employees of hospital, businesses)
- Meet with private funding groups, individuals to secure local funding
- START!

## SUCCESS!



## Acknowledgments

- Robert P. Heaney, MD, Research Director,
   Co-Investigator
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- Cedric F. Garland, Dr. P.H., Principal Investigator
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