

Public Health Measurements in preventing vitamin D deficiency

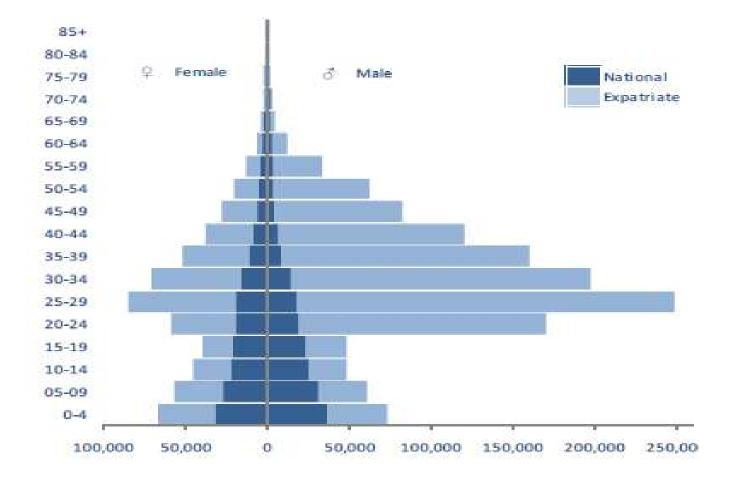
Dr. Arwa Al Modwahi Senior Officer Master of Public Health Nutrition

Objectives



- •HAAD/ Public Health Department Priorities
- Micronutrient deficiencies
- Meta analysis on vitamin D (to be added later and presented in the conference)
- Sources of Vitamin D
- Public Health Nutrition Programs





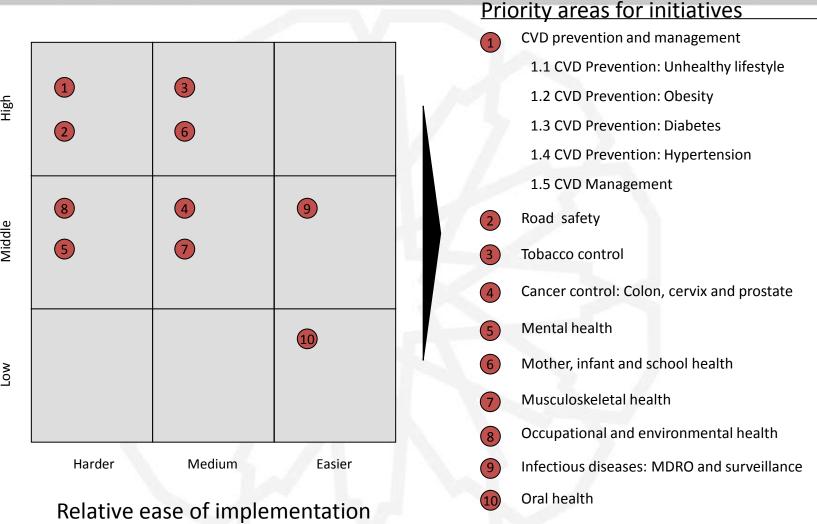
Toll Free: 800 800

www.haad.ae

Public Health Priorities 2011



Achievable impact on Abu Dhabi* (1)High (2)(8)Middle (5)Low



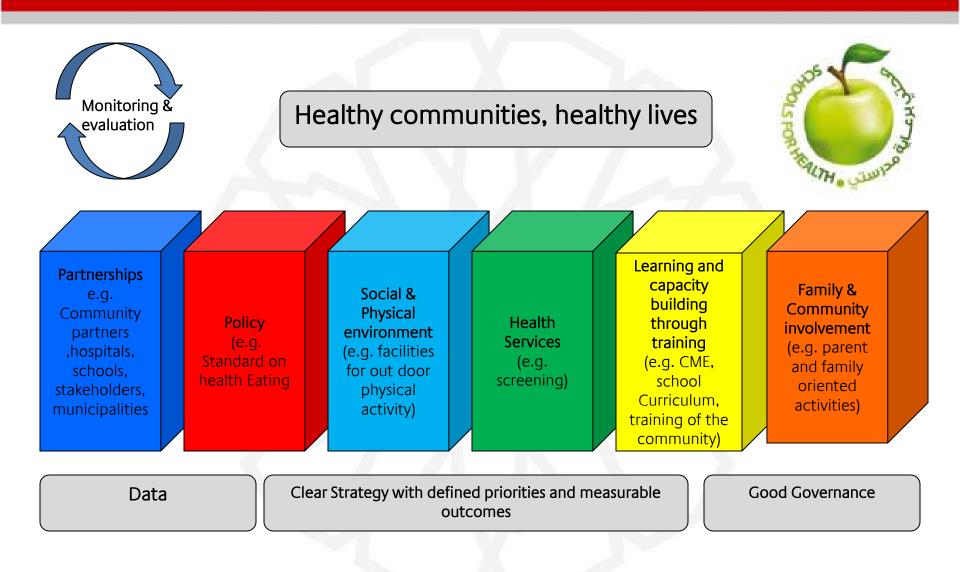
* "Achievable impact" combines prevalence, severity, gap between current Abu Dhabi and international best practice, and availability of (an) evidence-based intervention(s)

Toll Free: 800 800

www.haad.4ae

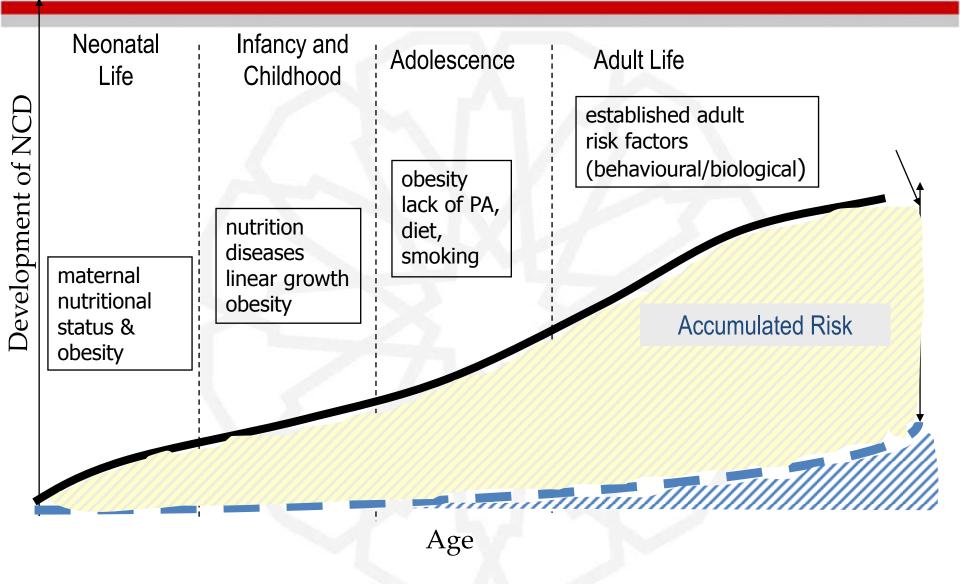
Public Health framework is based on global best practice

هيئة الـصحـة - أبـــوظــبي HEALTH AUTHORITY - ABU DHABI

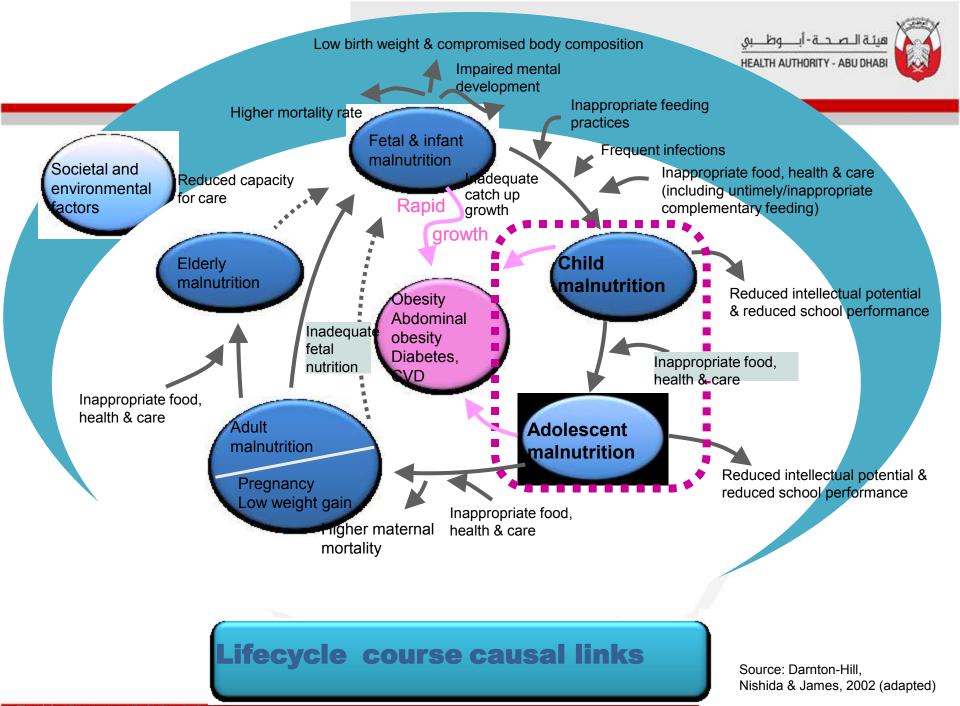


Page 5 www.haad.ae

Life Course Approach



هيئة الـصحـة - أبـــوظــبي HEALTH AUTHORITY - ABU DHABI



Toll Free: 800 800

Micronutrient deficiencies

- lodine is critical for thyroid function deficiency results in cretinism, goiter and delayed development
- Iron is critical for blood and muscles deficiency results in anemia
- Vitamin A is critical for visual development deficiency results in blindness

Vitamin D OUR TOPIC FOR TODAY – is critical for Bone Development





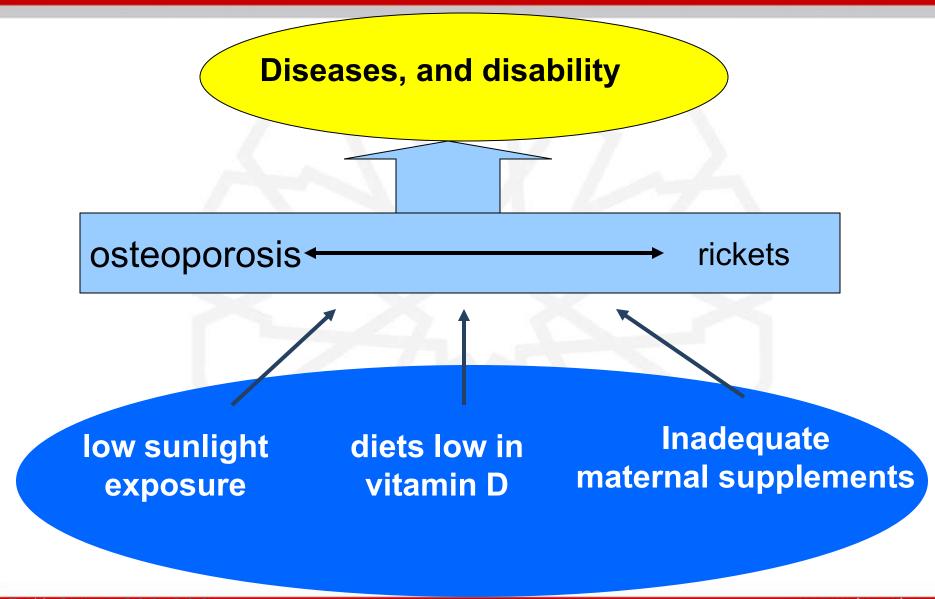
Vitamin D Deficiency: Rickets الصحة-أب وظ بي HEALTH AUTHORITY - ABU DHABI





Vit D Deficiency





Toll Free: 800 800

www.haad.ae



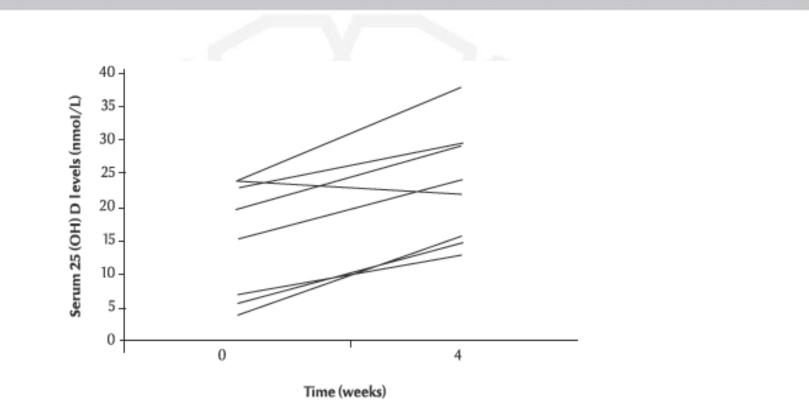


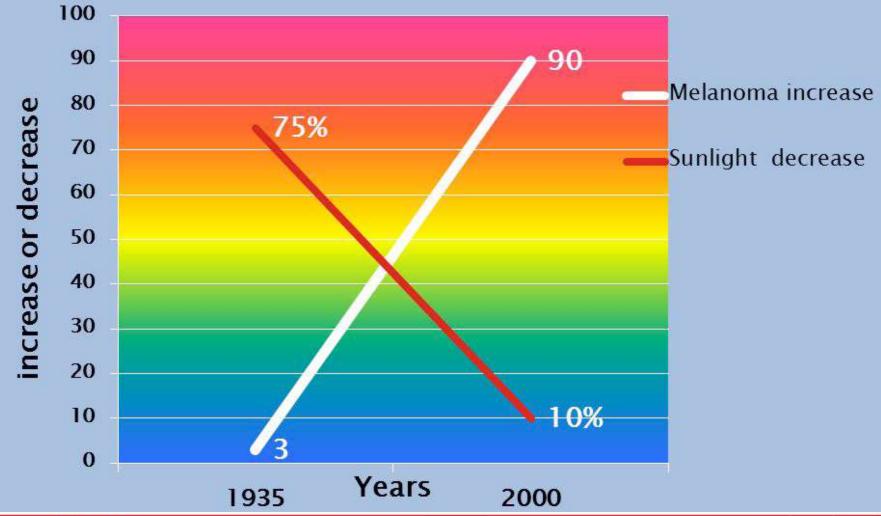
Figure 1 Individual changes in the 8 women's serum 25-hydroxyvitamin D [25(OH)D] concentrations after 4 weeks of exposure to sunlight for 30 minutes per week (*n* = 8)

Source: *A. Dawodu, J. Kochiyil and M. Altaye*, (July, 2011) Pilot study of sunlight exposure and vitamin D status in Arab women of childbearing age. EMHJ Volume 17 No.7

Sun Exposure



Melanoma Increase vs. Sunlight Decrease 1935-2000



Source of vitamin D in foods المعدة-أب وظ به HEALTH AUTHORITY - ABU DHABI





- •Fish liver oils
- Fatty fish (Salmon)
- Eggs from hens that have been fed with vitamin D
- Fortified cereals
- •Fortified milk products
- Fortified orange juice
- •Fortified vegetable oils

Fortification





Reading the Label



Serving Size Servings Per				Start hea
Amount Per Ser	ving			
Calories 250	Calori	es from	Fat 110	
	%	Daily	Value*	Calories
Total Fat 12g			18%	
Saturated Fa	at 3g		15%	
Trans Fat 3g				
Cholesterol 30mg			10%	Have more
Sodium 470mc			20%	
Potassium 700mg			20%	
Total Carbohydrate 31g			10%	
Dietary Fibe			U%	
Sugars 5g	3			
Protein 5g				
- Terene og				
Vitamin A			4%	
Vitamin C			2%	
Calcium			20%	
Iron			4 %	Have less



The Eat Right & Get Active Campaign

Eat Right & Get Active



Page 16 www.haad.ae

Toll Free: 800 800







هيئة الـصـدـة- أيــــوطـــبي HEALTH AUTHORITY - ABU DHABI

LOW

LOW

ومدلي في غذائي في نشاطُه في

> Presenting easy to follow guidelines for Students and their parents to follow



احتياجات الظلبة للعناصر الغذائية الأساسية حسب الفئة العمرية

أ- الإحتياجات لوجبة الغذاء

يجب أن يوفر للطلبة ثلاث أو أربع مكونات من الأغذية المتنوعة التي يتوفر في مجموعها ما يعادل التالي:

الصف السابع – الثاني عشر	الصف الرابع – السابع	الروضة - الصف الثَّالث	المرحلة الدراسية
٨٢٥	۷۸٥	٦٣٣	السعرات الحرارية
١٦	10	٩	البروتين (جرام)
٤	۳۷.	777	الكالسيوم (مج)
٤٫٥	٤,٢	٣,٣	الحديد (مج)
٣	770	۲	فيتلمين أ
١٨	١٧	10	فيتامين د (مج)

معايير المقاصف المدرسية في إمارة أبوظبي

العسام الدراسي ٢٠١١ - ٢٠١٢





- Food Consumption survey
- Nutrition Guidelines
- Implement and monitoring for food fortification
- Initiate consumer awareness and encouraging adequate sun exposure





