

Vitamin A Deficiency (VAD) among Filipino Preschool Children, Pregnant and Lactating Women: 1993 - 2013

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METHODS

PARTICIPANTS:

- *Preschool children, 6 mos – 5 years*
- *Pregnant women*
- *Lactating mothers*



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ASSESSMENT CRITERIA

Guidelines Used for the Interpretation of Vitamin A Biochemical Data

Level	Serum Retinol ($\mu\text{g/dL}$)	Serum Retinol ($\mu\text{mol/L}$)
Deficient	< 10	< 0.35
Low	10 - 19	0.35 - 0.69
Acceptable	20 - 49	0.70 - 1.74
High	≥ 50	≥ 1.75

(WHO/UNICEF/HKI/IVACG, 1972)



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ASSESSMENT CRITERIA

Prevalence cut-offs to define VAD in a population
and its level of public health significance ¹

Public health importance (degree of severity)	Serum or plasma retinol <20 µg/dL / 0.70 µmol/L in preschool-age children and pregnant women ² (%)
Mild	≥ 2 - <10
Moderate	≥ 10 - < 20 *
Severe	≥ 20

¹ WHO, 2009

² Adopted the WHO, 1996 cut-off for children, 6 – 71 mos as there is no WHO cut-off for pregnant women

* The moderate range includes the minimum prevalence of 15% currently recommended by the Micronutrient Forum/IVACG as the cut-off at or above which VAD should be considered of public health significance among PS children and pregnant women

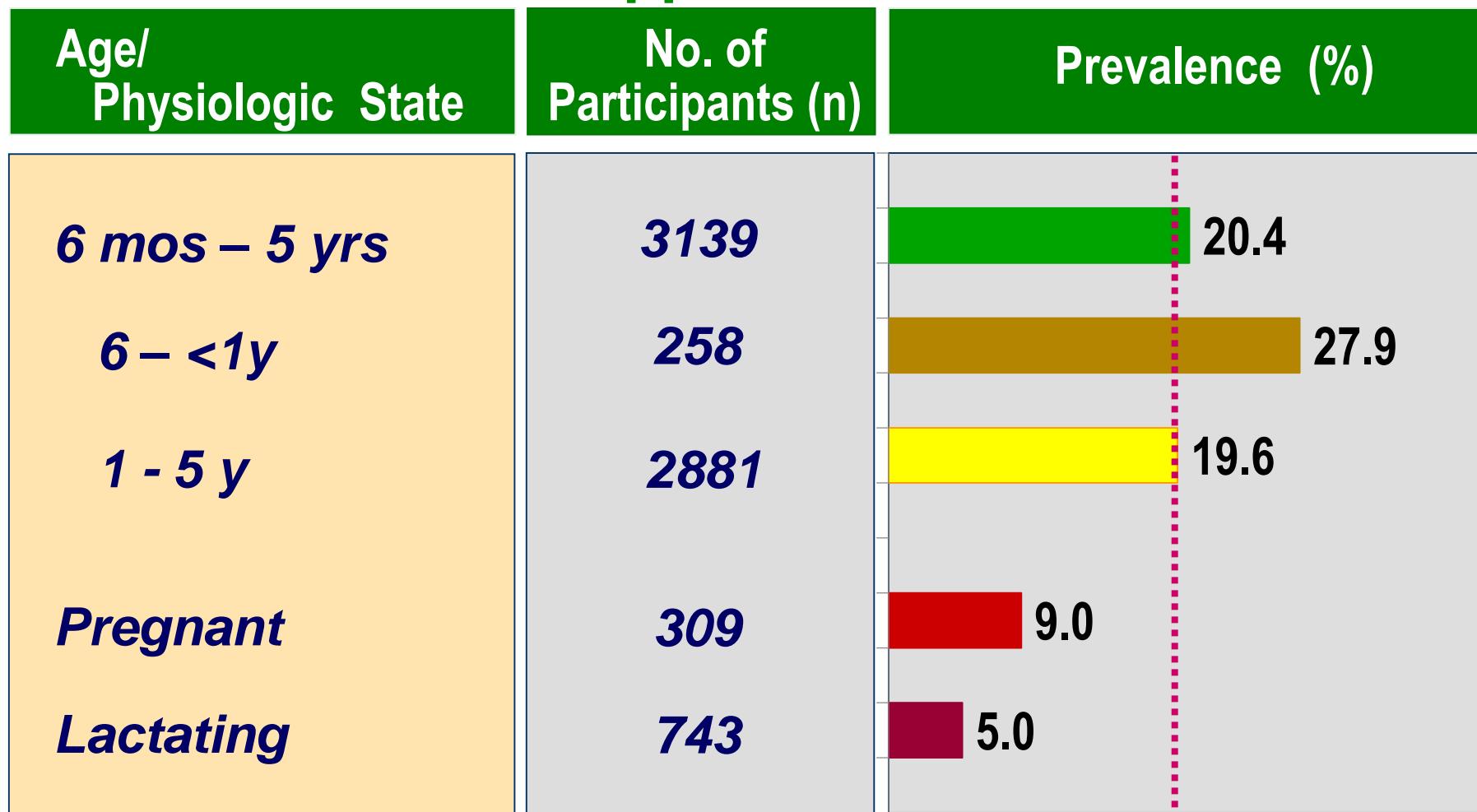
RESULTS



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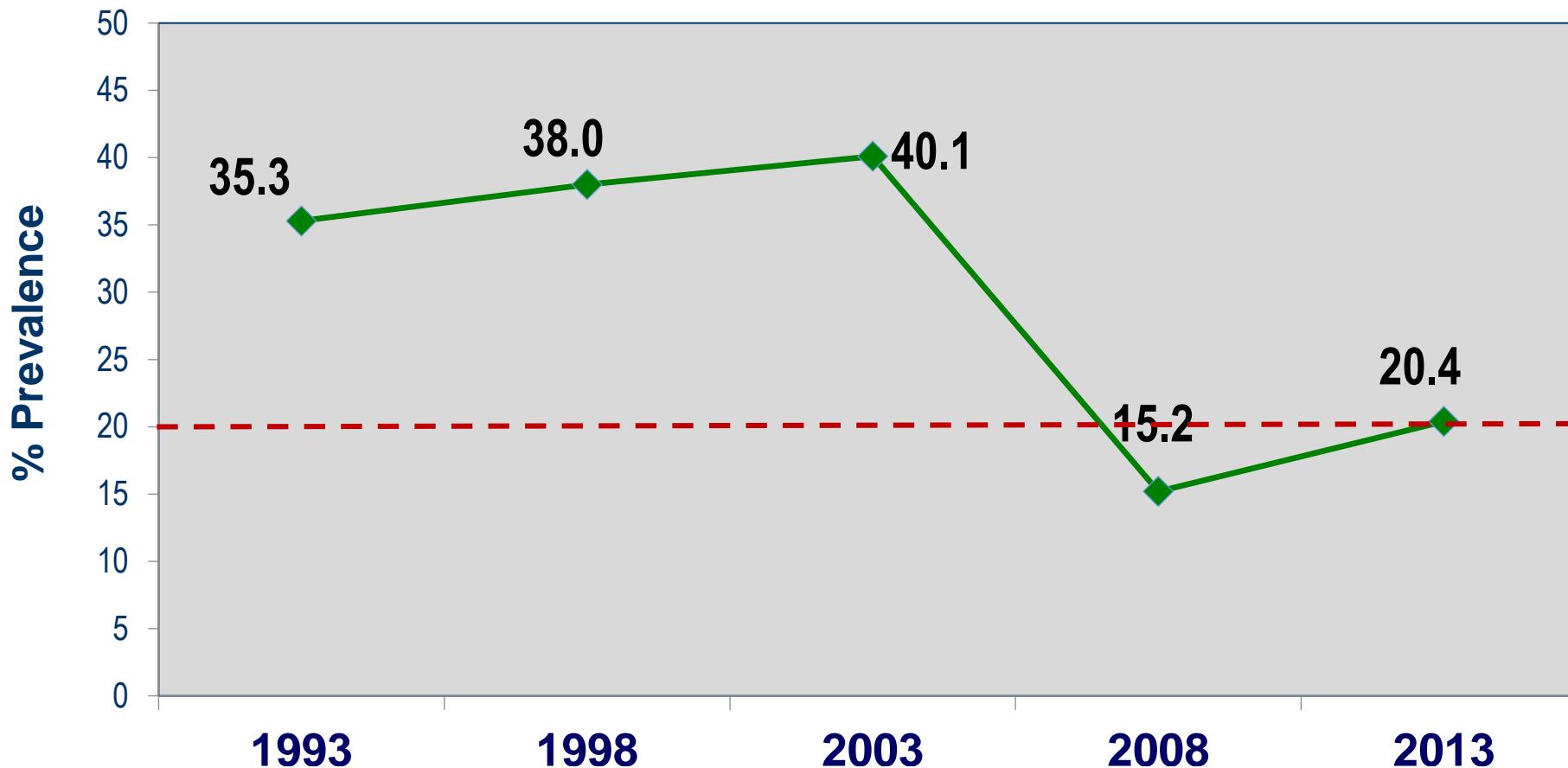
Prevalence of VAD by age and physiologic state, Philippines: 2013



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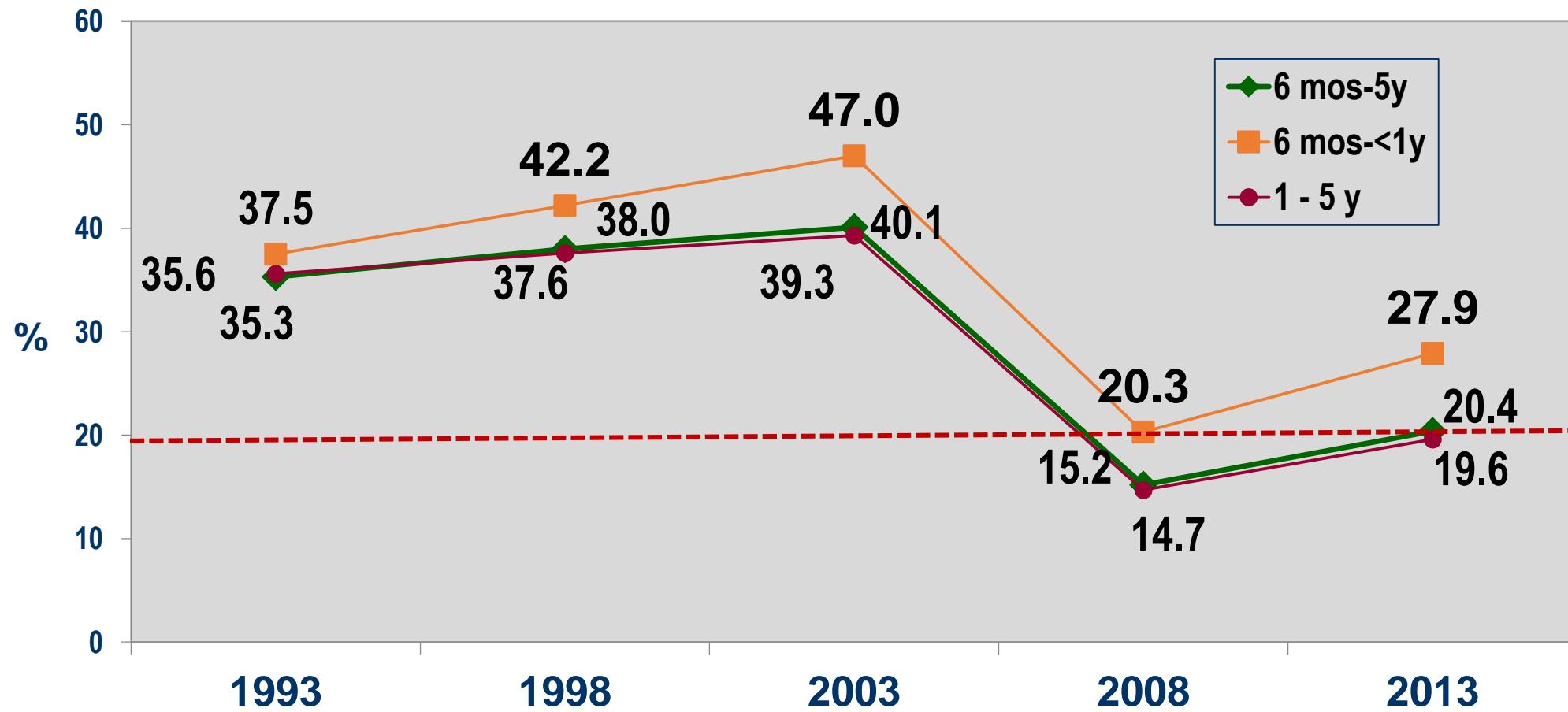
Trends in the prevalence of VAD among children, 6 mos - 5 yrs Philippines: 1993, 1998, 2003, 2008 and 2013



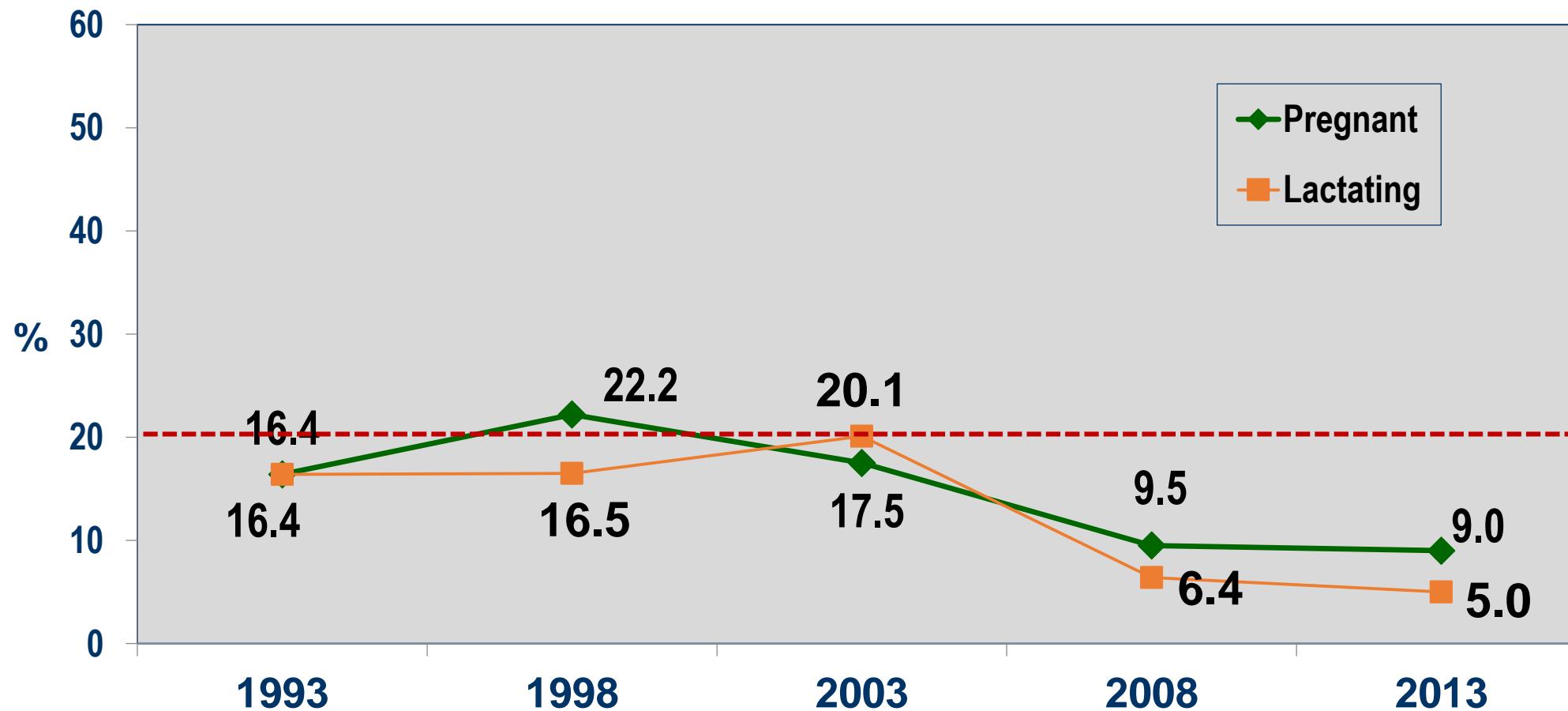
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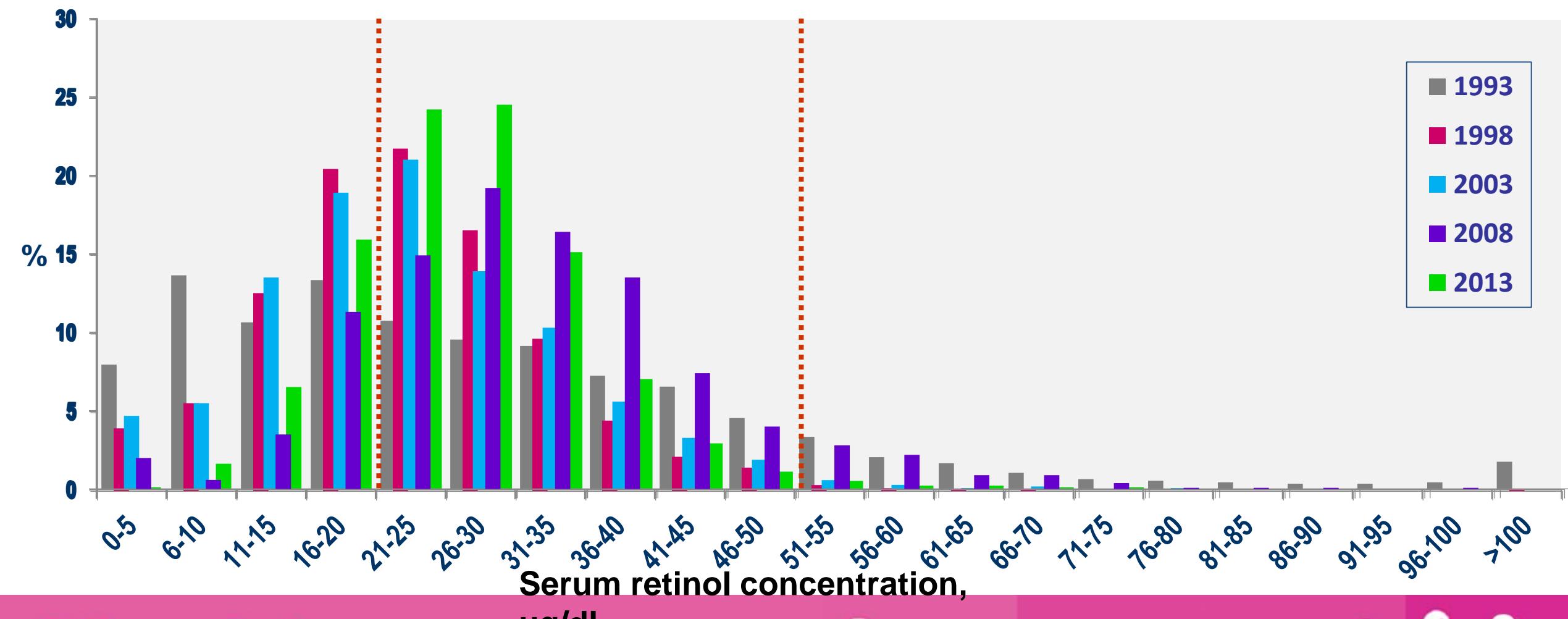
Trends in the prevalence of VAD among children Philippines: 1993, 1998, 2003, 2008 and 2013



Trends in the prevalence of VAD among pregnant and lactating women, Philippines: 1993, 1998, 2003, 2008 and 2013



Distribution of serum retinol among preschool children, Philippines: 1993, 1998, 2003, 2008 and 2013



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SUMMARY

- VAD prevalence among preschool children is a problem of “severe” public health importance
- There was a decreasing trend in VAD prevalence among the among pregnant women and lactating mothers



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THANK YOU



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