Lecture Outline Chapter 2: Nutrition Standards and Guidelines

I. (DRI) Dietary Reference Intakes (page A in front of)

1. (DKI) Dietary Reference Intakes (page 11 in	nont of book)		
Definition: Nutrient intake standards set and Canada.	for people living in the United States		
The DRI is an umbrella term for four poss	sible values that is set for each nutrient:		
A	<u></u>		
В			
C			
D	<u></u>		
A. (RDA) Recommended Dietary Allowances			
Definition: A set of suggested nutrient go			
Recommendations vary based on			
into consideration activity level, height, w	-		
Meet the needs of nearly all (group.) people in a given age and gender		
Based on solid experimental evidence; set of	• •		
They are recommendations for	intake, NOT		
requirements.			
Intended for individuals,	not for those with serious illness or		
malnutrition.			
32-year-old female: IRON <i>RDA</i>	CALCIUM RDA		
32 year old female. 11(31(12)11			
B. (AI) Adequate Intakes			
Definition: Also a set of suggested nutrie	ent goals for individuals		
	DA to be set; involves educated		
Set when selentific data does not allow K	DA to be set, involves educated		
IRON AI 32-year-old female	CALCIUM AI		
IKOIVAI 32-year-old lemaie	CALCIONIAI		
Setting RDA and AI Values			
Nutrients- set so that they will meet the	Energy- set at the average so that half of the		
requirements of <u>nearly all</u> people.	populations' needs will fall below and half will		
11 1	fall above the recommended level.		
9			
8			
<u> 즉</u>			
2 / \	,		
ğ / \			
number of people	/ \		
Daily Requirement NUTRIENT			
	Daily Danwinson and ENERGY		

Why are the RDA for **NUTRIENTS** (like protein, vitamins, and minerals) **NOT** set at the average requirement, but instead at a level **HIGHER** than the average?

Give 2 reasons why consuming less than the RDA for a nutrient for one day does not mean you're deficient in that nutrient. (This is not answered in the lecture, but if you are not sure of your answer feel free to discuss this in the forums).

C.	(EAR) Estimated Average Requirements
	Definition: Average nutrient requirements for given genders and life stage
	groups.
	Used by researchers and nutrition policy makers.
	Form the basis upon which theare set.
D.	(UL) Upper Intake Levels
	Definition: A standard that identifies potentially hazardous levels of nutrient
	intake when exceeded.
	Not all nutrients have an UL due to .
	Important for people who take
	IRON <i>UL</i> 32-year-old female CALCIUM <i>UL</i>
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II. My Pyramid (USDA Food Guide)

Definition- A visual representation and explanation of a daily **food** and **activity** guide.

How Can the Food Guide Pyramid Help me Eat Well?

The food guide pyramid is a visual representation of the USDA food guide. It is a food guide to help Americans achieve the goals of the Dietary Guidelines for Americans, as well as meeting the RDAs and AIs or (DRIs). For most people this means eating *MORE* of:

O	
0	
0	
0	
And eating	LESS of:
0	
0	
0	

Foods grouped into 5 different groups, based on their nutrient content.
1.
2
3
4 5
J
If you look at the fruit and vegetable groups you'll notice they contribute Vitamin A, Vitamin C, potassium, and fiber to the diet. Vegetables also contribute (a B vitamin) and (a mineral) to the diet.
Portion Distortion:
How many ounces is the ½ cup of granola?
How many ounces is the cup of puffed rice?
If you're trying to cut down your portion sizes, one way to do it is to use smaller
plates. In the video that showed the research done by Brian Wainsink, study subjects on average took% more food when serving themselves on larger plates.
Controlling Calories: The Discretionary Calorie Allowance Discretionary Calories are the Calories you can spend on the extras after you've consumed your nutrient dense foods. Foods with addedor addedor more of any food from any of the food groups.
Examples of foods that contain Discretionary Calories:
Examples of foods that are nutrient dense:
Can you think of how discretionary calories might actually help you to eat nutrient dense foods?
III Daily Values (DV) (page Y in back of book) Definition- A set of suggested daily intakes of calories and selected nutrients,
developed to use on <u>food labels</u> .
They don't vary by age or gender; they are usually the highest RDA for that nutrient.
Reflect the needs of an "average" person (someone eating 2,000 calories a day). Based on theRDA; are not updated on a regular basis.

	Iron DV Calcium DV							
	A DV on a food label lists what			of				
	the food supplies.							
	MAGIC DV- we are going to say that the "magic" % Daily Value is 10%. In other words, we will consider a food a "good source" of a nutrient if the label says a serving of it has 10% or greater of the DV for that nutrient. Using this definition and looking at the spinach label in Lecture 2A, what nutrients should we consider the spinach a "good source" of?							
IV	Dietary Guidelines for Americans, 2	2005 (Ch. 2, pg.	. 36 of text)					
	Adequate nutrients within	Fats Car	bohydrates					
	energy needs	Sodium	& potassium					
	Weight management	Alcoholi	c beverages					
	Physical activity	Food saf	ety					
	Food groups to encourage							
A	Beyond the nutrients of the twentieth century A Phytochemicals Definition- chemicals that plants make to help them survive and get ready to reproduce. Phytochemicals help them do that by helping: protect the plants from the environment (sun's heat, oxygen etc.). Antioxidants are one type of phytochemical that can do this. protect the plants from diseases, infections and pests attract pollinators and seed-dispersing animals It is estimated that there may be more than							
В	Zoochemicals - the same thing in							
С	C Neutraceuticals - (term first used in 1989)- a term that motivates companies to divide food into individual chemicals that may have medical or health benefits, including the prevention and treatment of disease. These neutraceuticals are the sold at a much greater profit than what a farmer makes when selling a whole foo Example:							
D	Best way to get phytochemicals-	_	_					