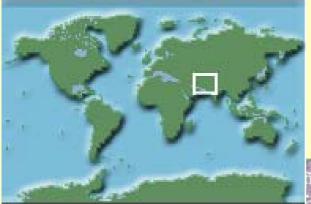
Vitamin A deficiency during pregnancy

Talat Toor

11th Postgraduate Course in Reproductive Medicine and Reproductive Biology HUG-WHO Tutor: Mario Merialdi



Pakistan

ation: **Total Area: Total Population:** State Religion: National Language: Monetary Unit: National Dress: National Flower: National Game:

icial Name: Islamic Republic of Pakistan China Latitude - 24° and 37° N Gilait Longitude - 62° and 75° E Agency Gilgit 803,950 sq. km. (Including FATA & FANA) 130.58 million Islam (1998 Census) N.W.F.P Muzaffarabad Afghanistan Peshawar (Disputed) Urdu FATA Islama Pakistani Rupee Shalwar Kameez Lahore Jasmine Hockey Punjab • Quetta India Baluchistan Iran Flag Federal Capital Sind Provincial Capital Karachi Arabian Sea

Vitamin A

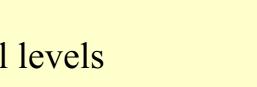
- Vitamin A is an important micronutrient, which has important influence on the health of pregnant women and the fetus
- Two compounds are related to Vitamin A:
 - Performed Vitamin A (Retinoids.)
 - Provitamin (Precursors of Vitamin A)

Introduction

- Vitamin A deficiency
- Public Health importance
- Recommended dietary allowances
- Interventions

Vitamin A deficiency

- Sub clinical
 - serum retinol levels
- Clinical
 - night blindness
 - Bitot's spots
 - Xerophtalmia
- Health consequences







Public Health Relevance

- Vitamin A deficiency is a major health problem.
- 25-50 million children suffer from Vitamin A deficiency.
- Vitamin A deficiency during pregnancy is associated with increased mortality and morbidity in mothers and infants.



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Recommended Dietary Allowance

•		Adult women 25-45 years	Pregnant women 3rd trimester	Lactating women	e	Percentage increase over non-reproducing adult women	
		5				-	
•					Pregnancy	Lactation %	
•	Vitamin A	800	800	1300	Pregnancy	Lactation %	

How can we prevent vitamin A deficiency?

- By Public Health measures through appropriate, acceptable, affordable and available programs.
- Dietary diversification, food fortification and supplements.

Objectives

- To determine the maternal and perinatal consequences of vitamin A deficiency
- To review the strategies to eliminate and prevent vitamin A deficiency

Methods

- Papers identified through:
 - Medline (key words)
 - References
 - Book chapters
- Papers selected:
 - biological information
 - public health
 - evidence of effectiveness of interventions

Results

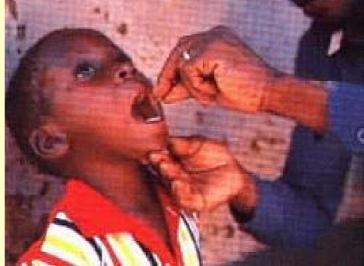
- Importance of vitamin A for maternal health
- Vitamin A deficiency and maternal morbidity
- Vitamin A deficiency and maternal mortality
- Vitamin A deficiency and perinatal health

Interventions to prevent Vitamin A deficiency

- Diet diversification
- Supplementation
- Food fortification







Conclusions

- Vitamin A is a serious problem throughout the developing world.
- Adequate maternal Vitamin A nutrition is essential.
- Vitamin A deficiency can produce clinical signs such as night blindness and ocular lesions.
- Vitamin A deficiency is a preventable disease

Conclusions

- The principal challenges include:
- Sustaining global and national commitment to elimination
- Embedding successful control strategies into community systems so that they are sustainable.
- Increasing dietary intakes of young children, pregnant and lactating women to adequate levels.
- Educating the medical profession and general public
- Educating mothers about the importance of adequate intake of vitamin A and its locally available sources for menu planning.