

EVIDENCE-BASED NUTRITION PRACTICE GUIDELINES & TOOLKITS

Research and Strategic Business Development Academy of Nutrition and Dietetics January 2012

History of Academy's Guidelines



1990's

 Medical Nutrition Therapy Across the Continuum of Care (MNTACC)

2001/2002

 MNT Evidence-Based Guideline for Practice (Hyperlipidemia, Diabetes, CKD, Gestational Diabetes)

2004

Evidence Analysis Library

2005-2009

 Evidence-Based Nutrition Practice Guidelines and Toolkits



What's New?

- ➤ Movement in healthcare towards evidence-based practice
- ➤ More systematic, rigorous process of evidence analysis
- ➤ Use of the Academy's Nutrition Care Process
 - Assessment
 - Diagnosis
 - Intervention
 - Monitoring & Evaluation



- ➤ Guidelines are a *free* member benefit of the Academy Evidence Analysis Library®
- ➤ Toolkits consist of resources for application of the Guidelines
- ➤ Oversight by the Academy Evidence-Based Practice Committee

3/15/2012



Definition

Evidence-Based Nutrition Practice Guidelines are a series of guiding statements and treatment algorithms which are developed using a systematic process for identifying, analyzing and synthesizing scientific evidence. They are designed to assist the registered dietitian and patient/client in making decisions about appropriate nutrition care for specific disease states or conditions in typical settings.

Scope of Dietetics Practice Framework Definition of Terms 2008



What are Evidence-Based Nutrition Practice Guidelines?

Evidence Summaries & Conclusion Statements = what the evidence says

Guideline = course of action for the practitioner based on the evidence





Criteria/Resources Used for Development

- ASTM standard Specification Guideline Elements Model (GEM) for Clinical Practice Guidelines
 - Computer program that can store and organize the information in practice guidelines
- National Guidelines Clearinghouse standards
 - AHRQ initiative, certain criteria required for publication
 - Guidelines.gov
- AGREE Instrument
 - Appraisal of Guidelines for Research & Evaluation
 - 6 domains tested



Steps in Evidence Analysis Process



Step 1: Develop Question

• Formulate the Question

Step 2: Gather Research

Gather and Classify the Research

Step 3: Appraise Articles

Critically Appraise Each Article

Step 4: Summarize

 Summarize the evidence in an Overview Table and Evidence Summary

Step 5: Grade

 Develop Conclusion Statement and Grade the Strength of the Supporting Evidence



Guideline Development







Joint HOD and BOD appointed committee

 Actively practicing in acute care, longterm care, ambulatory care, and public health

- Trained as evidence analysts
- Representatives from QM, Research,
 NCP/SL, DPBRN Committees and BOD





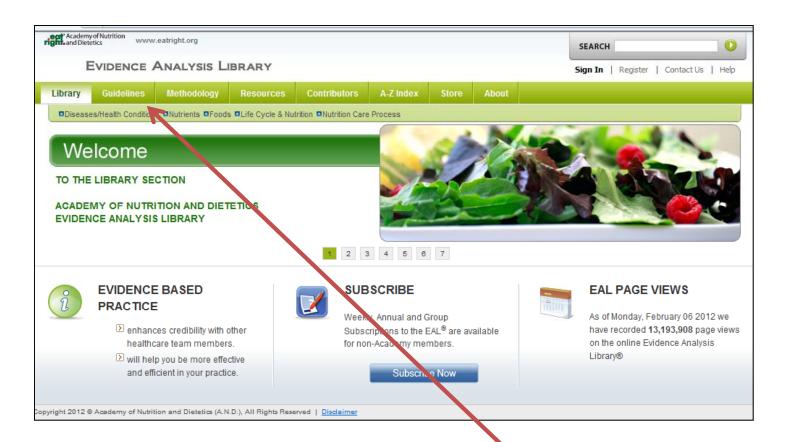
Features of Each Guideline

- Recommendations: list only of recommendations, no supporting evidence
- Introduction: scope, intent, methods, benefits/harms
- Recommendations: a series of guiding statements that propose a *course of action* for practitioners

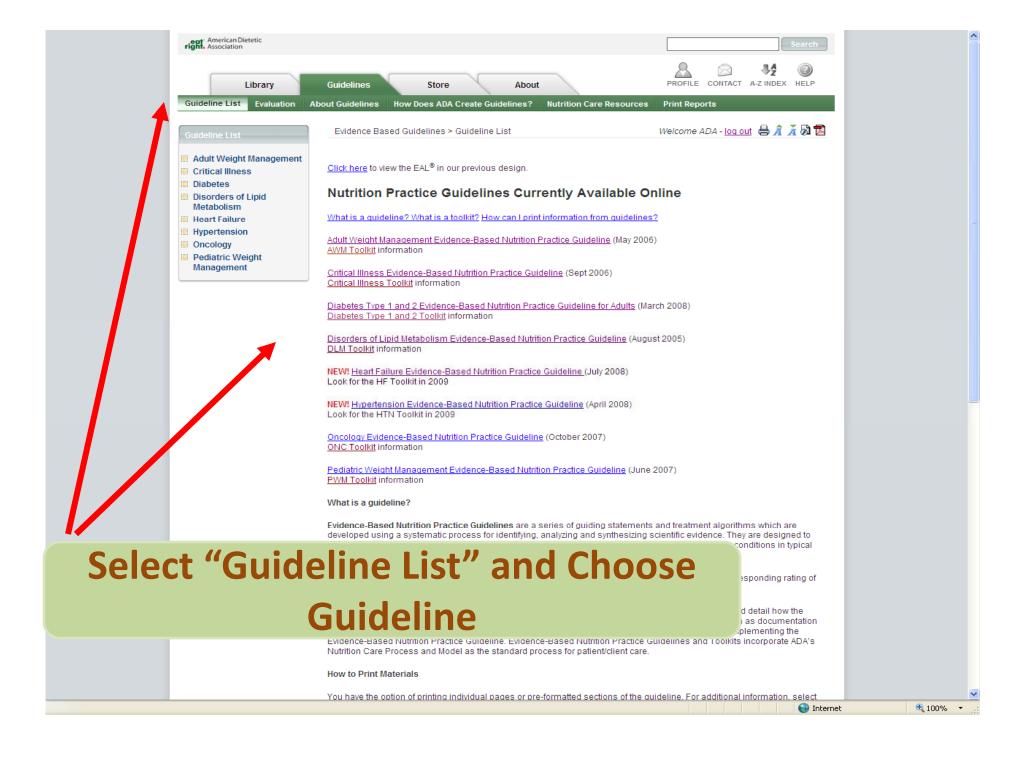
- Algorithms: step-by-step flowchart for treatment of the specific disease/condition
- ➤ Appendices: food tables, RMR information, etc.

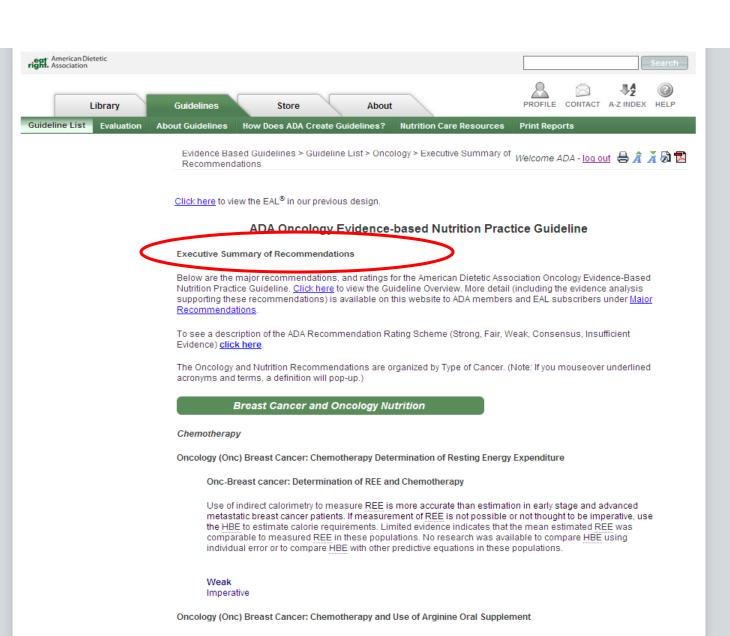






Select "Guidelines" tab

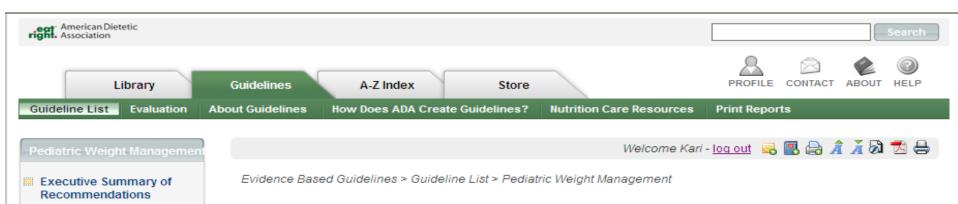




Onc-Breast cancer: Arginine and Chemotherapy

Use of an oral arginine supplement to improve long-term clinical response for patients with breast cancer prior to the start of neoadjuvant chemotherapy is not currently recommended. Evidence is not available to evaluate the safety of arginine or its effect on cancer symptoms for patients with breast cancer receiving chemotherapy. One RCT demonstrated a statistically significant histopathological response in tumor sizes less than 6 cm, however there was no improvement in short-term clinical response.

Weak



Introduction

Major Recommendations

- AlgorithmsAppendices
- Background Information
- References

Click here to view the EAL® in our previous design.

Evidence-Based Pediatric Weight Management Nutrition Practice Guideline

This American Dietetic Association evidence-based pediatric weight management nutrition practice guideline is meant to serve as a general framework for treating pediatric overweight through intervention with children, adolescents, and their families.

Organization of the Guideline

This guideline is designed so that you can access key information quickly and easily without having to wade through detail. If you want or need more detail on an item or topic, you will be provided with hyperlinks to more information

Contents of the Guideline

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Printing Guideline Materials

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Evidence Based Guidelines > Guideline List > Recommendations

Recommendations for Sodium/Fluid Intake and Heart Failure

Click here to view the EAL® in our previous design

Recommendations Summary Page

Heart Failure (HF) Sodium and Fluid Restriction and Heart Failure

Click here to see the explanation of recommendation ratings (Strong, Fair, Weak, Consensus, Insufficient Evidence) and labels (Imperative or Conditional). To see more detail on the evidence from which the following recommendations were drawn, use the hyperlinks in the Supporting Evidence Section below.

Recommendation(s)

HF: Fluid Intake

For patients with heart failure, fluid intake should be between 1.4 and 1.9 L (48-64 oz.) per day, depending on clinical symptoms (i.e. edema, fatigue, shortness of breath). Fluid restriction will improve clinical symptoms and quality of life.

Fair

Imperative

HF: Sodium Intake

For patients with heart failure, sodium intake should be less that restriction will improve clinical symptoms (i.e. edema, fatique) ar

Fair

Imperative

Risks/Harms of Implementing This Recommendation

One potential risk of a fluid and sodium restricted diet is elevate parameters are elevated, the patient may be hypovolemic and sodium intake should be considered.

Conditions of Application

- Use caution when a patient has an elevated BUN or creat
- Consider a lower range of fluid restriction in NYHA stage I

Potential Costs Associated with Application

None

Recommendation Narrative

Application

Risks/Harms

Conditions of

- Potential Costs
- Narrative
- Rationale for Rating

Four studies found that sodium restriction with or without fluid restriction improved at least one of the following: quality

Rating	Definition
Strong	 benefits clearly exceed the harms (or harms clearly exceed the benefits for a negative recommendation) the quality of the supporting evidence is excellent/good
	(grade I or II)
Fair	 benefits exceed the harms (or harms clearly exceed the benefits for a negative recommendation)
	quality of evidence is not as strong (grade II or III)
Weak	quality of evidence that exists is suspect
	 or that well-done studies (grade I, II, or III)* show little clear advantage to one approach versus another
Consensus	Expert opinion (grade IV) supports the guideline recommendation
Insufficient Evidence	both a lack of pertinent evidence (grade V)* and/or an unclear balance between benefits and harms

- Use caution when a patient has an elevated BUN or creatinine.

Potential Costs Associated with Application

None

Recommendation Narrative

Four studies found that sodium restriction with or without fluid restriction improved at least one of the following: quality of life, NYHA functional class, sleep disturbance, physical activity, edema, BNP and blood pressure.

Recommendation Strength Rationale

- ▼ Three RCT and one prospective study found consistent results
- ✓ Cor

Minority Op

None.

Drill down to supporting evidence

Supporting Evidence

The recommendations were created from the evidence analysis on the following questions. To see detail of the evidence analysis, click the blue hyperlinks below.

For the patient with heart failure, is there evidence to suggest that there is an optimal level of fluid and/or sodium restriction, which will reduce HF symptomology and morbidity/mortality in heart failure?

References

Alvelos, M. Ferreira, A. Bettencourt P. et al. The effect of dietary sodium restriction on neurohumoral activity and renal dopaminergic response in patients with heart failure. Eur J Heart Failure. 2004; 6: 593-599

Arcand JL, Brazel S, Joliffe C, et al, Education by a dietitian in patients with heart failure results in improved adherence with a sodium-restricted diet: A randomized trial. Am Heart J. 2005; 150: 716e1-716e5.

Damgaard M, Norsk P et al. Hemodynamic and neuroendocrine responses to changes in sodium intake in compensated heart failure, Am J Physiol Regul Integr Comp Physiol, 2006, 290; R1294-R1301,

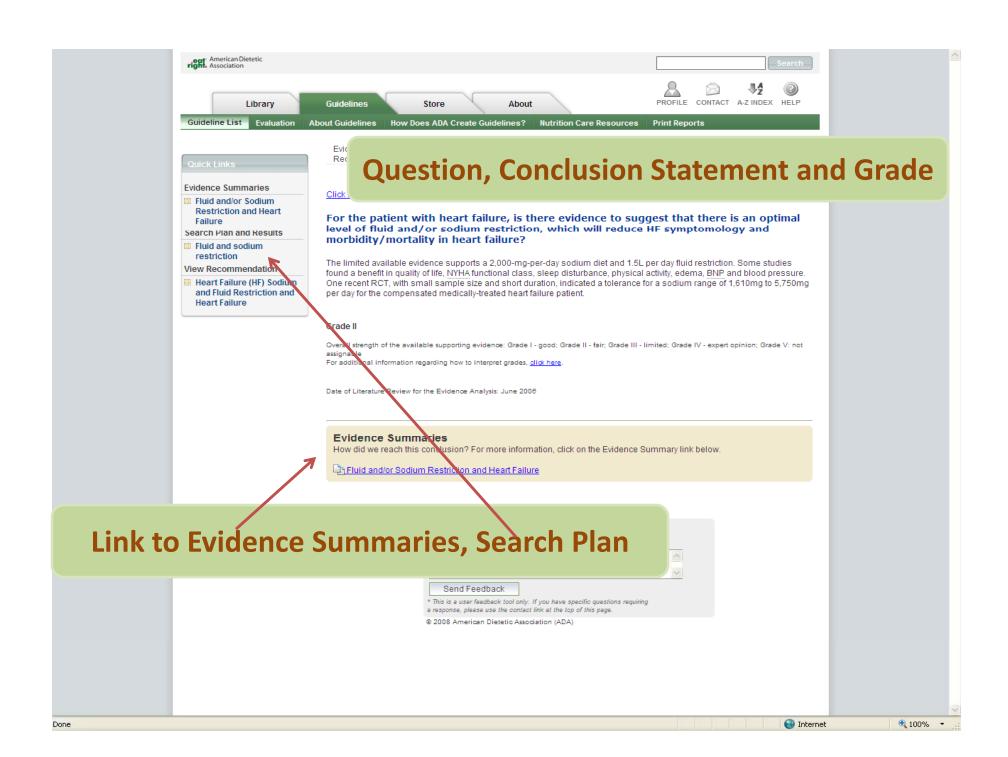
Kuehneman T, Saulsbury D, Splett P, Chapman DB. Demonstrating the impact of nutrition intervention in a heart failure program, J Am Diet Assoc. 2002; 102: 1,790-1,794.

Ramirez EC, Martinez LC, et al. Effects of a Nutritional Intervention on Body Composition, Clinical Status, and Quality of Life in Patients with Heart Failure. Nutrition, 2004; 20: 890-895.

Citations Not used in the Evidence Analysis

- 1. Task Force for the Diagnosis and Treatment of Chronic Heart Failure, European Society of Cardiology, Guidelines for the diagnosis and treatment of chronic heart failure. Eur Heart J. 2001;22:1527-60.
- 2. American College of Cardiology/American Heart Association. 2005 Guideline Update for the Diagnosis and Management for CHF in the Adult. Circulation. 2005;Sept 20:1-28.
- 3. Heart Failure Society of America 2006 Comprehensive Heart Failure Practice Guideline, Journal of Cardiac Failure, 2006; 12.

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View Conclusion Statement

For the patient with heart failure, is there evidence to suggest that there is an optimal level of fluid and/or sodium restriction. which will reduce HF symptomology and morbidity/mortality in heart failure?

Evidence Summary: narrative summary

Click here to view the EAL in our previous design

Fluid and/or Sodium Restriction and Heart Failure

The guidelines for the management of patients with heart failure (HF) from the American College of Cardiology and American Heart Association and the European Society of Cardiology recommend restricted intakes of sodium and fluid. This recommendation is based on research from HF. These nurse-led or multi-discipline programs closely monitor patients for compliance with daily weight recording, medicine and diet. Positive results considered end points of decreased hospitalizations and improved quality of life. Because of a lack of randomized control trials, the diet guidelines are level D, which is equivalent to an ADA Grade III.

Five papers were identified that provide information regarding the benefit of sodium and fluid restriction in HF. Three of the papers reported on the impact of nutrition intervention by RDs (Arcand JL, Brazel S et al, 2005; Kuehneman T, Saulsbury D et al, 2002; Ramirez EC, Martinez LC et al, 2004).

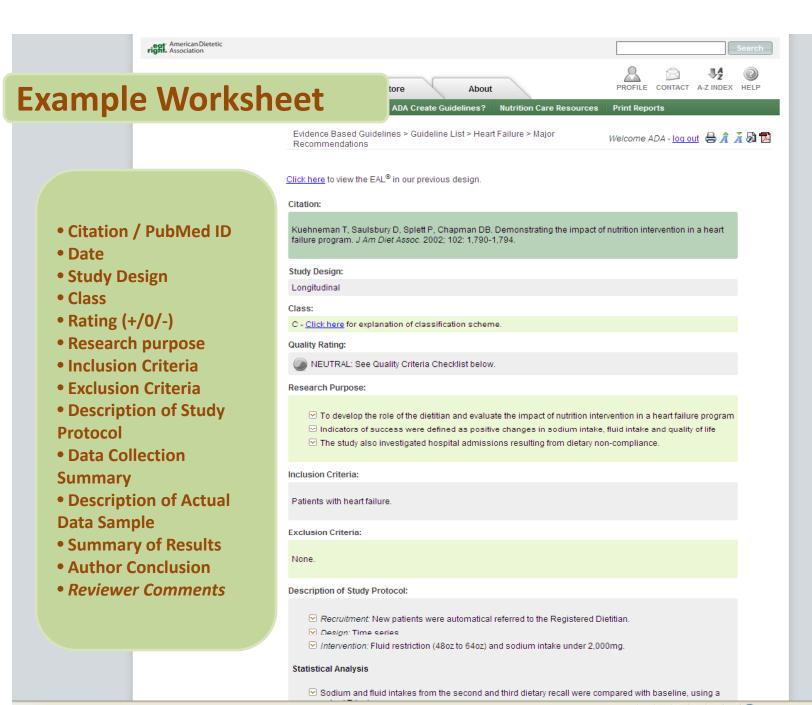
Alvelos, M, Ferreira, A et al, 2004 (positive quality), studied 24 patients with mild to moderate stable HF. 12 patients were studied before and after a 15-day low-sodium diet (2,300mg) and 12 maintained their usual diet. Patients following the lowsodium diet had significant decreases in blood pressure, body weight and creatinine clearance. They also experienced an increase in the renal rate of L-Dopa utilization as a counter regulatory mechanism.

In a randomized control trial, Arcand JL, Brazel S et al. 2005 (neutral quality), found no changes in heart rate or serum sodium levels, but found a trend toward reduced blood pressure in patients with HF after three months of being educated on a two-gram sodium diet (N=47, 35 males and 12 females). Those receiving two individualized sessions with an RD had a significant decrease (P≤0.05) in sodium intake.

A randomized control trial, Damgaard M, Norsk P et al, 2006 (neutral quality), found changes in the intervention group who served as their own controls, while following a 1,600-mg sodium diet vs. a 5,700-mg sodium diet. After seven days on each diet (N=12 male patients with HF and 12 male healthy controls), there was an increase in plasma volume and an increase in weight for both groups, slightly higher for the patients with HF during the higher sodium intake period. There was not a significant difference in exercise time for the patients with HF between diets. Conversely, there was a significant improvement (P≤0.05) in cardiac index, stroke volume index and total peripheral resistance on the high-sodium diet while exercising on the bicycle. Additionally, excessive sodium or water retention was not recorded in the patients with HF on the high-sodium diet. The authors state that their findings during short-term conditions should be interpreted with caution, in relation to the usual clinical practice

A three-year longitudinal study of patients with HF, Kuehneman T, Saulsbury D et al, 2002 (neutral quality), found an increased quality of life (QOL) in patients, following a diet with a fluid restriction of 48oz to 64oz and a sodium intake of less than 2,000mg. However, sample size limited the correlation with dietary changes. After three and six months, the group (N=79) showed significant decreases in sodium and fluid intakes (P≤0.001 and P<0.003, respectively), compared to baseline. The improvement in QOL (N=63 at three months and 44 at six months) was also significant at both timelines (P≤0.003 and P<0.04, respectively). Of 83 patients who were hospitalized during this time period, it was documented that six decompensated, due to a previous day's sodium intake of four grams or more. Hospitalization costs ranged from \$2,291 to \$12,151 for one- to four-day admissions on these six individuals.

A randomized control trial, Ramirez EC, Martinez LC et al. 2004 (positive quality), found improvements in clinical state, NYHA functional class and QOL in patients with HF, following a two- to 2.4-gram sodium diet with 1.5L per day of fluid. After six months (N=58; 21 males and 37 females), there was a significant decrease in sodium (P≤0.012) and fluid (P≤0.01) intake between the intervention and control groups. There was also a significant improvement in sleep disturbance (P=0.05), QQL (P=0.02) and physical activity (P≤0.05). Other significant improvements in the intervention group included less edema (P=0.008) less fatique (P=0.012) and change in NYHA class (P=0.025), compared to baseline. There were no changes in



Features of Recommendation Page

Recommendation:

- Describe "what to do" and "why"
- > Rating:
 - Strong
 - Fair
 - Weak
 - Consensus
 - Insufficient Evidence
- Classification: Imperative or Conditional
- ➤ Other categories-→



Process for Writing Recommendations

Risks/Harms:

• Potential risks, anticipated harms or adverse consequences associated with *applying* recommendation(s) to target population

Conditions of Application

• Organizational barriers and conditions which may limit

Recommendation Narrative

 Brief summary of main points of supporting evidence (provide author/year)

Recommendation Strength Rational

• List of the evidence strength and methodological issues that determined the strength, includes grades for the conclusion statements

Minority Opinion

Only if needed

References

 List of articles that met the inclusion criteria and were abstracted and part of the evidence analysis

References Not Used in the Evidence Analysis

 Relevant articles and publications that did <u>not</u> meet the inclusion criteria for evidence analysis



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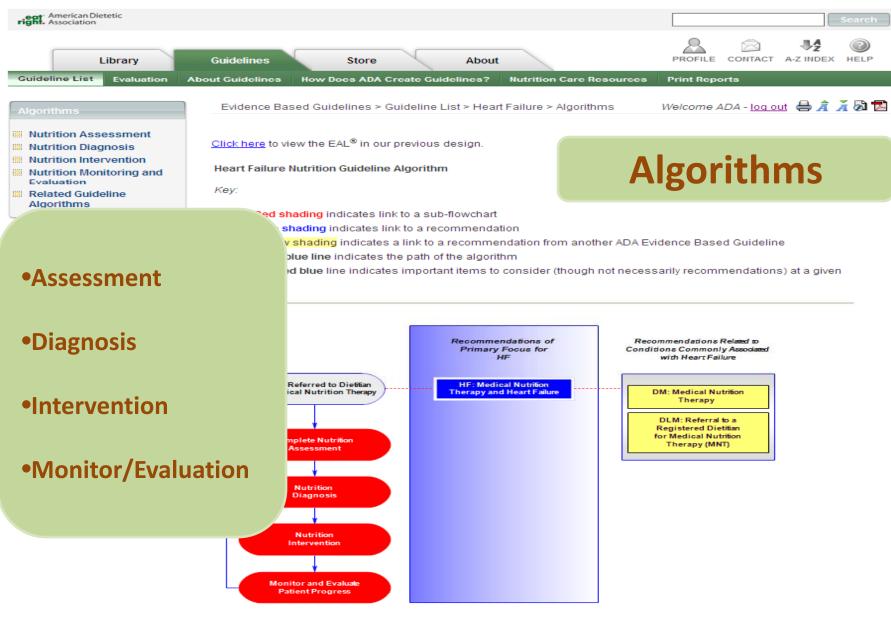
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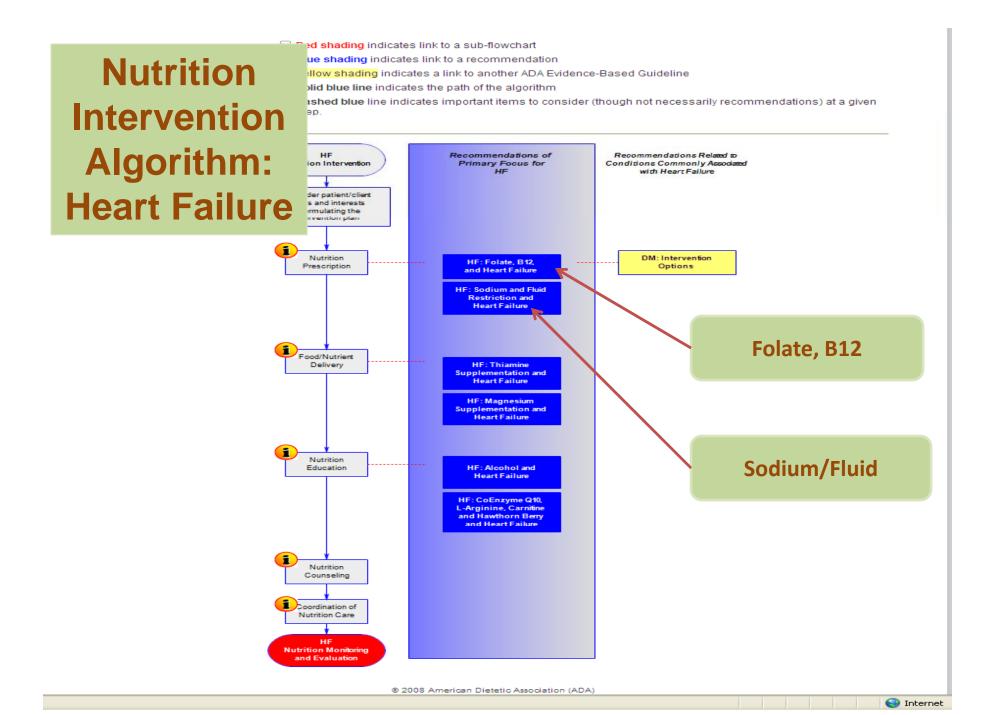
Background Information

Algorithms

References



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ADA Evidence-Based Nutrition Practice Guidelines

Published on EAL®:



2009

- Celiac Disease
- Spinal Cord Injury

Work in Process

- Chronic Kidney Disease
- Vegetarian Nutrition
- Unintended Weight Loss
- HIV-AIDS
- Pediatric Weight Management (update)

Toolkit Development

Develop toolkits to apply guidelines

Conduct 60-day usability test of toolkit and revise

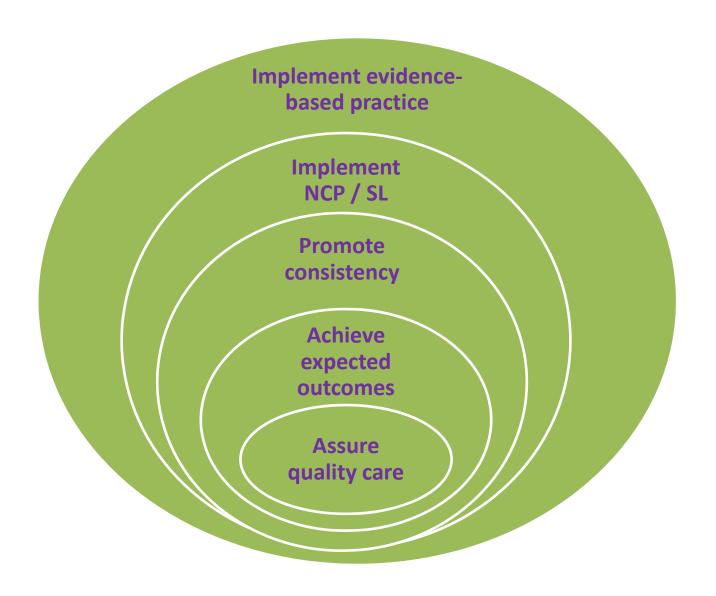
Make toolkits available for purchase

Features of Evidence-Based Toolkits

- Set of companion documents for application of the practice guideline
- Disease/condition specific
- Include:
 - documentation forms
 - outcomes monitoring sheets
 - client education resources
 - case studies
 - MNT protocol for treatment of disease/condition
- Incorporate Nutrition Care Process/SL as the standard for care
- Electronic downloadable purchase item



Objectives of Toolkits



Toolkits

Available:

- Disorders of Lipid Metabolism
- Adult Weight Management



Under Development:

- Critical Illness
- Oncology
- Diabetes
- Pediatric Weight Management

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- Add to Cart

cannot purchase a subscription.

Price: \$14.00

Member Price: \$0.00

Add To Cart

Toolkits

Adult Weight Management Toolkit Tool Gold Standard Gold Standard

Adult Weight Management Toolkit (Electronic)

This is an electronic downloadable item. Once you make your purchase, you will be able to download the toolkit and save it to your computer. Includes the companion materials for applying the Adult Weight Management Evidence-Based Nutrition Practice Guideline (23 files, 85 pages). This includes the MNT protocol, documentation forms, client education resources and outcomes management forms.

Click here to see toolkit documents:

Adult Weight Management Toolkit Table of Contents
MNT Adult Weight Management Initial Progress Note
Portion Distortion

Price: \$50.00

Member Price: \$20.00

Add To Cart

Adult Weight Management Toolkit (Print & Electronic)

By purchasing this item you will receive the electronic downloadable and a printed version of the Adult Weight Management Toolkit. Once you make your purchase, you will be able to download the toolkit and save it to your computer. You will also receive the printed version by mail. Includes the companion materials for applying the Adult Weight Management Evidence-Based Nutrition Practice Guideline (23 files, 85 pages). This includes the MNT protocol, documentation forms, client education resources and outcomes management forms.

Click here to see toolkit documents:
Adult Weight Management Toolkit Table of Contents
MNT Adult Weight Management Initial Progress Note
Portion Distortion

Price: \$62.00

Member Price: \$32.00

1

Add To Cart

Disorders of Lipid Metabolism Toolkit This Cold Standard A Target Standard Took Standard The Cold Standard

Disorders of Lipid Metabolism Toolkit (Electronic)

This is an electronic downloadable item. Once you make your purchase, you will be able to download the toolkit and save it to your computer. Includes the companion materials for applying the Disorders of Lipid Metabolism Evidence-Based Nutrition Practice Guideline (approximately 70 pages). This includes the MNT protocol, documentation forms, outcomes monitoring forms and client education resources.

<u>Click here</u> for Table of Contents and to view sample materials from the toolkit.

Price: \$50.00

Member Price: \$20.00

Add To Cart

Disorders of Lipid Metabolism Toolkit (Print & Electronic)

Adult Weight Management Toolkit Contents

- ✓ Overview
- **✓**MNT Protocol Forms
 - ✓ Summary Recommendations for AWM
 - ✓ Flowchart of Encounters
 - ✓ Encounter Process
- ✓ Documentation Forms
 - ✓ Sample Referral Form for MNT
 - ✓ Initial & follow-up MNT Progress Note
 - ✓ Sample Case Study
- ✓ Outcomes management Forms in Excel

✓ Client Education Resources

- ✓ Executive Summary
- ✓ Client Agreement for Care& Encounter Contract
- ✓ Can Dairy Help Control Weight
- ✓ Low-Carbohydrate Diets: Hype or Hope?
- ✓ Meals on the Go
- ✓ Portion Distortion
- Weight Control Meal Patterns

Setting: Ambulatory Care or adapted for other health care settings (Adult 18+ years old)

Encounter Le	ength of contact	Time between encounters					
	-90 minutes	2-4 weeks					
2 to 6 30	-60 minutes	2-4 weeks (# of encounters depends on risk	level, amount of desired weight loss, weight goal) (Strong)*				
Outcome Assessn	nent Factors	Expected Outcomes of MNT	Ideal or goal value of MNT				
		Summary of Adult Weight Management E	vidence-based Recommendations				
Biochemical Data a		-					
Height, Weight, BM	II, Waist	Weight loss of 1-2 # per week x 6 mo.	Within reasonable body weight, BMI 18.5-24.9 kg/m ²				
Circumference		5-10%♥ from baseline in 6 months	Waist Circumference <40" (102 cm) males, <35" (88 cm) females				
Resting metabolic ra		◆ in abdominal adiposity	(Fair)				
Indirect Calorimetry		Weight loss maintenance					
Mifflin-St. Jeor equa							
body weight, adjuste	ed for physical						
activity level							
Lipid Profile (Fastin		◆ Total Cholesterol	Total Chol<200, Fasting Trig<150 mg/dL				
Cholesterol, Triglyc	erides, LDL-C,	Trig ♥ or no change	Non-HDL=LDL-C goal +30				
HDL-C), Fasting Gl	lucose, BP	Non-HDL♥ (if Trig >200mg/dL)*	LDL-C<160 (0-1 Risk Factor)				
		LDL-C♥	LDL-C<130 mg/dL (Multiple (2+) Risk Factors)				
		HDL-C↑ or no change	LDL-C<100 mg/dL (CHD and CHD Risk Equivalent)				
		Fasting Glucose WNL or ♥	HDL-C >40 mg/dL (males), >50 mg/dL (females) (ATPIII)				
		BP WNL or ♥	BP<130/<85mmHg, Fasting Glucose<100mg/dL				
Food variety and cal	loric intake	Selects nutrie • Summary	of Recommendations				
		plans calorie					
		•Length of encounters					
Fat intake		Limits foods					
		part of a low • EXPECTED	outcomes of MNT				
Carbohydrate intake	,	Considers red					
		calories as part of a low calorie diet					
Eating frequency an	d pattern	Consumes 4-5 meals/snacks per day,	Caloric intake to lose weight or maintain weight loss (Fair)				
		including breakfast.					
		Limits eating during evening.					
Portion control		Limits portion sizes of foods and	Calorie intake to lose weight or maintain weight loss (Fair)				
		beverages.					
Meal replacements		Uses meal replacements as substitute for	Calorie intake to lose weight or maintain weight loss (Strong)				
_		1-2 meals per day					
Dairy foods		Selects low fat dairy foods as part of a low	Daily intake of 3-4 low fat dairy foods (Fair)				

Encounter Process for Adult Weight Management

ENCOUNTER: Initial Encounter 45 to 90 minutes

Assessment

Obtain the following: Clinical referral form or medical record or information system, within 30 days of encounter. Please refer to the Sample Referral Form: Referral for Medical Nutrition Therapy and Instructions for Medical Nutrition Therapy Sample Referral Form within this toolkit to assist with this step.

Assessment of Nutrition Status consists of five areas including Food/Nutrition History; Biochemical Data, Medical Tests and Procedures; Anthropometric Measurements; Physical Examination Findings; and Client History.

Food/Nutrition History consists of four categories including Food Intake, Nutrition and Health Awareness and Management, Physical Activity and Exercise and Food Availability.

- 1) Food Intake must establish a baseline for:
 - Energy intake
 - Percentage of estimate energy needs
 - Percentage calories from fat and carbohydrate
 - Other nutrient analysis
 - Patient/client behaviors
 - Consumption of dairy foods
 - Dining away from home and selections
 - Reading food labels
 - Modification of food preparation and recipes
 - Limiting of portion sizes
 - Intake of vitamins and minerals

This may include detailed food and nutrient intake, calculation of specific nutrients, meal and snack patterns....

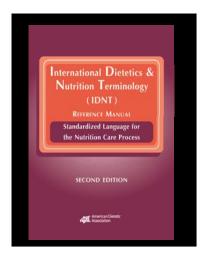
Encounter Process:

describes use of NCP related to AWM

Nutrition Care Process & Standardized Language

A means to apply the NCP in a standard way using common language.

- Nutrition Assessment
- Nutrition Diagnosis
- Nutrition Intervention
- Monitoring and Evaluation



Nutrition Diagnosis: (Select priority nutrition diagnoses)		
	NC-2.3 Food-med	
MNT Initial Progress Note	.3 Overwei .1 Food, nut	ght/obesity rition
	.3 Not ready	,/
The second control of	1.6 Limited	
specify:		Check off Nutrition Dx
☐ NI-53.5 Inadequate fiber intake ☐ Other:	J NB-2.1 Physica	Write PES Statement
Nutrition Diagnosis Statements (Nutrition Diagnosis, Related To	(Etiology) As Evide	• Determine Nutrition Rx
		Check off nutrition
		intervention
Nutrition Intervention Plan:	E	
Nutrition Prescription:		 Document intervention
		details
		 Document goals and
Nutrition Interventions (√ and explain)		expected outcomes
ND-1 Meal and Snacks: Oral diet:	ND-3.2 Vitami Multivitam	
☐ Modify type or amount of food at meals or	☐ Vitamin	
snacks:	☐ Mineral	
Provide specific foods or beverages: Other:		
E-1 Initial/Brief Nutrition Education (Implement):	1 1	Related Medication Management:
Purpose of nutrition education	☐ Initiate	m change:
Priority modifications Survival skills information		m change:
	☐ Administrat	ion schedule:
a	☐ Discontinue	<u>:</u>
□ Other:		
F-2 Comprehensive Nutrition Education (Implement):	C-1 Nutrition Co	ounceling:

Medical Nutrition Therapy Initial Progress Note- Case Study 1

MR# 0596283 Ethnicity: white Referring physician: Dr. John Morgan Date: 7/15/2005

DOB: 2/10/1939 Age: 66 Medical Dx: Combined Hyperlipidemia; hypothyroidism Time: start:1:35pm End;2:20 total: 45mi

Recommendations to other Providers (request for labs, nutrition relationship to changes in meds, need for reinforcement of lifestyle changes):

Physician encouragement of physical activity might move patient toward action in this area.

Please recheck lipid profile before her next nutrition therapy appointment on 9/9/2005. Referred patient to mental health professional for grief counseling or grief support groups

	utrition <u>D</u> iagnosis:		
1	Nutrition Diagnosis (Problem(s))		Nutrition Diagnosis (Problem(s))
	NI-1.5 Excessive energy intake	Х	NC-2.3 Food-medication interaction
Г	NI-2.2 Excessive oral food/beverage intake	П	NC-3.3 Overweight/obesity
Г	NI-4.3 Excessive alcohol intake	П	NB-1.1 Food, nutrition and nutrition related knowledge deficit
3	NI-51.3 Inappropriate intake of food fats- specify: soturated	Х	NB-1.3 Not ready for diet/lifestyle change
	and trans fats		
Г	NI-53.3 Inappropriate intake of types of carbohydrate—specify:	П	NB-1.6 Limited adherence to nutrition-related
			recommendations
Г	NI-53.5 Inadequ	_	ATTS A 1 TRANSPORT AND ADDRESS.

Other: Nutrition Diagno (NT-51 3) related of saturated and tr

(NB-1.3) related

(NC-2.3) related 24-hour recall.

Nutrition Assessm This is a 45 minute

Client History (m [smoking and alco Pertinent 1 Social Hx: Family H Medical H was discon Pt has a me

Baseline for Outc Anthropometric ! Ht. 5'2"Wt. 159 lbs when husband died Physical exam fin BP 152/90 Well no Biochemical Data:

Lipid Profile/pertinent labs	Date:	Date:		Date:	Date:		Date:	Date:
	7-10-05			7-10-05			7-10-05	
Total Cholesterol mg/dL	255		HDL mg/dL	25		HbAlc %	6	
LDL □calculated X direct mg/dL	152		TG mg/dL	386		Other:		
Non HDL (if TG >200 mg/dL)	230		Glucose mg/dL	112		ALT	40	
							units/L	
						AST	46	
							units/L	
	l	l				TSH	416	l .

Total fiber:

Food and Nutrition History: Energy intake: 2343 kcal (circle):Inadequate Adequate

% calories from sat and trans fat: 10%

Ch	oleste	erol: 342 m	g	Solul	ole fi	ber:
				PA/e	xerc	ise (a
vito	min K	-containing foods,	omega-3: 0.27g			
Pat	ient 1	egularly incorpor	ates the following (cl	ieck y	res o	r no,
Y	N	Amount/freq.	Food	Y	N	An
	~	g/day	Plant stanols/sterol	s	1	
	~	g/day	Soy protein	Т	V	П
	~	Selects appropri	ately when dining or	t (spe	cify	in pe
	~	Modifies fat in t	food preparation/reci	pe		

Additional Pertinent Information (food consumption [soluble fiber, fish, soy, plant sterols] nutrition/health awa

Maintains vitamins/minerals adequacy (specify pos

She eats only one meal per day plus sugared tea throughout 2c) of starch. The patient came with a limited knowledge ba and vegetable intake.

Barriers to Behavioral Goals:

She appeared to grasp the concepts well, but depression rel making significant changes.

Barriers towards Biochemical, Anthropometric, Phys (see barriers to behavioral goals)

3.7	T 2 2*
Nutrition	Intervention:

Nutrition Prescription:

- 1. Reduce calorie intake to 1800 kcal/day
- 2. Less than or equal to 50% calories from carbohydrate int
- 3. Increase soluble fiber to at least 10 g/day.
- 4. Include fish 3x per week as a source of omega-3 fat
- 5. Keep vitamin K intake consistent to assist in careful titra

Nutrition Education (instruction/training in a skill or kn [risk factors, physical activity]): Comprehension (circle) 1 2 3 4

Education provided on low sat/trans fat intake with reducti between dietary vitamin K intake and coumadin.

Nutrition Counseling (theory or approach, strategy and phase used to set priorities, go Receptivity * (circle) 1 2 $\stackrel{\circ}{3}$ 4 5

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Motivational interviewing was used to help patient identify that improved health is a priorit Based on contemplation stage of trans-theoretical model, discussed rationale for nutrition Patient jointly agreed to the following goals:

- 1. Eat 3 small meals per day
- 2. Substitute low calorie sweetener for sugar in tea
- 3. Select leaner choices of animal protein and include fish

Case Studies:

- Initial and Follow-up **Encounters**
- Illustrates the Nutrition Care Process
- Uses new SL for **Nutrition Diagnosis**, Intervention, Mon

Coordination of Care (referral to or coordination of nutrition care with other health care providers [referral, recommendations]): (see top of progress note)

Food and/or Nutrient Delivery (meals/snacks, medical food supplements, vitamin/mineral supplement, bioactive substance supplement, feeding environment and nutrition-related medication management): none

Expected Outcomes (Biochemical, Anthropometric, Physical and Food/Nutrition)

Outcome	Amount (if applicable)	Timeline
1. Move from contemplation to p	reparation and action stage	6 weeks
2. Increase soluble fiber	to 10 g/day	2 months
3. Lower LDL	decrease 10 mg/dL	3 months
4. Reduce BMI	down to 28 (loss of about 6 lbs)	3 months
Decrease serum TG	20%	3 months
Reduce saturated fat intake	to <8% of energy	6 months

V		V	
	Do You Have Questions About Alcohol *		Hypercholesterolemia Nutrition Therapy **
X	Soluble Fiber*	X	Hypertriglyceridemia Nutrition Therapy **
	Trans Fat Facts*		Sterols/Stanol Tips **
	Health Benefits of Nuts *		Soy Protein Tips**
	Omega-3 Fatty Acids *		Label Reading, Shopping Tips, Cooking Tips**
v	Other: Viscoin V Sand line		Mod Dlenning Tincks

| X | Other: Virtumin K rood list |
* from ADA Disorders of Ligid Metabolism Toolkit, ** from ADA Nutrition Care Manual |
* Key for Comprehension, Receptivity, Adherence: 1=Never demonstrated, 2=Rarely demonstrated, 3=Sometimes demonstrated, 4=Often demonstrated, 5=Comistently demonstrated |
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Follow Up Plan for Monitoring and Evaluation

Follow-up on Expected Outcomes:

Appt in 6 weeks to assess stage of change and improvement in dietary intake and lipid profile.

Address plant stanols/sterols if LDL level not at goal, inclusion of omega 3 fatty acids to reduce TG reduction and consider issue of increasing physical activity.

Next Visit: 9/9/2005 RD Signature: Holly Huffman, RO_

Low-Carbohydrate Diets: Hype or Hope?

What Is a "Low-Carb" or "High-Protein" Diet?

- Such diets limit carbo
- Most of the plans tell That amount of carbo for adults. (The gove from carbohydrates.)
- The diets replace sor protein helps you los

Client Education Materials:

5-6th grade reading level

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ing more

Do Low-Carb Diets Lead to Weight Loss?

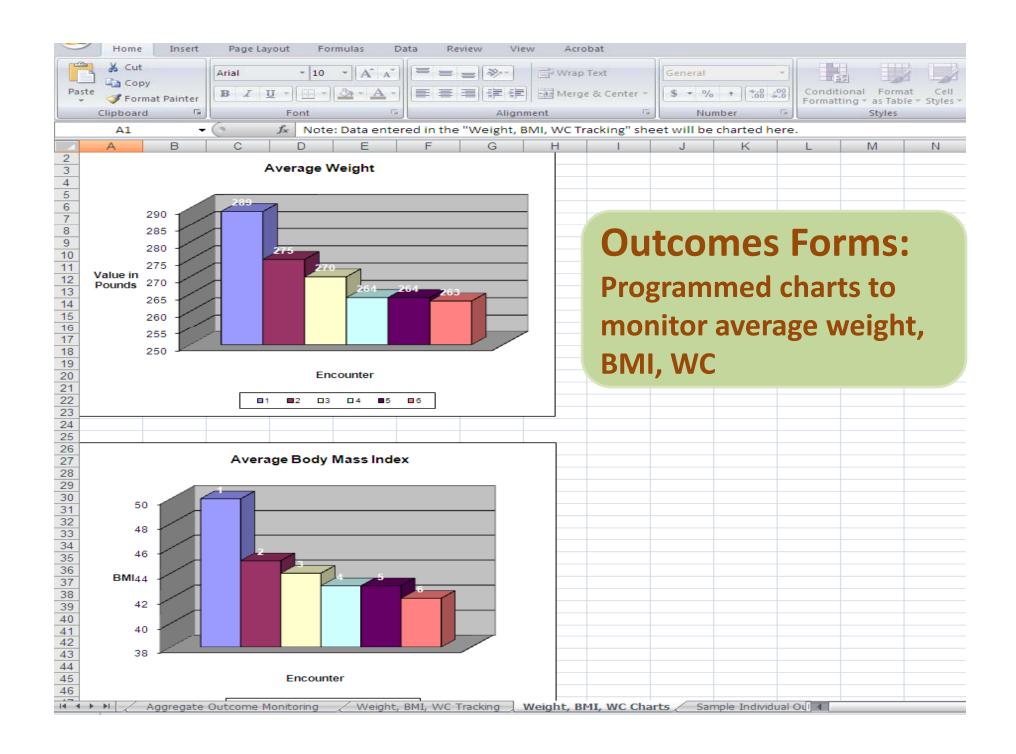
Research shows that low-carbohydrate diets can lead to slightly more weight loss than eating plans that cut fat and calories especially in the first six months. However, in studies lasting a year or longer, people on low-carb diets did not lose any more weight than people on low-calorie diets. Scientists don't know exactly why low-carb diets don't seem to work for more than six months. People may get bored with the diets and return to old eating habits. It may also be that the body stops losing weight when it adapts to the low-carb way of eating. Other studies are currently underway to find out more about low-carb diets and weight loss programs.

So you may be able lose weight on a low-carbohydrate diet. However, some of these diets are not nutritionally balanced:



- Very-high-protein diets often include lots of meat and dairy products.
 These foods are high in saturated fat and cholesterol, which can clog
 arteries. You can choose lower-fat meats and dairy foods. However,
 as animal products, they still provide dietary cholesterol.
- Diets that cut out foods from the grain, fruits, and vegetable groups can be too low in many nutrients such as fiber, phytochemicals, vitamins and minerals that you need for good health.
- Diets that emphasize certain types of carbohydrates over others (see box on the Glycemic Index) have not been shown to be effective.

MEDICAL NUTRITION THERAPY IN	DIVIDU	AL OUT	COMES	MONITO	RING FO	DRM			1
	,	t/Clients		1	1		200	6 American Dietetic A	sociation
		t ID/Medi		ord No:			A	iui. Weight Manageme	nt Toolkit
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Outcomes	forr	ns:	monit	tor ch	ange l	le o k	cal fat	values)	
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Encounter			-		0	ľ	Change	Modi Oodio	Goals
Direct MNT Intervention Goals							Ondrigo		Octio
Kcalorie intake							0%	*	
Total fat (g)							0%	*T	
Saturated fat (q)							0%	*:	
Trans fat (g)	 			1	+	1	0%	*T	
Saturated and trans fat (g)							0%	*T	
Cmega-3 fat (g/day)							0%	*:*	
% kcal from fat							0%	25-35% DLM	
% kcal from sat fat							0%		
% kcal from sat and trans fat							0%	<7%	
Dietary cholesterol (mg/day)							0%	<200 mg	
% kcal from carbohydrate							0%	50-60%	
Total fiber (q/day)							0%	25-30 g/d	
Soluble fiber (g/day)	1				1		0%	7-13 g/d	
Claud atauala (atauala (atalaa)	1				1		070	7-13 gra	



Thank you!

Questions?

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