Medical Nutrition Therapy Protocol and Handouts





INTRODUCTION

In 2004, there was no published national standard of medical nutrition therapy (MNT) care for children and adolescents who are overweight or at risk of becoming overweight. At that time, an estimated 40% of Pitt County children and adolescents are overweight or at risk for becoming overweight. One recommendation in the "Moving Our Children Toward A Healthy Weight" state plan* was to "ensure medical providers, nutritionists/dietitians, mental health care providers and physical activity specialists have the skills needed to effectively communicate with, evaluate, and provide care for children and youth who are overweight or at-risk for overweight". To assist with this need at a local level, a group of Pitt County dietitians and nutrition educators collaborated to develop a nutrition counseling protocol and patient education materials for use throughout Pitt County medical practices.

Professionals from University Health System, the Brody School of Medicine at East Carolina University, East Carolina University College of Human Ecology, the Growing Up FIT! Project of the North Carolina Agromedicine Institute and the Pitt County Public Health Department participated. The group was called together by the Pediatric Healthy Weight Research and Treatment Center at East Carolina University.

The group contributed their expertise and individual creativity to develop the comprehensive nutrition protocol and education material packet for dietitians and other nutrition professionals, Pitt County physicians, case managers, and others providing nutrition care to children and adolescents. Several models were considered and the group selected the template used by the American Dietetic Association in its Medical Nutrition Therapy Across the Continuum of Care client protocols. As new evidence becomes available the group reviews and considers modification. The medical director joined the group in consideration of the June 2007 American Dietetic Association's "Pediatric Weight Management Nutrition Practice Guidelines" (from the ADA Evidence Analysis Library) as well as the American Medical Association's "Expert Committee Recommendations on the Assessment, Prevention, and Treatment of Child and Adolescent Overweight and Obesity. The protocol has been modified where appropriate for the care provided by ECU Pediatric Healthy Weight Research and Treatment Center. The protocol describes a time frame for treatment and goals for different age groups. Seven intervention sessions are outlined. The topics are prioritized based on both the evidence and the clinical experience of the group. The visits are every 2-4 weeks. Patient education materials (available on CD) for each visit are included. These are designed for the child or teen but should be reviewed with parent or guardian. Follow-up contact (e.g. visit, phone call, email) is suggested every 12 weeks

OUTCOMES

In 2006 we had sufficient outcome data to determine the effectiveness and appropriateness of using this protocol in our practice. We now have experience and can claim some outcomes when using this protocol. From August 2004 to June 2006, 181 children had at least 2 visits with the dietitian. At the start, the group believed that it would take seven visits over six months to observe lifestyle changes that would stop or slow excessive weight gain in children already over the 95th%tile BMI for age. Our data indicate that children who had a BMI > 95th%tile and





who participated in our standardized protocol maintained or lowered their BMI over time, with significant changes occurring by the third visit with the dietitian. In practice, three nutrition visits took place over a

three month time-frame. Lifestyle behaviors that significantly changed after three visits with the dietitian include an increase in fruit and vegetable consumption, a decrease in soda and sweetened beverage consumption, a decrease in amount of times eating out each week, and a decrease in amount of TV watched each week. These results, along with our continued experience, informed revision of the protocol in spring 2007. It is still not known how many nutrition visits or how often children need to be counseled to sustain weight loss or the improved food behaviors.

This protocol continues to be used by the local RD's. Since 2004, the KIDPOWER project has provided nutrition services to more than 10 primary care offices in Pitt County and to over 1200 individual children and their families.

Feedback is welcomed and encouraged. Support for production and distribution of these packets was paid for by a grant from the Pitt Medical Society. In addition, grant monies from the Pitt Memorial Hospital Foundation supported the salary and benefits of four contributing dietitians since 2004. In-kind and financial support has also been provided by the Kate B Reynold's Foundation through the Growing Up FIT! Project. Please contact Kathryn Kolasa PhD, RD, LDN for permission to duplicate these materials. kolasaka@ecu.edu

For more information contact Sarah Henes, MA, RD, LDN at heness@ecu.edu or Kathryn Kolasa PhD, RD, LDN at heness@ecu.edu or Kathryn Kolasa PhD, RD, LDN at heness@ecu.edu or Kathryn Kolasa PhD, RD, LDN at heness@ecu.edu or Kathryn Kolasa PhD, RD, LDN at heness@ecu.edu or Kathryn Kolasa PhD, RD, LDN at heness@ecu.edu or Kathryn Kolasa PhD, RD, LDN at heness@ecu.edu or Kathryn Kolasa PhD, RD, LDN at heness@ecu.edu or the henessa.gecu.edu

OTHER GUIDELINES

As childhood overweight continues to be a major public health concern, both the medical and dietetic communities agree that an evidence-based, multi-disciplinary approach should be utilized in prevention and treatment. Organizations including the American Dietetic Association (ADA) have now developed evidence based guides for treatment of childhood overweight. In 2006, the ADA published a position statement on the prevention and treatment of childhood overweight and developed the Evidence Analysis Project. In 2007, ADA published treatment guidelines. See www.eatright.org. In December of 2007, the American Academy of Pediatrics (AAP) published guidelines for prevention, assessment, and treatment of childhood obesity. See www.aap.org/. Another resource for childhood obesity prevention and treatment is the National Initiative for Children's Health Care Quality (NICHQ). In early 2008 this organization created "Toolkits" for health care providers and for families to help prevent childhood obesity. See https://www.nichq.org/NICHQ/Topics/PreventiveCare/Obesity/Tools/. Also see www.eatsmartmovemoreNC.com for tools such as color-coded BMI charts and the "Prevention and Treatment Guide for Clinicians" based on 2007 AAP guidelines and 2008 recommendations developed by a team of childhood experts at the state level.





Reimbursement continues to be a barrier in providing MNT to overweight children and their families. However with such initiatives as the **Alliance for a Healthier Generation** launched in 2009, children and their families will have access to a minimum of 4 visits with an RD for MNT. Eligibility for the new coverage is 3-18 years old.

Our protocol continues to provide evidence based recommendations in helping our children achieve a healthy weight. We will review and update this protocol as appropriate.

Please return comment and evaluation forms to:

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2007, 2008, 2009 version Co-editors

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2004 version Co-editors:

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Contributing dietitians and nutrition educators to the 2009 version include:

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East Carolina University Brody School of Medicine,
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KIDPOWER Community Dietitian

Contributing dietitians and nutrition educators to the 2008 version include:

Liz Hobbs, MS, RD, LDN ViQuest Wellness Center Nutrition Specialist

Robin High, MPA, RD, LDN Pitt County Health Department Nutrition Program Director

Karen Evans, MA, RD, LDN ViQuest Wellness Center Lead Nutrition Specialist

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Jacqueline L. Sugg, MS, RD, LDN Pitt County Health Department Health Promotions Dietitian

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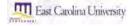
Contributing dietitians and nutrition educators to the 2004 version include:

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Amanda McKee, BSPH Previously at East Carolina University Brody School of Medicine, Family Practice Center Nutrition Educator

Ginger Hester, MS, RD, LDN





Previously at East Carolina University Brody School of Medicine, Department of Pediatric Dietitian Pediatrics

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Joanne Moylan, MPH, RD, LDN Previously at Pitt County Health Department Nutrition Program Director

Kristen Borre, PhD, MPH, MA North Carolina Agromedicine Institute Associate Scientist Program Director of Growing Up Fit! East Carolina University





Contents of Medical Nutrition Therapy Packet:

Referral Information

MNT resources in Pitt County

- with fee division
- without fee division

Clinical Tools

MNT protocol overview

Expected outcomes of MNT

Clinical assessment grid sheet (for initial measurement and goals)

MNT protocol, divided by sessions

Detailed list for initial assessment/Additional Resources

Estimated Calorie Needs (by Age, Gender, Activity Level) – 2005 Dietary Needs for Americans

Pediatric Obesity Prevention and Treatment Algorithm

Assessment, Prevention, and Treatment Guide for Clinicians

5-3-2-1-Almost None Prescription for Health

Color-Coded CDC Growth Charts (body mass index-for-age)

Blood Pressure Charts for age and gender

90th Percentile Waist Circumference for Boys and Girls

Food Diary Hunger Scale

MyFITPyramid

Medical Nutrition Therapy Service Components (Highlighted: Necessary Medicaid Components)

SCOFF Questionnaire/Screening Questions for Eating Disorders

ADA Nutrition Diagnostic Terminology (2007)

Patient Education Materials*

*F/B indicates handouts are double-sided.

10 Tips for Families

Stoplight Food Guide (3 pages F/B)

Stoplight Food Guide in Spanish

MyPyramid Kids

Phrases that Help and Hinder

What Does a Serving Size Look Like?

Plate Method

Daily Servings and Portion Sizes for

Preschool-aged Child (F/B)

Parents and Guardians as Role models (F/B)

Think Before You Drink! (F/B)

Fruits & Veggies (F/B)

Breakfast

Eat Smart Lunches (F/B)

Healthy Out (F/B)

Activity Guidelines 2009 MyActivity Pyramid 2009 Rainy Day Activities

Create a Healthy Snack (F/B)

Calcium (F/B)

Together...Let's Try New Foods!

Ideas for Helping Your Child Try New Foods

Tasty Cooking

Recipes (2 pages, F/B)

How to Read a Nutrition Facts Label (F/B) Eating Healthy on a Budget (2 pages, F/B)

Eating for Heart Health

Omega 3 Fatty Acids and Flax Seed

DASH Diet for Kids- Sample Menus (F/B) Ways to Lower Your Blood Cholesterol/

Lower Calorie, Lower Fat Alternatives Fiber- Part of a Healthy Eating Plan

Healthy Guidelines for Weight Management

Food Diary/Hunger Scale

My FIT! Pyramid What is BMI?

What is Cholesterol?

What is High Blood Glucose?

What is High Blood Pressure?





While the treatment of overweight and obesity in children is not universal, it is improving. In 2007, Blue Cross Blue Shield of North Carolina began providing reimbursement for 6 visits with a dietitian credentialed in weight management by Blue Cross. North Carolina Medicaid provides reimbursement for Medicaid-eligible children who can receive these services. In 2009, the **Alliance for a Healthier Generation** was launched. Insurance companies such as Aetna and BCBSNC who participate will provide access to a minimum of 4 visits with an RD for MNT to children and their families. Eligibility for the new coverage is 3-18 years old. It is important to note that the reimbursement situation is rapidly changing. It can not be assumed that nutrition visits will be paid for or not paid for, including with Medicaid. It is best to check with each insurance carrier.

In an effort to maximize the resources and reimbursement available, a list of MNT resources is provided below. The listing is divided into sections to assist the health care provider. If you are unsure whether the child is eligible to receive free-, or reduced-rate nutrition consultations, you may prompt them about which lunch service they receive at school. You may refer the child to any of these providers.

For children eligible to receive free school lunch:*

Pitt County Health Department

Appointment: 902-2418

Contact: Jackie Sugg, MS, RD, LDN Health Promotions Nutritionist

Or:

Appointment: 902-2388

Contact: Robin High, MPA, RD, LDN Nutrition Program Director

ECU Family Medicine Center

Appointment: 744-5479 Must specify that child has a weight concern.

Ask for appointment with KIDPOWER dietitian Cara Jenkins, MPH, RD, LDN, or

Sarah Henes, MA, RD, LDN

For children eligible to receive reduced-price school lunch:*

ECU Family Medicine Center

Appointment: 744-4611

Ask for appointment with nutrition educator or dietitian

Pediatric Outpatient Center, Brody School of Medicine

Appointment: 744-0766

Ask for appointment with pediatric dietitian

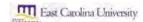
For children who are able to pay full price for school lunch:*

East Carolina University Family Medicine or Pediatrics. See above

ViQuest

Appointment: 847-7914

* Contact individual program for current cost. There may be scholarships and grant funding that make some services available at a reduced rate or at no charge.





Medical Nutrition Therapy Resources for Overweight Youth in Pitt County

ECU Family Medicine Center

Appointment: 744-5479 Must specify that child has a weight concern.

Ask for appointment with: KIDPOWER dietitian Cara Jenkins, MPH, RD, LDN or

Sarah Henes, MA, RD, LDN

Pediatric Healthy Weight Research and Treatment Center

Appointment: 744-3538. Need referral from Primary Care Physician. Includes medical, nutrition, and physical activity assessment.

Pediatric Outpatient Center, Brody School of Medicine

Appointment: 744-0766

Ask for appointment with Mindy Saenz, RD, LDN

Pitt County Health Department

Appointment: 902-2418

Contact: Jackie Sugg, MS, RD, LDN Health Promotions Nutritionist or

Or:

Appointment: 902-2388

Contact: Robin High, MPA, RD, LDN Nutrition Program Director

ViQuest

Appointment: 847-7914

Group Weight Management Programs also offered at ViQuest:

12 week programs: Ages 2-18 years Contact: Chelsea Farlow 847-7914

Medical Weight Loss Clinic for Employees- Optifast Program at ViQuest

Appointment: 847-6501

** Contact individual programs for current charges. There may be scholarships and grant funding that make some services available at a reduced cost or at no charge.





Pediatric Weight Management Medical Nutrition Therapy Protocol

Setting: Ambulatory Care or adapted for other health care settings. Children 2-20 years old. (Caregiver is encouraged to attend with all children, but adult must attend with patients 18 years and younger)

Number of sessions: 7

Intervention	Length of contact	Time between interventions	Cost/charge
1	60 minutes	2-4 weeks	
2,3,4,5 & 6	30-45 minutes	2-4 weeks	
7	30-45 minutes	3 months	

Ongoing follow-up contact (visit, phone call, letter or email) every 12 weeks is suggested for optimal weight management.

Target Audience: Children and adolescents (2-20 years) with a BMI that classifies the individual as overweight, obese, or those with 3-4 BMI increase over 12 months.

<u>Classifications for overweight:</u> Using gender-specific CDC growth charts, a child is considered overweight if BMI is $85-94^{th}$ %tile for their age. A child is considered obese if BMI is $> 95^{th}$ %tile for their age.

Program Goals:

- 1. Attain and maintain optimal metabolic outcomes within three months following initiation of dietary and behavioral modifications.
- 2. Modify nutrient and energy intake and lifestyle as appropriate for the prevention and treatment of chronic complications associated with overweight and obesity.
- 3. Improve health through education and skill development about health promoting food choices.
- 4. Ensure nutrient requirements are met. Address individual nutrition needs, taking into consideration personal, lifestyle, and cultural preferences while respecting the individual's wishes and willingness to change.

RECOMMENDATIONS FOR WEIGHT GOALS FOR CHILDREN 2-5 YEARS OLD

BMI	Recommendation		
$85^{th} - 94^{th}$ % tile	tile Weight maintenance until BMI <85 th percentile or slowing of weight gain.		
\geq 95 th % tile	Gradual weight loss, not to exceed 1 lb/month.* If greater loss occurs, monitor for causes.		

^{*} Create a daily deficit of 125-250 calories for \(\frac{1}{4} - \frac{1}{2} \) pound/wk weight loss (~1 lb/month).

RECOMMENDATIONS FOR WEIGHT GOALS FOR CHILDREN > 6 YEARS OLD

BMI	Recommendation		
85 th -94 th %tile Weight maintenance until BMI <85 th percentile or slowing of weight gain.			
\geq 95 th % tile	Weight loss not to exceed an average of 2lb/week.* If greater loss occurs, monitor for causes.		

^{*}Create a daily deficit of up to 500-1000 calories for 1-2 pound/wk weight loss.

Note: Recommendations adapted from American Medical Association's Expert Committee Recommendations on the Assessment, Prevention, and Treatment of Child and Adolescent Overweight and Obesity (June 2007). Due to clinical relevance and application, recommendations for >95th and 99th percentiles were merged.





Pediatric Weight Management Medical Nutrition Therapy Protocol

Expected Outcomes of Medical Nutrition Therapy

		visit	visit	visit	visits		
	Outcome/assessment factors	1	2	3	4-7	Expected outcome	Ideal/goal value
CI:	<u>1actors</u> nical						Facting Labor
•	Biochemical parameters:						Fasting Labs: Glucose 70-99 mg/dL
•	Serum glucose					Glucose ♥ 10% or at target goal	Cholesterol <170 mg/dL
	Scrum glucose			ш		Cholesterol ♥ 6-12% (if elevated)	Choicsteror 170 hig/di
	Lipid profile					Triglycerides ♥ (if elevated)	Triglyceride < 200 mg/dL
						LDL-C ♥ (if elevated)	g-y
						HDL-C ↑ or no change	LDL-C <110 mg/dL
	Serum Insulin					Serum Insulin \P	HDL-C >35 mg/dL
	C-Peptide (optional)					C-Peptide ↓	Insulin 0-17 uU/mL
	Blood Pressure (BP)					Blood pressure ♥	C-Peptide 0.5-2.0 ng/ml
							Blood pressure < 95 th percentile for
It m	ay not be feasible to have labs done at					Under the assumption that the patient	age (see attached table)
thes	se intervals. In cases where labwork is					follows the guidance of the	
not	warranted, continue MNT as protocol					Nutritionist, changes in biochemical	
desc	cribes.					measures are expected. Evaluation of	
						intervention is measured in terms of	
						expected outcomes. Measured	
						outcomes (labs) will be evaluated if	
	A d					feasible.	
•	Anthropometrics					♦ or maintain weight as appropriate	Within reasonable body weight.
	Weight, BMI, waist circumference, growth chart classification (%ile)		Ш	Ш	Ш	◆ or maintain weight as appropriate	BMI <85 th % tile for age and
	growth chart classification (%fie)						gender or consistent percentile over
							time.
Beh	navioral						MNT Goal:
•	Food guide					Understands and uses food guide	Adhere to appropriate meal pattern,
	- anytime, sometimes and rarely foods					to make healthy choices and	exercise and individualized weight
	- food models; portion sizes					age-appropriate portion sizes	management plan (calorie or
	•					Eats meals/snacks at appropriate	macronutrient budget) to achieve
•	Food/meal planning					times	and maintain healthy body weight,
	- sweetened beverages					 Chooses food and amounts per 	blood glucose, blood pressure, and
	- water					meal plan	lipids within target goals.
	- snacks					 Selects foods and drinks to fit 	
	- fruits and vegetables					pattern	Sessions in which behavioral topics
	- trying new foods						are covered may vary according to
							client's readiness, skills, resources,
							and need for lifestyle changes.
	Food lobal madina		П			• Uses food leb-1- +	
•	Food label reading					Uses food labels to make	
	Dining out/East food					 healthful food choices Selects appropriately from 	
•	Dining out/Fast food		Ш	Ш		 Selects appropriately from restaurant or fast food menu 	
						restaurant of fast food menu	
•	Food preparation					 Modifies recipes to ♥ total 	
	- recipe modification			_		fat/saturated fat and sugar	
	<u>.</u>					Uses healthy cooking techniques	
•	Physical Activity					 Increase in physical activity. 	
	- Television budget					Goal is 60 mins/d.	
						 Decrease in sedentary activity. 	
						Limit "screen" time to 2 hrs/d.	
•	Additional Topics						
	litional topics may include: trying new						
food	ds, setting goals, and calcium						





Pediatric Medical Nutrition Therapy Protocol for Weight Management

Prior to the first nutrition consultation, provider will review available existing medical information.

- 1. Determine any existing medical conditions
- 2. Review medical record
 - Weight, Height, BMI- history of growth/BMI curves
 - Growth chart classification (%tile)
 - Fasting Lipids:
 - Total cholesterol, HDL cholesterol, LDL cholesterol
 - Triglycerides
 - C-Peptide (optional)
 - Fasting glucose
 - Fasting insulin
 - Document presence of acanthosis nigricans
 - Family history (obesity, diabetes, hypertension, heart disease)
 - Personal health history (including physical limitations)

First Session (1 hour)

ASSESSMENT

- Gather anthropometric data (height, weight, waist circumference)
- Determine BMI
- Plot BMI on CDC growth chart
- Determine growth chart percentiles for height, weight, and BMI
- Introduction (build rapport)
- Present growth chart to patient
- Identify perceived risk (re: growth chart, weight gain, lab results)
- Discuss individual's nutrition-related goals
- What is their motivating factor? Readiness to change?
- Discuss previous weight management efforts. What were the barriers?
- Lifestyle and Psychosocial history
- Medications- Prescription and Over-the-Counter (OTC) dietary supplements (i.e. weight loss meds, lipase inhibitors, etc), other Rx
- Nutrition history: Conduct 24-hr recall (Is it reflective of usual intake?)
- Discuss strengths and weaknesses of usual diet
- Determine physical activity pattern(s) (PE, sports, recreational/leisure)
- Amount of sedentary time (TV, Computer, video games, reading)
- Determine Energy needs.

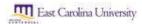
For children/adolescents older than >2 years, use Harris-Benedict formula:

Males: RMR = 66.5 + (13.75 x wt in kg) + (5 x ht in cm) - (6.8 x age in yrs)Females: RMR = 655 + (9.6 x wt in kg) + (1.8 x ht in cm) - (4.7 x age in yrs)

Activity Factors: 1.0 - 1.3 sedentary

*** For obese children up to age 6 (¼ - ½ pound/wk weight loss), subtract 125- 250 kcals/day. For obese children > 6 years, subtract up to 1000 calories/day to achieve no more than 2 lb/week weight loss. Daily energy intake should not be less than 900 calories for 6-12 years and 1200 calories for 13-18 years.

See table defining age-appropriate goals for weight loss. There currently is no published protocol to determine energy needs for this population. Protocol will be updated when national formula is implemented. Energy needs and assessment using above formula and activity factors determined after reviewing AMA and ADA recommendation and review of research. Recognize other formulas exist and used. However, based on clinical experience, this method of determining needs is best suited to this population at present.





Pediatric Medical Nutrition Therapy Protocol for Weight Management

EDUCATION

- Introduce appropriate nutrition prescription and meal plan.
- Provide patient with appropriate handouts, emphasis on Stoplight Guide.
- Focus on limiting sweetened beverages (soda, sweet tea, punches/koolaid, juice) to age appropriate AAP recommendations.
- Discuss sample meal and snack ideas (using foods the patient typically consumes). Discuss appropriate portion sizes.
- Provide a food diary to use at home (2 week days, 1 weekend day), as appropriate. Mention incentive to be provided upon return of completed diary.
- Refer patient to appropriate source to schedule follow-up.
- Complete documentation in medical chart (paper or electronic).
- Send chart note to referring physician (if applicable)

NUTRITION PRESCRIPTION

Usual nutrition prescription is modified carbohydrate meal planning: 40% Carbohydrate, 30% Protein, 30% Fat; (40-30-30); 45-25-30 may be also be appropriate depending on activity level.

Other nutrition prescriptions to consider:

- If child 12 years or older, and using prescription or OTC lipase inhibitors, Fat Gram Counting should be implemented.
- Refer to the ADA Evidence Analysis Library for evidence and contraindications regarding other dietary approaches.

ADDITIONAL EDUCATIONAL TOPICS AND EDUCATIONAL HANDOUTS

Daily Servings and Portion Sizes for the Preschool-aged Child

Lower Calorie, Lower Fat Alternatives

Dining Out-How to Choose

Food Preparation-What to Do

Recipes

My FIT! Pyramid

Food Group Servings for Children

Hunger Scale

Calcium

Together...Let's Try New Foods

Ideas for Helping Your Child Try New Foods

Modified Food Guide Pyramid (developed by ECU Family Medicine for use with 40/30/30 diet)

DASH and Modified DASH diet (developed by ECU Family Medicine)

Spanish Food Diary

Spanish Food Guide

Spanish Stoplight





Pediatric Medical Nutrition Therapy Protocol for Weight Management

ADDITIONAL RESOURCES

Patient Counseling Guidelines for Families with Overweight Children and Adolescents: Prevention, Detections, Assessment, and Management.

http://www.wellpoint.com/commitments/healthy_parenting.asp

A website designed to help physicians counsel families on how to introduce, model and reinforce positive health behavior in early childhood.

Helping Your Overweight Child, Weight-Control Information Network, NIH Publication No. 97-4096, updated June 2006. www.nlm.nih.gov/medlineplus/ency/article/001999.html
A handout with healthy tips for families; a family-approach to helping children achieve a healthy weight.

If My Child is Overweight, What Should I Do About It? By Joanne Ikeda. University of California, Division of Agriculture and Natural Resources, Publication 21455, Copyright 2004. A booklet for parents and guide to nutrition, physical activity, and parenting.

<u>www.mypyramid.gov</u>. A website that includes the USDA Dietary Guidelines for Americans, 2005. Information for families, healthcare providers, and includes and interactive website for children.

How to Get Your Child to Eat...But Not Too Much (1987), By: Ellyn Satter. \$16.95 ASIN# 0915950839 A guide for parents through all phases of childhood- newborn through adolescence. Topics range from "picky eaters" to parenting with healthy nutrition messages.

<u>www.bcm.tmc.edu/cnrc</u> is a link to the Children's Nutrition Research Center at Baylor College of Medicine. This site includes helpful tools to assess BMI and energy needs. There is also a link to the brochure, *Help Your Child with Successful Weight Management*.

<u>www.brightfutures.org</u> is a link to publications and training tools as part of BrightFutures at Georgetown University. Promotes partnerships among healthcare professionals, families, and communities to improve health and well being of infants, children, and adolescents.

www.eatsmartmovemorenc.com. A North Carolina statewide movement to promote increased opportunities for healthy eating and physical activity. Encourages community, school, business, and individual involvement.

<u>www.fittogethernc.org</u>. A joint initiative by NC Health and Wellness Trust Fund (HWTF) and Blue Cross Blue Shield NC (BCBSNC). Helps link NC communities, individuals, and families with tools to assess health risk and with ways to achieve and maintain a healthy weight and lifestyle.

http://www.ecu.edu/cs-dhs/pedsweightcenter/index.cfm
The link to the East Carolina University Pediatric Healthy Weight Research and Treatment Center. This site includes information about ECU's clinical and research programs, and links related to local, state and national information and data related to childhood obesity, nutrition, and physical activity.

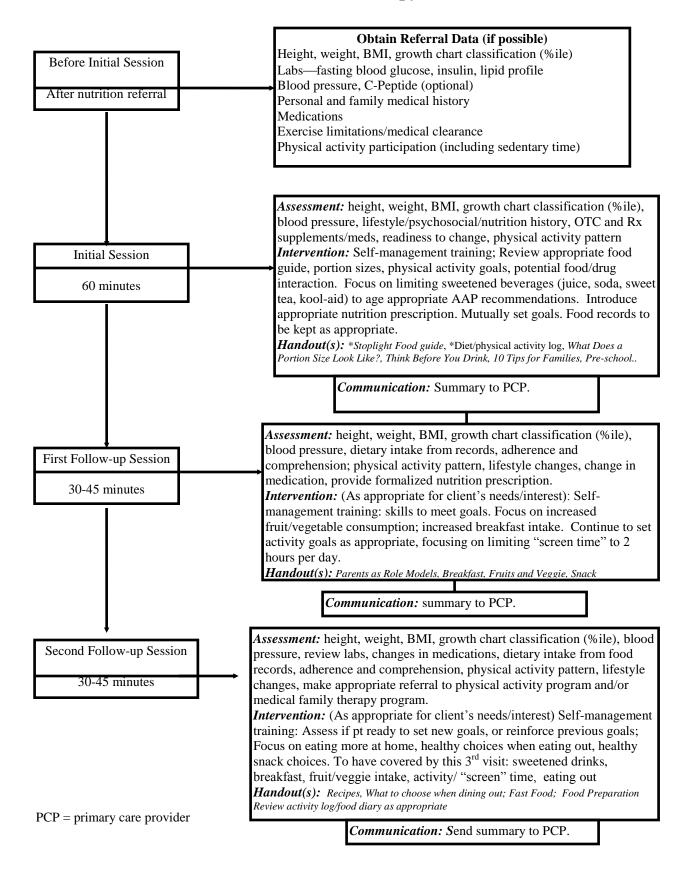
<u>www.adaevidencelibrary.com</u> A website for dietetic professionals who are members of the American Dietetic Association. Summaries of the best available research on dietetics and nutrition. Non- ADA members may access by signing up with a username and password.

<u>www.nichq.org</u>. The National Initiative for Children's Healthcare Quality (NICHQ). A link to the Childhood Obesity Action Network- which promotes partnerships among health professionals, public policy leaders, childhood obesity experts, and child health advocates.

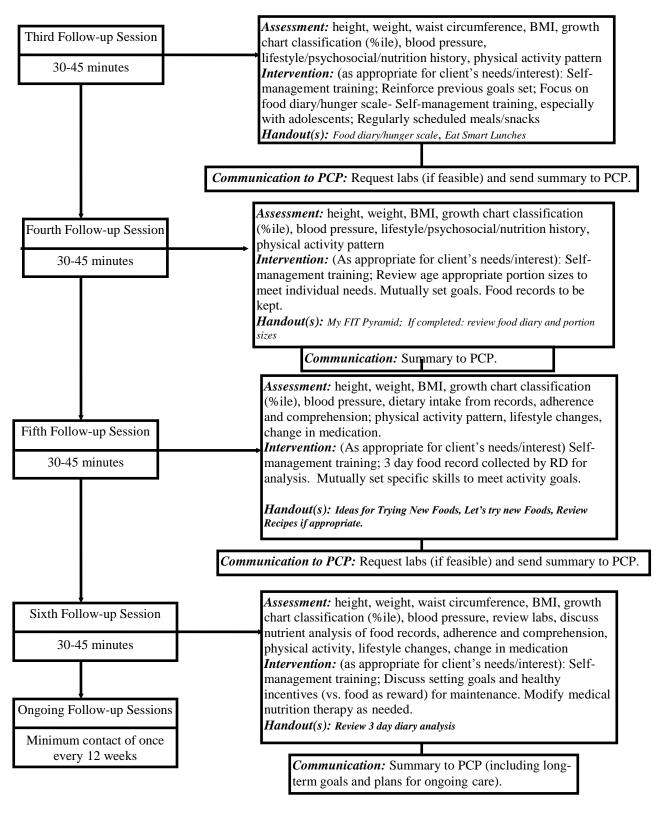




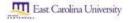
Pediatric Weight Management Medical Nutrition Therapy Protocol



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PCP = primary care provider







. Estimated Calorie Requirements (in Kilocalories) for Each Gender and Age Group at Three Levels of Physical Activitya

Estimated amounts of calories needed to maintain energy balance for various gender and age groups at three different levels of physical activity. The estimates are rounded to the nearest 200 calories and were determined using the Institute of Medicine equation.

			Activity Level ^{b,c,d}	
Gender	Age (years)	Sedentary ^b	Moderately Active ^c	Active ^d
Child	2-3	1,000	1,000-1,400 ^e	1,000-1,400 ^e
Female	4-8	1,200	1,400-1,600	1,400–1,800
	9–13	1,600	1,600-2,000	1,800-2,200
	14-18	1,800	2,000	2,400
	19-30	2,000	2,000-2,200	2,400
	31-50	1,800	2,000	2,200
	51+	1,600	1,800	2,000-2,200
Male	4-8	1,400	1,400-1,600	1,600-2,000
	9–13	1,800	1,800-2,200	2,000-2,600
	14-18	2,200	2,400-2,800	2,800-3,200
	19-30	2,400	2,600-2,800	3,000
	31–50	2,200	2,400-2,600	2,800-3,000
	51+	2,000	2,200-2,400	2,400–2,800

^a These levels are based on Estimated Energy Requirements (EER) from the Institute of Medicine Dietary Reference Intakes macronutrients report, 2002, calculated by gender, age, and activity level for reference-sized individuals. "Reference size," as determined by IOM, is based on median height and weight for ages up to age 18 years of age and median height and weight for that height to give a

Measurement	Date	My Value	Healthy Numbers
Blood Glucose or Blood Sugar (fasting)			Normal Impaired (pre-diabetes) 70-99 mg/dL 100-125 mg/dL
Lipids (fasting) Total Cholesterol LDL-C (Lousy) HDL-C (Healthy) Triglycerides			Acceptable Borderline High (mg/dL) (mg/dL) (mg/dL) (mg/dL) <170 170-199 ≥200 <110 110-129 ≥130 >40 Triglyceride (mg/dL) < 200 (see American Heart Association Scientific Position – Cholesterol and Atherosclerosis in Children, 2007)
Insulin (fasting)			Normal = 0-17 uU/mL
C-Peptide			Normal = 0.5-2.0 ng/mL
Blood Pressure - Gender, height, and weight are all considered and plotted before determining whether the child has high blood pressure.			Hypertension: <95 th percentile (based from gender, age, and height) Prehypertension: • 90-94 th percentile (based from gender, age, and height) • adolescents: >120/80
Body Mass Index (BMI) - measures body fatness			<85 th percentile (using gender and ageappropriate CDC growth charts)
Waist Circumference			< 90 th percentile for age and gender (see Peds.2004;145:439-444)

Blood must be drawn for glucose, lipid, insulin, and C-Peptide measurements. Urine is not used to evaluate any of the above measurements. Fasting means that no food or drink is consumed for 12 hours before the blood is drawn.

Nutrition and physical activity directly impact each of the above measurements. If you make an effort to eat smart and move more, your body will thank you.





Table 4: Signs and Symptoms of Conditions Associated with Obesity, Diagnosis and Referral Recommendations

Symptoms or Signs	Suspected Diagnosis	Appropriate Studies	Referral
Polydipsia, polyuria, weight loss, acanthosis nigricans	Type 2 Diabetes	Random glucose, fasting glucose, 2 hour GTT, urine ketones, HbA1c	Endocrine
Small stature (decreasing height velocity), goiter	Hypothyroidism	Free T4, TSH	Endocrine
Small stature (decreasing height velocity), purple striae, Cushinoid facies	Cushing's Syndrome	Serum cortisol, 24 hour urine free cortisol	Endocrine
Hirsutism, excessive acne, menstrual irregularity	Polycystic Ovary Syndrome	Bioavailable testosterone	Adolescent medicine or Endocrine
Abdominal pain	GE Reflux, Constipation, Gall Bladder Disease	Medication trial for suspected reflux or constipation, ultrasound for GB disease	Gastroenterology
Hepatomegaly, increased LFTs (ALT or AST >60 for ≥6 months)	Nonalcoholic Fatty Liver Disease	ALT, AST, bilirubin, alkaline phosphatase (also see Table 5)	Gastroenterology
Snoring, daytime somnolence, tonsillar hypertrophy, enuresis, headaches, elevated BP	Sleep Apnea, Hypoventilation Syndrome	Sleep Study	ENT or Pulmonology
Hip or knee pain, limp, limited hip range of motion, pain walking	Slipped Capital Femoral Epiphysis	X-rays of hip	Orthopedics
Lower leg bowing	Blount Disease	X-ray of lower extremities and knees	Orthopedics
Severe headaches, papilledema	Pseudotumor Cerebri	Head CT Scan	Neurology or Neurosurgery
Depression, school avoidance, social isolation, sleep disturbances	Depression	Validated depression screen (PSC, MFQ)	Psychiatry or Psychology
Binge eating, vomiting	Bulimia	Validated screen for eating disorder	Psychiatry, psychology, eating disorders center
Dysmorphic features, small hands and feet, small genitalia, no menses, undescended testes	Prader-Willi Syndrome	Chromosomes for Prader Willi Syndrome	Genetics

Table 5: Results Guide for Overweight and Obese Pediatric Patients

Test	Result	Action Plan
Fasting Glucose	<100	Recheck every 2 years.
	100, <126	Pre-diabetes. Provide counseling. Consider oral glucose tolerance test, fasting glucose, HbA1c. Recheck yearly.
	≥126	Refer to endocrine.
Oral GTT (2-hour) or Random Blood	<140	Recheck every 2 years, more frequently if weight gain continues/accelerates.
Sugar	≥140, <200	Pre-diabetes. Provide counseling. Consider referral to endocrine if risks present. Recheck every 2 years, more frequently if weight gain continues/accelerates.
	≥200	Refer to endocrine.
Hemoglobin A1c	≥7	Refer to endocrine. Note that this test is not routinely recommended.
Fasting LDL	<110	Repeat every 5 years.
	≥110, <130	Repeat in 1 year.
	≥130, <160	Obtain complete family history. Provide low cholesterol diet (AHA "Step 1" Diet). Recheck 1 year.
	≥160 w/risks, or any LDL ≥190	Refer to cardiology.
Fasting HDL	≥40	Routine care. Recheck every 2 years, more frequently if weight gain continues/accelerates.
	<40	Increase activity and omega-3 fats (flax/fish oil). Stop smoking. Decrease sugar intake. Recheck 1 year.
Fasting Triglycerides	<200	Routine care. Recheck every 2 years, more frequently if weight gain continues/accelerates.
	≥200, <500	Increase omega-3 intake. Decrease saturated fat, sugar. Recheck 1 year.
	≥500	Refer to cardiology.
BP, ages 3-19	<90th%ile	Routine care. Recheck annually.
 Plot percentile from BP table Must confirm with 3 separate measures	≥90th, <95th%ile, ≥120/80 any age (pre-htn)	Increase physical activity. Smoking cessation. DASH diet. If other risks or symptoms, consider BUN/Cr, UA and culture, renal u/s, ECG, fundoscopic exam. Recheck every 6 months.
	95th%ile, <99th%ile + 5 mm Hg (Stage 1 htn)	As above, + CBC, electrolytes (include BUN/Cr), UA and culture, ECG. Consider renal u/s, fundoscopic exam, renin. Refer to cardiology or nephrology (esp. if prepubertal). Consider pharmacotherapy. Recheck 1 month.
	≥99th%ile + 5 mm Hg (Stg 2 htn)	As above. Refer to cardiology or nephrology. Recheck within 1 week.
Always elicit sle		onsider sleep study to r/o OSA as cause of HTN
Liver function tests	ALT or AST ≥60, <200	Lifestyle modification. Recheck every 3 months.
	ALT or AST ≥60 x 6 months or ≥200 at any time	Refer to GI.



Pediatric Obesity

- 1. Assess Body Mass Index (BMI) in children ages 2-18 annually.
- 2. Plot BMI on gender-specific chart to determine BMI-for-age percentile.
- 3. Diagnose weight category (Table 1).
- 4. Identify risk (Table 2) and comorbidities (Table 4).
- 5. History and physical exam, blood pressure, appropriate laboratory tests and referrals (Tables 3, 5).
- 6. Share prevention messages (5-3-2-1-Almost None).

Assessment and Counseling Tips

Assess current behaviors (consider using questionnaires).

- Eating behaviors
- Fruit and vegetable consumption
- Breakfast consumption (frequency and quality)
- Frequency of family meals prepared at home
- Sugar-sweetened beverage consumption (soda, tea, energy drinks)
- Excess juice consumption (>4-6 oz/day for age 1-6 yrs, >8-12 oz/ day for age 7+ yrs)
- Frequency of eating food bought away from home (esp. fast food)
- Portion sizes of meals and snacks
- Atypical eating/nutrition behaviors
- Physical activity behaviors
 - Amount of TV and other screen time and sedentary activities
 - Amount of daily physical activity
 - Role of environmental barriers and accessibility

Assess motivation and attitudes

- Are you concerned about your/your child's weight?
- On a scale of 0 to 10, how important is it for you/child/family to change [specific behavior] or to lose weight?
- On a scale of 0 to 10, how confident are you that you/he/she could succeed?

Summarize and probe possible changes

Prevention Messages: 5-3-2-1-Almost None

- 5 or more servings of fruits and vegetables daily
- **3** structured meals daily—eat breakfast, less fast food, and more meals prepared at home
- 2 hours or less of TV or video games daily
- 1 hour or more of moderate to vigorous physical activity daily

Almost None: Limit sugar-sweetened beverages to "almost none"

Adapted from the 5-2-1-0 message promoted by the National Initiative for Children's Healthcare Quality (www.nichq.org)

Pediatric Obesity Prevention and Treatment Algorithm

BMI 5th to <85th percentile BMI 85th to <95th percentile without risk factors

Prevention Counseling: Primary Care Office

- Assessment and counseling
- Reinforce healthy behaviors
- Identify problem behaviors and elicit solutions from family
- Assess motivation and attitudes
- Deliver consistent evidence-based messages regardless of weight (e.g. 5-3-2-1-Almost None)
- Actively engage whole family
- Encourage authoritative parenting style (not restrictive)

Re-evaluate annually

ADDITIONAL RESOURCES

- BMI Calculator and Patient Education Materials: http://www.eatsmartmovemorenc.com/ programs tools/healthcare/index.html
- BP Norms for Age: www.nhlbi.nih.gov/ guidelines/hypertension/child_tbl.pdf
- Additional Recommendations and Tools: National Initiative for Children's Healthcare Quality, www.nichq.org

BMI 85th to <95th percentile with risk factors 95th to <99th percentile

BMI ≥99th percentile (age 6+, consider starting at Step 2-3)

Step 1 Treatment: Primary Care Office

- Assessment and counseling*
- Explore/acknowledge possible roles of negative body image, low self esteem, and social isolation
- Motivational Interviewing
- Family visits with clinician recommend every 1-3 months
- 5-3-2-1-Almost None messages
- Actively engage whole family in lifestyle changes
- Weight goal: initially weight maintenance, then reduce BMI to <85th percentile

*Consider limitations and accommodations due to developmental disabilities (physical, intellectual, and cognitive) in some children.

No improvement or stabilization from Step 1 Treatment in 3-6 months

Step 2 Treatment: Primary Care Office with Support

- Assessment and counseling*
- Explore/acknowledge possible roles of negative body image, low self esteem, and social isolation
- Motivational Interviewing
- Family visits with clinician trained in weight management—recommend monthly
- 5-3-2-1-Almost None messages
- Monitor behaviors through diet and activity logs
- Meal plans created by Registered Dietitian or clinician with nutrition training
- Actively engage whole family in lifestyle changes

- Community-based programs
- —County contacts listed at www.EatSmartMoveMore NC.com
- —Parent support groups
- —Individual or family cognitive behavior therapy
- Weight goal: weight maintenance, with lower BMI as age and height increase

*Consider limitations and accommodations due to developmental disabilities (physical, intellectual, and cognitive) in some children.

No improvement or stabilization from Step 2 Treatment in 3-6 months

Step 3 Treatment: Comprehensive, Multidisciplinary Program or Tertiary Care Center

- Evaluation and follow-up with multidisciplinary team experienced in pediatric weight management
- Weekly visits for 8-12 weeks
- Weight goal: weight maintenance or gradual weight loss
- Other treatment options: medication, very low calorie diet (under direct medical supervision), bariatric surgery

An Implementation Guide from the Childhood Obesity Action Network, available

An Implementation Guide from the Childhood Obesity Action Network, available at http://www.nichq.org/NR/rdonlyres/7CF2C1F3-4DA3-4A00-AE15-4E35967F3571/5316/COANImplementationGuide62607FINAL.pdf, accessed 3/19/08

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National High Blood Pressure Education Program Working Group on High Blood Pressure in Children and Adolescents. The fourth report on the diagnosis, evaluation, and treatment of high blood pressure in children and adolescents. *Pediatrics* 2004; 114:555-76.

Newman TB and Garber AM. Cholesterol screening in children and adolescents. *Pediatrics* 2000; 105:637-8.

Williams CL, Hayman LL, Daniels SR, Robinson TN, Steinberger J, Paridon S et al. Cardiovascular health in childhood: A statement for health professionals from the committee on atherosclerosis, hypertension, and obesity in the young (AHOY) of the council on cardiovascular disease in the young, American Heart Association. Circulation 2002; 106:143-60.

Table 1: Weight Category by BMI*-for-Age Percentile

<5th percentile	Underweight
5th percentile to <85th percentile	Healthy Weight
85th percentile to <95th percentile	Overweight
95th percentile to <99th percentile (or BMI >30)	Obese
≥99th percentile	Obese with Increased Risk

*Accurate BMI assessment depends on accurate height and weight measurements, which may be difficult to obtain in some children with disabilities.

Table 2: Risk Factors for Comorbidities and Future Obesity

Personal Risk Factors	Risk Factors from Family History
 Elevated blood pressure Ethnicity: African American, Mexican-American, Native American, Pacific Islander Puberty Medications associated with weight gain (steroids, anti-psychotics, 	 Type 2 Diabetes Hypertension High cholesterol Obese parents(s) Mother with Gestational Diabetes Family member with early death from heart disease or stroke
antiepileptics)Acanthosis NigricansBirth history of SGA or LGADisabilities	Heart disease of Stroke

Table 3: Laboratory Evaluation Recommendations

Age	BMI	Risk Factors	Action Plan
<10 years	≥85th %ile	N/A	Consider fasting lipids
≥10 years	85th to <95th %ile	No risk factors or symptoms	Consider fasting lipids
		≥2 risk factors	Biannually: fasting lipid profile, fasting glucose, consider ALT and AST
	≥95th %ile	N/A	Biannually: fasting lipid profile, fasting glucose, ALT and AST, other tests indicated by history and physical

Name of Practice/Clinician Address #1 Address #2

Name: _______
Date:

5-3-2-1-Almost None

5 or more servings of fruits and vegetables daily

3 structured meals daily eat breakfast, less fast food, and more meals prepared at home

2 hours or less of TV or video games daily

1 hour or more of moderate to vigorous physical activity daily

Almost Limit sugar-sweetened drinks
None to "almost none"

Adapted from the 5-2-1-0 message promoted by the National Initiative for Children's Healthcare Quality (www.nichq.org)



Name of Practice/Clinician Address #1 Address #2

Name:			
		_	

5-3-2-1-Almost None

5 or more servings of fruits and vegetables daily

3 structured meals daily eat breakfast, less fast food, and more meals prepared at home

2 hours or less of TV or video games daily

1 hour or more of moderate to vigorous physical activity daily

Almost Limit sugar-sweetened drinks
None to "almost none"

Adapted from the 5-2-1-0 message promoted by the National Initiative for Children's Healthcare Quality (www.nichq.org)





Prescription for Health

Name: _	
	Date

5-3-2-1-Almost None

5 or more servings of fruits and vegetables daily

3 structured meals daily eat breakfast, less fast food, and more meals prepared at home

2 hours or less of TV or video games daily

1 hour or more of moderate to vigorous physical activity daily

Almost Limit sugar-sweetened drinks None to "almost none"



Prescription for Health

Name: _	
	Date:

5-3-2-1-Almost None

5 or more servings of fruits and vegetables daily

3 structured meals daily eat breakfast, less fast food, and more meals prepared at home

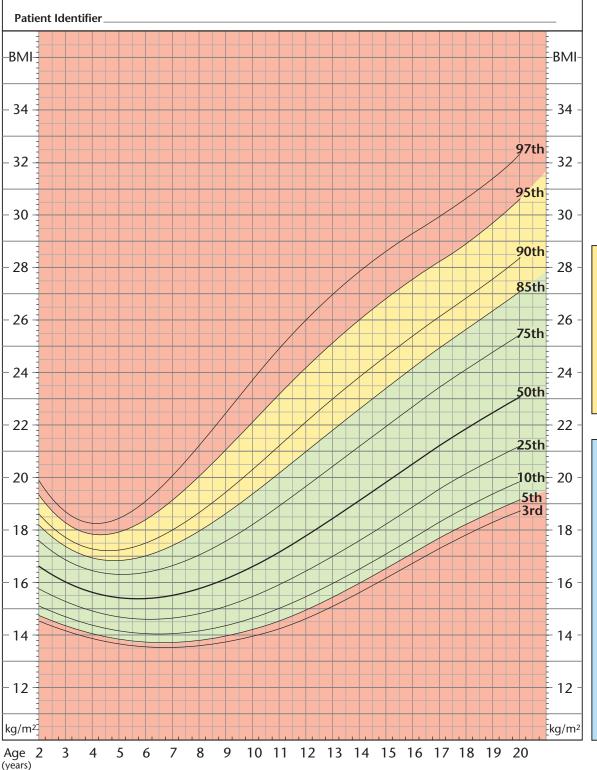
2 hours or less of TV or video games daily

1 hour or more of moderate to vigorous physical activity daily

Almost Limit sugar-sweetened drinks
None to "almost none"



Body Mass Index 2 to 20 years





To calculate BMI:

Kilograms and meters: weight (kg) / [height (m)]²

Pounds and inches: weight (lb) / [height (in)]² x 703

BOYS: 99th percentile cut-points

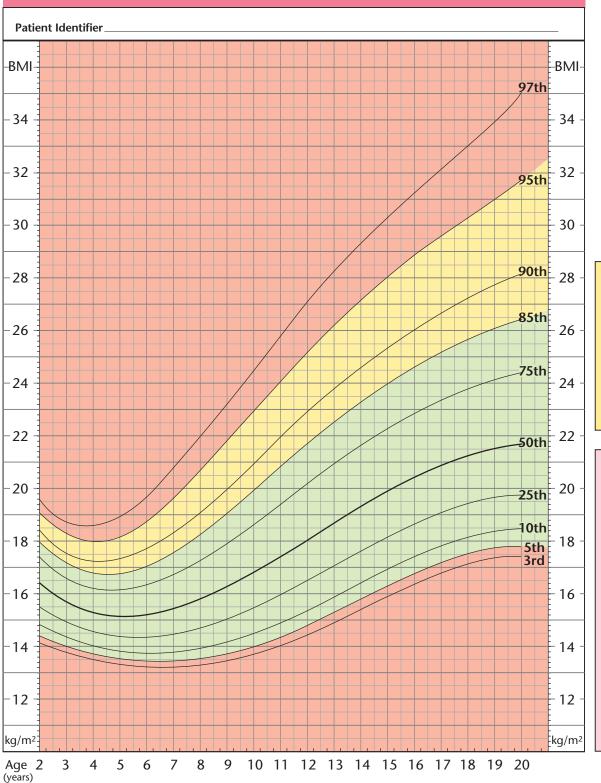
AGE	BMI
5	20.1
6	21.6
7	23.6
8	25.6
9	27.6
10	29.3
11	30.7
12	31.8
13	32.6
14	33.2
15	33.6
16	33.9
17	34.4

From National Initiative for Children's Healthcare Quality (www.nichq.org)

Color coding of the 2000 CDC BMI charts by UNC's Department of Pediatrics and Center for Health Promotion and Disease Prevention (CDC Cooperative agreement U48-DP-000059) for research and clinical purposes



Body Mass Index 2 to 20 years



To calculate BMI:

Kilograms and meters:

weight (kg) / [height (m)]²

Pounds and inches: weight (lb) / [height (in)]² x 703

GIRLS: 99th percentile cut-points

AGE	BMI
5	21.5
6	23.0
7	24.6
8	26.4
9	28.2
10	29.9
11	31.5
12	33.1
13	34.6
14	36.0
15	37.5
16	39.1
17	40.8
om Nation	nal Initiative

From National Initiative for Children's Healthcare Quality (www.nichq.org)

Blood Pressure Levels by Age and Height Percentile



Age (Year)	BP Percentile				LIC BP					[DIASTO Percei	LIC BP			
		5th	10th	25th	50th	75th	90th	95th	5th	10th	25th	50th	75th	90th	95th
1	50th	83	84	85	86	88	89	90	38	39	39	40	41	41	42
	90th	97	97	98	100	101	102	103	52	53	53	54	55	55	56
	95th	100	101	102	104	105	106	107	56	57	57	58	59	59	60
	99th	108	108	109	111	112	113	114	64	64	65	65	66	67	67
2	50th	85	85	87	88	89	91	91	43	44	44	45	46	46	47
	90th	98	99	100	101	103	104	105	57	58	58	59	60	61	61
	95th	102	103	104	105	107	108	109	61	62	62	63	64	65	65
	99th	109	110	111	112	114	115	116	69	69	70	70	71	72	72
3	50th	86	87	88	89	91	92	93	47	48	48	49	50	50	51
	90th	100	100	102	103	104	106	106	61	62	62	63	64	64	65
	95th	104	104	105	107	108	109	110	65	66	66	67	68	68	69
	99th	111	111	113	114	115	116	117	73	73	74	74	75	76	76
4	50th	88	88	90	91	92	94	94	50	50	51	52	52	53	54
	90th	101	102	103	104	106	107	108	64	64	65	66	67	67	68
	95th	105	106	107	108	110	111	112	68	68	69	70	71	71	72
	99th	112	113	114	115	117	118	119	76	76	76	77	78	79	79
5	50th	89	90	91	93	94	95	96	52	53	53	54	55	55	56
	90th	103	103	105	106	107	109	109	66	67	67	68	69	69	70
	95th	107	107	108	110	111	112	113	70	71	71	72	73	73	74
	99th	114	114	116	117	118	120	120	78	78	79	79	80	81	81
6	50th	91	92	93	94	96	97	98	54	54	55	56	56	57	58
	90th	104	105	106	108	109	110	111	68	68	69	70	70	71	72
	95th	108	109	110	111	113	114	115	72	72	73	74	74	75	76
	99th	115	116	117	119	120	121	122	80	80	80	81	82	83	83
7	50th	93	93	95	96	97	99	99	55	56	56	57	58	58	59
	90th	106	107	108	109	111	112	113	69	70	70	71	72	72	73
	95th	110	111	112	113	115	116	116	73	74	74	75	76	76	77
	99th	117	118	119	120	122	123	124	81	81	82	82	83	84	84
8	50th	95	95	96	98	99	100	101	57	57	57	58	59	60	60
	90th	108	109	110	111	113	114	114	71	71	71	72	73	74	74
	95th	112	112	114	115	116	118	118	75	75	75	76	77	78	78
	99th	119	120	121	122	123	125	125	82	82	83	83	84	85	86
9	50th	96	97	98	100	101	102	103	58	58	58	59	60	61	61
	90th	110	110	112	113	114	116	116	72	72	72	73	74	75	75
	95th	114	114	115	117	118	119	120	76	76	76	77	78	79	79
	99th	121	121	123	124	125	127	127	83	83	84	84	85	86	87
10	50th	98	99	100	102	103	104	105	59	59	59	60	61	62	62
	90th	112	112	114	115	116	118	118	73	73	73	74	75	76	76
	95th	116	116	117	119	120	121	122	77	77	77	78	79	80	80
	99th	123	123	125	126	127	129	129	84	84	85	86	86	87	88

Blood Pressure Levels by Age and Height Percentile for GIRLS (Continued)

Age (Year)	BP Percentile					(mmH f Heigh						LIC BP			
		5th	10th	25th	50th	75th	90th	95th	5th	10th	25th	50th	75th	90th	95th
11	50th	100	101	102	103	105	106	107	60	60	60	61	62	63	63
	90th	114	114	116	117	118	119	120	74	74	74	75	76	77	77
	95th	118	118	119	121	122	123	124	78	78	78	79	80	81	81
	99th	125	125	126	128	129	130	131	85	85	86	87	87	88	89
12	50th	102	103	104	105	107	108	109	61	61	61	62	63	64	64
	90th	116	116	117	119	120	121	122	75	75	75	76	77	78	78
	95th	119	120	121	123	124	125	126	79	79	79	80	81	82	82
	99th	127	127	128	130	131	132	133	86	86	87	88	88	89	90
13	50th	104	105	106	107	109	110	110	62	62	62	63	64	65	65
	90th	117	118	119	121	122	123	124	76	76	76	77	78	79	79
	95th	121	122	123	124	126	127	128	80	80	80	81	82	83	83
	99th	128	129	130	132	133	134	135	87	87	88	89	89	90	91
14	50th	106	106	107	109	110	111	112	63	63	63	64	65	66	66
	90th	119	120	121	122	124	125	125	77	77	77	78	79	80	80
	95th	123	123	125	126	127	129	129	81	81	81	82	83	84	84
	99th	130	131	132	133	135	136	136	88	88	89	90	90	91	92
15	50th	107	108	109	110	111	113	113	64	64	64	65	66	67	67
	90th	120	121	122	123	125	126	127	78	78	78	79	80	81	81
	95th	124	125	126	127	129	130	131	82	82	82	83	84	85	85
1.6	99th	131	132	133	134	136	137	138	89	89	90	91	91	92	93
16	50th	108	108	110	111	112	114	114	64	64	65	66	66	67	68
	90th	121	122	123	124	126	127	128	78	78	79	80	81	81	82
	95th	125	126	127	128	130	131	132	82	82	83	84	85	85	86
17	99th	132	133	134	135	137	138	139	90	90	90	91	92	93	93
17	50th	108	109	110	111	113	114	115	64	65	65	66	67	67	68
	90th	122	122	123	125	126	127	128	78	79	79	80	81	81	82
	95th	125	126	127	129	130	131	132	82	83	83	84	85	85	86
	99th	133	133	134	136	137	138	139	90	90	91	91	92	93	93

BP = blood pressure

The 90th percentile is 1.28 SD, 95th percentile is 1.645 SD, and the 99th percentile is 2.326 SD over the mean.

National High Blood Pressure Education Program Working Group on High Blood Pressure in Children and Adolescents. The fourth report on the diagnosis, evaluation, and treatment of high blood pressure in children and adolescents.
Pediatrics 2004; 114:555-76.





Age (Year)	BP Percentile		SYSTOLIC BP (mmHg) Percentile of Height							[DIASTO Percer	LIC BP			
		5th	10th	25th	50th	75th	90th	95th	5th	10th	25th	50th	75th	90th	95th
1	50th	80	81	83	85	87	88	89	34	35	36	37	38	39	39
	90th	94	95	97	99	100	102	103	49	50	51	52	53	53	54
	95th	98	99	101	103	104	106	106	54	54	55	56	57	58	58
	99th	105	106	108	110	112	113	114	61	62	63	64	65	66	66
2	50th	84	85	87	88	90	92	92	39	40	41	42	43	44	44
	90th	97	99	100	102	104	105	106	54	55	56	57	58	58	59
	95th	101	102	104	106	108	109	110	59	59	60	61	62	63	63
	99th	109	110	111	113	115	117	117	66	67	68	69	70	71	71
3	50th	86	87	89	91	93	94	95	44	44	45	46	47	48	48
	90th	100	101	103	105	107	108	109	59	59	60	61	62	63	63
	95th	104	105	107	109	110	112	113	63	63	64	65	66	67	67
	99th	111	112	114	116	118	119	120	71	71	72	73	74	75	75
4	50th	88	89	91	93	95	96	97	47	48	49	50	51	51	52
	90th	102	103	105	107	109	110	111	62	63	64	65	66	66	67
	95th	106	107	109	111	112	114	115	66	67	68	69	70	71	71
	99th	113	114	116	118	120	121	122	74	75	76	77	78	78	79
5	50th	90	91	93	95	96	98	98	50	51	52	53	54	55	55
	90th	104	105	106	108	110	111	112	65	66	67	68	69	69	70
	95th	108	109	110	112	114	115	116	69	70	71	72	73	74	74
	99th	115	116	118	120	121	123	123	77	78	79	80	81	81	82
6	50th	91	92	94	96	98	99	100	53	53	54	55	56	57	57
	90th	105	106	108	110	111	113	113	68	68	69	70	71	72	72
	95th	109	110	112	114	115	117	117	72	72	73	74	75	76	76
	99th	116	117	119	121	123	124	125	80	80	81	82	83	84	84
7	50th	92	94	95	97	99	100	101	55	55	56	57	58	59	59
	90th	106	107	109	111	113	114	115	70	70	71	72	73	74	74
	95th	110	111	113	115	117	118	119	74	74	75	76	77	78	78
	99th	117	118	120	122	124	125	126	82	82	83	84	85	86	86
8	50th	94	95	97	99	100	102	102	56	57	58	59	60	60	61
	90th	107	109	110	112	114	115	116	71	72	72	73	74	75	76
	95th	111	112	114	116	118	119	120	75	76	77	78	79	79	80
	99th	119	120	122	123	125	127	127	83	84	85	86	87	87	88
9	50th	95	96	98	100	102	103	104	57	58	59	60	61	61	62
	90th	109	110	112	114	115	117	118	72	73	74	75	76	76	77
	95th	113	114	116	118	119	121	121	76	77	78	79	80	81	81
	99th	120	121	123	125	127	128	129	84	85	86	87	88	88	89
10	50th	97	98	100	102	103	105	106	58	59	60	61	61	62	63
	90th	111	112	114	115	117	119	119	73	73	74	75	76	77	78
	95th	115	116	117	119	121	122	123	77	78	79	80	81	81	82
	99th	122	123	125	127	128	130	130	85	86	86	88	88	89	90

Blood Pressure Levels by Age and Height Percentile for BOYS (Continued)

Age (Year)	BP Percentile		SYSTOLIC BP (mmHg) Percentile of Height						DIASTOLIC BP (mmHg) Percentile of Height						
		5th	10th	25th	50th	75th	90th	95th	5th	10th	25th	50th	75th	90th	95th
11	50th	99	100	102	104	105	107	107	59	59	60	61	62	63	63
	90th	113	114	115	117	119	120	121	74	74	75	76	77	78	78
	95th	117	118	119	121	123	124	125	78	78	79	80	81	82	82
	99th	124	125	127	129	130	132	132	86	86	87	88	89	90	90
12	50th	101	102	104	106	108	109	110	59	60	61	62	63	63	64
	90th	115	116	118	120	121	123	123	74	75	75	76	77	78	79
	95th	119	120	122	123	125	127	127	78	79	80	81	82	82	83
	99th	126	127	129	131	133	134	135	86	87	88	89	90	90	91
13	50th	104	105	106	108	110	111	112	60	60	61	62	63	64	64
	90th	117	118	120	122	124	125	126	75	75	76	77	78	79	79
	95th	121	122	124	126	128	129	130	79	79	80	81	82	83	83
	99th	128	130	131	133	135	136	137	87	87	88	89	90	91	91
14	50th	106	107	109	111	113	114	115	60	61	62	63	64	65	65
	90th	120	121	123	125	126	128	128	75	76	77	78	79	79	80
	95th	124	125	127	128	130	132	132	80	80	81	82	83	84	84
	99th	131	132	134	136	138	139	140	87	88	89	90	91	92	92
15	50th	109	110	112	113	115	117	117	61	62	63	64	65	66	66
	90th	122	124	125	127	129	130	131	76	77	78	79	80	80	81
	95th	126	127	129	131	133	134	135	81	81	82	83	84	85	85
1.0	99th	134	135	136	138	140	142	142	88	89	90	91	92	93	93
16	50th	111	112	114	116	118	119	120	63	63	64	65	66	67	67
	90th 95th	125 129	126 130	128 132	130 134	131 135	133 137	134 137	78 82	78 83	79 83	80 84	81 85	82 86	82 87
	93th	136	137	132	134	143	144	145	90	90	91	92	93	94	67 94
17	50th	114	115	116	118	120	121	122	65	66	66	67	68	69	70
17	90th	127	128	130	132	134	135	136	80	80	81	82	83	84	84
	95th	131	132	134	136	134	139	140	84	85	86	87	87	88	89
	99th	139	140	141	143	145	146	147	92	93	93	94	95	96	97
	77111	139	140	141	143	143	140	14/	72	73	73	74	73	70	71

BP = blood pressure

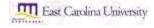
The 90th percentile is 1.28 SD, 95th percentile is 1.645 SD, and the 99th percentile is 2.326 SD over the mean.

National High Blood Pressure Education Program Working Group on High Blood Pressure in Children and Adolescents. The fourth report on the diagnosis, evaluation, and treatment of high blood pressure in children and adolescents.
Pediatrics 2004; 114:555-76.



90th Percentile Waist Circumference for Boys and Girls

	*90 th Percentile		*90 th Percentile	
	for Boys		for Girls	
Age	Inches	Cm	Inches	Cm
(years)	20.0	50.8	20.6	52.2
3	21.3	54.2	21.8	55.3
4	22.7	57.6	22.9	58.3
5	24.0	61.0	24.2	61.4
6	25.4	64.4	25.4	64.4
7	26.7	67.8	26.6	67.5
8	28.03	71.2	27.8	70.5
9	29.4	74.6	28.9	73.6
10	30.7	78.0	30.2	76.6
11	32.04	81.4	31.4	79.7
12	33.4	84.8	32.6	82.7
13	34.7	88.2	33.8	85.8
14	36.1	91.6	34.9	88.8
15	37.4	95.0	36.2	91.9
16	38.7	98.4	37.4	94.9
17	40.1	101.8	38.6	98.0
18	41.4	105.2	39.8	101.0





As adapted from Fernandez et al. Peds 2004;145:439-444.

* Although there is no set standard, the 90th percentile is typically considered overweight and may be correlated with risk of disease to include cardiovascular disease, hyperinsulinemia, and type 2 diabetes.

Name:	Physician:	DOB:/
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Food Diary Instructions (example diary is shown below):

- Choose three consecutive, typical days to record. Include two weekdays and 1 weekend day. For example: Thursday, Friday, and Saturday.
- 2. Record *all* foods and beverages (including water) that are consumed.
- List portion sizes of all foods and beverages. Be as specific as possible. For example: 2
 ounces of chicken breast, ¼ cup mashed potatoes, 8 ounces orange juice. Estimate
 meat portions after cooking.
- 4. List brand names of foods if known.
- 5. Describe how each food is prepared. (For example, fried chicken, scrambled eggs, and roasted pork.)
- 6. Record any "extras"/condiments used and amount. (For example, 1 tablespoon mayonnaise, 1 teaspoon butter, 2 tablespoons Italian salad dressing).
- 7. List any snacks (foods and beverages) consumed in between meals.
- 8. If you eat away from home, list the name of the restaurant.
- If a combination food was consumed (such as a casserole, salad, or stew), please list all ingredients and the total amount consumed.

Time	Amount	Food	How Prepared	Where Consumed
7:00 AM	2 cups	Honey-nut Cheerios	n/a	kitchen
	1 1/2 cups	2% milk	n/a	kitchen
	8 oz.	apple juice	n/a	kitchen
	1/2 piece	Wonder White bread	toasted	kitchen
	1/2 tsp.	Promise margarine, regular	n/a	kitchen
	1 tsp.	Smucker's grape jelly	n/a	kitchen
10:00 AM	1	medium apple	n/a	break room
12:30 PM	1	Chicken-Supreme Burrito	n/a	Taco Bell
	1	Beef Soft Taco	n/a	Taco Bell
	16 oz.	Dr. Pepper	n/a	Taco Bell
4:00 PM	1 pkg. (6 crackers)	Lance peanut butter/cheese crackers	prepackaged	home
	12 oz.	water	n/a	home
7:15 PM	4 oz.	chicken breast (no marinade)	grilled	home
	1/2 cup	Ragu alfredo sauce	heated-stove top	home
	1 1/2 cups	spaghetti noodles	boiled in water	home
	1/2 cups	tossed salad (iceburg lettuce, tomatoes)	n/a	home
	2 tbsp.	Kraft fat-free Italian dressing	n/a	home
	8 oz.	lemonade	prepackaged	home
9:00 PM	1/2 cup	Del Monte fruit cocktail (lite syrup)	prepackaged	home





FOOD DIARY

Name:	 	
Date:		

Time	Food	Amount	Brand	How Prepared	Where
			Name		Consumed









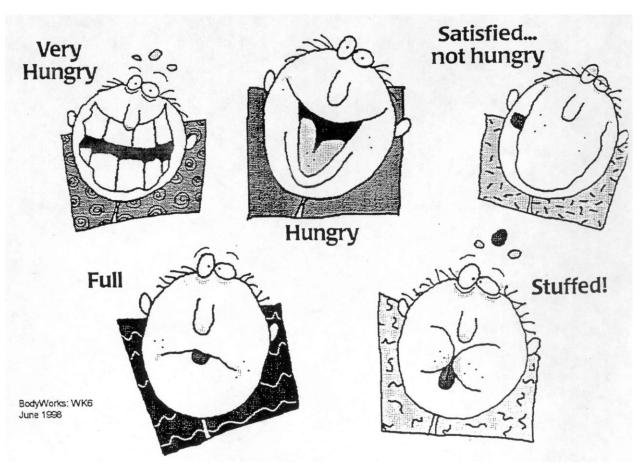
Hunger Scale

Most of us eat when we aren't hungry some of the time. Instead of listening to our body's sign of hunger, we eat for other reasons. Sometimes we start eating because it's time to eat, or it's our favorite food. Sometimes our feelings trigger us to eat when we aren't hungry.

For some of us, once we start eating, it is hard to stop. Overeating may be a habit, but overeating can also be triggered by our feelings, the great taste of a favorite food or watching TV while eating.

Try listening to your body's signs of hunger and fullness. Use the HUNGER SCALE to make a note of your hunger before you start and right after you stop eating. Write down how hungry you feel before you start eating – very hungry, hungry, not hungry, and then how you feel when you stop eating – satisfied, full, or stuffed.

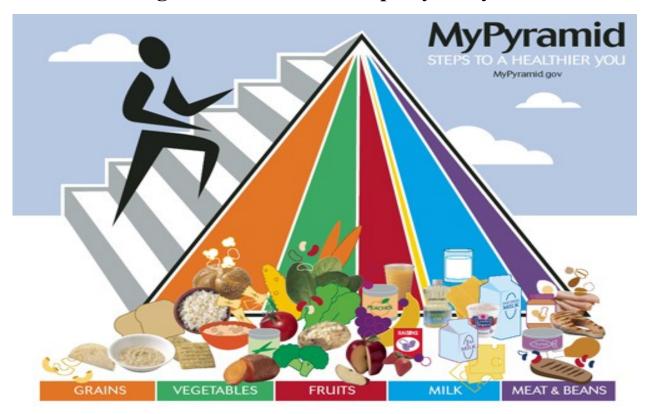
The goal is to learn to eat only when you are hungry and to stop when you are satisfied. This takes practice. Try to be honest with yourself and in touch with your feelings of hunger and fullness.







MyFIT Pyramid – Servings of Each Food Group My Body Needs



Breads, Cereals and Grains:

Fruits:

Milk and Milk Meat and Meat Alternatives:

Servings Needed:

1 serving= 1 serving= 1 serving= 1 serving= 1 serving= 1 slice bread 1/2 c raw or cooked 1/2 c fruit 8 oz milk 2-3 oz meat, fish 1/2 c cereal, rice, pasta vegetables 4-6oz 100% 8 oz yogurt poultry 2 tbs peanut butter 1/2 mini bagel, roll, bun 1 c salad, green leafy fruit juice 1 oz cheese 2 eggs

Food Group	Servings Eaten Today	Servings Goal	Eat More Servings	Eat Fewer Servings
Bread	,		, , , , , , , , , , , , , , , , , , ,	
Vegetables				
Fruit				
Milk & Milk Products				
Meat & Meat Alternatives				
Extras				
Scores				





Medical Nutrition Therapy Service Components Initial Evaluation and Counseling

* Please note this form has been developed as a comprehensive Medical Nutrition Therapy Assessment. The topics that have been bolded and italicized indicate the minimum requirements for Medicaid billing and reimbursement.

Demographics:			
Name:			
Date of Birth:	<i>Age</i> : years	mont	ths
<i>Gender</i> : MF	Race/Ethnic Background:		
Current Phone Numbers:	(Home)	(Work)	(Cell)
Parent/Guardian Name:			
Relationship of Guardian t	patient:		
. Medical Management			
A. Medical history			
 Patient's primary physicia 	n:		
	ell-child visit		
	-child visit.		
 Do you have any medical a 	ppointments scheduled for your child?	Yes	No
Reason: Well-child v	sit Sick visitFollow-up visit	Other	
Scheduled date:	Time:		
• Does your child have any	of the following medical conditions?		Medications
Asthma		YesNo	O
Diabetes			0
Type I			O
* *			
	nency		
Meter Bran	l:		
	ge values over past week:		
	Highest Blood Sugar over past week		
	C value:		
Type II		Yes N	0
* *	iency		
Meter Bran	l:		
FSBS avera	ge values over past week:		
	Highest Blood Sugar over past week		
	C value:		
High Blood Pressure		Yes N	0
High Cholesterol	•		o
High Triglycerides	•		o
Hyperinsulinemia (Too mu	h insulin production))
			o
Skin Tags	cits resistant to the action of mount)	1 Co IN	

		Yes_			
	Sleep Apnea	Yes	No _		
	If yes, does your child use a CPAP machine?		No		
			No		
	Does your child fall asleep during the day or at school?				
			No		
	If yes, what type of problem	110			-
	Is your child receiving treatment for this problem?	Vac	No		
		168	110		
	If so, what kind treatment?	3 7	NI -		
			No _		
			No _		
	Other Medical Conditions				
	Other medications				
	D 1411 H ' 9		37	NT	
•	Does your child have allergies?		Yes _		
	Food Environment Medication Other _				
	If yes, explain.				
•	Do you currently have any concerns regarding your child's health?		Yes _	_No	
	If yes, please comment:				
•	Has your child been given a prescription by the doctor for a special			_No	
	 If so, what is your child's special diet? 				
•	Has your child been given a prescription by the doctor for a exercise			_No	
	 If so, what is your child's special exercise prescription? Has your doctor cleared your child for physical activity? 		Yes	No	
	o If no, explain restrictions			_1,0	
	Getting to Know Your Child				
	Do you know your child's Body Mass Index (BMI)? Yes	No	`		
	If yes, what is your child's most recent BMI? BMI	Percen	, tile:		
	Did your doctor discuss your child's BMI chart with you?	Voc	No		_
	2 Over the last 6 months, has your shild's weight:	1 65 _	110		
	2. Over the last 6 months, has your child's weight:	4-		la)	
	Increased (Amount: pounds) Decreased (Amou	mt:	pound	is)	
	Stayed the same Unsure	• /1	. 1.0	T 7	
	3. Do think your child is overweight/obese or has a problem with h				
	What are your feelings about this problem?4. What have you done in the past to help your child control his/her				
	4. What have you done in the past to help your child control his/he	r weigh	t?		
	5 Hl. 1.0				
	5. How long has your child been overweight?	1.71	-		
	Since infancy (0-12 months) Since early childh	,	•		
	Since childhood (6-12 years) Since a teenager (13 year	s or older		
P_{s}	sychosocial history				
•	Family Information				
	Mother/Guardian Name:				
	Mother/Guardian Work Number:Work Locat	ion:			
	Father Work Number: Work Location:				
	 Father Name: Work Location: If we need to reach you, is it OK to leave a message at your 	home n	umber?	Yes	No
	O Is it OK to contact you at your work number? Yes	No			_

B.

Names ages and relation of at	
	thers living in the home*
(* Place a star beside the name	of any person living in the home that is has a problem with weight
Who does the patient spend mo	ost of his/her time with?
Where does the patient eat mos	ost of his/her time with?st meals and snacks when not in school?
	e health and nutrition education?
Verbal Wri	tten handouts Pictures Other (Explain:
School Information	
School:	Homeroom Teacher:
School Nurse:	
How are your child's grades? Has your child's school perform Up How many school days has you overweight/obese? (This may medical issues related to weight How does your child travel to see	measure height, weight, and BMI at school? Yes No Great Good Fair Poor Failing grade mance changed this school year: wn Stayed the same ur child missed this year due to health issues related to being include sick days and days missed due to doctor visits related to nt problems.) days school? School bus Walk Parent drive om school? School bus Walk Parent drive we for school? a m
•	ve for school?a.m. ve home from school?p.m.
	ial diet at school? Yes No
	1 1 1 1 1 1 N N
Does your child receive free or Breakfast Lunch Skips Other (Expl	
Does your child receive free or Breakfast Lunch Skips Other (Expl If no, explain	Carries lunch from home Purchases extra food in cafete lain:)
Does your child receive free or Breakfast Lunch Skips Other (Expl If no, explain hosocial Information Some people gain weight because	Carries lunch from home Purchases extra food in cafete lain:) use something serious or upsetting has happened in their family or
Does your child receive free or Breakfast Lunch Skips Other (Expl If no, explain nosocial Information Some people gain weight becauthem. Please check if any of the was when they happened.	Carries lunch from home Purchases extra food in cafete lain:) use something serious or upsetting has happened in their family or nese things has happened in your family and note how old your child Comments
Does your child receive free or Breakfast Lunch Skips Other (Expl If no, explain nosocial Information Some people gain weight becauthem. Please check if any of the was when they happened. Divorce	Carries lunch from home Purchases extra food in cafete lain:) use something serious or upsetting has happened in their family or nese things has happened in your family and note how old your child has large the comments Comments Yes (Age:) No
Does your child receive free or Breakfast Lunch Skips Other (Expl If no, explain nosocial Information Some people gain weight becauthem. Please check if any of the was when they happened. Divorce Father remarries	Carries lunch from home Purchases extra food in cafete lain:) use something serious or upsetting has happened in their family or nese things has happened in your family and note how old your child have been commented in their family or nese things has happened in your family and note how old your child have been commented in their family or nese things has happened in your family and note how old your child have been commented in their family or nese things has happened in your family and note how old your child have been commented in their family or nese things has happened in your family and note how old your child have been commented in their family or nese things has happened in your family and note how old your child have been commented in their family or nese things has happened in your family and note how old your child have been commented in their family or nese things has happened in your family and note how old your child have been commented in your family and note how old your child have been commented in your family and note how old your child have been commented in your family and note how old your child have been commented in your family and note how old your child have been commented in your family and note how old your child have been commented in your family and note how old your child have been commented in your family and note how old your child have been commented in your family and note how old your child have been commented in your family and note how old your child have been commented in your family and note how old your child have been commented in your family and note how old your child have been commented in your family and note how old your child have been commented in your family and note how old your child have been commented in your family and note how old your child have been commented in your family and note how old your child have been commented in your family and yo
Does your child receive free or Breakfast Lunch Skips Other (Expl If no, explain nosocial Information Some people gain weight becauthem. Please check if any of the was when they happened. Divorce Father remarries Mother remarries	Carries lunch from home Purchases extra food in cafete lain:) use something serious or upsetting has happened in their family or nese things has happened in your family and note how old your chi Comments Yes (Age:)No
Does your child receive free or Breakfast Lunch Skips Other (Expl If no, explain nosocial Information Some people gain weight becauthem. Please check if any of the was when they happened. Divorce Father remarries Mother remarries Change homes (Move)	Carries lunch from home Purchases extra food in cafete lain:) use something serious or upsetting has happened in their family or nese things has happened in your family and note how old your child the comments Yes (Age:) No Yes (Age:)
Does your child receive free or Breakfast Lunch Skips Other (Expl If no, explain nosocial Information Some people gain weight becauthem. Please check if any of the was when they happened. Divorce Father remarries Mother remarries Change homes (Move) Change schools	Carries lunch from home Purchases extra food in cafete lain:) use something serious or upsetting has happened in their family or nese things has happened in your family and note how old your child have been seen the commentsYes (Age:)No
Does your child receive free or Breakfast Lunch Skips Other (Expl If no, explain nosocial Information Some people gain weight becauthem. Please check if any of the was when they happened. Divorce Father remarries Mother remarries Change homes (Move) Change schools Family member incarce	Carries lunch from home Purchases extra food in cafete lain:) use something serious or upsetting has happened in their family or nese things has happened in your family and note how old your child
Does your child receive free or Breakfast Lunch Skips Other (Expl If no, explain nosocial Information Some people gain weight becauthem. Please check if any of the was when they happened. Divorce Father remarries Mother remarries Change homes (Move) Change schools Family member incarce Death of close family no Death of favorite pet	Carries lunch from home Purchases extra food in cafete lain:) use something serious or upsetting has happened in their family or nese things has happened in your family and note how old your chi Yes (Age:) No

• If you answered yes to any of the above questions, please explain:

Assessment of Living Conditions: House Mobile Home Homeless Shelter	Other (Explain:)
Indoor plumbing (<i>Source of water</i> : Public/City		
Working StoveWorking Refrigerator		
Heating Source:Central (Oil Gas Electric)		sene
WoodstoveElectric		
Portable electricNone		
Cooling:Air Conditioner (Central SystemWindow	w unit) Fans No	ne
Resources for Food:		
Food Stamps WIC Food Bank/		
Farmers' Market Home garden Other (Explain	n:	
Where majority of grocery shopping is done? (Store name)		
How often do you go grocery shopping?		
Who does most of the grocery shopping?		
Do you use store/product coupons when grocery shopping?		
Do you feel you have adequate funds for food?Yes	No	
Transportation:		
Own VehicleBus/Public Transportation	PATS van	
•	_ 17115 van	
Taxi Neighbor	_ Relative	
Taxi Neighbor WalkBicycle	_ Relative	
Taxi Neighbor WalkBicycle Lifestyle Habits	_ Relative	
Taxi Neighbor WalkBicycle	_ Relative	hav
Taxi Neighbor WalkBicycle Lifestyle Habits	_ Relative	hav
Taxi Neighbor WalkBicycle Lifestyle Habits	Relative	
Taxi Neighbor WalkBicycle Lifestyle Habits Some lifestyle habits can contribute to excessive weight gain. Whi Eat in front of TV, computer, video games	Relative ich habits does your child lYes	
Taxi Neighbor WalkBicycle Lifestyle Habits Some lifestyle habits can contribute to excessive weight gain. Whi Eat in front of TV, computer, video games Eat while talking on phone	_ Relative ich habits does your child l Yes Yes No	No
Taxi Neighbor WalkBicycle Lifestyle Habits Some lifestyle habits can contribute to excessive weight gain. Whi Eat in front of TV, computer, video games Eat while talking on phone Eat when others are not watching	Yes No Yes	No No
Taxi Neighbor WalkBicycle Lifestyle Habits Some lifestyle habits can contribute to excessive weight gain. Whi Eat in front of TV, computer, video games Eat while talking on phone Eat when others are not watching Vomits after eating too much	Yes No Yes Yes	No No No
Taxi Neighbor WalkBicycle Lifestyle Habits Some lifestyle habits can contribute to excessive weight gain. Whi Eat in front of TV, computer, video games Eat while talking on phone Eat when others are not watching	Yes No Yes	No No No
Taxi Neighbor WalkBicycle Lifestyle Habits Some lifestyle habits can contribute to excessive weight gain. Whi Eat in front of TV, computer, video games Eat while talking on phone Eat when others are not watching Vomits after eating too much	Yes No Yes Yes	No No No No
Taxi Neighbor WalkBicycle Lifestyle Habits Some lifestyle habits can contribute to excessive weight gain. Whi Eat in front of TV, computer, video games Eat while talking on phone Eat when others are not watching Vomits after eating too much Takes laxatives after eating too much	Yes No Yes	No No No No
Taxi Neighbor WalkBicycle Lifestyle Habits Some lifestyle habits can contribute to excessive weight gain. Whi Eat in front of TV, computer, video games Eat while talking on phone Eat when others are not watching Vomits after eating too much Takes laxatives after eating too much Eats when bored	Yes	No No No No No
Taxi Neighbor WalkBicycle Lifestyle Habits Some lifestyle habits can contribute to excessive weight gain. Whi Eat in front of TV, computer, video games Eat while talking on phone Eat when others are not watching Vomits after eating too much Takes laxatives after eating too much Eats when bored Eats more than 1 serving at a meal or snack	Yes	No No No No No No
Taxi Neighbor WalkBicycle Lifestyle Habits Some lifestyle habits can contribute to excessive weight gain. Whi Eat in front of TV, computer, video games Eat while talking on phone Eat when others are not watching Vomits after eating too much Takes laxatives after eating too much Eats when bored Eats more than 1 serving at a meal or snack Eats snacks at unplanned times ("grazing")	Yes	No No No No No No
Taxi Neighbor Bicycle Lifestyle Habits Some lifestyle habits can contribute to excessive weight gain. Whi Eat in front of TV, computer, video games Eat while talking on phone Eat when others are not watching Vomits after eating too much Takes laxatives after eating too much Eats when bored Eats more than 1 serving at a meal or snack Eats snacks at unplanned times ("grazing") Eats when friends put pressure on him/her	Yes	No No No No No No No
Taxi Neighbor Bicycle Lifestyle Habits Some lifestyle habits can contribute to excessive weight gain. Whi Eat in front of TV, computer, video games Eat while talking on phone Eat when others are not watching Vomits after eating too much Takes laxatives after eating too much Eats when bored Eats more than 1 serving at a meal or snack Eats snacks at unplanned times ("grazing") Eats when friends put pressure on him/her Eats when family members put pressure on him/her	Yes	No No No No No No No No
Taxi Neighbor Bicycle Lifestyle Habits Some lifestyle habits can contribute to excessive weight gain. Whi Eat in front of TV, computer, video games Eat while talking on phone Eat when others are not watching Vomits after eating too much Takes laxatives after eating too much Eats when bored Eats more than 1 serving at a meal or snack Eats snacks at unplanned times ("grazing") Eats when friends put pressure on him/her Eats when family members put pressure on him/her Has television in bedroom	Yes	No No No No No No No No
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A -4::4 1			1.:1.42		111-	-1. 11. 4	5
•	exercise can r basketball, soc			's weight. Pleas		en nabits your	
•							
	in, walk fast, s					Yes	No
Toning exerc	cise (sit ups, to	e touches, leg	g lifts, etc.)			Yes	
If yes, ho	w often?			l he/she do?			
If your child	has an afterno	on of free tim	ne, what would	l he/she do?			
				If so wh			daycare,
Who can be Who can be Outside of you	most helpful to least helpful (1 our immediate	you and you nake it harder home, which	r child when t c)? family memb	ight manageme rying to get to a ers or close frie	a healthy wei		
			utrition inter				
		y-		, , , , , , , , , , , , , , , , , , , ,			
A. Review a	tic nutritiona and interpretai ratory Data:		ent laboratory	and anthropon	netric data		
Date		Laboratory Te	st	Value/R	esults	Com	nment
Anth	ropometric De	ıta:					
Date	Height (cm/inches)	Height/Age Percentile	Weight (kg/pounds)	Weight/Age Percentile	BMI	BMI Percentile	Comments
			cm: astolicBl	lood Pressure I	Percentile for	r age and gen	der:
Degr	ee of Obesity (II Grid):			Weight (IBW	
	Normal Overwe			DW & 3	o percennit f IRW:	e: kg	
	Overwe	Agiit		Adingted	ты w IBW @ 85 th	% percentile:	ko
	> 99 th p	ercentile				:9	

Step Step Step St St St	o 2 o 3 tage1 age 2 age 3 age 4	ıtrient intako	e (include physica Isual Food Into		een time)
Week Day					
Breakfast Time:	AM Snack Time:	Lunch Time:	PM Snack Time:	Dinner Time:	HS Snack Time:
Weekend Da					
Breakfast	AM Snack	Lunch	PM Snack	Dinner	HS Snack
Time:	Time:	Time:	Time:	Time:	Time:
Eat breakfast Eat lunch	3 snacks per day		Please check which	1 habits your ch Yes Yes Yes Yes Yes	nild has: No No No No No No

Skips dinner Drinks 2 or more servings of sweet drinks/day (8 oz) Type:Sweet TeaSodaKool-AidFruit Drink/Punch Drinks 2 or more 4 ounce servings of 100% juice/day How often eating fast food each week: day(s) Typical place and meal:					
Nutrition Diagnosis					
American Dietetic Associat	ion Nutrition Diagnostic Termino	logy for Overweight Children			
	are suggestions. Assess for appropriaten	•			
Intake Domain	Clinical Domain	Behavior/Environmental Domain			
Energy Balance: Excessive energy intake NI- 1.5	Weight: Overweight/obesity NC -3.3	Knowledge and Beliefs: Food and nutrition related knowledge deficit NB- 1.1			
Nutrient: Imbalance of nutrients NI- 5.5	Weight: Involuntary weight gain NC -3.4	Knowledge and Beliefs: undesirable food choices NB- 1.7			
Fat and Cholesterol: Excessive fat intake NI -5.6.2		Physical activity: physical activity NB -2.1			
Protein: Excessive protein intake NI -5.7.2	Altered nutrition related laboratory values NC- 2.2	Food safety and access: limited access to food NB- 3.2			
Carbohydrate: Excessive carbohydrate intake NI- 5.8.2					
Inappropriate intake of types of carbohydrate NI- 5.8.3					
Inconsistent carbohydrate NI- 5.8.4					
Inadequate fiber intake NI -5.8.5					
#1 Problem: Etiology: Signs/Symptoms: #2 Problem: Etiology: Signs/Symptoms: B. Determination of nutrient-drug					

C. Assessment of feeding skills and methods – structured feeding

IV. Development of an individualized nutrition care plan

1. Recommendations for nutrient and calorie modification: Estimated energy needs: _____ calories per day Estimated protein needs: _____ grams per day (______% protein) Estimated carbohydrates needs: _____ grams per day (___ Estimated fat needs: _____ grams per day (_____% fat) Nutrition Prescription: American Dietetic Association Nutrition Intervention Terminology for Overweight Children *Note the codes provided below are suggestions. Assess for appropriateness and revise/add as necessary. **Nutrition Education Nutrition Counseling** Food and/or Nutrient **Coordination of Nutrition Delivery** Care Meals and snacks: General Initial/Brief Nutrition Education: Theoretical Basis/Approach: Coordination of other care during Healthful Diet Cognitive-Behavioral Theory Purpose of the nutrition education nutrition care: Team Meeting ND 1.1 C 1.2 RC 1.1 E 1.1 Meals and snacks: Modify Initial/Brief Nutrition Education: Theoretical Basis/approach Coordination of other care during distribution, type or amount of **Priority Modifications** Health Belief Model nutrition care: food and nutrients within meals E 1.2 C 1.3 Collaboration/referral to other or at a specified time providers ND 1.2 RC 1.3 Meals and snacks: Specific Comprehensive Nutrition Strategies: Motivational Coordination of Care during foods/beverages Education: Purpose of nutrition Interviewing: C 2.1 nutrition care: Referral to ND 1.3 education E 2.1 community agencies/programs RC 1.4 Vitamin and Mineral Comprehensive Nutrition Strategies: Self Monitoring Supplements: Mineral:Calcium Education: Recommended C 2.3 ND 3.2.4 Modifications E2.1 Strategies: Goal setting C 2.2 2. Calculation of a therapeutic diet for certain disease states (i.e. diabetes, renal disease): Calculation needed for therapeutic diet? _____ If yes, describe: Suggested Meal Plan: Grains: ounces/day (total) • whole grains: ounces/day Fruit: _____ cups/day Dairy: _____ cups/day

Fats/Oils: _____tsp / tbsp (circle) Sweets / Extras: _____ calories/day

Meat & Beans: _____ ounces/day

Vegetables: _____ cups/day

3. Referral to other health care providers:

Name of Agency	Date of Contact	Reason for Referral

E. Counseling on nutritional/dietary management of nutrition-related medical conditions
Intervention #1:
Goal (s):
Intervention #2:
Goal (s):
Nutrition Monitoring and Evaluation

American Dietetic Association Nutrition Monitoring and Evaluation Terminology for Overweight Children

*Note the codes provided below are suggestions. Assess for appropriateness and revise/add as necessary.

Nutrition Related Behavioral-Environmental	Food and Nutrient Intake Outcomes	Nutrition Related Physical Sign/Symptom Outcomes	Nutrition Related Patient/Client Centered
Outcomes	3 4000		Outcomes
Beliefs and Attitudes: Readiness to change: BE 1.1.1	Energy Intake: Total energy intake: FI 1.1.1	Body composition/Growth: Body Mass Index (BMI): S 1.1.1	Nutrition Quality of Life: Psychological factors: PC 1.1.3
Food and Nutrition Knowledge: Level of knowledge: BE 1.2.1	Food intake: Number of food group servings: FI 2.2.2	Body Composition/Growth: Weight/weight change: S 1.1.4	Nutrition Quality of Life: Self image: PC 1.1.4
Behavior: Ability to plan meals/snacks : BE 2.1.1	Fat and cholesterol intake: total fat: FI 5.1.1	Glucose Profile: Glucose, fasting: S 2.5.1	Nutrition Quality of Life: Self efficacy: PC 1.1.5
Behavior: Ability to select healthful meals/food: BE 2.3.1	Carbohydrate intake: sugar : FI 5.3.2	Lipid Profile: Cholesterol S 2.6.1	Nutrition Quality of Life: Social/interpersonal factors: PC 1.1.6
Goal Setting: goal setting ability: BE 2.5.1	Carbohydrate intake: total carbohydrates : FI 5.3.1	Lipid Profile: HDL cholesterol (S 2.6.2); LDL cholesterol (S 2.6.3)	Nutrition Quality of Life: Nutrition quality of life score: PC 1.1.7
Self Monitoring: self monitoring ability: BE 2.81	Fiber intake: total fiber: FI 5.4.1	Lipid profile: Triglycerides: S 2.6.4	
Physical Activity: consistency and frequency: BE 4.3.1	Mineral/element intake: 6.2	Respiratory Quotient: RQ : S 2.10.1	

Name of Health Care Team Member	Date of Contact	Primary Care Provider (yes / no)	Method of Contact (i.e. fax, mail, phone)
G. Education on reading Handout Used:		Date:	
List of handouts given:			
Counselor's Signature			
Date		Unit (s), A	
ICD-9 Codes:			

Eating Disorders

DSM-IV 307.50 Eating Disorders, Not Otherwise Specified

Binge Eating Disorder: recurrent episodes of binge eating in the absence of the regular use of inappropriate compensatory behaviors characteristic of Bulimia Nervosa

Research Criteria for Binge-Eating Disorder

- Recurrent episodes of binge-eating, characterized by both of the following:
 - Eating in a discrete period of time (e.g., within any 2-hour period), an amount of food that is definitely larger than most people would eat in a similar period of time under similar circumstances;
 - A sense of lack of control over eating during the episode (e.g., a feeling that one cannot stop eating or control what or how much one is eating).
- The binge-eating episodes are associated with three (or more) of the following:
 - Eating much more rapidly than normal;
 - Eating until uncomfortably full;
 - Eating large amounts of food when not feeling physically hungry;
 - Eating alone because of being embarrassed by how much one is eating;
 - Feeling disgusted with oneself, depressed, or very guilty after overeating
- Marked distress regarding binge-eating is present.
- The binge-eating occurs, on an average at least 2 days for a week for 6 months.

 Note: the method of determining frequency differs from that used for bulimia nervosa; future research should address whether the preferred method of setting a frequency threshold is counting the number of days on which binges occur or counting the number of episodes of binge eating.
- The binge-eating is not associated with regular use of inappropriate compensatory behaviors (e.g., purging, fasting, excessive exercise) and does not occur exclusively during the course of anorexia nervosa or bulimia nervosa.

Adapted from ADA Pediatric Manual of Clinical Dietetics, 2nd Ed, Figure 17.3 DSM-IV-TR Criteria for Eating Disorder Not Otherwise Specified and Proposed Research Criteria for Binge-Eating Disorder.

Provisional research criteria for diagnosing BED in children:

- A. Recurrent episodes of binge eating. An episode of binge eating is characterized by both of the following:
 - 1. Food seeking in absence of hunger (e.g. after a full meal)
 - 2. A sense of lack of control over eating (e.g., endorse that, "When I start to eat, I just can't stop.")
- B. Binge episodes are associated with one or more of the following:
 - 1. Food seeking in response to negative affect (e.g., sadness, boredom, restlessness)
 - 2. Food seeking as a reward
 - 3. Sneaking or hiding food
- C. Symptoms persist over a period of 3 months
- D. Eating is not associated with the regular use of inappropriate compensatory behaviors (e.g., purging, fasting, excessive exercise) and does not occur exclusively during the course of anorexia or bulimia nervosa

Marcus MD, Kalarchian MA. Binge eating in children and adolescents. *Int J Eat Disord* 2003;34(Suppl):S47-S57.

Children's binge eating disorder scale				
<u>Item</u>	Response			
	<u>Choice</u>			
1. Do you ever want to eat when you are not even hungry?	Yes/No			
2. Do you ever feel that when you start eating you just cannot stop?	Yes/No			
3. Do you ever eat because you feel bad, sad, bored, or any other	Yes/No			
mood?				
4. Do you ever want food as a reward for doing something?	Yes/No			
5. Do you ever sneak or hide food?	Yes/No			
6. How long have you been doing this? (transformed to weeks)	Yes/No			
7. Do you ever do anything to get rid of the food you ate?	Yes/No			

BED criteria may be met if child responds affirmatively to questions 1 and 2, and at lease one of questions 3, 4, or 5, had symptoms that persisted greater than 3 months (question 6), and answers no to question 7.

Shapiro JR, Woolson SL, et al. Evaluating binge eating disorder in children: development of the children's binge eating disorder scale (C-BEDS). *Int J Eat Disord* 2007; 40:82-89.

SCOFF Questionnaire to Screen for Eating Disorders (Anorexia nervosa or Bulimia nervosa)

- Do you make yourself sick because you feel uncomfortably full?
- Do you worry you have lost control over how much you eat?
- Have you recently gained more than one stone (14 pounds or 6.35 kg) in a 3 month period?
- Do you believe yourself to be fat when others say you are too thin?
- Would you say that food dominates your life?

*One point for every "yes"; a score of ≥2 indicates a likely case of anorexia nervosa or bulimia.

Morgan JF, Reid F, Lackey JH. BMJ 1999, Dec 4, 319; 1467-8.

Nutrition Diagnosis has three general domains □ Intake ■ Excessive or Inadequate intake compared to requirements (actual or estimated) ☐ Clinical ■ Medical or physical conditions that are outside normal ☐ Behavioral-Environmental ■ Relate to knowledge, attitudes, beliefs, physical environment, access to food, or food safety Writing a PES Statement P/Nutrition Diagnostic Label______ ➤ As Related to (etiology) As Evidenced by (Signs and symptoms) An example for pediatric obesity: Inadequate knowledge of nutrition, related to inability to interpret the nutrition facts label as evidenced by stating there were only 30 calories in a container that had 5 servings of 30 calories each Excessive calorie intake, related to ad lib juice consumption, as evidenced by a 1 pound weight gain in 1 week. Evaluating the PES statement ■ Can the RD resolve the nutrition diagnosis? ☐ Can you envision an intervention that would address the etiology and thus resolve the problem? ☐ If not is your intervention targeted to reducing or eliminating the signs and symptoms? ■ Does your nutrition assessment data support the Nutrition Diagnosis, etiology, and signs and symptoms? ■ Is the etiology listed the "root cause"? \square (Ask Why 5 times) ■ Will measuring the Signs and Symptoms tell you if the problem is resolved?

■ When all things are equal and you have a choice between stating the PES statement using two nutrition diagnosis labels in different domains...you might consider the intake nutrition diagnosis.

■ Are the Signs and Symptoms specific enough that you can measure/evaluate changes at the next visit to document resolution of the nutrition diagnosis?

For more information, see: American Dietetic Association. Nutrition Diagnosis and Intervention.

Handouts and Worksheets



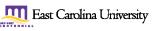




For more information on how to achieve a healthy weight in children, visit the ECU Pediatric Healthy Weight Research and Treatment Center website at www.ecu.edu/pedsweightcenter

Tips to Help Your Child and Teen Achieve a Healthy Weight

- Be a ROLE MODEL. Eat smart and move more. Your children learn by watching you make healthy choices. Encourage healthy food choices without being overly restrictive.
- 2. Limit sugar-sweetened beverages. Drink water, sugar free beverages, or low fat milk. Sugar-sweetened drinks like soda, sweet tea, Kool-aid, energy and sports drinks provide little or no nutritional value and the extra calories can promote weight gain. Limit 100% fruit juice to less than 6 ounces for kids seven and under, and 12 ounces for older kids.
- 3. Eat 5 servings of fruit and vegetables a day. Aim to eat at least five fruits and vegetables a day. They are great sources of vitamins, minerals, and fiber and make great snacks. Try to include one at every meal and snack.
- 4. Eat a healthy breakfast every day. Eating breakfast has been shown to increase test scores, attendance, and class participation. Help your child be ready to learn by eating a healthy breakfast, not just on test days. Healthy choices include fruit, whole grain cereals and oatmeal, toast, yogurt, low fat milk.
- 5. Limit eating out especially fast food. Fast food is often high in fat, calories, and sodium. Eat family meals—goal of 5-6 times a week. Sit down to eat and turn off the TV while eating. Children and adults are more likely to eat vegetables when eating together at home.
- 6. Limit portion sizes. Be aware of large portions especially when eating out. When you order food, always choose the "kid's meal," or small or regular-sized portions. Use the nutrition information about menu items to guide your choices. At home, start with a small portion and offer a second helping only if your child is still hungry and asks for it.
- 7. Limit screen time to less than 2 hours a day and no TV in bedrooms. When your child is watching TV or playing video games, he or she is not using up many calories and is often snacking. Encourage your child to do something active instead like riding a bike, playing basketball or soccer, or dancing.
- 8. Engage in 60 minutes of moderate to vigorous activity daily. Get active with your child—walk, bike, or play together. Encourage your child to get 60 minutes of physical activity each day.
- 9. Make sure your child gets a good night's sleep. Studies have shown that children who do not get enough sleep are more likely to be overweight. Experts recommend children 18 months-3 years get 12-14 hours, 3-5 years 11-13 hours, 5-12 years 10-11 hours, and teens 9.25 hours per night.
- 10. Reward your child with non-food items. Give your child praise, a hug, buy a new book or toy, or just spend time together!





The Stoplight Food Guide

The Stoplight Food Guide lists ANYTIME, SOMETIMES and RARELY foods from each of the food groups.



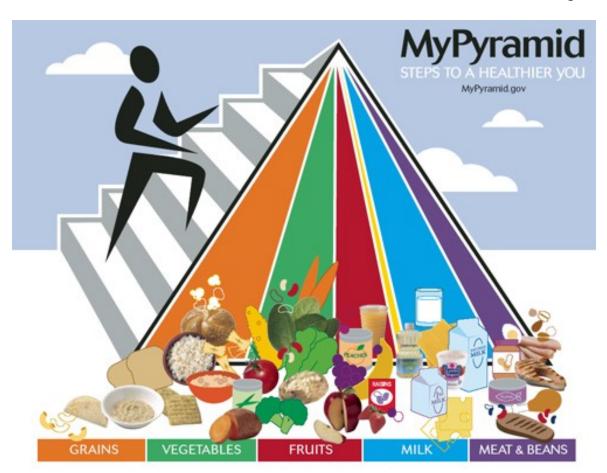
<u>ANYTIME FOODS</u> are part of a healthy diet. Most are low in fat, sugar and calories. They are the best choices within a food group. Try to eat as many of the recommended daily servings from this group as you can. *Keep in mind that portion control is still necessary with these foods to be part of a healthy weight meal pattern*.



SOMETIMES FOODS are high in many nutrients that are needed for good health, but many are also higher in fat, sugar or calories than ANYTIME FOODS. Try to limit these foods to no more that one serving a day from each group.



RARELY FOODS have more fat, sugar and calories than foods on the SOMETIMES or ANYTIME lists. Eat these foods no more than 1-2 times per week.



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Daily Servings

Grains: 5-7ounce equivalents

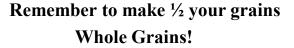
1 serving = 1 ounce equivalent

1 slice bread, ½ 6 in flour tortilla

1 ounce ready-to-eat cereal

½ cup cooked cereal, rice, pasta, (try for whole wheat)

½ of a bun, English muffin, sub roll, or "mini" (2 in) bagel





Anytime

Bagel ("mini" 2 in) Grits

Oatmeal Plain pasta

English muffin Rice Fat-free crackers Sub roll

Fat-free muffin Spaghetti

Hamburger bun Hotdog bun

Flour Tortilla (6 in)

Low-sugar cereal (not frosted)

Loaf bread: Whole wheat, White

Whitewheat, Pita

Sometimes

Low fat: Cereal bars

Granola
Muffins
Crackers

Granola bars

Corn bread (baked) Stuffing
Pancakes Waffles
Sweetened cereal Triscuits

Low fat Macaroni and Cheese

Rarely

Regular Granola

Buttered popcorn Muffins

Doughnuts Macaroni & Cheese

Granola bars Breadsticks

Hard taco shell Hush puppies

Townhouse crackers Nabs
Captain Wafers Ritz Crackers

Fruits: 3-4 Servings (1 ½- 2 cups)

1 serving =

½ cup 100% juice*,

1 piece fresh, ¼ cup dried fruit

½ cup canned or fresh

* Limit juice intake to 1-2 servings/day

Watermelon







Biscuits







Anytime

Fresh, frozen or canned fruit or juice, no added sugar

Apples Oranges
Bananas Peaches
Blueberries Pears
Cantaloupe Plums
Grapes Strawberries

Sometimes

Canned fruit packed in light syrup

Cranberry juice
Dried fruit
Frozen juice bar

Sweetened applesauce

Rarely

Canned fruit in heavy syrup

Coconut

Fruit cobbler



Kiwi



Daily Servings

Vegetables: 3-5 Servings $(1 \frac{1}{2}-2 \frac{1}{2} c)$

1 serving = *Remember to 'color' your plate- with green, orange,

1 cup raw leafy yellow veggies. Try to add these colors in addition

½ cup chopped, raw or cooked to starchy veggies (like potato) *

½ cup vegetable juice











Anytime

Fresh, frozen or canned vegetables, no added fat or sugar, steamed or with fat-free cheese

Broccoli Mushrooms Butter beans Mustard greens

Carrots Okra Cabbage Onions Cauliflower Peas Celery **Peppers**

Collards Potato/ Sweet potato

Corn Spinach Cucumbers Squash Fat-free coleslaw Swiss chard Green beans **Tomato**

Lettuce

Tossed salad (no dressing/fat free

dressing)

Sometimes

Coleslaw with low fat mayonnaise Potato salad with low fat mayonnaise Tossed salad with low fat dressing

Oven-baked fries

Broccoli, cauliflower, squash or other veggies with low fat (2%) cheese

Rarely

Vegetables with added fat (fat back, margarine, etc.)

Vegetables with cheese

Fried vegetables:

Onion rings, French fries Tater tots, hash browns

Vegetable Salads: Tossed Salad with regular dressing, potato salad, coleslaw

Creamed Vegetables: Corn, peas, spinach

Dairy: 2-4 Servings (2-4c)

1 serving =

1 cup milk or yogurt

1 cup calcium fortified soy milk

1 ½ ounces cheese, 1/3 c shredded cheese

½ cup frozen yogurt, 1 cup cottage cheese



Anytime

Fat-free and artificially sweetened: pudding, ice cream, and frozen yogurt

Soy milk Skim milk

Fat-free yogurt ½ - 1% lowfat milk Fat-free cheese Lowfat cottage cheese

Sometimes

1% chocolate milk Low fat pudding 2% milk Low fat yogurt Buttermilk Low fat frozen yogurt Low fat ice cream Mozzarella cheese Reduced fat cheese (2%)

Rarely

Whole milk Ice Cream

Cheese spreads: Pimiento cheese, Cheez Wiz

Regular cheese: Cheddar, American, Monterey Jack, Colby, Muenster





Daily Servings

Protein: 2-3 Servings (5-7 ounces)

1 serving =

2 ½ to 3 ounces of cooked meat, poultry, or fish

4 oz tofu 2 eggs

½ cup seeds/nuts 1 cup cooked dried beans

2 tablespoons peanut butter



Anytime

All meats and poultry should be: baked, broiled, boiled, steamed, roasted or grilled.

Dried beans and peas Tofu

Fish Tuna

Fat-free hot dogs Turkev

Ham Veggie (soy) burgers

Lean beef Vegetarian baked beans

Lean pork Venison (deer)

Pinto Beans Egg Whites

Skinless chicken (in water)

Sometimes

Tuna or chicken salad with Low fat mayonnaise

Chicken with skin Low fat hot dogs Eggs Peanut butter

Hamburger Baked beans

Turkey bacon Turkey Sausage Turkey Pepperoni Nuts/Seeds

Hamburger helper with "90/10" ground

beef or with ground turkey

Rarely

Tuna or chicken salad with regular

mayonnaise

Bacon Pepperoni

Bologna Pork BBQ Fried Chicken Ribs

Fried fish Salami

Hot dogs Vienna sausages

Tuna packed in oil Sausage Treet or Spam (potted) meat

Hamburger Helper

Other Foods are not needed for healthy diet, but add enjoyment to eating. There are no recommended serving sizes or number of servings a day.

Anytime

Fat-free: margarine, mayonnaise, salad dressing, sour cream, cream cheese, whipped topping.

BBO sauce Fruit spread

Butter flavored granules Mustard

Ketchup Salsa Cooking spray Lemon juice

Vinegar

Sometimes

Low fat: margarine, mayonnaise, salad dressing, sour cream, cream cheese, and whipped topping

Bacon bits Olives Jelly Croutons Honey Syrup Low fat gravy Guacamole Jam

Rarely

Cream cheese Butter Meat grease Sour cream Dips Salad dressing Fat back Vegetable oil Whipped cream Margarine Gravy Mayonnaise

Drinks and Snacks can be eaten with or between meals. Remember that all anytime foods make great snacks

Anytime

Sugar-free: Jell-O, Kool-Aid, diet soda, or plain tea with Equal or Splenda.

Fruits/vegetables Sugar free Gum Graham crackers Dill pickles Rice cakes Plain popcorn

Fat-free dips **Pretzels** Flavored water (no sugar added)

Sometimes

Low fat microwave popcorn

Ginger snaps Angelfood cake Low fat cookies Fruit snacks Hard candy Low fat desserts

Fruit roll-ups Jell-O

Fruit Newtons Low fat toaster-pastries Baked chips Vanilla Wafers

Rarely

Cakes Regular soda Doughnuts Chocolate

Danish Candy bars Sweet tea Honey buns

Cookies

Toaster pastries Pies

Tortilla chips

Corn chips Potato chips Turnovers Kool Aid/Punch





El Semáforo de los Alimentos

El semáforo de los Alimentos nos indica alimentos de En cualquier momento, A Veces, y Casi nunca



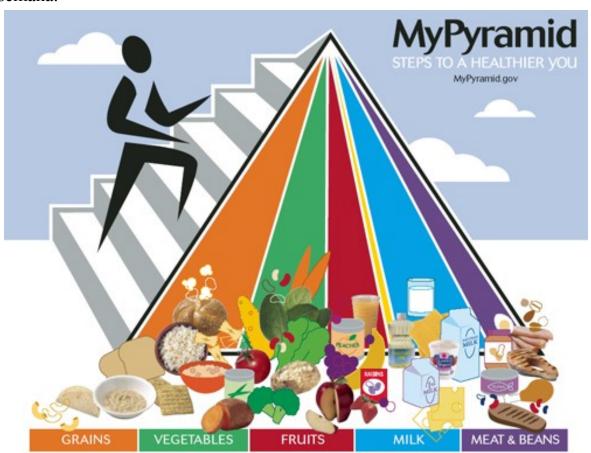
TODO EL TIEMPO: son parte de una dieta sana. La mayoría son bajos en grasa, azúcar, y calorías. Son la mejor elección dentro de los grupos de alimentos. Trate de comer las más porciones que pueda de las recomendaciones diarias de este grupo.



A VECES: Son altas en muchos nutrientes que se necesitan para una buena salud, pero algunos tienen contenido más alto de grasa, azúcar, y caloría que los del grupo TODO EL TIEMPO. Trate de limitar estos alimentos a no más de una porción por día por grupo.



CASI NUNCA: Estos alimentos tienen más grasa, azúcar, y calorías que los de TODO EL TIEMPO, A VECES. Coma estos alimentos no más de 1 a 2 veces por semana.



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Porción Diaria:

Granos o Cereals: 5-7onzas

1 porción = 1 once

1 rebanada de pan, ½ 6in tortilla

1 onza de cereal instantáneo

½ taza de cereal, arroz o pasta cocidos

½ de un bollo, madalena (muffin), panecillo redondo ("mini") (bagel) o pan dulce (roll).



Todo el Tiempo

Panecillo redondo (2in-"mini") Pita Palitos de pan

Pasta Spaghetti

Galletas sin grasa

Madalena (muffin) sin grasa

Sémola Pan alargado

Pan para hamburguesa

Pan para hot dog Tortilla de maiz

Cereal bajo en azucar (no escarchado)

Rebanada de pan

Avena Arroz (sin aceitar)

A Veces

Bajo en graso: Barra de cereal

Granola

Madalena (muffin)

Galletas

Barra de granola

Pan de maiz

Waffles (Gofres)

Hot cakes or Panqueques

Rellenos (por ejemplo el del pavo)

Cereal endulzado

Triscuits

Casi Nunca

Bizcocho

Palomitas con mantequilla

Captain Wafers

Donas

Granola

Granola en barra

Tacos duros

Hush Puppies

Madalena

Nabs

Galletas Ritz

Galletas Townhouse

Frutas: 3-4 Porciones (1 ½- 2 taza)

1 porción =

½ taza de jugo* (4-6 onzas)

1 trozo de fruta fresca

½ taza fruta enlatada

¼ taza de fruta seca

*limit 1-2 por dia













Todo el Tiempo

Fruta fresca, congelada o enlatada o

jugo, sin agregar azúcar

Kiwi

Manzanas Naranjas
Plátanos Duraznos
Arándonos azules Peras
Ciruelas Melón
Uvas Fresas

A Veces

Fruta enlatada en miel (almíbar) clara

Jugo de arándano Fruta seca

Barra de jugo congelada

Mermelada de manzana endulzada

Casi Nunca

Fruta enlatada en miel (almíbar) espesa

Coco

Pies (tortas) de fruta



Sandia



Porción Diaria:

Vegetales: 3-5 porciones (1 ½-2 ½ tazas)

1 porción =

½ taza de vegetal picado, crudo, o cocido

1 taza de vegetal de hojas crudas

½ taza de jugo











Todo el Tiempo

Vegetales frescos, congelados o enlatados, sin agregar grasa o azucar

Brócoli Okra Champinones/hongos Col

Frijoles blancos, portoto de manteca (sin aceitar) Zanahorias

Chicharos (guisantes, arvejas) Apio Elote o mazorca de maiz Espinaca

Pepinos Pimientos/Chiles Ensalada de col sin aderezo Tomate

Ejotes, habichuelas ternas Papa
Coliflor Calabacita
Jicama Acelgas
Berzas Cebolla

A Veces

Ensalada de col con mayonesa baja en grasas Papas horneadas en lugar de fritas

Ensalada de papa con mayonesa baja en grasas Ensalada con aderezo de bajas calorias

Casi Nunca

Vegetales a los que se les agrega grasa (mantequilla, margarina, etc.)
Vegetales con quso

Vegetales Fritos:

Anillos de cebolla, papas fritas, tator tots, paps de desmenuzadas, frijoles fritos

Ensalada de Vegetales: ensalada con aderezo regular, ensalada de papa y ensalada de col.

Vegetales con Crema:

Elote (maíz), chícharos espinaca

Lácteos: 2-4 porciones (2-4 tazas)

1 porción =

1 taza de leche o yogurt (8 onzas)

1 taza de leche de soya fortificada con calcio

1 ½ onzas de queso

1 taza de requesón

½ taza de yogurt congelado

Todo el Tiempo

Pudines, helado y yogurt congelado, libres de grasa y endulzados con edulcorantes

Yogurt sin grasa Leche de soya Queso sin grasa Leche sin crema Requesón bajo en grasa

Leche baja en grasa al ½ o 1%

A Veces

Leche con chocolate al 1%
Leche 2%
Yogurt congelado bajo en grasas
Helado bajo en grasas
Pudín bajo en grasas
Queso mozzarella
Queso reducido en grasas

Casi Nunca

Leche entera Helado

Queso para untar: Pimiento cheese, Cheeze Wiz.

Queso normal: Chaddar,

Americano, Monterrey Jack, Colby, Muenster





Porción Diaria:

Proteinas: 2-3 porciones (5-8 onzas)

- 1 porción =
- 2 ½ to 3 onzas de carne, aves o pescados cocidos
- 2 huevos
- ½ taza de nueces
- 2 cucharadas de mantequilla de cacahuate
- 1 taza de frijoles cocidos
- 4 onzas alimento hecho de soya (de tofu)



Todo el Tiempo

Todos las carnes y aves deben ser: asadas, horneadas, cocidas, rostizadas, o hechas al vapor

Frijoles y chícharos secos Atún
Pescado Frijoles vegetarianos
Hot dogs sin grasa Pavo
Jamon Hamburgurguesas de soya
Carne sin grasa Venado
Puerco sin grasa Clara de huevos
Pollo sin piel hervido Frijoles pintos

A Veces

Ensalada de pollo o atún con mayonesa baja en grasas

Pollo con piel
Huevos
Hamburguesas
Hot dog bajo en grasa
Mantequilla de cacahuate
Frijoles horneados

Casi Nunca

Ensalada de polla o atun con mayonesa regular

Tocina Pepperoni
Salchicha Puerco a la barbacoa
Pollo frito Costillas
Pescado frito Salami
Hot dogs Chorizo
Atun enlatado en aceite

Otros Alimentos: Estos no son necesarios para un dieta sana, pero el comerlos nos agrega placer y sabor. No hay recommendations en la cantidad y tamaño de las porciones diarias.

Todo el Tiempo

Sin grasa: Margarina, mayonesa, aderezo, crema, queso crema, crema batida sin grasa

Salsa de barbacoa Salsa
Gránulos con sabor a mantequilla
Ketchup Mostaza
Spray para concinar Frutas para untar
Vinagre Jugo de limon

A Magazi

Baja en grasa: Margarina, mayonesa, aderezo, crema, queso crema, y crema batida baja en grasa

Miel

Trozo de tocino

Crotones Salsa baja en grasa
Mermelada Aceitunas

Mermelada Aceitunas Jalea Almíbar

Guacamole

Casi Nunca

Mantequilla Grasa de la carne Queso crema Aderezo Dips Margarina Crema agria

Grasa Gravy (salsa) Aceite vegetal Crema batida

Mayonesa

Bebidas Y Bocadillos: Puedan ser ingeridos entre comidas. Recuerde que todos los alimentos aparecen en la lista **Todo el Tiempo** son magníficos bocadillos.

Todo el Tiempo

Sin Azucar: Gelatina (Jell-O), Kool-Aid, Soda dieta, o te endulzado con sacarina (Equal o Splenda)

Frutas y vegetales Chicle sin azucar
Galletas Graham Pepinos encurtidos
Pasteles de arroz Palitos salados

Agua con sabor, sin azucar Salsa para mojar sin grasa

East Carolina University

A Veces

Pastel Angel Food Postres bajos en grasas
Galletas bajas en grasa Gelatina
Dulces Pastelitos bajos en grasa
Rollos de fruta Ponche/refrescos de fruta
Galletas rellenas de fruta
Galletas de jengibre Papapitas horneadas
Chiclosos de fruta

Casi Nunca

Kool-Aid Pastel dulce de hojaldre Pasteles Golosina en barra

Refrescos regulares

Donas Te endulzado
Chocolate Bollos de miel

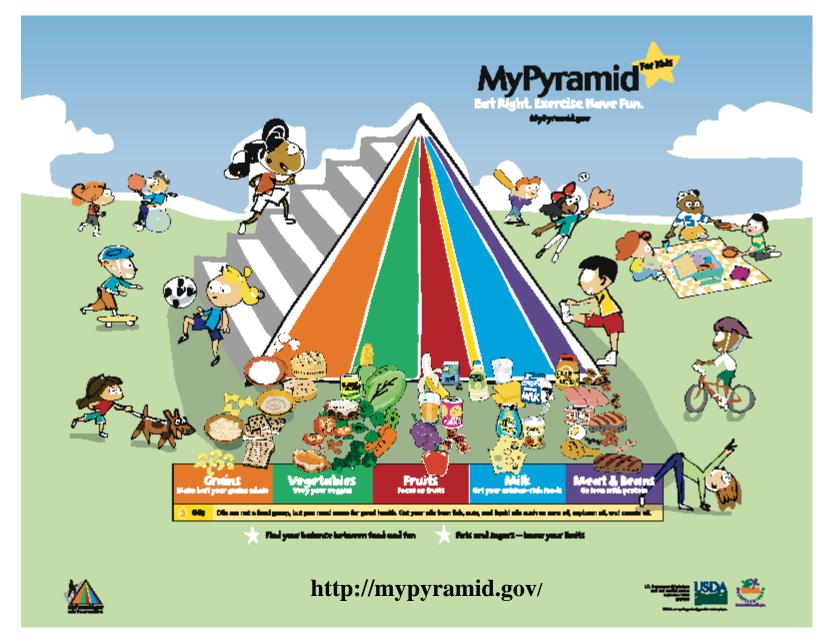
Reposteria para tostar

Pies Tortilla chips
Papitas de maiz Papitas

Empanada/hojaldre

Galletas

NEat 大 Move Smart 大 More









EAT RIGHT

Make half your grains whole. Choose whole-grain foods, such as whole-wheat bread, oatmeal, brown rice, and lowfat popcorn, more often.

2 Vary your veggies. Go dark green and orange with your vegetables—eat spinach, broccoli, carrots, and sweet potatoes.

Focus on fruits. Eat them at meals, and at snack time, too.

Choose fresh, frozen, canned, or dried, and go easy on the fruit juice.

4 Get your calcium-rich foods. To build strong bones serve lowfat and fat-free milk and other milk products several times a day.

Go lean with protein. Eat lean or lowfat meat, chicken, turkey, and fish. Also, change your tune with more dry beans and peas. Add chick peas, nuts, or seeds to a salad; pinto beans to a burrito; or kidney beans to soup.

Change your oil. We all need oil. Get yours from fish, nuts, and liquid oils such as corn, soybean, canola, and olive oil.

Don't sugarcoat it. Choose foods and beverages that do not have sugar and caloric sweeteners as one of the first ingredients. Added sugars contribute calories with few, if any, nutrients.



Set a good example. Be active and get your family to join you. Have fun together. Play with the kids or pets. Go for a walk, tumble in the leaves, or play catch.

2. Take the President's Challenge as a family. Track your individual physical activities together and earn awards for active lifestyles at www.presidentschallenge.org.

Setablish a routine. Set aside time each day as activity time—walk, jog, skate, cycle, or swim. Adults need at least 30 minutes of physical activity most days of the week; children 60 minutes everyday or most days.

Have an activity party. Make the next birthday party centered on physical activity. Try backyard Olympics, or relay races. Have a bowling or skating party.

Set up a home gym. Use household items, such as canned foods, as weights. Stairs can substitute for stair machines.

Move it! Instead of sitting through TV commercials, get up and move. When you talk on the phone, lift weights or walk around. Remember to limit TV watching and computer time.

T Give activity gifts. Give gifts that encourage physical activity—active games or sporting equipment.



http://mypyramid.gov/







Phrases that *HELP* and *HINDER*

As the caregiver, you play the biggest role in your child's eating behavior. What you say has an impact on developing healthy eating habits. Negative phrases can easily be changed into positive, helpful ones!



Phrases that *HINDER*

INSTEAD OF ... TRY ...

Eat that for me.

If you do not eat one more bite, I will be mad.

Phrases like these teach your child to eat for your approval and love. This can lead your child to have unhealthy behaviors, attitudes, and beliefs about food and about themselves.

INSTEAD OF ...

You're such a big girl; you finished all your peas. Jenny, look at your sister. She ate all of her bananas. Your have to take one more bite before you leave the table.

Phrases like these teach your child to ignore fullness. It is better for kids to stop eating when full or satisfied than when all of the food has been eaten.

INSTEAD OF ...

See, that didn't taste so bad, did it?

This implies to your child that he or she was wrong to refuse the food. This can lead to unhealthy attitudes about food or self.

. . . .

This is kiwi fruit; it's sweet like a strawberry. These radishes are very crunchy!

Phrases that HELP

Phrases like these help to point out the sensory qualities of food. They encourage your child to try new foods.

TRY ...

Is your stomach telling you that you're full?
Is your stomach still making its hungry growling noise?
Has your tummy had enough?

Phrases like these help your child to recognize when he or she is full. This can prevent overeating.

TRY

Do you like that? Which one is your favorite? Everybody likes different foods, don't they?

Phrases like these make your child feel like he or she is making the choices. It also shifts the focus toward the taste of food rather than who was right.

INSTEAD OF ...

No dessert until you eat your vegetables. Stop crying and I will give you a cookie.

Offering some foods, like dessert, in reward for finishing others, like vegetables, makes some foods seem better than others. Getting a food treat when upset teaches your child to eat to feel better. This can lead to overeating.

TRY

We can try these vegetables again another time. Next time would you like to try them raw instead of cooked?

I am sorry you are sad. Come here and let me give you a big hug.

Reward your child with attention and kind words. Comfort him or her with hugs and talks. Show love by spending time and having fun together.

What does a Serving Size look like?

Fruit: 1 medium fruit is equal to the size of a baseball



Vegetables: 1/2 cup cooked is the size of a computer mouse



Pasta: 1/2 cup cooked is the size of a computer mouse



Cheese: 1 ounce, or the size of 2 dice







Bread: 1 ounce is the size of a CD case



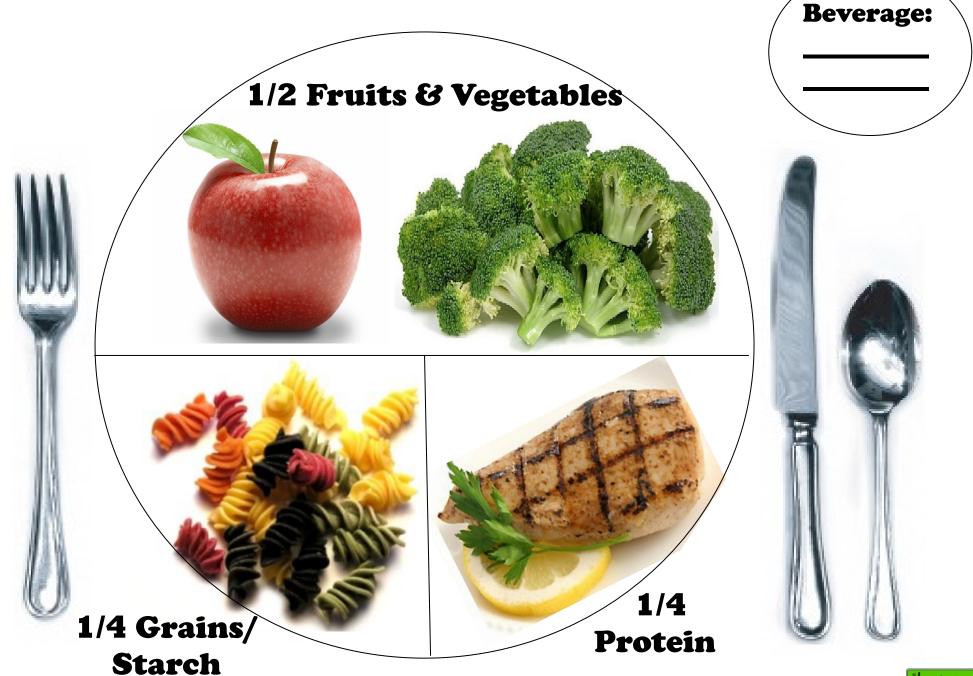
Peanut Butter: 2 Tbsp is the size of a ping-pong ball







The Plate Method





Daily Servings and Portion Sizes for the Preschool-aged Child

Food Group	Recommended	Portion Size Guideline		
Took Group	Daily Servings	1-3 years	4-5 years	
Grain Group	≥ 6 servings		J T J T T T T T T T T T T T T T T T T T	
* Choose whole grain, whole wheat				
or white wheat breads and				
cereals.				
Bread		1/4-1/2 slice	1 slice	
Buns, bagels, muffins		1/4-1/2	1/2	
Crackers		2-3	4-6	
Dry cereal		1/4-1/3 cup	1/2 cup	
Cooked cereal		1/4-1/3 cup	1/2 cup	
Rice, pasta		1/4-1/3 cup	1/2 cup	
Biscuits		½ small (3-inch biscuit)	1 small (3-inch biscuit)	
Fruit/Vegetable Group	≥5 servings			
_				
Examples: Citrus fruits, kiwi, pineapple,				
melon, berries, apples, broccoli, sweet				
potatoes, greens, green beans, tomatoes, etc.				
XX71 1 -		1/2 small	1/2-1 small	
Whole		1/4-1/3 cup	1/2 cup	
Cooked, canned in own juice, or				
chopped raw		1/4-1/3 cup	1/2 cup	
100% fruit juice (unsweetened)				
❖ No more than half of servings				
should come from juice.				
We do not recommend fruit				
drinks such as Sunny D, Hi-C,				
Hawaiian Punch, Jungle Juice,				
Bright n' Early, lemonade.				
Bright if Early, femonate.				
Milk, Yogurt, or Cheese Group	≥ 3 servings			
Milk, yogurt	≥ 3 set villes	1/2 cup (4 oz)	3/4 cup (6 oz)	
Cheese		1/2 cup (1 oz)	3/4 oz	
Meat Group	2 servings	1,2 02	5, 1 0 <u>E</u>	
Lean meat, chicken, fish	2 sei vings	1-3 Tbsp	1-3 Tbsp	
Dry beans and peas		2-4 Tbsp	4-5 Tbsp	
Egg		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Peanut butter		1 Tbsp	1-2 Tbsp	
Fat and Oils Group	3-4 servings	1 tsp	1 tsp	
Margarine, butter, oils	J-7 SULVINGS	1 Tbsp "light"	1 Tbsp "light"	
margarine, butter, ons		1 100h 11911t	1 100h 11211t	

Adapted from American Dietetics Association Pediatric Nutrition Manual, "Nutrition for the Preschool Child." 2nd edition, 2003.







Recommended Total Daily Amounts for Children Ages 1-8 years

Food Group	1 year	2-3 years	4-8 years
Fat Free or Low Fat Milk or Yogurt	16 oz*	16 oz	24 oz
	(2 cups)	(2 cups)	(3 cups)
Cheese (1 ounce of cheese is ed	quivalent t	o 1 cup of m	ilk)
*The American Academy of Pediatrics recommends t before age		educed fat milk n	ot be started
Lean Meat/Beans	1.5 oz	2 oz	
Girls			3 oz
Boys			4 oz
Vegetables	³ / ₄ cup	1 cup	
Girls			1 cup
Boys			1.5 cups
Fruits	1 cup	1 cup	1.5 cups
Girls and Boys	·	·	
Grains**	2 oz	3 oz	
Girls			4 oz
Boys			5 oz

**1 oz = 1 slice bread = 1 cup dry cereal = $\frac{1}{2}$ cup cooked cereal, rice or pasta

Adapted from Gidding et al. Dietary Recommendations for Children and Adolescents: A Guide for Practitioners. *Pediatrics* 2006;117;544-559.



Younger Children Need Smaller Amounts...Give your child age-appropriate portions.

SAMPLE MENU FOR THE 1- TO 2-YEAR-OLD CHILD

BREAKFAST	LUNCH	DINNER
Whole milk (1/2 cup)	Whole milk (1/2 cup)	Whole milk (1/2 cup)
Oatmeal (1/3 cup)	Grilled cheese Sandwich (1/2)	Chicken (1 $\frac{1}{2}$ oz)
Mandarin Oranges (1/4 cup)	Cooked carrots (2 Tbsp)	Gravy (2 Tbsp)
Margarine (1/2 tsp)	Banana (1/2)	Dinner roll (1)
Whole-wheat toast (1 slice)		Cooked peas (2 Tbsp)
Jam or fruit spread (optional)		Margarine (1/2 tsp)
		Mashed potatoes (2 Tbsp)
MIDMORNING SNACK	MIDAFTERNOON SNACK	EVENING SNACK
Vanilla Wafers (2)	Fruit yogurt (1/2 cup)	Applesauce (1/4 cup)
Orange Juice (1/2 cup or 4 oz)	Bug Bites or animal crackers (3-4)	Graham Crackers (2 squares)
-	Water	Whole milk (1/2 cup)

SAMPLE MENU FOR THE 2- TO 3-YEAR-OLD CHILD

BREAKFAST	LUNCH	DINNER
Skim, 1% low-fat milk (1/2 cup)	Skim, 1% low-fat milk (1/2 cup)	Skim, 1% low-fat milk (1/2 cup)
Oatmeal (1/3 cup)	Grilled cheese sandwich (1/2)	Chicken (1 $\frac{1}{2}$ oz)
Mandarin Oranges (1/4 cup)	Cooked carrots (2 Tbsp)	Gravy (2 Tbsp)
Margarine (1/2 tsp)	Banana (1/2)	Dinner roll (1)
Whole-wheat toast (1 slice)		Cooked peas (2 Tbsp)
Jam or fruit spread (optional)		Margarine (1/2 tsp)
		Mashed potatoes (2 Tbsp)
MIDMORNING SNACK	MIDAFTERNOON SNACK	EVENING SNACK
Vanilla Wafers (2)	Fruit yogurt (1/2 cup)	Applesauce (1/4 cup)
Orange Juice (1/2 cup or 4 oz)	Bug Bites or animal crackers (4-5)	Graham Crackers (2)
·	Water	Skim, 1% low-fat milk (1/2 cup)

SAMPLE MENU FOR THE 4- TO-5-YEAR-OLD CHILD

BREAKFAST	LUNCH	DINNER
Skim, 1% low-fat milk (1/2 cup)	Skim or 1% low-fat milk (1/2 cup)	Skim or 1% low-fat milk (1/2 cup)
Ready-to-eat low-sugar cereal	Peanut butter and jelly sandwich	Chicken (2 oz)
(1/2 cup)	(whole)	Gravy (3 Tbsp)
Mandarin Oranges (1/2 cup)	Carrot sticks (1/3 cup)	Dinner roll (1)
Margarine (1/2 tsp)	Banana (1 small)	Cooked peas (1/4 cup)
Whole-wheat toast (1 slice)		Margarine (1/2 tsp)
Jam or fruit spread (optional)		Mashed potatoes (1/4 cup)
MIDMORNING SNACK	MIDAFTERNOON SNACK	EVENING SNACK
Vanilla wafers (3)	Fruit yogurt (1 cup)	Applesauce (1/2 cup)
Orange juice (1/2 cup or 4 oz)	Bug Bites or animal crackers (6)	Part-skim string cheese (3/4 oz)
	Water	Whole-wheat crackers (5)
		Skim or 1% low-fat milk (1/2 cup)





Parents & Guardians as Role Models

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- Eat smart and move more. Your children will learn by watching you make healthy choices.
- Try new foods with your child
- Eat meals as a family
- Eat lunch with your child at school
- Get active with your child (walk, bike, play)
- Provide meals with foods from each food group
- Reward your child with non food items
 - o Give them praise!!!
 - Take them to the movies
 - o Buy them a book or tape of their choice
- Talk to your child about healthy eating
- Keep healthy snacks in your house
- Limit fast food and restaurant meals
- Limit time in front of the T.V.
 - o 2 hours per day maximum
- Eat at the kitchen table and turn the TV off when eating
- Avoid criticizing or name calling
- Try to turn negatives into positives
 - Example: If your child wants to eat a candy bar and soda for a snack

- Negative response: "You shouldn't eat that because you are going to get fat"
- Positive response: "How about a granola bar that has chocolate chips and a flavored water or milk"



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My Goals as a Parent or Guardian:

1			
2			
3			
Signature:_ Date:			
Date:			



Think Before You Drink!!!

- **Q**. Can some drinks cause me to gain too much weight?
- A. YES!! Drinks sweetened with sugar give your body calories but no nutrition from protein, vitamins and minerals.

WHAT YOU SHOULD DRINK:

LOW-FAT MILK (1% or Skim) 2-3 cups (3-9 yrs) 3-4 cups (≥10 yrs)



WATER

Drink plenty!!!
Consume at least:

5-6 Cups (1-3 yrs) 7-8 Cups (4-8 yrs) 10-11 Cups (9-18 yrs) 9-13 Cups (18yrs-adults)



Enjoy Milk:

- * with meals
- * on low sugar cereals
- * in hot beverages

Low- or Non-fat Yogurt

- * on the go
- * as a Smoothie

Ways to Enjoy Water

- * Keep a water bottle with you: in the car, at work, at school, at home
- * Add a Crystal Light ™ or sugar-free drink mix to your water
- * Try low-calorie flavored waters (like Propel™)
 - * Encourage children to drink more water: with meals and snacks
- * Drink water before, during, and after being active

Limit Your Juice Intake

Look for 100% juice

No more than **4-6 oz per day** for children 6months to 7 years

No more than **8-12 oz per day** for children 7 to 18 years

Choose the whole fruit as often as possible:

There's more fiber and often less calories in fresh, frozen, or canned fruit





Think Before You Drink!!!

Use this table to help you choose a smart drink.

1 cup (8 oz)	Calories	Sugars (g)	Calcium (mg)
Water (plain or flavored)	0	0	0
Crystal Light or other sugar –free powders	5	1	0 (some types are fortified)
Milk, Skim	85	12	300
Milk, 2%	130	12	300
G2 Sports Drink	30	8	
Sports Drink- Gatorade	76	19	0
Sweet Tea	90	23	0
100% Orange Juice	105	24	30 (some types are fortified)
Regular Soft Drink/Lemonade	108	27	0
Energy Drink (MonsterEnergy)™	100	27	0
Fruit Drinks or Punch	116	29	0
Sunny Delight	130	30	0
Cranberry Cocktail	144	36	7
Sweetened coffee drinks	210-310 with whipped cream: 310-410	36-49	0-100 depends on the amount of added milk

Having one extra cup of a sweetened drink every day for one month can cause your body weight to go up by one pound.

That is equal to 12 pounds in one year!!





Eat a Rainbow Fruits & Veggiss

Red - strawberry, watermelon, apple, cherry, cranberry, raspberry, red pepper, red onion, tomato

Yellow/Orange - orange, apricot, mango, nectarine, peach, tangerine, squash, carrot, yellow pepper, pumpkin, corn, sweet potato, cantaloupe, pineapple

White - banana, cauliflower, jicama, mushroom, onion, white potato, shallot, turnip

Green - apple, grape, kiwi, pepper, asparagus, broccoli, green bean, okra, pea, celery, zucchini, cabbage, cucumber, lettuce, spinach, turnip/collard/mustard greens, honeydew

Blue/Purple - blackberry, blueberry, plum, fig, grape, raisin, purple cabbage, eggplant, dried plum

What is a Serving?

A serving of **fruit** equals:

1 medium piece of fruit

3/4 cup (6 oz) of juice

1/4 cup of dried fruit

1/2 c of canned* or frozen fruit

*fruit should be canned in own juices

A serving of **vegetables** equals:

1/2 cup of chopped raw or cooked vegetables 1 cup of raw leafy vegetables



Be a positive role model!

Make sure your child sees you eating fruits & veggies. Make

positive comments as you serve

and eat fruits & veggies.

Get your children involved! Teach them how to plan, shop, & prepare for meals & snacks using fruits & vegetables...then let them help out!

Fruits & Vegetables provide nutrients such as Vitamin A and C, fiber, and folic acid. Try to eat fruits & vegetables that are different colors to get all the nutrients your body needs to stay healthy!





Healthy Tips

 Fresh, canned, & frozen fruit are all healthy choices. Remember to buy canned fruit that only contains fruit juice, not syrup.



- Many fruit drinks and juices contain added sugar. The best choice is 100% fruit juice. Because
 of the sugar content, even 100% fruit juice should be limited to 3/4 cup (6 oz) per day. Instead of
 drinking juice, eat the fruit instead!
- Make fruits & veggies available! Store washed & cut up veggies in the fridge where children can see them. Display a bowl of fresh fruit on the counter. Keep single servings of dried or canned fruit easily accessible for a snack at home or on-the-go.
- Add fruits & veggies to your family's favorites! Offer sliced bananas with cereal. Add chopped veggies or pineapple to pizza. Add carrot slices to chicken noodle soup. Add frozen &/or chopped veggies to casseroles, meatballs, & omelets. Puree veggies & add to spaghetti sauce, chili, or stews.



Introduce a new vegetable (along with a familiar one) when your child is hungry. Encourage him
to try at least one bite. Don't make a big deal about it if he declines. Offer the food again the next
time you prepare it. Remember, a child may have to see & try a new vegetable as many as 10
times before accepting it.

Delicious ways to enjoy Fruits & Vegetables

Frozen Grapes: Wash, dry, & freeze grapes for a refreshing snack at home or on-the-go.

Create-a-Salad: Build a custom salad by adding your favorite fruit & veggie toppings to leafy greens: mandarin oranges, dried cranberries, carrot sticks, cucumbers, broccoli, peppers, tomatoes, celery.

Fruit Smoothie: Start with your favorite frozen fruit. Add some low-fat yogurt and milk and blend away!

PB & Banana: A twist on the traditional peanut butter & jelly - instead of the jelly, slice a banana on your sandwich.

Chilly Banana - Peel a banana & cut in half. Insert a popsicle stick in the center. Wrap a banana in foil & freeze. Enjoy frozen banana plain or with 1 teaspoon of peanut butter.

Caterpillar Crawl - Fill a celery stalk with 1 teaspoon peanut butter & add several raisins for the body. Add cut up carrot sticks for the antennae.

Rainbow Fruit Salad - Make a colorful fruit salad with all of the children's favorite fruits (fresh and/or canned) that they picked out at the supermarket.

Fruit Parfait - Stir low-fat or fat-free granola into a bowl of low-fat or fat-free yogurt. Top with fresh or frozen berries.





DAILY SPECIALS - BREAKFAST

BREAKFAST OF CHAMPS

Whole grain cereal & low-fat milk topped with sliced bananas

OATS & MORE

Microwavable oatmeal with chopped apples and walnuts made with low-fat milk

PB & B

Whole wheat toast with peanut butter and sliced bananas served with low-fat milk

BREAKFAST PARFAIT

Low-fat vanilla yogurt swirled with crunchy high-fiber cereal and blueberries

MORNING GRAHAMS

Graham crackers dipped in low-fat yogurt with apple juice to drink

CINNA-TOAST

Whole grain cinnamon-raisin toast topped with low-fat yogurt

EGGS-ELLENT

Whole wheat pita pocket filled with scrambled eggs and topped with grated cheese

PROTEIN POWER

Turkey and low-fat swiss cheese on whole wheat sandwich bread

ROLL IT UP

Whole wheat tortilla wrapped around low-fat string cheese with a side of grapes

BAGEL BREAKFAST

Toasted whole grain bagel half layered with apple slices & reduced fat cheddar cheese

MIX IT UP

Whole grain cereals, craisins, sunflower seeds, and pretzels mixed to perfection

CHEESEY TOAST

Low-fat cheese melted on whole-grain toast with 100% grape juice to drink

TORTILLA

Whole grain tortilla filled with scrambled eggs or beans, topped with cheese & salsa

SUNRISE SMOOTHIE

Frozen mixed berries, low-fat vanilla yogurt, and orange juice blended together

Drive-thru breakfast? Choose wisely!

When eating out for breakfast, look for healthy choices on the menu, such as...

Chick-Fil-A: chicken, egg, & cheese bagel (request grilled chicken); fruit cup, carrot & raisin salad, low-fat milk, orange/apple juice, water

McDonalds: scrambled eggs, English McMuffin, Egg McMuffin (no butter), fruit & yogurt parfait, apple dippers, low-fat milk, orange/apple juice, water

BoJangles: grilled chicken filet on a bun (no mayo), buffalo bites, low-fat chocolate milk, orange juice, or water

Burger King: ham omelet sandwich, apple fries, low-fat milk, orange/apple juice, water





Rise and Dine! Start your day off right!

Eating a healthy breakfast...every day...does your body good!

- * Choose foods from 2 or 3 food groups to give your body the "fuel" it needs to get through the day.
- * If you run short on time in the morning, plan ahead!! Make your own "grab-and-go" breakfast the night before and eat it on the way to school.
- * Not hungry in the morning? Start with something small such as fruit, string cheese, or a piece of toast.
- * See below for some healthy ideas that can also make great "grab-and-go" breakfasts!

GRAIN GROUP

Whole wheat bagel, bread
Whole wheat pita
Whole grain cereal
English muffin
Oatmeal, Grits
Whole grain crackers
Whole wheat tortilla
Whole grain granola bar(look for 2g or more fiber
and 12g or less sugar)

FRUIT GROUP

Fresh - banana, apple, grape, plum, clementine, mango, strawberry, blueberry, melon, pineapple, orange Dried - raisins, dried plum, dried cranberry

Canned - in light syrup or in its own juice

100 % fruit juice

Got breakfast? Breakfast really is the most important meal of the day!! Eating a healthy breakfast helps us achieve and maintain a healthy weight. People who eat breakfast take in more nutrients and fewer calories over the course of a day. Breakfast can also help improve heart health and blood pressure.

Hey kids, don't forget about...

School Breakfast!

Studies show that kids who eat breakfast do better in school than kids who don't.
Breakfast eaters tend to have:

- * Better Math & Reading scores
- * Better classroom behavior
- * Better school attendance
- * Improved memory, alertness and concentration
- * Less stomachaches/headaches

MILK GROUP

Fat-free (skim) milk
Low-fat (1%) milk
Low-fat flavored milk
Low-fat yogurt
Low-fat sliced cheese
Low-fat string cheese
Low-fat grated cheese
Low-fat cottage cheese
Pudding made with
low-fat milk

PROTEIN GROUP

Lean deli meat
Walnuts, peanuts
Almonds, cashews
Sunflower seeds
Tuna
Peanut butter
Hard boiled or
scrambled egg
Beans
Turkey bacon/sausage



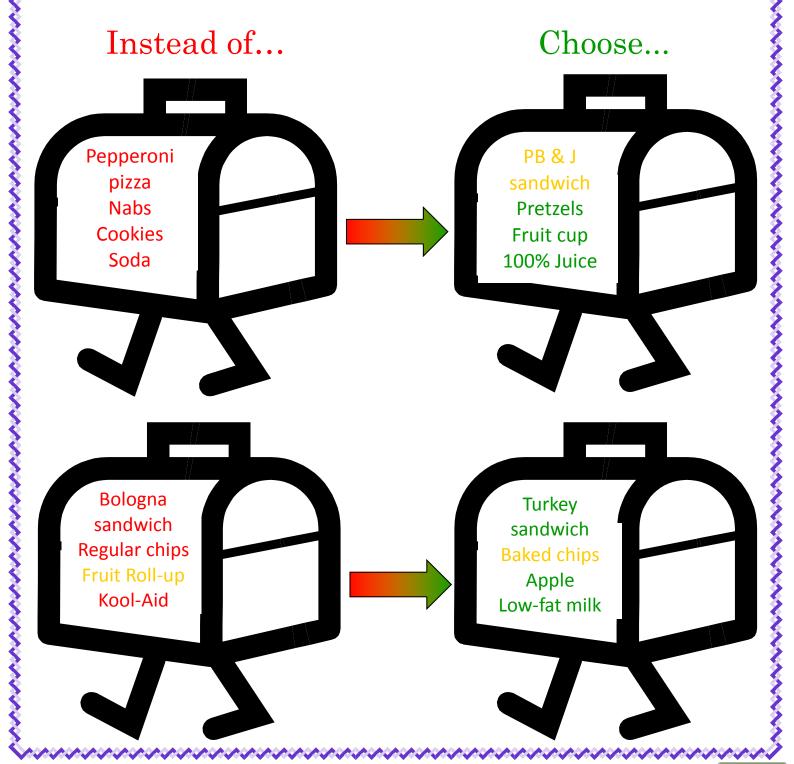
Parents, encourage your children to eat breakfast every day, whether at home or at school. Be a good breakfast-eating role model...your kids are more likely to eat breakfast if you do, too. Studies suggest that adults who skip breakfast are at greater risk for obesity, while those who eat breakfast have healthier weights. Kids and teens who eat breakfast are also less likely to be overweight.





Eat Smart Lunches

Lunch time is a great time to make healthy choices that will fill you up and give you energy to get through the rest of the school day. Be smart when packing your lunch...use the Stoplight Food Guide to help you choose "anytime" foods (green) over "sometimes" (yellow) or "rarely" (red) foods.



Tips for Packing a Healthy Lunch

- Look for **whole grain breads** 100% whole wheat bread, tortillas, bagels, English muffins, etc. If your child prefers the taste and texture of white bread, choose White Wheat bread...it has the same nutrition as whole wheat bread, plus added calcium!
- Switch from high-fat meats such as bologna, salami, and pastrami to **low-fat alternatives** such as turkey breast, chicken breast, or ham.
- Pack or ask for milk at school that is **fat-free** (skim) or low-fat (1%).
- Use cheese on sandwiches that is **low-fat or fat-free**.
- Pack a water or other sugar-free beverage instead of fruit drinks or soda.
- Choose **Winner's Circle** items! These healthy foods & drinks are marked with a * on your school lunch menu.
- Prepared lunch kits such as Lunchables are often high in fat and sugar. Make your own lunchables by combining...
 - -English muffin, pizza sauce, turkey pepperoni, low-fat mozzarella cheese
 - -Turkey breast slices, lite string cheese, whole grain crackers
 - -Mini-bagel, peanut butter & jelly, fruit cup

Instead of...

Chips Cookies

Snack Cakes

Bologna Soda

Fruit Punch

Choose...

Baked chips, pretzels Graham crackers Angel food cake

Turkey Diet Soda

Sugar-free drink

Plan ahead!

The best time to plan for lunch is the night before. Make sandwiches, put nonperishable items by your lunch bag, and put refrigerated items together in the front of the fridge.

Other Healthy Lunch Ideas...

PB & J sandwich

Turkey, cheese, tortilla roll-up

Carrot sticks & light ranch dip

Fresh or canned fruit

Applesauce

Light string cheese

Soup - vegetable, chicken noodle

Yogurt w/ low-fat granola Almonds, peanuts, walnuts Plain popcorn

Cereal - Frosted Mini Wheats, Honey Nut Cheerios, Rice Chex

Make-your-own trail mix - cereal, nuts, sunflower seeds, craisins, pretzels





Choose Wisely when Eating Out

Use the Stoplight Food Guide to lead you in the right direction when eating out. Choose green and yellow foods more often instead of red foods.

INSTEAD OF...

CHOOSE...

Bojangles

Biscuit or Biscuit sandwich

Fried chicken

Seasoned fries

Grilled chicken filet on a bun (no mayo)

Buffalo bites

Pintos, Cole slaw, Green beans, Rice, Mashed potatoes

(no gravy)

Burger King

Biscuit sandwich or Croissant'wich

Tendercrisp garden salad

Whopper w/ cheese

Crispy chicken sandwich

French fries

Ham omelet sandwich

Tendergrill garden salad w/ light dressing

Whopper Jr. (no mayo) or Veggie burger (no mayo)

Grilled chicken sandwich (no mayo)

Apple fries

Chick-Fil-A

Bacon, egg, & cheese biscuit

Crispy chicken sandwich

Chicken strips or nuggets

Waffle fries

Chicken (request grilled), egg, & cheese bagel

Chargrilled chicken sandwich or Grilled chicken salad

2 strips or 4 nuggets kids meal

Fruit cup or Side salad with fat-free or light dressing

McDonalds

Breakfast biscuit sandwich

Quarter Pounder w/ cheese

McChicken/Crispy chicken sandwich

6 or 10 pc nuggets, Chicken strips

French fries

Scrambled eggs, English muffin, or Egg McMuffin

Hamburger

Grilled chicken sandwich (no mayo), snack wrap, or salad

4 pc nuggets

Apple dippers, Fruit & yogurt parfait, Fruit & walnut

salad, or Side salad with low-fat dressing

Subway

12" regular sub

Regular potato chips

6" Fresh Fit sub (6g of fat or less) - with lots of veggies & mustard or fat-free dressing instead of mayo Apple slices, Baked potato chips, or Low-fat yogurt

Wendy's

Chicken BLT or Southwest salad

Double cheeseburger or Nuggets

French fries

Mandarin chicken salad or Chicken ceasar salad *ask for fat-free or light salad dressing Jr. hamburger, Grilled chicken sandwich or Wrap

Mandarin oranges, Side salad, Baked potato (light sour

cream & go light on the butter) or small Chili







Smart Eating On The Go

Tips for Eating Healthy when Eating Out

Order Wisely—Choose grilled, steamed, or broiled dishes over fried foods or remove the breading from fried foods before eating.

Beware of Large Portions—Choose the smallest size burger and fries. Skip the super-sized meal and order from the kids menu. Or, share your meal with a family member or friend.

Be Smart with Salads—Order salads with grilled instead of crispy chicken with low-fat or fat-free dressings. Hold the cheese, croutons, and bacon bits.

Be Smart with Sides and Extras—Choose fruits as side items instead of fries whenever possible. Substitute mustard or ketchup for mayo on burgers and sandwiches.

Don't Drink your Dinner—Order water, unsweetened tea, diet soda, or low-fat milk instead of soda, sweet tea, lemonade, or fruit punch.

Look for Healthy Dining Icons—Many restaurants now designate healthy options right on their menu. Choose these items or look for nutrition information on menu boards, brochures in restaurants, or nutrition information on the restaurant's website.

Explore Your Options...

Most restaurants offer a variety of menu items. Look for ways you can make your usual meal healthier.









Instead of:

2 cheeseburgers

Large Fries

Large Milkshake







Choose:

1 Grilled Chicken Sandwich

Small Fries

Diet Soda



(Eat Smart...) And MOVE MORE!





Children and adolescents need at least 60 minutes (1hr) of physical activity EVERY DAY.

This includes:

Aerobic Activity (like riding your bike, running, and dancing)

Minutes of physical activity I get at school each day: _____

The 60 minutes of activity do not have to be all at once.

Muscle-Strengthening Activity (like climbing trees, sit-ups, and swinging on playground bars)

Bone-Strengthening Activity (hopscotch, jumping rope, and sports like basketball and volleyball)

Try to do a combination of all three of these types of activities on most days of the week. Remember to include variety and activities that you really enjoy!

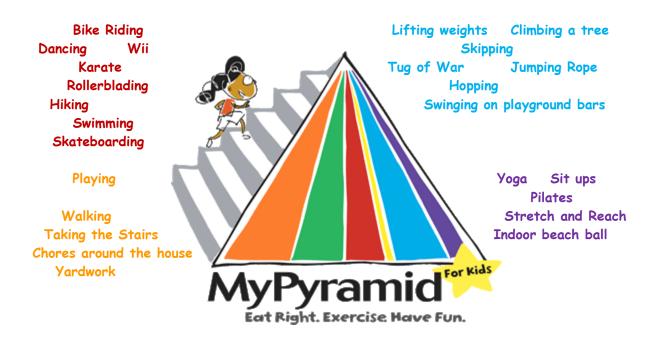
Minutes of	physical activity I get at home each day:
Minutes of	physical activity I get on weekend days:
How many n	ninutes do I need to add to reach my goal?
Learn more about	physical activity guidelines at:
http://www.health	n.gov/Paguidelines/guidelines/chapter3.aspx
•	ometer to count your steps - with a goal of at least 10,000 steps of this: 2100 steps = 1 mile = using 75-100 calories
	Help Set Your Own Activity Goals:
1.	
2.	



3.



BUILDING YOUR OWN "MY ACTIVITY" PYRAMID



Now add to your activity pyramid aerobic and sports activities that get your here. Choose from the fun things listed in the Sports and Recreation Activities and add in the sports and recreation Activities and add in the sports and recreation Activities and add in the sports and recreation Activities and add fun strengthening exercises that keep you strong. These are activities to do 3-5x/week - choose from the list of Muscle and Activities (and add your own!) 1		un use from the list of Lifesty 2	•	
Climb your activity pyramid and add fun strengthening exercises that keep you strong. These are activities to do 3-5x/week - choose from the list of Muscle and Activities (and add your own!) 12	•	• • •		
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Activities (and add your own!) 122.	•	• • •		1
3	•			
	· · · · · · · · · · · · · · · · · · ·			
Finish your activity pyramid with 3 fun activities that strengthen your bones an				

Finally: Remember to CUT DOWN on TV, sitting at the computer or video games, and sitting more than 30 minutes at a time.... KEEP MOVING!

Why is it important to be active every day? Being active helps you to do better on school work and helps to achieve and maintain a healthy weight!





Rainy Day Activities

Can't get outside? Pick from this list of indoor activities to help you reach your Physical Activity goal every day...even on rainy days!

Make an indoor obstacle course or fort out of furniture, blankets, pillows, and cushions.

Ideas for obstacle course:

Jump into a pile of pillows Scoot on the kitchen floor Jump rope 10 times in a row

Crawl/bend backwards underneath an elevated broom

Skip around toys
Run/crawl up a staircase
Do a somersault
Make a hopscotch course

Indoor scavenger hunt - Take turns hiding & finding. Set a time limit and move quickly!

Play an active game! Hide-and-seek, Simon Says, Twister, Balloon/Beach Ball Volleyball

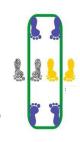
March around the house! Pretend to be in a marching band playing different instruments.

Circuit training - Create a routine using the following exercises: sit-ups, jumping jacks, wall push-ups, toe touches, knee lifts, side bends, stretching, invisible jump rope.

Exercise videos/DVDs



Chinese Jump Rope - Have 2 players hold a rope around their legs, creating a long rectangle. The 3rd player jumps in & out with one or both feet on different sides of the rectangle. If you have 1 or 2 players, place the rope around the legs of two chairs to create the rectangle.



Dance Party/Freeze Dance - A fun way to exercise is to have a dance party. Clear a space where you have room to move around easily, put on some music, and dance by yourself or with family and friends. Make up your own dance moves if you want. A variation you can play with your friends is freeze dance: when the music stops, you have to freeze in place. Play the music and stop it at random. See who can be the most still or freeze the fastest!



Red Light, Green Light - Stand 15 giant steps away from a partner, facing each other. When you say Green light, your partner can run towards you, but when you say Red light, he has to freeze in place. You can also choose fun ways for him to walk to you, like hopping, skipping, or pretending to be an airplane or bird. To add another twist, you can also call out Yellow light, which means he has to walk or move in slow motion.





Rainy Day Activities

Sports Moves - act out the following sports moves; do each for at least 10 seconds before moving on to the next; then repeat!

Shooting a jump shot Running through tires Batting a baseball Serving a tennis ball Spiking a volleyball Throwing a football

Dunking a basketball

Swimming underwater

Shooting a golf club

Shooting a hockey puck

Fielding a ground ball and throwing it to first base









As if - act out the following movements for at least 10 seconds before moving on to the next; then repeat! (Adapted from http://www.ncpe4me.com/energizers.html)

Jog in place **as if** a big scary bear is chasing you
Walk forward **as if** you're walking through chocolate pudding
Jump in place **as if** you are popcorn popping
Reach up **as if** grabbing balloons out of the air
March in place and play the drums **as if** you are in a marching band
Paint **as if** the paint brush is attached to your head
Swim **as if** you are in a giant pool of Jell-O
Move your feet on the floor **as if** you are ice skating
Shake your body **as if** you are a wet dog

Indoor Olympics - Set up an Olympic challenge for yourself using things in your house. Hand and Knees Crawl - Set up a finish line at the other end of the room with pillows or tape and see how fast you can crawl to it. Crab Walk - Set up a finish line at the other end of the room with pillows or tape. Get on your hands and feet like a crab (with your stomach facing the ceiling) and see how long it takes you to crawl to the finish line. Long Jump - Stand on the first stair up from the ground. Jump. Try it from two steps up, then three. World-Class Can Lifting - Pick the largest cans in your pantry and use them as dumbbells. See how many times you can do curls with them. Try it in a row on the same arm or alternate back and forth.

Mall Laps - To be active indoors but outside of your house, walk laps inside your local mall.

Limit screen time (TV, computer, video games) to less than 2 hours per day - If you do watch TV, participate in active commercial breaks - choose an activity from this handout and do it during commercials.





Whether a mid-morning "pick-me-up" or an afterschool mindful munchie, healthy snacks boost energy, provide additional nutrients, and can help prevent overeating at mealtimes. Use the suggestions as a guide to help plan low fat/low sugar and tasty snacks. A healthy snack should be about 200 calories and should contain more than one food group.



- Fresh fruit and low fat yogurt dip
- Fresh veggies and low fat salad dressing (Ranch, Honey Mustard, 1000 Island) or dips
- Fresh or canned fruit cups
- Dried fruit (apricots, raisins, pineapple, apple, plums) mixed with nuts (1/4-1/2 cup)
- Apple or banana slices spread with 1 Tbsp peanut butter



- String cheese (1-2) or low fat cheese cubes (from 2% milk) (1 oz serving)
- Low fat/low sugar pudding cups
- Nuts (1/4 cup)
- Trail mix (1/3 cup)
- Cottage cheese and fruit
- 4 saltine crackers with 1 Tbsp peanut butter
- Lean deli meats—ham, turkey, roast beef (2 oz)
- Light yogurt (fruit or low fat plain) with $\frac{1}{4}$ cup low fat granola



- Baked chips, pretzels, goldfish crackers, animal crackers (1/2 cup) with a glass of low fat milk
- Vanilla wafers (about 8) spread with 1 Tbsp peanut butter
- Vanilla wafers (about 8) with low fat, sugar free pudding
- $\frac{1}{2}$ -1 mini bagel with 2-3 thin slices of deli meat or 1 slice low fat cheese
- Low fat/low sugar breakfast or granola bar with 1 glass low fat milk
- 2-3 graham crackers with 1 glass of low fat milk or 1 Tbsp peanut butter
- Baked tortilla chips (about 12) dipped in salsa or low fat bean dip



HEALTHY SNACKS

Create a healthy snack with more than one food group. Select a food from at least 2 different columns.











Fruit	Vegetable	Dairy	Grains	Meats/Protein
Fruit Apples Berries Banana Grapes Nectarines Melon	Vegetable Carrots Celery Cauliflower Broccoli Cucumbers Asparagus	Light yogurt Low-fat milk (plain or flavored) Soymilk (plain or flavored) String cheese	Grains Whole grain or White-wheat bread Tortilla Baked tortilla chips Crackers Pretzels	Meats/Protein Lean luncheon meats (turkey, ham, roast beef) Canned tuna (in water) Refried beans Peanut butter (2 tbsp) Hard-boiled egg
Mango Pineapple Peaches Pears Canned fruit (in own juice) Applesauce Dried fruits (1/4 cup)	Tomatoes Bell peppers Jicama Radishes	Cheese (slices, cubed, shredded) Cottage cheese Ricotta cheese Low-fat cream cheese	Dry cereal Low-fat popcorn Oatmeal Instant Grits	Nuts (1/4 cup) Low-fat bean dip Hummus Low-fat hot dog Veggie dog or burger

Calcium



Why do I need calcium?

Calcium helps keep your bones and teeth strong. It also helps your heart work well and your muscles contract. Calcium also might help control your weight.

How much calcium do I need?

Age	Calcium
1-3 years	500 mg
4-8 years	800 mg
9-18 years	1300 mg

Where is calcium?

Food	Serving size	Calcium (mg)*	
Lowfat milk	8 ounces	300	
Lowfat yogurt	6-8 ounces	300 - 400	
Cheese pizza	‡ of 14″ pizza	360	
Pudding with lowfat milk	1 cup	260	
Lowfat cheese	1 ounce	200 - 275	
Mozzarella string cheese	1 stick	210	
Frozen yogurt, ice cream	½ cup	110, 90	
Orange	1 medium	50	
Collards, Broccoli	½ cup steamed	130, 50	
Oatmeal	½ cup	160	
Almonds	½ cup	150	

^{*}Average of all brands. Refer to the food label for most accurate calcium information

Calcium Fortified Foods and Supplements

There are a number of foods that have calcium added to them including orange juice, bread, and cereal. You can use the label to help you figure out how much calcium is in a food. Of course we want you to get your calcium from food, but if you can't, there are many calcium supplements that can be used.

Ways to get more calcium

- Sprinkle almonds on your yogurt, oatmeal, and ice cream.
- Add cheese to your sandwiches, salads, or vegetable dishes.
- Grab a mozzarella string cheese and an apple for a quick snack.
- Pour pudding into ice cube trays, add a popsicle stick and freeze for a cool summer treat.
- ❖ Remember the '5-3-2-1- Almost NONE' message to limit sugar-sweetened beverages to Almost NONE and replace them with lowfat milk, lowfat soy milk, or 4-6 ounces of calcium fortified 100% fruit juices.





Reading a Nutrition Facts Label for Calcium

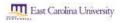
Nutrition Facts: Skim Milk Serving Size 1 cup (236 ml) Servings Per Container 1			
Amount Per Serving Calories 80 Calories From Fat 0			
9/	Daily Value		
Total Fat 0 g	0%		
Saturated Fat 0 g	0%		
Trans Fat 0 g			
Cholesterol 20 mg	5%		
Sodium 120 mg	5%		
Total Carbohydrate 11 g	4%		
Fiber 0 g	0%		
Sugars 11 g			To figure out the
Protein 9 g			amount of calcium
Vitamin A	10%		simply drop the %
Vitamin C	4%		and add a zero. In
Calcium	30%	←	this example using
Iron	0%		skim milk, an 8 oz
Vitamin D	25%		serving gives you
*Percent Daily Values are based on a 2000 calories die Values may be higher or lower depending on your calo Calories: 2000 2500			300 mg of calcium- That's 25-30% of the
Total Fat Less Than 65 g 80 g Sat Fat Less Than 20 g 25 g Cholesterol Less Than 300 mg 300 mg			calcium you need for the whole day!
Sodium Less Than 2400 mg 2400 mg Total Carbohydrate 300 g 375 g Fiber 25 g 30 g		'	

Examples of food sources to meet calcium needs for one day

Age group	Daily calcium needs	Examples of food sources	Amount of calcium
1-3 years	500 mg	1 cup lowfat milk	300 mg
•	_	₃ cup lowfat yogurt	200 mg
		· · · · ·	500 mg
4-8 years	800 mg	1 cup lowfat milk	300 mg
		1 mozzarella cheese stick	210 mg
		½ cup pudding with lowfat milk	130 mg
		½ cup oatmeal	<u>160 mg</u>
			800 mg
9-18 years	1300 mg	1 cup lowfat milk	300 mg
•	-	1 cup lowfat yogurt	350 mg
		1 mozzarella cheese stick	210 mg
		$\frac{1}{2}$ cup oatmeal or 1 cup calcium-fortified cereal	160 mg
		Sandwich with 1 ounce lowfat cheese	200 mg
		½ cup steamed broccoli	50 mg
		·	1270 mg











Let's Try New Foods!

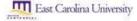


Enjoy all kinds of foods! That's good advice for kids- and for you. Why? When kids learn to enjoy many foods, they have more choices for smart eating throughout life. That's good because different foods promote growth and health in different ways.

Food variety makes eating more interesting and fun, too. Remember: seeing, trying, comparing, and talking about different foods is part of learning.

Good feelings about trying new foods help lead to a lifetime of healthful eating. Try new fruits and vegetables as fun experiences with your child.

- Offer a new food first, before foods your child eats already. Kids usually are more willing to try new foods when they're hungry.
- Have your child choose a new food as you shop. Trying new foods is more fun for kids when they pick them.
- Do a taste test. Talk about a new food. Have your child describe the color, shape, feel, sound, and taste- not whether they like it or dislike it. No "yucks" allowed.
- Go for at least "one bite". Avoid forcing your child to taste anything. Keep food sampling positive.
- Prepare new foods in different ways. Offer cooked veggies for a dinner and the same veggies raw with a snack. (For example: Broccoli cooked with fat free cheese, raw broccoli with low fat dressing dip.)
- Try and try again. Many kids need to try a new food many times before they like it. It's normal for kids to be cautious at first.
- Relax. Your child doesn't need to like every food. Everyone has different food favorites.





Ideas for Helping Your Child Try New Foods



Bread, Cereal, Rice, Pasta

- Brown rice. Use instead of white rice to add fiber and a nutty flavor to your recipes.
- **Couscous.** Add canned tomatoes, mixed veggies, and Parmesan cheese.
- Whole wheat pasta. For more fiber, use these noodles in place of the usual white pasta.

<u>Vegetables</u>

frozen mixed vegetables to create a colorful meal.
Heat a small amount of oil or cooking spray to a non-stick skillet. Add veggies (like broccoli, green and red bell peppers, mushrooms, and onions) and your own special seasonings.
Cook mixture until veggies are soft. Enjoy!

- Yellow squash or broccoli. Cook and top with low-fat cheese.
- **Sweet potatoes.** Lightly coat raw slices with cooking spray and bake (25-35 minutes at 375 degrees) until softened.

Fruits

- **Kiwi.** Peel, slice, and eat! You can also chop the top off and eat it out of the skin with a spoon (like a bowl).
- **Clementine.** Similar to a tangerine. Usually seedless. Very yummy!
- Papaya and Mango. Fresh, frozen or canned (tropical fruit mixture)
- Berries. Check the freezer section for frozen mixed berries (blueberries, blackberries, raspberries and strawberries), or pick them fresh at the patch!





Ideas for Helping Your Child Try New Foods

Milk, Yogurt, and Cheese

Meat, Fish and Protein

- Yogurt smoothie. Put ice cubes, light yogurt, and fruit in a blender for a healthy snack.
- Soymilk. Try calciumfortified, low-fat soymilk with oatmeal or cereal.
 Some sugar-free varieties are flavored too!
- Reduced-fat cheese is a tasty way to get calcium! String cheese is an example of a lower-fat cheese.
- Low-fat cottage cheese is good served alone, or with fresh or canned fruit.

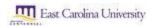
- Salmon. Bake or grill salmon with a mixture of orange juice, low sodium soy sauce, and garlic. Or, make salmon patties from canned salmon.
- Black beans. Cook with chopped onions and serve over brown rice. Add salsa and fat-free sour cream if desired.

Trying new foods doesn't mean that you must try something unusual. If your child has never eaten a carrot or tomato, then those would be examples of new foods to try.

If your child doesn't like it the first few times, **don't give up.**Many kids need to try a new food 5-10 times before they like it.

What are some new foods that you would like to introduce?

- 1.
- 2.
- 3.





RECIPES

HERB AND GARLIC FISH

1/4 cup Miracle Whip Light Dressing

1 tsp Italian seasoning

½ tsp garlic powder

4 fillets (4 oz each, 1 lb total) cod or orange roughy fillets

1 Tbsp lemon juice

- 1. Preheat broiler. Mix dressing and seasonings in small bowl.
- 2. Place fish on greased rack of broiler pan. Brush with dressing mixture.
- 3. Broil, 2 to 4 inches from heat, 6 to 8 minutes or until fish flakes easily with fork. Place on serving plate; sprinkle evenly with lemon juice.

Per fillet: Calories 135, Fat 4g (Saturated 0.6g), Cholesterol 52.5mg, Carbohydrate 3g, Fiber 0g, Protein 20g, Sodium 207mg.

FISH STICKS

1 Tbsp. canola oil



2/3 cup instant potato flakes

2 lb. firm white fish fillets, such as Pollack, cod, or haddock, cut into 16 4-inch-long, ½-inch-wide strips

Pinch of seasoned salt

Pinch of cayenne pepper

- 1. Preheat oven to 400°F.
- 2. Grease a baking sheet with the oil. Beat the egg in a small shallow bowl, and pour the potato flakes in a pie plate or shallow bowl.
- 3. One at a time, dip the fish fillets in the egg mixture. Then, dredge in the potato flakes, pressing with your fingers to help the flakes adhere. Place the fish on the prepared baking sheet.

4. Sprinkle the fish with the seasoned salt and cayenne pepper. Bake, turning once, until puffy and golden, 20 to 25 minutes.

Makes: 8 servings. Serving size: 2 sticks

Per 2 sticks: Calories 126, Total Fat 3 g (Saturated 0 g), Cholesterol 75 mg, Sodium 78 mg, Carbohydrate 3 g, Fiber 0 g, Protein 21 g

CHICKEN NUGGETS

Canola oil spray

2 boneless, skinless chicken breast halves

1 to 2 Tbs. flour

2 egg whites, lightly beaten

1/2 cup plain bread crumbs

1/8 tsp. salt

1/8 tsp. pepper

- 1. Heat oven to 350°F.
- 2. Spray a baking sheet with canola oil and set aside.
- 3. Slice chicken into nugget-size pieces and sprinkle with salt and pepper. Dust chicken with flour, dip in egg whites, and coat with breadcrumbs. Bake until golden brown, 10 to 15 minutes, turning once halfway through cooking time.

½ recipe: Calories 202, Total fat 2g (Saturated 1g), Cholesterol 34 mg, Carbohydrate 23 g, 1 g fiber, 437mg sodium, Protein 21g.

TURKEY AND BLACK BEAN CHILI

1 lb ground turkey breast

1 can (28oz) diced tomatoes, undrained

1 jar (16oz) chunky salsa

2 cans (15oz each) black beans, drained, rinsed

1 medium green bell pepper, chopped

1 Tbsp. chili powder







- 1. Cook turkey in large saucepan on mediumhigh heat until no longer pink, stirring frequently.
- 2. Add remaining ingredients; mix well. Bring to a boil.
- 3. Reduced heat to low; simmer 20 minutes, stirring occasionally.

Makes 8 servings.

Per serving: Calories 200, Total fat 1.5g (Saturated 0g), Cholesterol 30mg, Carbohydrate 27g, Fiber 8g, Protein 22g, Sodium 560mg.

SLOPPY JOES

1 lb ground round (may substitute ground turkey breast)

1 large green bell pepper, chopped

1 large onion, chopped

1 ½ cans (10.75 oz each) reduced-sodium tomato soup

6 Whole-wheat or White wheat hamburger buns

- 1. In a nonstick frying pan, cook the ground meat, onion, and pepper until the meat is browned and the vegetables are tender, about 7 to 10 minutes.
- 2. Drain the meat well and return the mixture to the frying pan.
- 3. Add the tomato soup to the ground beef mixture and stir well. Simmer for at least 10 minutes.
- 4. To serve, place 2/3 cup of the Sloppy Joe mixture on each hamburger bun. Serve immediately. Makes 6 Sloppy Joes.

1 Sloppy Joe: Calories 318, Total fat 13g (Saturated 5g), Protein 23 g, Carbohydrate 29 gm, Fiber 3g, Cholesterol 57 mg, Sodium 399 mg.



CHEESY QUESADILLAS

1 ½ cups Reduced-fat Mexican-style shredded cheese

12 flour tortillas

¾ cup salsa

- 1. Spoon 2 Tbsp cheese onto center of each tortilla; fold tortilla over to completely enclose filling.
- 2. Spray large skillet with cooking spray.

 Cook 1 or 2 quesadillas at a time on medium-high heat 2 to 3 minutes on each side or until crisp and lightly browned on both sides.
- Cut each quesadilla into thirds. Serve warm with the salsa.

Makes 12 quesadillas.

Per Quesadilla (3 triangles) with 1 Tbsp salsa: Calories 133, Fat 5.75g (Saturated 2.75g), Cholesterol 10 mg, Carbohydrate 14g, Fiber 0.4 g, Protein 5g, Sodium 395 mg.

MACARONI AND CHEESE

2 ½ tbsp light butter

2 tbsp flour

1 cup low-fat milk or evaporated milk

4 ounces reduced-fat sharp cheddar cheese, grated

5 cups cooked macaroni

- In medium saucepan on low heat, melt butter and stir in flour until it makes a paste.
- 2. Gradually stir in milk until smooth. Cook until thickened.
- 3. Add cheese and cook until melted.
- Stir in macaroni. Pour into a serving dish and top with reserved cheese. Makes approximately 5 cups.

Per ½ cup: Calories 184, Fat 5.7g (Saturated 1.8g), Cholesterol 7.5mg, Carbohydrate 24g, Fiber 1.3g, Protein 8g, Sodium 116mg.





FRENCH FRIES

1 package (32 oz) frozen French Fries

- 1. Follow package directions, using oven method.
- 2. Drain on paper towels.
- 3. Serve immediately.

Per 14 pieces: Calories 120, Fat 3.5g, Saturated fat 0.5, Cholesterol 0mg, Carbohydrate 20g, Fiber 2g, Protein 2g, Sodium 350 mg.

BROCCOLI SUPREME

2 packages (10-ounces each) frozen chopped broccoli

1 cup reduced-sodium chicken broth

2 tablespoons reduced-fat mayonnaise

2 teaspoons dried minced onion (optional)



- 1. Combine broccoli, chicken broth, mayonnaise, and minced onion in large saucepan.
- 2. Simmer, covered, stirring occasionally until broccoli is tender.
- 3. Uncover, continue to simmer, stirring occasionally, until liquid is evaporated.

Makes: 7 servings.

Per $\frac{3}{4}$ cup: Calories 31, Total fat 1 g (Saturated <1g), Cholesterol 1mg, Carbohydrate 4g, Fiber 2 g, Protein 2g, Sodium 26 mg.

SAUTEED SUMMER SQUASH

2 cups summer squash (yellow or zucchini), sliced

Cooking spray

1 cup minced onions

1/4 tsp salt

1/4 tsp pepper

Parmesan cheese

- 1. Spray sauté pan with cooking spray.
- Add onions and sauté until golden brown.
- 3. Add squash and cooking until tender, about 10 minutes, stirring carefully to keep squash from sticking.
- 4. Sprinkle with grated parmesan cheese and serve. Makes 4 servings.

 $\frac{1}{4}$ recipe: Calories 15, Total Fat 0 g (Saturated 0g), Protein 1g, Total Carbohydrate 3g, Fiber 1 g, Sodium 125 mg.

PEAR POPS

16 oz can pear slices or halves, drained 8 oz low-fat yogurt with fruit, any flavor

- Pour fruit and yogurt into blender and blend until smooth.
- 2. Divide mixture among Popsicle molds or small paper cups; insert sticks.
- 3. Freeze until firm, about 3 hours.

Variations: Place bits of fruit or whole blueberries in the mold before pouring in pear mixture. Makes 4 pops.

Per pop: 98 calories; 1 g fat; 2 mg cholesterol; 36 mg sodium; 22 g carbohydrate; 1 g fiber; 3 g protein.

ANTS ON A LOG

2 celery stalks

2 tbsp peanut butter

2 tbsp raisins



- 1. Wash the celery and cut in half (each piece should be about 5 inches long).
- 2. Spread peanut butter in u-shaped part of celery, from one end to the other.
- 3. Press raisins gently into peanut butter. Enjoy your ants on a log! Serves 2.

1/2 recipe: Calories 130, Fat 8g (Saturated 1.75,), Protein 5g, Cholesterol 0mg, Carbohydrate 13g, Fiber 2.5g, Sodium 125mg.





ANGEL FOOD SURPRISE

- 1 Angel Food cake
- 1 lg. box instant sugar-free vanilla pudding
- 2 c. low-fat or fat free milk
- 1/2 c. low-fat sour cream
- 1 1/2 pts. fresh strawberries, sliced
- 1 (8 oz.) light whipped topping
- 1. Tear cake in medium size chunks and put half of the chunks into bottom of 9 x 12 inch pan.
- 2. In a separate bowl, mix pudding with milk. Add sour cream and blend together.
- 3. Pour pudding over cake chunks.
- 4. Place berries on pudding layer. Put remaining cake chunks over berries.
- 5. Cover with whipped topping and chill.

1/12 recipe: Calories 242, Fat 4.4g (Saturated 3.2g), Cholesterol 6.3 mg, Carbohydrate 46g, Fiber 1g, Protein 5.6g, Sodium 640 mg.



BERRY BLAST SMOOTHIE

- 1/2 cup fat free or 1% low-fat milk
- 1/2 cup fat free plain or light vanilla yogurt
- 1 cup frozen, unsweetened berries (blueberries, strawberries, raspberries, etc)
- 1 packet Splenda, sucralose, or preferred low-calorie sweetener, or 1 tsp honey
- 1. Put all ingredients into a blender and blend until smooth.

Makes 1 delicious, bone-friendly smoothie.

1 Recipe (made with fat free milk, light vanilla yogurt, blueberries): Calories 170, Total fat 1.5g (Saturated 0g), Cholesterol 5gm, Carbohydrate 34g, Fiber 4g, Protein 9g, Sodium 120 mg.

BANANA PUDDING

2 (1 oz) packages sugar-free instant vanilla pudding mix



- 4 cups low-fat or fat free milk
- 3 bananas
- 1/2 box (12 oz) vanilla wafers
- 2 cups Light or Fat-free whipped topping
- 1. In mixing bowl, combine pudding mix and milk; mix well.
- Slice bananas.
- 3. In 9 x 9-inch or 7 x 11-inch casserole, layer vanilla wafers, bananas, and pudding.
- 4. Repeat layers.
- 5. Top with whipped topping.
- 6. Chill at least 2 hours before serving. Makes 10 servings.

1/10 recipe: Calories 217, Total Fat 8g, (Sat 3.3g), Cholesterol 5mg, Carbohydrate 33g, Fiber 1.8g, Protein 4.6g, Sodium 179mg.

For more recipes and meal ideas, visit the following websites:

www.5aday.gov

www.3aday.org

www.diabeticcooking.com

www.mealsmatter.org

www.mealtime.org

http://kidsinthekitchen.ajli.org/?nd=home









Page 4



Tasty Cooking for a Healthy Family

Kitchen Tips:

- Let the kids help -- they love to cook and it's a great way to teach them healthy
 eating! Take them to the grocery store with you and let them pick out a new
 fruit or vegetable to try!
- Bake, broil, microwave, roast, steam, grill or stir-fry with pan spray in a non-stick pan.
- When baking, use applesauce in place of half the butter, shortening, or oil.
- Rinse canned beans and use them in place of half the ground beef in recipes. Cook ground beef separately and ahead of time. Cool and remove fat that has come to the top of the pan.
- Make half your grains whole-grain look for the word "whole" as the first ingredient.

Kick up the flavor the Low-Fat way:

- Add lemon juice or a twist of lime, hot sauce or salsa, mustard, parmesan cheese, salt substitute, low-fat salad dressings, or flavored vinegars.
- Try new herbs and spices oregano, basil, cilantro, parsley, cayenne, cumin, paprika

Individual Homemade Pizzas!

Ingredients:

- 1 whole grain bagel (3-1/2" diameter or 71g), or whole grain tortilla (6" diameter)
- Tomato sauce
- Low fat mozzarella cheese
- Toppings like diced green pepper, chopped onion, or chopped tomato
- Seasonings like oregano, basil, and pepper

Directions:

- 1. Set oven to low heat.
- 2. Spread tomato sauce on each bagel half or over tortilla.
- 3. Sprinkle the shredded cheese all over the tomato sauce.
- 4. Add your favorite toppings. Avoid high fat toppings such as pepperoni or sausage.
- 5. Put a light sprinkling of seasonings over toppings.
- 6. If you are using tortillas, roll your pizza up like a taco.
- 7. Put tiny pizzas on a baking sheet.
- 8. Bake in the oven on low heat for about 5 to 8 minutes. You'll know they're done when the cheese is bubbly.
- 9. Let cool for a minute, then enjoy your very own homemade pizza!



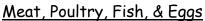


Choose any of the following foods

Milk, Yogurt, & Cheese

Evaporated fat free (skim) or reduced fat milk 2%, 1%, or skim milk
Sorbet, sherbet, low-fat frozen yogurt or ice milk
Light or fat-free Cool Whip
Light or fat-free sour cream
1/3-less fat (Neufchatel) cream cheese
Reduced-fat cheeses or fat-free singles
String Cheese

Lower Fat cottage cheese Part-skim ricotta cheese 1% milk or nonfat dry milk powder



Fat Free hot dogs

Ham or Turkey

Extra-lean ground beef/ground sirloin (97% lean)

Skinless breast (white) meat

Water-packed tuna

Grilled, baked, or broiled fish or shrimp

Egg whites

Pinto beans

Veggie (soy) burgers

Veggie (soy) sausage patties or links

Tofu



Bread, Cereal, Rice, & Pasta

English muffin or fat free muffin Sub roll Pita bread 2 inch Bagel White Wheat or Whole Wheat Loaf bread

Oatmeal or lower-sugar (less than 12 grams) whole-grain cereal

* Remember to make the above choices 'whole grain'!

Fruit & Vegetables

Fresh, frozen or canned fruit or juice, no added sugar and
Fresh, frozen or canned vegetables, no added fat or sugar



Other Foods

Mustard, ketchup, BBQ sauce, Salsa, cooking spray, ketchup, vinegar, Lemon juice







Eating Healthy on a Budget

These are some tips to help you eat healthy within your budget!

Eat first, and then shop later!

Eat a snack before you shop and leave any impulse shoppers at home. When we're hungry, high calorie foods seem more appealing.

Make a list

Plan ahead by taking a look at your cupboards and planning your meals for the week. Always write out your list at home and do not add items. The longer you are in the grocery store, the more money you will spend.

Buy less

Buy foods you use most and can be used in a variety of recipes. For example, when buying skinless boneless chicken breast you can use it for a baked chicken nugget recipe, a chicken stir fry recipe and a low fat chicken quesadilla recipe.

Be smart about fruits and veggies

- Shop what is in season and compare frozen, fresh and canned to select the best option.
- Check out local Farmer's Market and Farm Stands for fresh produce. Some produce may be less expensive, and local food means less fuel to transport it.

Eat and cook at home more often instead of buying readymade meals

 Most pre-packaged meals are high in sodium and fat. You'll feel more satisfied after tackling a new recipe or putting your own spin on an old one. It's both economical and often healthier for





- you and your family. Buying items in bulk such as rice, dried beans, or oatmeal may be less expensive than instant products.
- Use buying clubs to get discounts on bulk items, and then split the order with friends.
- Buying in bulk those items you use often is usually less expensive. You can then cook larger batches of food and freeze portions to enjoy later. Portioning out your food also ensures you eat the right amount for your appetite. Using left overs in stews omelets, soups and stir fry is economical and also saves time.

Limit amount of sugar sweetened beverages

 Sodas and fruit drinks may sometimes cost less than milk and 100% juice, but they don't provide the nutrients that we need.

Avoid bottled water or vitamin waters

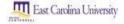
These often costs as much as gasoline. Tap water is always the best choice!

Limit chips, cookies and high calorie snack foods

These are often high in fat, calories, sodium and sugar. Opt for fruit and yogurt or veggies with low calorie salad dressing. These healthy snacks give you more nutrition 'bang for your buck'!

Choose a different protein

Meat is usually the biggest expense of our grocery costs. Substitute kidney, pinto, black or other beans in for your meat or poultry. Add a couple of bean-based meals twice a week to save money and add fiber.





Shop "stock up" sales and "buy one get one free" sales if it's for items you use.

- Beware of these types of sales of foods you do not normally use. It's not always worth the deal to buy more food than we need or can use.
- Use coupons for only what your family needs and if it costs less than another store. Sometimes coupons promote pricier or unhealthy items that you might not usually buy.

Choose the less expensive store or generic brands

 Brand-name items are often more expensive due to marketing costs. The store or generic brands usually have the same ingredients and are just as nutritious.

Check out the highest and lowest levels of the shelves

 Higher priced brands, that also tend to be high in sugar and calories, are often placed at eye level.

Pay attention to unit price

 The price per ounce or pound can clue you into the most economical product. If it's not listed on the shelf simply divide the price of the product by the number of ounces.

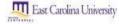
Check out dates

Always check the "sell by" or expiration dates on products. Look at the "reduced" section in the store. Often these items are close to the sell date. Remember foods are safe to eat and cook or freeze up to at least two days after the sell date.

Always review your receipts and track your spending

 You'll be able to determine how much you spend on what items and how much you are saving weekly, monthly and yearly.







How to Read a Nutrition Facts Label With Focus on Achieving a Healthy Weight

There are many 'lessons' to learn in reading a food label- serving sizes, calories, fat, and nutrients like fiber, calcium and sugars. In weight loss or maintenance the first thing to learn is what is a serving size for a certain food.

2% Milk Skim Milk

-	
Nutrition Facts	
Serving Size 1 cup (236 ml)	
Servings Per Container 1	
Amount Per Serving	
Calories 120 Calories From Fat	45
% Daily	Value
Total Fat 5 g	8%
Saturated Fat 3 g	15%
Trans Fat 0 g	
Cholesterol 20 mg	7%
Sodium 120 mg	5%
Total Carbohydrate 11 g	4%
Fiber 0 g	0%
Sugars 11 g	
Protein 9 g	
Vitamin A	10%
Vitamin C	4%
Vitamin C Calcium	4% 30%
	.,,
Calcium	30%
Calcium Iron Vitamin D *Percent Daily Values are based on a 20	30% 4% 25%
Calcium Iron Vitamin D *Percent Daily Values are based on a 20 calories diet. Your Daily Values may be	30% 4% 25% 00 e higher
Calcium Iron Vitamin D *Percent Daily Values are based on a 20 calories diet. Your Daily Values may be or lower depending on your calorie need	30% 4% 25% 00 e higher s.
Calcium Iron Vitamin D *Percent Daily Values are based on a 20 calories diet. Your Daily Values may be or lower depending on your calorie need Calories: 2000	30% 4% 25% 000 e higher s. 2500
Calcium Iron Vitamin D *Percent Daily Values are based on a 20 calories diet. Your Daily Values may be or lower depending on your calorie need Calories: 2000 Total Fat Less Than 65 g	30% 4% 25% 00 higher s. 2500 80 g
Calcium Iron Vitamin D *Percent Daily Values are based on a 20 calories diet. Your Daily Values may be or lower depending on your calorie need Calories: 2000 Total Fat Less Than 65 g Sat Fat Less Than 20 g	30% 4% 25% 000 e higher s. 2500
Calcium Iron Vitamin D *Percent Daily Values are based on a 20 calories diet. Your Daily Values may be or lower depending on your calorie need Calories: 2000 Total Fat Less Than 65 g Sat Fat Less Than 20 g Cholesterol Less Than 300 mg	30% 4% 25% 00 higher s. 2500 80 g 25 g
Calcium Iron Vitamin D *Percent Daily Values are based on a 20 calories diet. Your Daily Values may be or lower depending on your calorie need Calories: 2000 Total Fat Less Than 65 g Sat Fat Less Than 20 g Cholesterol Less Than 300 mg Sodium Less Than 2400 mg	30% 4% 25% 00 higher s. 2500 80 g 25 g 300 mg

←Start Here→

The 1st 'lesson' is to focus on what a serving size is for that food.

Controlling portions and choosing foods with less calories per serving is key in achieving a healthy weight.

**For this example, in the same 1 cup serving, skim milk has less calories and a lot less fat than 2% milk. For a healthy weight, skim milk would be the better choice.

Nutrition Facts			
Serving Size 1 cup (236 ml)			
Servings Per Container 1			
Amount Per Serving			
Calories 80 Calories From Fat	0		
% Daily	Value		
Total Fat 0 g	0%		
Saturated Fat 0 g	0%		
Trans Fat 0 g			
Cholesterol 20 mg	5%		
Sodium 120 mg	5%		
Total Carbohydrate 11 g	4%		
Fiber 0 g	0%		
Sugars 11 g			
Protein 9 g			
Vitamin A	10%		
Vitamin C	4%		
v Italiili C	.,.		
Calcium	30%		
Calcium	30%		
Calcium Iron	30% 0% 25%		
Calcium Iron Vitamin D *Percent Daily Values are based on a 20 calories diet. Your Daily Values may be	30% 0% 25% 00 e higher		
Calcium Iron Vitamin D *Percent Daily Values are based on a 20 calories diet. Your Daily Values may be or lower depending on your calorie need	30% 0% 25% 00 e higher s.		
Calcium Iron Vitamin D *Percent Daily Values are based on a 20 calories diet. Your Daily Values may be or lower depending on your calorie need Calories: 2000	30% 0% 25% 00 higher s. 2500		
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Calcium Iron Vitamin D *Percent Daily Values are based on a 20 calories diet. Your Daily Values may be or lower depending on your calorie need Calories: 2000 Total Fat Less Than 65 g Sat Fat Less Than 20 g	30% 0% 25% 00 higher s. 2500 80 g 25 g		
Calcium Iron Vitamin D *Percent Daily Values are based on a 20 calories diet. Your Daily Values may be or lower depending on your calorie need Calories: 2000 Total Fat Less Than 65 g Sat Fat Less Than 20 g Cholesterol Less Than 300 mg	30% 0% 25% 000 higher s. 2500 80 g 25 g 300 mg		
Calcium Iron Vitamin D *Percent Daily Values are based on a 20 calories diet. Your Daily Values may be or lower depending on your calorie need Calories: 2000 Total Fat Less Than 65 g Sat Fat Less Than 20 g Cholesterol Less Than 300 mg	30% 0% 25% 00 higher s. 2500 80 g 25 g		

- Another "label lesson" is when shopping for cereal, breads or whole grains (like crackers and cereal bars) look at the "Total Carbohydrate" section for:
 - o Less than 12 grams of sugar
 - o More than 2-3 grams of fiber







Eating for Heart Health



The American Heart Association made a new plan in 2006 for heart health. The plan is flexible to meet the needs of growth, development, and aging. The American Heart Association wanted to focus this plan on whole diet that will be sure to include all needed nutrients and balance food with activity.

The Eating Plan

Focus food choices on eating many types of veggies and fruits

- o Eat lots of whole grains with a focus on fiber
 - Legumes (beans, lentils), vegetables (such as green leafy veggies and broccoli), fruits (such as apple and berries), and oat bran
- Eat non-fried fish low in mercury 2 times a week like:
 - o Shrimp, light canned tuna, salmon, Pollack, and catfish
- Limit saturated fats which are found in fried foods (like French fries) and fatty meats like bacon, sausage, hot dogs, and bologna. Instead, eat more:
 - Lean meats, beans and veggie alternatives
 - o Fat free and low-fat dairy foods like yogurt
- Avoid trans fats which are found in
 - Many "junk foods" and sweets
 - Cakes, cookies, margarine, potato chips. Read labels to see the amounts of trans fats in foods
- Eat foods with little or no salt
- Drinks lots of water and avoid sugary drinks

Remember the heart healthy eating plan also when you are eating away from home!

Remember to be Active

Try for a total
60 minutes each day of
moderate to vigorous activityJumping rope, dancing, riding bikes, playing
tag and active computer games all count!







Omega 3 Fatty Acids and Flaxseed

The American Heart Association (AHA) recommends eating foods with omega 3 fatty acids because they are healthy for our hearts and also help lower triglyceride levels and blood pressure.

Eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA): are omega 3 fatty acids found in fatty fish like tuna and salmon The AHA recommends eating a variety of fatty fish at least twice per week up to about 12 oz.

Alpha-linolenic acid which is found in plant sources like flaxseed and walnuts can be become omega 3 fatty acid in our body. Canola and soybean oils are also sources of alpha-linolenic acid.

We recommend getting omega 3 fatty acids from the foods you eat rather than in capsules or supplements. It is not recommended for children to take these supplements unless prescribed by your doctor. It is also recommended that young children **do not eat** fish such as Shark, Swordfish, Mackerel, and Tilefish and to limit "white" tuna to 3-6 oz per week due to higher mercury levels. Local fish such as Bass, Bowin (black fish), and Catfish (wild) may also have high mercury levels. Check your local advisories about the safety of locally caught fish.

0.5-1.8 grams per day of EPA and DHA and 1.5-3 grams per day of alpha-linolenic acid are considered beneficial for heart health. Below are some sources of Omega 3 fatty acids and the amounts.

Food* Amount of Omega 3 (g)

Salmon, cooked (baked or grilled)	1.8 g per 3 oz
Tuna, light, canned in water, drained solids	.23 g per 3 oz
Shrimp, cooked (steamed or grilled)	.27 g per 3 oz
Pollock	.45 g per 3 oz
Flaxseeds	3.5 g (alpha linolenic acid) per 2 tbs
Walnuts	2.27 g (alpha linolenic acid) per ¼ c

^{*} Remember to bake or grill fish; omega 3 acids are not found in fried fish



Enjoy a recipe for **Blueberry Flax Pancakes**

INGREDIENTS:

1 ½ cups dry pancake mix 2 eggs (or 4 egg whites for lower fat version)

½ cup flax seed meal 1 cup fresh or thawed frozen

1 cup skim milk blueberries

DIRECTIONS:

- 1. Set nonstick skillet over medium heat
- 2. In a medium bowl, stir together the pancake mix and flax seed meal. In a separate bowl or measuring cup, whisk together the milk and eggs. Pour the liquid into the dry ingredients and stir until moistened.
- 3. Spoon ¼ cupfuls of batter onto hot skillet. Sprinkle with as many blueberries as desired. Cook until bubbles appear on the surface, then flip and cook until browned on the other side.

Nutrition Info (per serving- 2-3 pancakes)

Calories: 355 / Protein: 13.6 g / Fat (using whole eggs): 10.3 g / Carbohydrate: 53.4g / Fiber 6.4 g

Calcium: 356 mg/ Sodium: 798 mg







DASH Diet for Kids

What is the DASH Diet?

DASH stands for Dietary Approaches to Stop Hypertension or high blood pressure. This means choosing plenty of fruits, veggies, non-fat or low fat dairy and whole grains to help keep blood pressure under control. Look for foods with "No Added Salt" on the label and don't add salt to your foods. For more information on the DASH diet check out the National Heart, Lung and Blood Institute website, http://www.nhlbi.nih.gov.

Sample Menus for 1000 calorie diet

This means 3 ounces of grains, 1 cup of vegetables, 1 cup of fruit, 2 ounces of lean meat/beans and 2 cups of dairy products daily.

BREAKFAST

 $\frac{1}{2}$ cup cooked oatmeal, $\frac{1}{4}$ cup mandarin oranges, $\frac{1}{2}$ cup 2% milk

MID-MORNING SNACK

2 vanilla wafers and $\frac{1}{2}$ cup apple juice

LUNCH

 $\frac{1}{2}$ cup 2% milk, $\frac{1}{2}$ low fat grilled cheese and ham sandwich and $\frac{1}{2}$ apple

MID-AFTERNOON SNACK

 $\frac{1}{2}$ cup low fat yogurt and 3-4 animal crackers

DINNER

½ cup 2% milk, 1 ounce chicken baked, 1 slice whole wheat bread, 1/3 cup cooked carrots, 2 tbsp mashed potatoes

EVENING SNACK

 $\frac{1}{4}$ cup applesauce, 2 graham crackers squares, $\frac{1}{2}$ cup 2% milk

BREAKFAST

 $\frac{1}{2}$ cup ready to eat low sugar cereal, $\frac{1}{2}$ cup 2% milk, $\frac{1}{4}$ cup peaches

MID-MORNING SNACK

3-4 animal crackers ½ cup orange juice

LUNCH

 $\frac{1}{2}$ cup 2% milk, $\frac{1}{2}$ peanut butter and jelly sandwich, $\frac{1}{2}$ banana, 2 tbsp green beans

MID-AFTERNOON SNACK

 $\frac{1}{2}$ oz low fat cheese and $\frac{1}{4}$ cup applesauce

DINNER

½ cup 2% milk, 2 tbsp cooked beans, ¼ cup each of rice, broccoli, and corn

EVENING SNACK

 $\frac{1}{4}$ cup pears, 2 vanilla wafers, $\frac{1}{2}$ cup 2% milk

BREAKFAST

 $\frac{1}{2}$ cup oatmeal, $\frac{1}{4}$ cup peaches, $\frac{1}{2}$ cup 2% milk

MID-MORNING SNACK

2 graham cracker squares, ½ cup apple juice

LUNCH

 $\frac{1}{2}$ cup 2% milk, $\frac{1}{2}$ grilled low fat cheese sandwich, 2 tbsp carrots cooked, 1/3 cup pineapple

MID-AFTERNOON SNACK

½ cup low fat yogurt, 3-4 animal crackers

DINNER

 $\frac{1}{2}$ cup 2% milk, 1.5 ounces baked fish, $\frac{1}{4}$ cup each of rice, sweet potato and green beans

EVENING SNACK

 $\frac{1}{2}$ cup applesauce, 2 vanilla wafers, $\frac{1}{2}$ cup 2% milk





DASH Sample Menus for 1400 Calories

This means 5 ounces of grains, 1.5 cups of vegetables, 1.5 cups of fruit, 4 ounces of lean meat/beans, and 2 cups of dairy products daily.

BREAKFAST

 $\frac{1}{2}$ cup skim or 1% milk, $\frac{1}{2}$ cup low sugar cereal, $\frac{1}{2}$ cup applesauce, 1 slice whole wheat toast, 1 tsp margarine

MID-MORNING SNACK

3-4 vanilla wafers, $\frac{1}{2}$ cup orange juice

LUNCH

 $\frac{1}{2}$ cup skim or 1% milk, grilled low fat cheese sandwich, $\frac{1}{2}$ cup carrot sticks, 1 small banana

MID-AFTERNOON SNACK

1 cup low fat yogurt, 6 animal crackers

DINNER

 $\frac{1}{2}$ cup skim or 1% milk, 2 ounces baked chicken, 1 dinner roll, $\frac{1}{4}$ cup each of cooked peas and mashed potatoes

EVENING SNACK

 $\frac{1}{2}$ cup applesauce, $\frac{3}{4}$ ounce part skim string cheese, 5 whole wheat crackers, $\frac{1}{2}$ cup skim or 1% milk

BREAKFAST

1 hard boiled egg, 1 small (3 inch) biscuit, 1 tsp jam, 1 tsp margarine, $\frac{1}{2}$ cup peaches in light syrup, $\frac{1}{2}$ cup skim or 1% milk

MID-MORNING SNACK

4-6 graham crackers, $\frac{1}{2}$ cup orange juice

LUNCH

 $\frac{1}{2}$ cup skim or 1% milk, peanut butter and jelly sandwich, $\frac{1}{2}$ cup celery sticks, $\frac{1}{2}$ cup mandarin oranges

MID-AFTERNOON SNACK

1 cup low fat yogurt, 6 animal crackers

DINNER

 $\frac{1}{2}$ cup skim or 1% milk, 4 tbsp cooked beans, $\frac{1}{2}$ cup each of rice, broccoli and corn

EVENING SNACK

 $\frac{1}{2}$ cup applesauce, $\frac{3}{4}$ cup yogurt, $\frac{1}{2}$ cup skim or 1% milk

BREAKFAST

 $\frac{1}{2}$ cup skim or 1% milk, $\frac{1}{2}$ cup oatmeal, $\frac{1}{2}$ cup mandarin oranges, 1 slice whole wheat toast, 1 tsp margarine

MID-MORNING SNACK

3-4 vanilla wafers, $\frac{1}{2}$ cup apple juice

LUNCH

 $\frac{1}{2}$ cup skim or 1% milk, low fat cheese and turkey sandwich on whole wheat, $\frac{1}{2}$ cup pineapple in light syrup/juice, $\frac{1}{2}$ cup carrot sticks

MID-AFTERNOON SNACK

1 cup low fat yogurt, 6 animal crackers

DINNER

 $\frac{1}{2}$ cup skim or 1% milk, 2 ounces baked fish, $\frac{1}{2}$ cup each of rice, sweet potato and green beans

EVENING SNACK

 $\frac{1}{2}$ cup mandarin oranges, $\frac{3}{4}$ ounce part skim string cheese, 5 whole wheat crackers, $\frac{1}{2}$ cup skim or 1% milk







DASH Sample Menus for 1600 calories

This means 5 ounces of grains, 2 cups of vegetables, 1.5 cups of fruit, 5 ounces of lean meat/beans and 3 cups of dairy products daily.

BREAKFAST

1 cup skim or 1% milk, 1 cup low sugar cereal, 1 slice whole wheat toast, 1 tsp margarine and jelly, $\frac{1}{2}$ banana

LUNCH

 $\frac{1}{2}$ cup skim or 1% milk, peanut butter and jelly sandwich on whole wheat, $\frac{1}{2}$ cup each of celery and carrots, 1 tbsp lite ranch dressing, $\frac{1}{2}$ cup strawberries

DINNER

3 ounces turkey, 1 whole wheat bun, lettuce/tomato, $\frac{1}{2}$ cup of string beans, $\frac{1}{2}$ cup peaches

SNACK

1 part skim string cheese, $\frac{1}{4}$ cup raisins

BREAKFAST

1 cup skim or 1% milk, $\frac{1}{2}$ cup oatmeal, $\frac{1}{2}$ cup blueberries

LUNCH

1 cup low fat yogurt, 1 cup low fat granola, 1 small box raisins, $\frac{1}{2}$ cup celery

DINNER

3 ounces baked fish, $\frac{1}{2}$ cup rice, 1 cup broccoli, $\frac{1}{2}$ cup carrots, $\frac{1}{2}$ cup sliced pears

SNACK

1 cup skim or 1% milk, 4-6 graham crackers, 1 tbsp peanut butter

BREAKFAST

1 hard boiled egg, 1 small (3 inch) biscuit, 1 tsp margarine, 1 tsp jam/jelly, 1 banana, 1 cup skim or 1% milk

LUNCH

2 cups romaine lettuce, 2 ounces grilled chicken, 1 ounce low fat cheese, $\frac{1}{2}$ cup tomatoes, $\frac{1}{4}$ cup cucumbers, $\frac{1}{2}$ cup mandarin oranges, 2 tbsp lite salad dressing

DINNER

1 cup skim or 1% milk, peanut butter and jelly sandwich on whole wheat, $\frac{1}{2}$ cup sliced pears

SNACK

1 ounce or 9 mini pretzels, $\frac{1}{4}$ cup raisins









DASH Sample Menus for 1800 Calories

This means 6 ounces of grains, 2.5 cups of vegetables, 1.5 cups of fruit, 5 ounces of lean meat/beans and 3 cups of dairy products daily.

BREAKFAST

 $\frac{1}{2}$ cup apple juice, 1 hard boiled egg or $\frac{1}{4}$ cup egg beaters, 1 slice whole wheat toast, 1 tsp margarine, 1 tsp jelly/jam, 1 cup low sugar cereal, 1 cup skim or 1% milk

LUNCH

2 slices whole wheat bread, 2 ounces lean turkey, 1 slice/ounce low fat cheese, 1 tsp mustard, $\frac{1}{2}$ cup peaches in light syrup, 1 cup carrots and celery sticks

DINNER

3 ounces baked fish, 1 cup steamed rice, 1 cup asparagus, 1 whole wheat roll

SNACK

1 cup low fat yogurt, $\frac{1}{2}$ cup blueberries

BREAKFAST

1 small banana, 2 whole grain waffles, 2 tbsp low sugar syrup, 4 ounces low fat yogurt

LUNCH

 $\frac{1}{2}$ small baked potato, $\frac{1}{2}$ cup bean and lean beef chili, 1 tbsp low fat sour cream, $\frac{1}{2}$ cup steamed spinach, $\frac{1}{2}$ cup grapes, 1 cup skim or 1% milk

DINNER

3 ounces grilled lean steak, 1 cup romaine lettuce, $\frac{1}{2}$ cup sliced red peppers, 1 ounce low fat shredded low fat cheese, 2 tbsp lite salad dressing, $\frac{1}{2}$ cup cucumber slices, $\frac{1}{2}$ cup rice

SNACK

 $\frac{1}{2}$ cup low fat pudding, 4-6 graham cracker squares

BREAKFAST

1 cup low fat granola, 1 small orange, 1 cup low fat yogurt, 1 scrambled egg white

LUNCH

Grilled lean ham and low fat cheese on wheat bread, 1 cup low sodium tomato soup, $\frac{1}{2}$ cup applesauce

DINNER

2/3 cup whole wheat pasta, 3 ounces grilled chicken, 1 cup mixed green, yellow and red pepper steamed, $\frac{1}{2}$ cup steamed broccoli, 1 cup skim or 1% milk

SNACK

4 ounces low fat yogurt, $\frac{1}{2}$ cup raspberries







Ways to Lower Your Blood Cholesterol: © Eat Less Saturated Fat and More Dietary Fiber

Keeping blood cholesterol levels lowered and including more dietary fiber in your eating plan are recommended by the American Heart Association (AHA) as ways to reduce you and your child's risk of heart disease. Remember making small changes can mean big health benefits- see below for ways to make eating heart healthy a fun part of your lifestyle.

Instead of.....

- Bologna & high-fat lunch meat
- Bacon or sausage
- High fat ground beef
- Regular burgers, hot dogs
- Fatty cuts of beef
- Fatty cuts of pork
- Poultry with skin or dark meat
- Oil-packed tuna, fried fish
- Whole eggs
- · Butter, shortening
- Bacon grease, ham hocks
- Coconut oil, palm oils
- Whole milk/dairy, cheeses
- Take out pizza with meat toppings
- French fries
- "Creamy" salad dressings
- Commercial baked goods (muffins, doughnuts); "Little Debbie" cakes
- Pound cake, sheet cake
- Potato chips (Doritos, cheetos),
 Crackers (butter, cheese)
 "Nabs"
- 14000
- High fat cookies
- Ice cream

Eat more of

- Light bologna & lean deli meats (turkey, ham, chicken)
- Turkey bacon and Canadian bacon
- Ground sirloin
- Veggie burgers, turkey or chicken hot dogs
- Lean cuts: round, sirloin, chuck, loin
- Lean cuts: tenderloin, fresh leg or arm
- Skinless breast (white) meat
- Light tuna (in water); grilled shrimp, salmon, pollock
- Egg whites or egg substitute
- Benecol, Promise Activ margarines; "PAM" spray
- Molly McButter, chicken, beef, or vegetable bouillon
- Safflower, sunflower, canola, olive, peanut oils
- Low-fat or no fat dairy, yogurt and part-skim cheeses
- Homemade pizza made with low-fat cheeses and topped with veggies vs. meats; whole wheat crust
- Baked potato topped with low/no fat cheese
- "Light" , fat-free, and vinegar- based dressings
- Homemade lower-fat options made with soft margarine or from unsaturated oils- canola, safflower, sunflower, soybean, corn, cotton-seed oils
- Angel food cake, recipes made with above oils
- Pretzels, baked chips, "light", or air-popped popcorn, nuts, saltines, animal crackers, graham crackers, dried fruits
- Vanilla wafers, ginger snaps, fig/fruit bar cookies
- Sherbet, sorbet, 100% fruit juice bars, lowfat yogurt







FIBER-Part of a Healthy Eating Plan



Eating foods that are high in fiber is a way to lower your cholesterol and is part of healthy eating. Fiber is only found in plant foods, not in dairy or meat foods. Good sources of fiber are legumes, oat products, fruits, and vegetables.

The recommended amount of fiber is:

19 grams per day for children 1-3 years 25 grams per day for children 4-8 years Up to 38 grams for children 9-18 years

Remember that foods with 3 grams of fiber per serving is a "good source" And foods with 5 grams of fiber per serving is an "excellent source"

The amount of fiber in some foods

Air Popped popcorn, 3 cups: 4 grams
Whole Wheat Bread, 1 slice: 3 grams
Multi-Grain Cheerios, 1 cup: 3 grams
Chex Multi Bran Cereal, 1 cup: 7 grams
Oatmeal, 1 instant packet: 3 grams
Strawberries, 1 cup: 3 grams
Apple with Skin, 1 medium: 3 grams
Banana, 1 medium: 3 grams
Baked Potato with Skin, 1 medium: 4 grams
Cooked Broccoli, 1/2cup: 3 grams
Cooked Carrots, 1/2cup: 3 grams
Crunchy Peanut Butter, 2 Tablespoons: 2-3 grams

Here are some fun ways to eat more fiber:

- Spread crunchy peanut butter on apple slices (leave the peel on)
- Mix a high fiber cereal like Crunchy Corn Bran or Bran Chex with a lower fiber cereal like Cheerios or Kix
- Make a trail mix with higher fiber cereal (see above), dried fruits, nuts and sunflower seeds
- Make low fat popcorn balls with dried fruits and nuts
- o Raw broccoli, carrots, celery and green peppers dipped in low fat ranch dressing or bean dip
- Dip apple slices (leave peel on), peach slices, and cantaloupe in low fat vanilla yogurt by itself or mixed with low fat granola
- Make vegetable or fruit "kabobs" on popsicle sticks
- Spread crunchy peanut butter on a multi-grain "light" English Muffin or whole wheat bread
- Make a quesadilla with low fat cheese and beans on a whole wheat tortilla
- Top oatmeal with raisins







Healthy Guidelines for Weight Management

Your child has been identified as being overweight or at risk for becoming overweight. Weighing too much increases the risk that children will suffer complications from diseases such as high blood pressure, heart disease, diabetes, cancer, and sleep apnea.

It is important to work together as a family to help your child achieve a healthy weight. As the parent or guardian, you must model healthy eating and physical activity habits.

These are just a few tips to get your family on the right track. The whole family will need to practice eating healthier and being more active. Think of these changes as "being healthy", instead of "dieting":

- Eat regular meals (breakfast, lunch, dinner).
- Eat smaller portions, especially of high fat foods.
- Eat more fruits and vegetables (fresh, frozen, canned in natural juice).
- Drink more water or sugar-free beverages.
 - Avoid regular soda and other sugarsweetened beverages (Kool-Aid, Gatorade, juice, punch, and sweet tea).
 - Limit juice intake to 4-6 ounces per day.

they will need more calories each day.

Read the food label. It is important to be aware of the amount of calories each food provides per serving. Your child's energy needs depend on his/her body size, age, and activity level. For a "ball park" figure, use this table to estimate your child's energy needs. Keep in mind that these recommendations are for children who are less active. If your child is active,

Age (years)	Calories*	Carbohydrate (grams)	Protein (grams)	Fat (grams)
1-3	1000-1200	138-180	25-45	33-40
4-8	1200-1400	125-210	45-105	40-47
9-13	1600-1800	160-270	60-135	53-60
14-18 girls	1800-2000	180-275	67-150	60-67
14-18 boys	2200-2400	220-330	83-180	73-81

^{*}Energy needs based on IOM Estimated Caloric Requirements for Sedentary to minimum Moderately Active Activity Level. Macronutrient range distribution is as follows for >3y: Carbohydrate (40-60%), protein (15-30%), and fat (30%).









Healthy Guidelines for Weight Management

- Choose lean meats, poultry, and fish such as:
 - Chicken or turkey without the skin
 - Lean cuts of beef (ground round, flank steak, sirloin, tenderloin)
 - Lean pork trimmed of visible fat (tenderloin, center loin)
 - Any fish that is not breaded or fried (broiled, baked, and grilled are healthy choices)
 - Low-fat deli meat (less than 3 grams of fat per serving)
- Choose low-fat dairy products.
 - Switch from whole milk to 2% and eventually 1% or skim milk.
 - Eat lower-fat cheeses: cottage cheese, string cheese, fat-free cheese slices, ricotta, and feta.
 - Eat low-fat or fat-free ("light") yogurt.
- Avoid high-fat and high-sugar snack foods.
 - Beware of foods that are fat-free or sugar-free. They may still have a lot of calories, and it's tough to control portions.
 - Be creative with your snacks! A healthy snack includes smaller portions from 2 different food groups.
- Instead of frying foods, try baking, grilling, boiling, or broiling.
 - Use non-stick pans or cooking spray (ex: Pam) instead of oil.
- Move more and sit less!
 - Do not watch more than 2 hours of TV each day.
 - Make an effort to be active as a family.
 - Encourage your child to play at least 60 minutes every day.



For an individual nutrition evaluation, make an appointment with a registered dietitian. The dietitian will work with your child to develop personal goals to achieve a healthy weight. It is important for parents or guardians to attend these meetings for support and understanding of the issue. Your pediatrician will be able to provide you with the referral information you will need to schedule an appointment.





Name:	Physician:	DOB:/
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Food Diary Instructions (example diary is shown below):

- Choose three consecutive, typical days to record. Include two weekdays and 1 weekend day. For example: Thursday, Friday, and Saturday.
- 2. Record all foods and beverages (including water) that are consumed.
- List portion sizes of all foods and beverages. Be as specific as possible. For example: 2
 ounces of chicken breast, ¼ cup mashed potatoes, 8 ounces orange juice. Estimate
 meat portions after cooking.
- 4. List brand names of foods if known.
- 5. Describe how each food is prepared. (For example, fried chicken, scrambled eggs, and roasted pork.)
- 6. Record any "extras"/condiments used and amount. (For example, 1 tablespoon mayonnaise, 1 teaspoon butter, 2 tablespoons Italian salad dressing).
- 7. List any snacks (foods and beverages) consumed in between meals.
- 8. If you eat away from home, list the name of the restaurant.
- If a combination food was consumed (such as a casserole, salad, or stew), please list all ingredients and the total amount consumed.

Time	Amount	Food	How Prepared	Where Consumed
7:00 AM	2 cups	Honey-nut Cheerios	n/a	kitchen
	1 1/2 cups	2% milk	n/a	kitchen
	8 oz.	apple juice	n/a	kitchen
	1/2 piece	Wonder White bread	toasted	kitchen
	1/2 tsp.	Promise margarine, regular	n/a	kitchen
	1 tsp.	Smucker's grape jelly	n/a	kitchen
10:00 AM	1	medium apple	n/a	break room
12:30 PM	1	Chicken-Supreme Burrito	n/a	Taco Bell
	1	Beef Soft Taco	n/a	Taco Bell
	16 oz.	Dr. Pepper	n/a	Taco Bell
4:00 PM	1 pkg. (6 crackers)	Lance peanut butter/cheese crackers	prepackaged	home
	12 oz.	water	n/a	home
7:15 PM	4 oz.	chicken breast (no marinade)	grilled	home
	1/2 cup	Ragu alfredo sauce	heated-stove top	home
	1 1/2 cups	spaghetti noodles	boiled in water	home
	1/2 cups	tossed salad (iceburg lettuce, tomatoes)	n/a	home
	2 tbsp.	Kraft fat-free Italian dressing	n/a	home
	8 oz.	lemonade	prepackaged	home
9:00 PM	1/2 cup	Del Monte fruit cocktail (lite syrup)	prepackaged	home





FOOD DIARY

Name:		
Date:		

Time	Food	Amount	Brand Name	How Prepared	Where Consumed









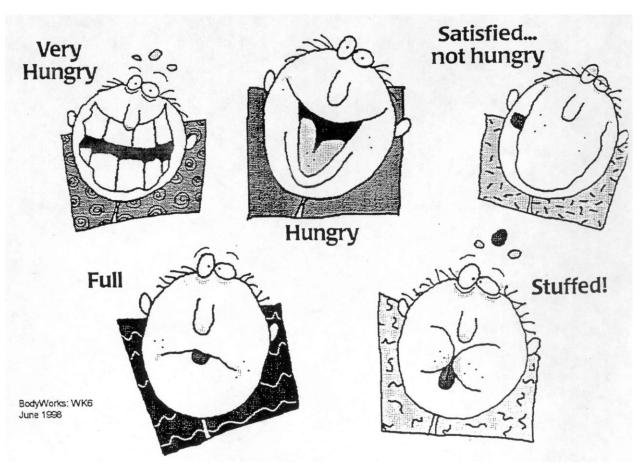
Hunger Scale

Most of us eat when we aren't hungry some of the time. Instead of listening to our body's sign of hunger, we eat for other reasons. Sometimes we start eating because it's time to eat, or it's our favorite food. Sometimes our feelings trigger us to eat when we aren't hungry.

For some of us, once we start eating, it is hard to stop. Overeating may be a habit, but overeating can also be triggered by our feelings, the great taste of a favorite food or watching TV while eating.

Try listening to your body's signs of hunger and fullness. Use the HUNGER SCALE to make a note of your hunger before you start and right after you stop eating. Write down how hungry you feel before you start eating – very hungry, hungry, not hungry, and then how you feel when you stop eating – satisfied, full, or stuffed.

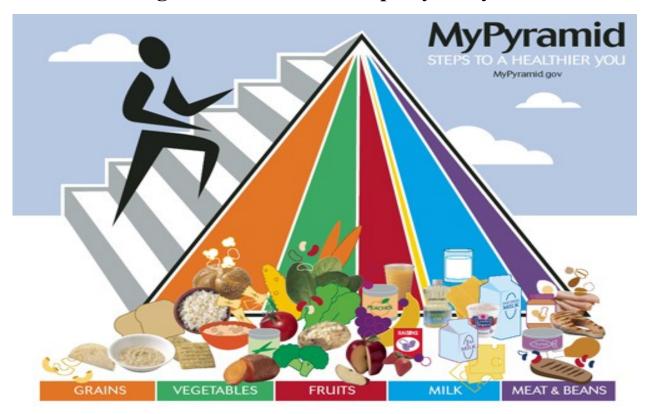
The goal is to learn to eat only when you are hungry and to stop when you are satisfied. This takes practice. Try to be honest with yourself and in touch with your feelings of hunger and fullness.







MyFIT Pyramid – Servings of Each Food Group My Body Needs



Breads, Cereals and Grains:

Fruits:

Milk and Milk Meat and Meat Alternatives:

Servings Needed:

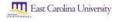
1 serving= 1 serving= 1 serving= 1 serving= 1 serving= 1 slice bread 1/2 c raw or cooked 1/2 c fruit 8 oz milk 2-3 oz meat, fish 1/2 c cereal, rice, pasta vegetables 4-6oz 100% 8 oz yogurt poultry 2 tbs peanut butter 1/2 mini bagel, roll, bun 1 c salad, green leafy fruit juice 1 oz cheese 2 eggs

Food Group	Servings Eaten Today	Servings Goal	Eat More Servings	Eat Fewer Servings
Bread				
Vegetables				
Fruit				
Milk & Milk Products				
Meat & Meat Alternatives				
Extras				
Scores				





Lab Measures, Goals, and Handouts





What is BMI?

Body Mass Index (BMI) is a number that is calculated for children and adults using height and weight measurements. For children (ages 2-20), this number is plotted on the CDC growth charts to compare BMI with other children of the same age and gender.

If you want to determine BMI, use the calculation below:

Weight (lb) / Height (in) / Height (in) x 703

What is Body Mass Index?

Body Mass Index (BMI) is a number that is calculated for children and adults using height and weight measurements. For children (ages 2-20), this number is plotted on the U.S. Centers for Disease Control (CDC) growth charts to compare with other children of the same age and sex.

How should I interpret my child's BMI?

The curved lines on the CDC growth chart show how your child's BMI ranks compared to other children his or her age and sex. For example, if a child is plotted on the 75th percentile line for BMI-for-age, it means that 75 of 100 children (75%) of the same age and sex have a **lower** BMI-for-age. It also means that 25 of 100 children (25%) of the same age and sex have a **higher** BMI-for-age.

According to the CDC, children with a BMI:

- Between the 85th and 95th percentile are at risk for overweight
- Greater than the 95th percentile are **overweight**.

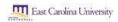
How is BMI decreased?

Body Mass Index will decrease if:

- Height is gained and weight remains the same
- Height is gained and weight is lost
- Height remains the same and weight is lost

It is not necessary to focus on weight. As children grow, if they are able to maintain their weight, their BMI will eventually decrease. This will reduce the risk of future health implications that are related to being overweight as a child. If your child is considerably overweight, they will work with their dietitian or health care provider to lose weight at a healthy rate. Eating smart and moving more are two important goals to build on as your child moves toward achieving a healthier weight.

It is important to keep track of your child's measurements at each doctor's office visit. This helps you see if there are any big changes in your child's growth. If your child's BMI changes a lot in one year, you should talk with your doctor about it.





What is cholesterol?

Cholesterol is a natural substance found in animal foods and also is made by our liver. High blood cholesterol may be partly due to genetics. It may also be a result of being overweight and eating food high in saturated fat and low in dietary fiber. If left untreated, poor blood flow may result and cause sudden heart attacks and strokes. High cholesterol can be "treated" by food, physical activity, and/or diet.

What are the "good" and "bad" cholesterols?

HDL= Healthy or "good". HDL particles help remove cholesterol from the arteries and helps return cholesterol to the liver.

LDL= Lousy or "bad". LDL can stay in blood vessels over time and lead to atherosclerosis (narrowing of the arteries due to fat deposits in the blood vessels). Studies have shown that high levels of LDL cholesterol are linked to a greater risk for stroke and heart attacks.

What are triglycerides?

Triglycerides are a type of fat made by the body or from fats eaten in foods. High triglyceride levels in the blood can lead to heart disease and early heart attacks

What should my child's cholesterol be?

Measurement	Optimal	Borderline	High
Total cholesterol	<170 mg/dl	170-199 mg/dl	>200 mg/dl
LDL cholesterol	<110 mg/dl	110-129 mg/dl	≥ 130 mg/dl
HDL cholesterol	≥ 35 mg/dl		
Triglycerides	<150 mg/dl		

What can I do to help my child achieve normal cholesterol and triglyceride levels?

- Achieve and maintain a healthy weight. Excess body weight is linked with high cholesterol, low HDL cholesterol, high triglycerides, diabetes, and higher risk of heart disease and early death.
- Eat foods low in saturated fat, cholesterol, and trans fat
 - o Limit your intake of saturated fat. Eat less fried foods and foods seasoned with fat
 - Use non-fat, and low fat dairy products. Limit coconut and palm kernel oils
 - Avoid foods with trans fatty acids like hard margarines. Look for margarines like Benecol and Promise Activ.
 - Limit French fries. Try a baked or sweet potato instead.
 - Eat higher fiber foods, fruits and vegetables
 - Eat more fish like water-packed light tuna, canned salmon, and shrimp up to 12 oz/wk. Eat skinless chicken.
 - Choose lean beef (90-95% lean) for making hamburgers, and low fat or nonfat hot dogs. Eat these foods less often
 - Eat take out pizza less often- You can make pizza with low fat cheeses and add veggies instead of meat
 - Choose the Winner's Circle foods at school and when eating out.
 - Be physically active most days of the week for at least 60 minutes. Even mild yet regular exercise
 has been shown to raise HDL cholesterol levels and lower triglycerides. This works even better
 while achieving and maintaining a healthy weight with low fat, high fiber foods.





What is high blood glucose?

Blood glucose is a measure of the sugar level in your blood. If the level is high, it means that there is too much sugar. If your blood glucose level remains high for a long period of time it can lead to damage of your blood vessels and organs and may lead to developing diabetes.

If your glucose lab value was elevated, there are several changes you can make in your diet before you have an appointment with a nutritionist.

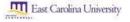
1. Begin to cut back on the number of sweetened beverages you drink including sodas, sweet tea, Kool-Aid, Jungle Juice and fruit punch. For children ages 1-6 years old, limit sweetened beverages to 4-6 oz per day and for children 7-18 years old, limit sweetened beverages to 8-12 oz per day.

Better choices include: plain or flavored water, diet sodas, Crystal Light, sugar-free Kool-Aid, or unsweetened tea with a sweetener such as Splenda or Equal.

If you drink juice, choose 100% juice and count this toward the sweetened beverages limit for the day.

- 2. Choose cereals wisely. Try to limit cereal to 1-cup servings. Limit intake of sugar-sweetened cereals such as Frosted Flakes, Fruit Loops, Fruity Pebbles or Coco Puffs. Instead, choose a cereal with less than 10 grams of sugar and at least 3 grams of fiber per serving.
- 3. Choose snacks wisely. Avoid eating snacks that have a lot of sugar. Healthier snack choices include graham crackers, string cheese, low-fat popcorn, carrot sticks, or fruit.

If you have any questions about your lab values and/or what you can do to improve them, be sure to consult your nutritionist or health care provider. They will educate you and your child about making healthier choices to help lower blood glucose levels.





What is high blood pressure?

Blood pressure is the force in the arteries when the heart beats (systolic pressure) and when the heart is at rest (diastolic pressure). It's measured in millimeters of mercury (mm Hg). In children and adolescents, high blood pressure (hypertension) is based on age, weight and height. If the child's blood pressure is greater than 95% of other children of the same age, height, and weight, they are considered to have high blood pressure.

Children and adolescents are considered to have prehypertension if their blood pressure percentile is between 90 and 94. For adolescents, a blood pressure greater than 120/80 is also an indicator of prehypertension.

Uncontrolled high blood pressure can cause damage to organs such as your kidneys and heart. In order to prevent potential health problems, it is important to reduce blood pressure levels as soon as possible.

Recommendations for lowering Blood Pressure

- Eat more fruit and vegetables. Strive for recommended servings each day.
- Meet your daily calcium needs from dairy foods or calcium supplement.

Ages: 1-3	500mg
4-8	800mg
9-13	1300mg
14-18	1300mg

- Increase intake of unsalted nuts, seeds and legumes.
 - Try to consume 1/3 cup unsalted almonds, pecans, peanuts or 2 tablespoons of peanut butter 3-4 times per week.
- Increase physical activity. Try to accumulate 30-60 minutes of physical activity each day. Do something you enjoy. Examples of physical activity include: bicycle riding, walking, swimming, skipping, jumping on a trampoline or playing basketball.



