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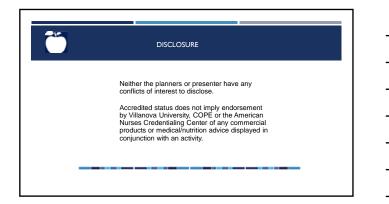
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OBJECTIVES Identify methods of assessment necessary to design a nutrition plan for fat loss. Create a macronutrient prescription to fuel activity and preserve lean body mass while in calorie deficit Design a sample resistance training workout designed for simultaneous fat loss and muscle growth.

Ĩ	CE DETAILS	VILLANOVA UNIVERSITY Occasio or waining MacDonald MacDonald MacDonald MacDonald MacDonald MacDonald MacDonald MacDonald MacDonald	
contin	ova University College of Nursing is accred uing nursing education by the American Nu r Commission on Accreditation		
is a C	 Villanova University College of Nursing Continuing Education/COPE is a Continuing Professional Education (CPE) Accredited Provider with the Commission on Dietetic Registration 		

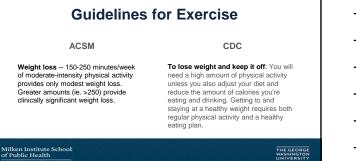
CE CREDITS	
 This webinar awards 1 contact hour for nurses and 1 CPEU for dietitians Suggested CDR Learning Need Codes: 2070, 2110, 3030, 5370 Level 2 CDR Performance Indicators: 4.1.2, 4.2.6, 4.2.7, 6.2.3 	

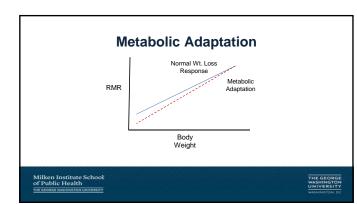


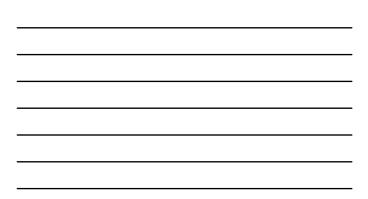


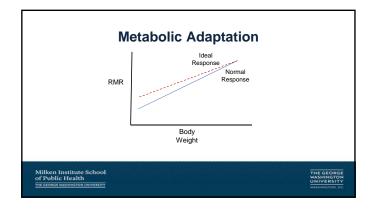


















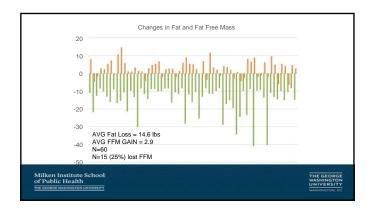


Lean Body Mass & Obesity

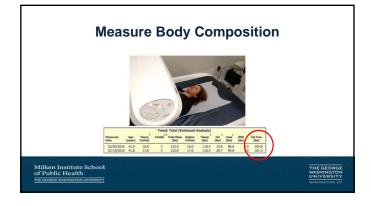
- Obesity is characterized by: High muscle mass; low muscle quality
 - Decreased muscle function
- In overweight people, 20%-30% of weight lost during a weight loss intervention comes from fat free mass.

Is this loss in FFM obligatory?

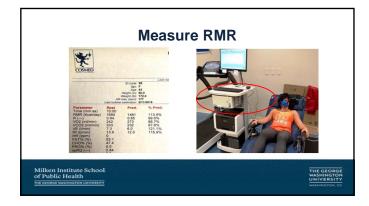
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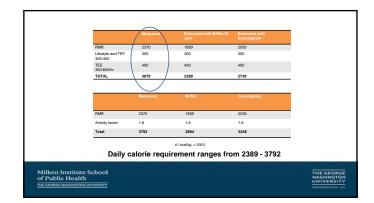




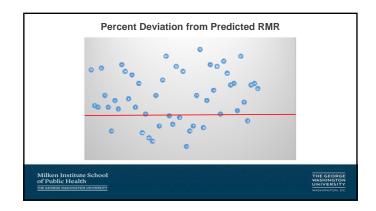


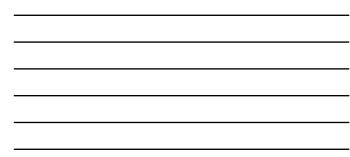




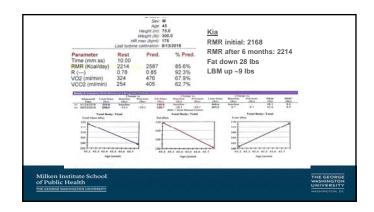


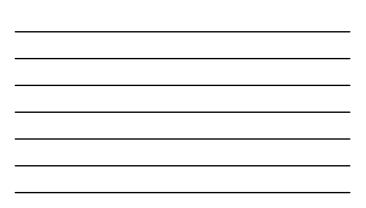


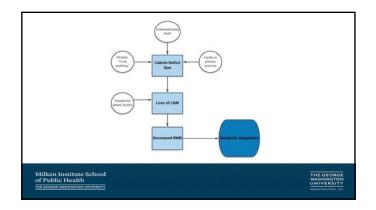


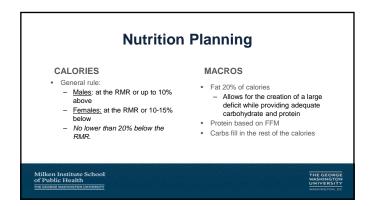


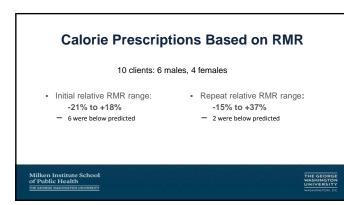
Why measuring RMR is critical Client: Kia		
What if we PREDICTED	Client's calorie intake = 2,122	
 Predicted RMR: 2,742 Add activity factor of 1.5 Subtract 1.000 	Recommended intake (from prediction)= 3,113/day	
 Target calorie intake = 3,113 	Difference from recommended = -991	
What we ACTUALLY did	Actual Fat Loss = 28 lbs.	
 Actual RMR = 2,168 Calorie Rx = 2,100 	Change in Fat if fed predicted intake = 29 lb fat gain	
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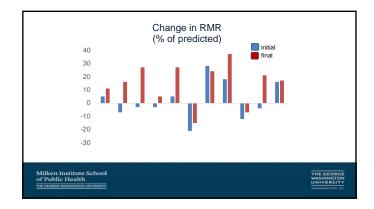




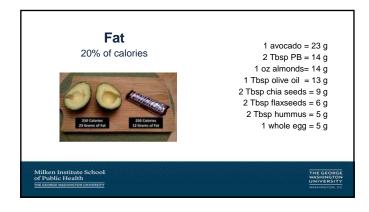














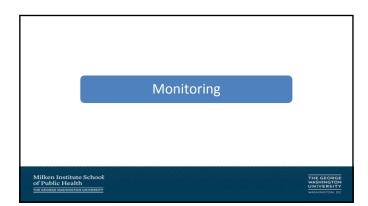
- 1.0-1.4 g/lb FFM during calorie restriction
 Protein should not be >40% of calories.

 - Focus on lean proteins
 - Challenges: vegetarians and vegans Supplements usually necessary
- Even distribution among meals for a positive nitrogen balance
- 10-20 grams after RT

Weijs, P. JM. & Wolfe, R.R. (2015). Explo

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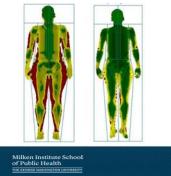
Fill in the rest of the calories Supports energy requirements and metabolic caeds Use the devil 0 droit ed beannas because they have too much sugar." • "droit ed to beannas because they have too much sugar." • "Garrots have too much sugar." • "droit ed stoetoes and quinton but avoid bread and pasta because they are too carb dense." • "In y to limit my carb intake throughout the day." - said by a client who overeats on carb based snacks or sweets in the afternoon/evening.





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Mary's 15 month results:

July 2017: 189 lbs @ 38% fat, RMR 1558 (-6%)

October 2018: 157 @ 17.1% fat, RMR 1771 (+21%)

AVG calorie intake: 1st 8 months: 1556 after that: 1957 Total fat loss: 45 lbs Total muscle gain: 13 lbs. Total minutes of cardio: 0

Re-Assessment of the Calorie Goal

s/s of increased RMR

- Hungry
- Poor sleep
- Fatigue esp. during workoutsSlowed fat loss
- ٠ LBM loss
- . Cognitive changes
- s/s of decreased RMR
- Satiety
- Difficulty finishing meals and hitting nutrient goals
 Fat gain or slowed fat loss

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Decision Map for RMR Reassessment THE GEORGE WASHINGTON UNIVERSITY 0 Ŷ Ċ







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