

The University of Texas Community Outreach Program
Community Health Worker Continuing Education

Your Health Matters: Nutritious Eating

PARTICIPANT HANDBOOK



*Free and reproducible materials for Community Health Workers
to implement in local community education programs*



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Community Health Worker Continuing Education

Your Health Matters: Nutritious Eating

Acknowledgements

The University of Texas School of Public Health – Brownsville

Dr. Belinda Reininger Lisa Mitchell-Bennett Laura Dirkse Vanessa Saldaña

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Dr. Nancy Crider Dr. Nancy Murray Jessica Uriarte
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Nathalie Sessions

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Additional Content Advisors

Leticia Gomez with Migrant Health Promotion Tony Ramos with Borderland AHEC
Lizette Pacheco with Migrant Health Promotion Sydney Jones with UT Austin Public Health Internship

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Video Credits

Cast

Martie Di Gregorio Melissa Millan Dante Robledo
Chickie Samano Stephan Schull

With appearances by

Miguel Robledo Sr. Mark Vasquez

Scriptwriter

Jo Ann LeQuang

Camera/Lighting

Kurt Lang

Location Sound

Brian Albritton

Editor

Jeffrey Mills

Graphics

Barbara Mills

Production Manager

Nathalie Sessions

Production Assistant

Sydney Jones

Executive Producer

Dr. Belinda Reininger

Executive Producer

Lisa Mitchell-Bennett

Producer/Director

Dan Sessions

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Your Health Matters: Nutritious Eating Knowledge Questionnaire

Energy Balance

1. If I take more calories IN to my body than I burn OUT, I will:
 - a. Lose weight
 - b. Gain weight
 - c. Maintain my weight
 - d. I don't know.
2. When choosing healthy foods, I should eat:
 - a. A variety of different foods
 - b. The right amount of food from each food group
 - c. Everything in moderation
 - d. Foods that are rich in nutrients
 - e. All of the above
 - f. I don't know.

Portion Distortion

3. The size of a soda bottle today is:
 - a. Larger than a soda bottle 20 years ago
 - b. Smaller than a soda bottle 20 years ago
 - c. The same size as a soda bottle 20 years ago
 - d. I don't know.
4. It is important to consider portion size because:
 - a. A smaller portion has more vitamins
 - b. A smaller portion costs more money
 - c. A smaller portion has fewer calories
 - d. I don't know.

Healthy Eating

5. A healthy diet has more:
 - a. "GO" foods than "SLOW" foods or "WHOA" foods
 - b. "SLOW" foods than "GO" foods or "WHOA" foods
 - c. "WHOA" foods than "GO" foods or "SLOW" foods
 - d. I don't know.
6. A healthy meal has mostly:
 - a. Meat
 - b. Vegetables
 - c. Grains
 - d. Fats
 - e. I don't know.

Basic Nutrients

7. A healthy diet includes:
- a. Fats
 - b. Carbohydrates
 - c. Protein
 - d. All of the above
 - e. I don't know.
8. Healthy sources of carbohydrates include:
- a. Fruits
 - b. Vegetables
 - c. Whole Grains
 - d. All of the above
 - e. I don't know.

Food Labels

9. A Nutrition Facts label is on which of the following foods?
- a. Bananas
 - b. Animal Crackers
 - c. Broccoli
 - d. All of the above
 - e. I don't know.
10. When reading the % Daily Value on a Nutrition Facts label, look for foods with:
- a. HIGH % Daily Values
 - b. LOW % Daily Values
 - c. LOW % Daily Values on the top of the label and HIGH % Daily Values on the bottom
 - d. I don't know.

Meal Planning

11. Buying healthy food always costs more than buying unhealthy food.
- a. True
 - b. False
 - c. I don't know.
12. You should eat fruits and vegetables:
- a. Once a week
 - b. Once a day
 - c. At every meal
 - d. Never. Fruits and vegetables are bad for you.
 - e. I don't know.

Your Health Matters: Nutritious Eating



1: Introduction

1

Acknowledgement

This curriculum was created by The University of Texas School of Public Health, Brownsville Regional Campus with partial funding from the University of Texas Community Outreach supported by the Texas Department of State Health Services (DSHS).



2

Knowledge Questionnaire



3



Nutritious Eating Program Goals

Expand understanding about why proper nutrition is important for a healthy life.

Demonstrate how eating right helps reduce risk for chronic diseases.

Empower participants to make healthy food choices and counsel clients with meal planning strategies.

Provide a curriculum which gives Community Health Workers the knowledge and skills about nutritious eating to impart to their communities.

This curriculum provides the nutrition component to compliment the *Your Health Matters: Fitness for Life* curriculum.

4



Nutritious Eating Learning Objectives

- Describe the obesity epidemic and its implications to health.
- Describe how the energy balance influences healthy weight maintenance or weight loss.
- Give examples of how food portions have changed in the past 20 years and the implications of these changes.
- Recognize the Go-Slow-Whoa concept and give an example of each type of food.

More...


5



Nutritious Eating Learning Objectives

- Identify the six basic nutrients.
- Explain the Nutrition Facts food labels and state the low and high percentages for the daily values.
- Plan a healthy meal.

6



Nutritious Eating Program Materials CD

PowerPoint Presentations, Handouts, Information Sheets, Activities, and Videos

INTRODUCTION

ENERGY BALANCE

PORTION DISTORTION

HEALTHY EATING

THE BASIC NUTRIENTS

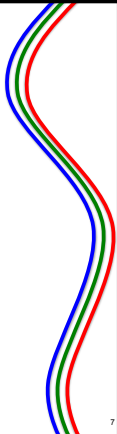
THE NUTRITION FACTS LABEL

MEAL PLANNING

CONCLUSION

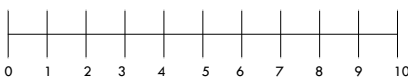
BONUS MATERIAL
Diabetes Information and Activities

APPENDICES
Glossary
Additional Resources
Handouts

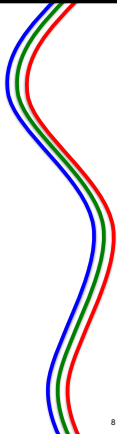


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How prepared do you feel to educate people about healthy food choices?



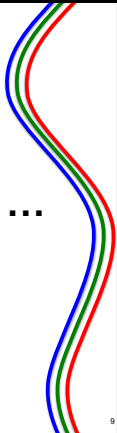
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8



So why are we here? ...




9

Obesity is an Epidemic

#1 health problem facing American children

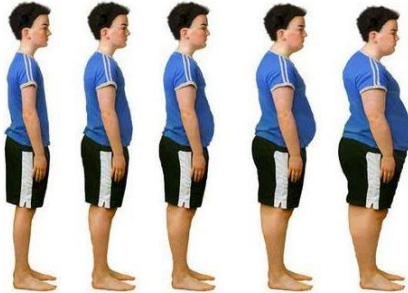
A defining public health challenge for the next half-century

The most challenging public health problem ever faced



10

What is Obesity?



11

Adult Overweight & Obesity

Body Mass Index (BMI)

DEGREE OF BODY FAT BASED ON HEIGHT AND WEIGHT

| Height (inches) | Normal | | | | | Overweight | | | | | Obese | | | | | Extreme Obesity | | | | |
|-----------------|--------|------|------|------|------|------------|------|------|------|------|-------|-------|-------|------|------|-----------------|------|------|--|--|
| | 5'0" | 5'1" | 5'2" | 5'3" | 5'4" | 5'5" | 5'6" | 5'7" | 5'8" | 5'9" | 5'10" | 5'11" | 5'12" | 6'0" | 6'1" | 6'2" | 6'3" | 6'4" | | |
| 5'0" | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | | |
| 5'1" | 106 | 111 | 116 | 121 | 126 | 131 | 136 | 141 | 146 | 151 | 156 | 161 | 166 | 171 | 176 | 181 | 186 | 191 | | |
| 5'2" | 107 | 112 | 117 | 122 | 127 | 132 | 137 | 142 | 147 | 152 | 157 | 162 | 167 | 172 | 177 | 182 | 187 | 192 | | |
| 5'3" | 108 | 113 | 118 | 123 | 128 | 133 | 138 | 143 | 148 | 153 | 158 | 163 | 168 | 173 | 178 | 183 | 188 | 193 | | |
| 5'4" | 109 | 114 | 119 | 124 | 129 | 134 | 139 | 144 | 149 | 154 | 159 | 164 | 169 | 174 | 179 | 184 | 189 | 194 | | |
| 5'5" | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | | |
| 5'6" | 111 | 116 | 121 | 126 | 131 | 136 | 141 | 146 | 151 | 156 | 161 | 166 | 171 | 176 | 181 | 186 | 191 | 196 | | |
| 5'7" | 112 | 117 | 122 | 127 | 132 | 137 | 142 | 147 | 152 | 157 | 162 | 167 | 172 | 177 | 182 | 187 | 192 | 197 | | |
| 5'8" | 113 | 118 | 123 | 128 | 133 | 138 | 143 | 148 | 153 | 158 | 163 | 168 | 173 | 178 | 183 | 188 | 193 | 198 | | |
| 5'9" | 114 | 119 | 124 | 129 | 134 | 139 | 144 | 149 | 154 | 159 | 164 | 169 | 174 | 179 | 184 | 189 | 194 | 199 | | |
| 5'10" | 115 | 120 | 125 | 130 | 135 | 140 | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | 200 | | |
| 5'11" | 116 | 121 | 126 | 131 | 136 | 141 | 146 | 151 | 156 | 161 | 166 | 171 | 176 | 181 | 186 | 191 | 196 | 201 | | |
| 5'12" | 117 | 122 | 127 | 132 | 137 | 142 | 147 | 152 | 157 | 162 | 167 | 172 | 177 | 182 | 187 | 192 | 197 | 202 | | |
| 6'0" | 118 | 123 | 128 | 133 | 138 | 143 | 148 | 153 | 158 | 163 | 168 | 173 | 178 | 183 | 188 | 193 | 198 | 203 | | |
| 6'1" | 119 | 124 | 129 | 134 | 139 | 144 | 149 | 154 | 159 | 164 | 169 | 174 | 179 | 184 | 189 | 194 | 199 | 204 | | |
| 6'2" | 120 | 125 | 130 | 135 | 140 | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | 200 | 205 | | |
| 6'3" | 121 | 126 | 131 | 136 | 141 | 146 | 151 | 156 | 161 | 166 | 171 | 176 | 181 | 186 | 191 | 196 | 201 | 206 | | |
| 6'4" | 122 | 127 | 132 | 137 | 142 | 147 | 152 | 157 | 162 | 167 | 172 | 177 | 182 | 187 | 192 | 197 | 202 | 207 | | |
| 6'5" | 123 | 128 | 133 | 138 | 143 | 148 | 153 | 158 | 163 | 168 | 173 | 178 | 183 | 188 | 193 | 198 | 203 | 208 | | |
| 6'6" | 124 | 129 | 134 | 139 | 144 | 149 | 154 | 159 | 164 | 169 | 174 | 179 | 184 | 189 | 194 | 199 | 204 | 209 | | |
| 6'7" | 125 | 130 | 135 | 140 | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | 200 | 205 | 210 | | |
| 6'8" | 126 | 131 | 136 | 141 | 146 | 151 | 156 | 161 | 166 | 171 | 176 | 181 | 186 | 191 | 196 | 201 | 206 | 211 | | |
| 6'9" | 127 | 132 | 137 | 142 | 147 | 152 | 157 | 162 | 167 | 172 | 177 | 182 | 187 | 192 | 197 | 202 | 207 | 212 | | |
| 6'10" | 128 | 133 | 138 | 143 | 148 | 153 | 158 | 163 | 168 | 173 | 178 | 183 | 188 | 193 | 198 | 203 | 208 | 213 | | |
| 6'11" | 129 | 134 | 139 | 144 | 149 | 154 | 159 | 164 | 169 | 174 | 179 | 184 | 189 | 194 | 199 | 204 | 209 | 214 | | |
| 6'12" | 130 | 135 | 140 | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | 200 | 205 | 210 | 215 | | |
| 6'13" | 131 | 136 | 141 | 146 | 151 | 156 | 161 | 166 | 171 | 176 | 181 | 186 | 191 | 196 | 201 | 206 | 211 | 216 | | |
| 6'14" | 132 | 137 | 142 | 147 | 152 | 157 | 162 | 167 | 172 | 177 | 182 | 187 | 192 | 197 | 202 | 207 | 212 | 217 | | |
| 6'15" | 133 | 138 | 143 | 148 | 153 | 158 | 163 | 168 | 173 | 178 | 183 | 188 | 193 | 198 | 203 | 208 | 213 | 218 | | |
| 6'16" | 134 | 139 | 144 | 149 | 154 | 159 | 164 | 169 | 174 | 179 | 184 | 189 | 194 | 199 | 204 | 209 | 214 | 219 | | |
| 6'17" | 135 | 140 | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | 200 | 205 | 210 | 215 | 220 | | |
| 6'18" | 136 | 141 | 146 | 151 | 156 | 161 | 166 | 171 | 176 | 181 | 186 | 191 | 196 | 201 | 206 | 211 | 216 | 221 | | |
| 6'19" | 137 | 142 | 147 | 152 | 157 | 162 | 167 | 172 | 177 | 182 | 187 | 192 | 197 | 202 | 207 | 212 | 217 | 222 | | |
| 6'20" | 138 | 143 | 148 | 153 | 158 | 163 | 168 | 173 | 178 | 183 | 188 | 193 | 198 | 203 | 208 | 213 | 218 | 223 | | |
| 6'21" | 139 | 144 | 149 | 154 | 159 | 164 | 169 | 174 | 179 | 184 | 189 | 194 | 199 | 204 | 209 | 214 | 219 | 224 | | |
| 6'22" | 140 | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | 200 | 205 | 210 | 215 | 220 | 225 | | |
| 6'23" | 141 | 146 | 151 | 156 | 161 | 166 | 171 | 176 | 181 | 186 | 191 | 196 | 201 | 206 | 211 | 216 | 221 | 226 | | |
| 6'24" | 142 | 147 | 152 | 157 | 162 | 167 | 172 | 177 | 182 | 187 | 192 | 197 | 202 | 207 | 212 | 217 | 222 | 227 | | |
| 6'25" | 143 | 148 | 153 | 158 | 163 | 168 | 173 | 178 | 183 | 188 | 193 | 198 | 203 | 208 | 213 | 218 | 223 | 228 | | |
| 6'26" | 144 | 149 | 154 | 159 | 164 | 169 | 174 | 179 | 184 | 189 | 194 | 199 | 204 | 209 | 214 | 219 | 224 | 229 | | |
| 6'27" | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | 200 | 205 | 210 | 215 | 220 | 225 | 230 | | |
| 6'28" | 146 | 151 | 156 | 161 | 166 | 171 | 176 | 181 | 186 | 191 | 196 | 201 | 206 | 211 | 216 | 221 | 226 | 231 | | |
| 6'29" | 147 | 152 | 157 | 162 | 167 | 172 | 177 | 182 | 187 | 192 | 197 | 202 | 207 | 212 | 217 | 222 | 227 | 232 | | |
| 6'30" | 148 | 153 | 158 | 163 | 168 | 173 | 178 | 183 | 188 | 193 | 198 | 203 | 208 | 213 | 218 | 223 | 228 | 233 | | |
| 6'31" | 149 | 154 | 159 | 164 | 169 | 174 | 179 | 184 | 189 | 194 | 199 | 204 | 209 | 214 | 219 | 224 | 229 | 234 | | |
| 6'32" | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | 200 | 205 | 210 | 215 | 220 | 225 | 230 | 235 | | |
| 6'33" | 151 | 156 | 161 | 166 | 171 | 176 | 181 | 186 | 191 | 196 | 201 | 206 | 211 | 216 | 221 | 226 | 231 | 236 | | |
| 6'34" | 152 | 157 | 162 | 167 | 172 | 177 | 182 | 187 | 192 | 197 | 202 | 207 | 212 | 217 | 222 | 227 | 232 | 237 | | |
| 6'35" | 153 | 158 | 163 | 168 | 173 | 178 | 183 | 188 | 193 | 198 | 203 | 208 | 213 | 218 | 223 | 228 | 233 | 238 | | |
| 6'36" | 154 | 159 | 164 | 169 | 174 | 179 | 184 | 189 | 194 | 199 | 204 | 209 | 214 | 219 | 224 | 229 | 234 | 239 | | |
| 6'37" | 155 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | 200 | 205 | 210 | 215 | 220 | 225 | 230 | 235 | 240 | | |
| 6'38" | 156 | 161 | 166 | 171 | 176 | 181 | 186 | 191 | 196 | 201 | 206 | 211 | 216 | 221 | 226 | 231 | 236 | 241 | | |
| 6'39" | 157 | 162 | 167 | 172 | 177 | 182 | 187 | 192 | 197 | 202 | 207 | 212 | 217 | 222 | 227 | 232 | 237 | 242 | | |
| 6'40" | 158 | 163 | 168 | 173 | 178 | 183 | 188 | 193 | 198 | 203 | 208 | 213 | 218 | 223 | 228 | 233 | 238 | 243 | | |
| 6'41" | 159 | 164 | 169 | 174 | 179 | 184 | 189 | 194 | 199 | 204 | 209 | 214 | 219 | 224 | 229 | 234 | 239 | 244 | | |
| 6'42" | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | 200 | 205 | 210 | 215 | 220 | 225 | 230 | 235 | 240 | 245 | | |
| 6'43" | 161 | 166 | 171 | 176 | 181 | 186 | 191 | 196 | 201 | 206 | 211 | 216 | 221 | 226 | 231 | 236 | 241 | 246 | | |
| 6'44" | 162 | 167 | 172 | 177 | 182 | 187 | 192 | 197 | 202 | 207 | 212 | 217 | 222 | 227 | 232 | 237 | 242 | 247 | | |
| 6'45" | 163 | 168 | 173 | 178 | 183 | 188 | 193 | 198 | 203 | 208 | 213 | 218 | 223 | 228 | 233 | 238 | 243 | 248 | | |
| 6'46" | 164 | 169 | 174 | 179 | 184 | 189 | 194 | 199 | 204 | 209 | 214 | 219 | 224 | 229 | 234 | 239 | 244 | 249 | | |
| 6'47" | 165 | 170 | 175 | 180 | 185 | 190 | 195 | 200 | 205 | 210 | 215 | 220 | 225 | 230 | 235 | 240 | 245 | 250 | | |
| 6'48" | 166 | 171 | 176 | 181 | 186 | 191 | 196 | 201 | 206 | 211 | 216 | 221 | 226 | 231 | 236 | 241 | 246 | 251 | | |
| 6'49" | 167 | 172 | 177 | 182 | 187 | 192 | 197 | 202 | 207 | 212 | 217 | 222 | 227 | 232 | 237 | 242 | 247 | 252 | | |
| 6'50" | 168 | 173 | 178 | 183 | 188 | 193 | 198 | 203 | 208 | 213 | 218 | 223 | 228 | 233 | 238 | 243 | 248 | 253 | | |
| 6'51" | 169 | 174 | 179 | 184 | 189 | 194 | 199 | 204 | 209 | 214 | 219 | 224 | 229 | 234 | 239 | 244 | 249 | 254 | | |
| 6'52" | 170 | 175 | 180 | 185 | 190 | 195 | 200 | 205 | 210 | 215 | 220 | 225 | 230 | 235 | 240 | 245 | 250 | 255 | | |
| 6'53" | 171 | 176 | 181 | 186 | 191 | 196 | 201 | 206 | 211 | 216 | 221 | 226 | 231 | 236 | 241 | 246 | 251 | 256 | | |
| 6'54" | 172 | 177 | 182 | 187 | 192 | 197 | 202 | 207 | 212 | 217 | 222 | 227 | 232 | 237 | 242 | 247 | 252 | 257 | | |
| 6'55" | 173 | 178 | 183 | 188 | 193 | 198 | 203 | 208 | 213 | 218 | 223 | 228 | 233 | 238 | 243 | 248 | 253 | 258 | | |
| 6'56" | 174 | 179 | 184 | 189 | 194 | 199 | 204 | 209 | 214 | 219 | 224 | 229 | 234 | 239 | 244 | 249 | 254 | 259 | | |
| 6'57" | 175 | 180 | 185 | 190 | 195 | 200 | 205 | 210 | 215 | 220 | 225 | 230 | 235 | 240 | 245 | 250 | 255 | 260 | | |
| 6'58" | 176 | 181 | 186 | 191 | 196 | 201 | 206 | 211 | 216 | 221 | 226 | 231 | 236 | 241 | 246 | 251 | 256 | 261 | | |
| 6 | | | | | | | | | | | | | | | | | | | | |

Childhood Obesity

BMI-for-age Growth Charts



For children
2 to 19 years

Overweight
BMI between
85th and 95th
percentile

Obese
BMI at or above
95th percentile

Centers for Disease Control and Prevention

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Why Do We Care?

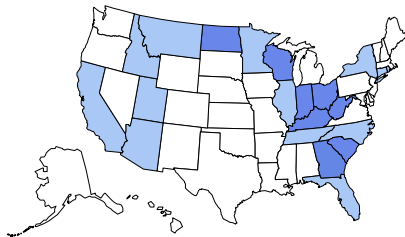
Obesity is a major risk factor for:

- Cardiovascular disease
- High total cholesterol
- High blood pressure
- Type 2 diabetes
- Stroke
- Liver disease
- Gall bladder disease
- Certain cancers
- Osteoporosis



14

Obesity Trends Among U.S. Adults
BRFSS, 1985

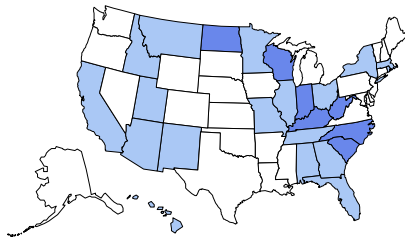


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15

Obesity Trends Among U.S. Adults
BRFSS, 1986

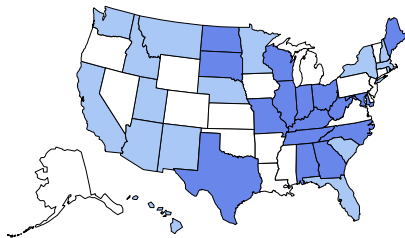


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16

Obesity Trends Among U.S. Adults
BRFSS, 1987

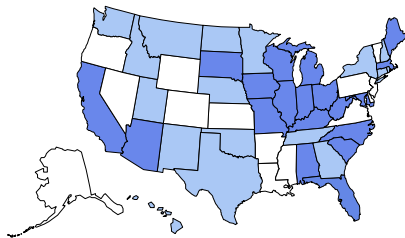


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17

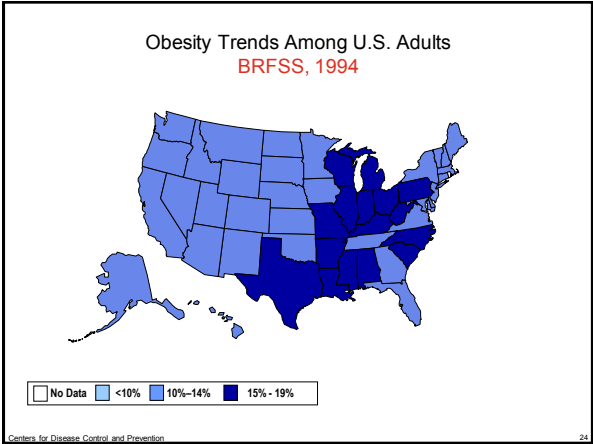
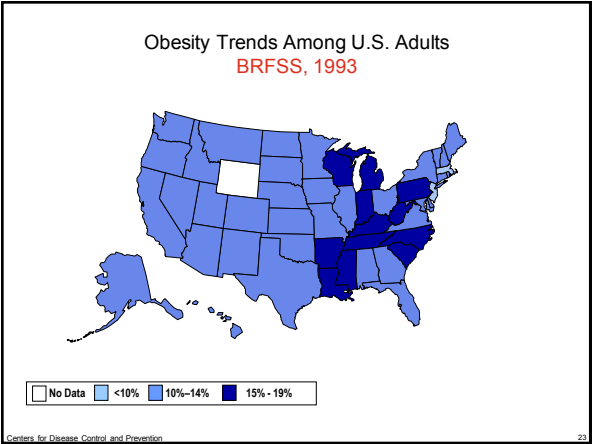
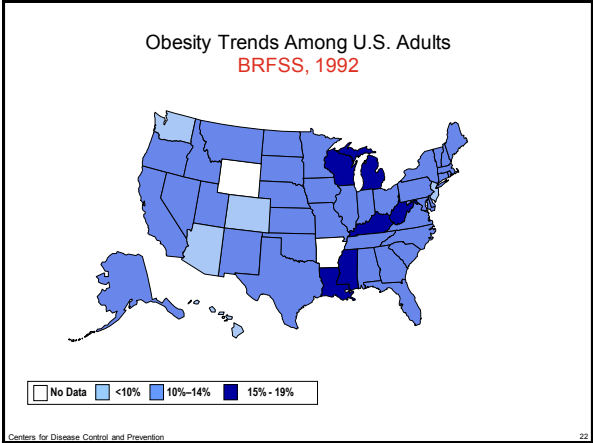
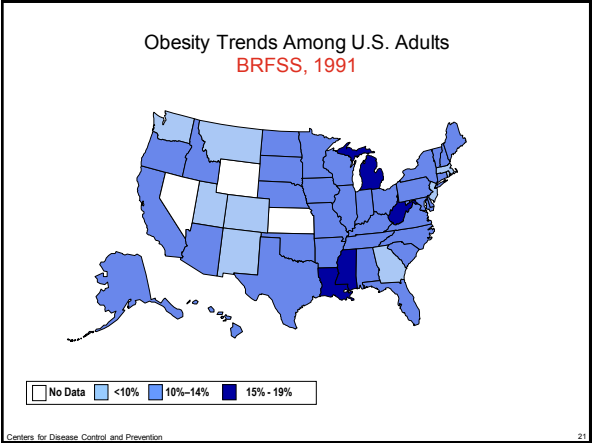
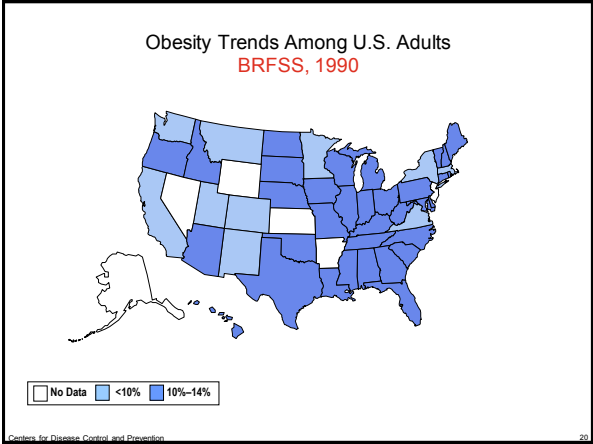
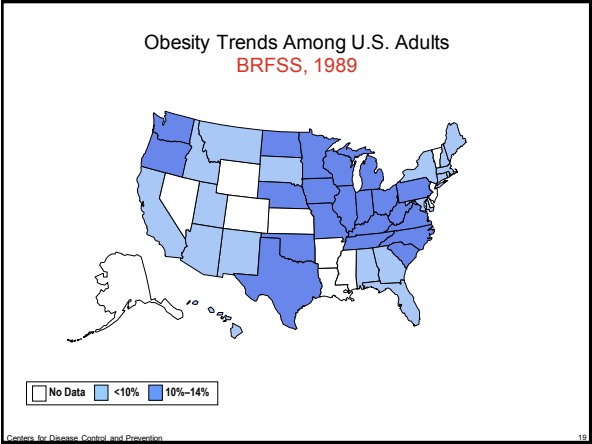
Obesity Trends Among U.S. Adults
BRFSS, 1988

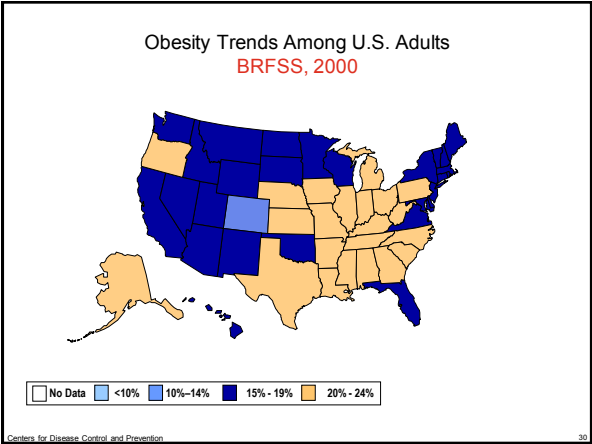
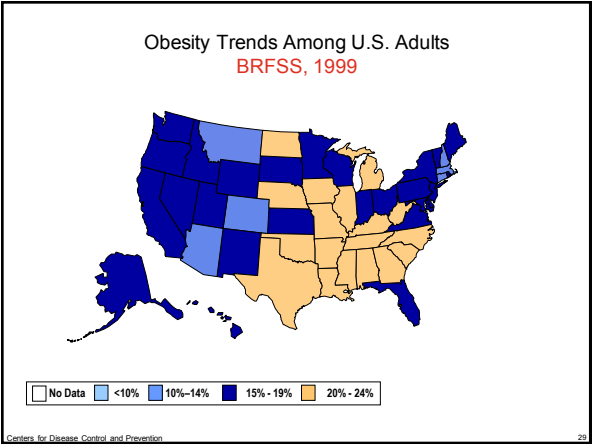
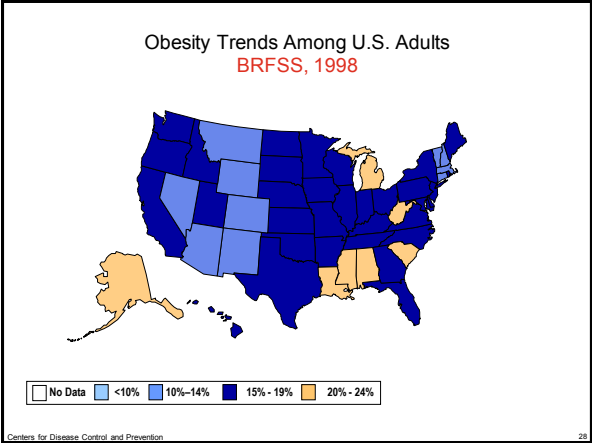
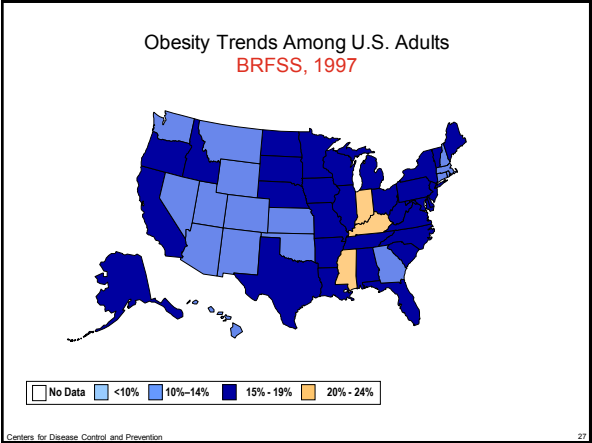
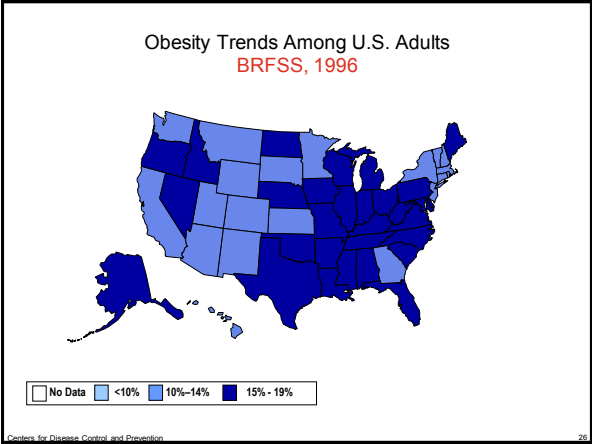
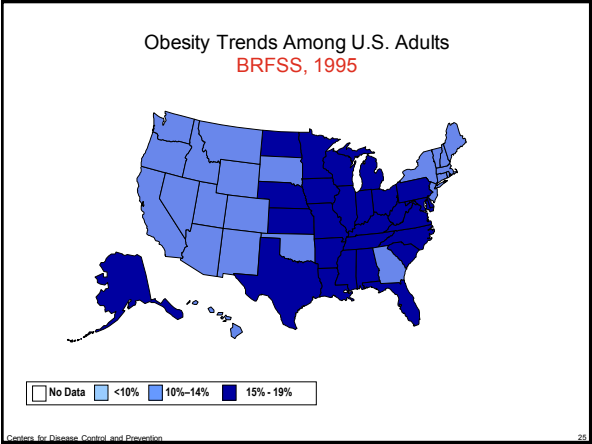


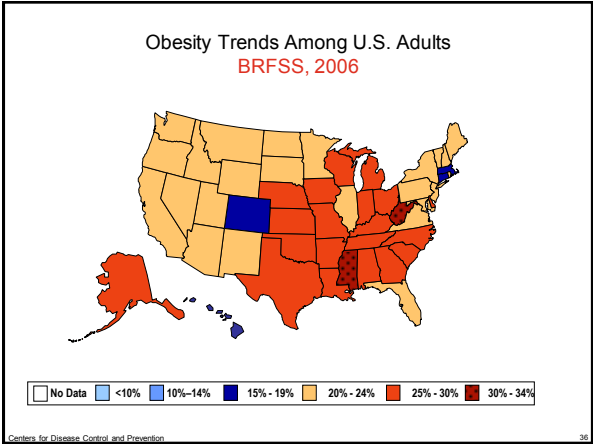
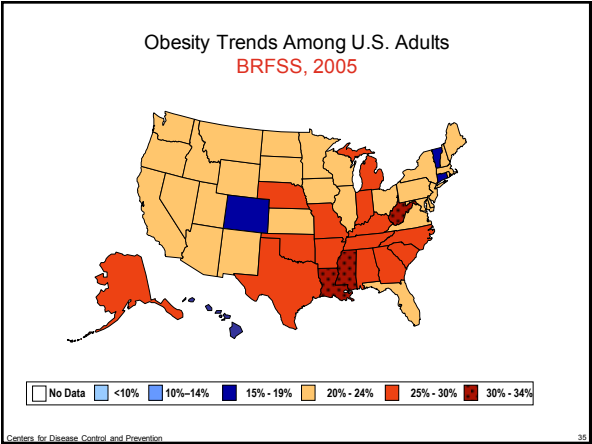
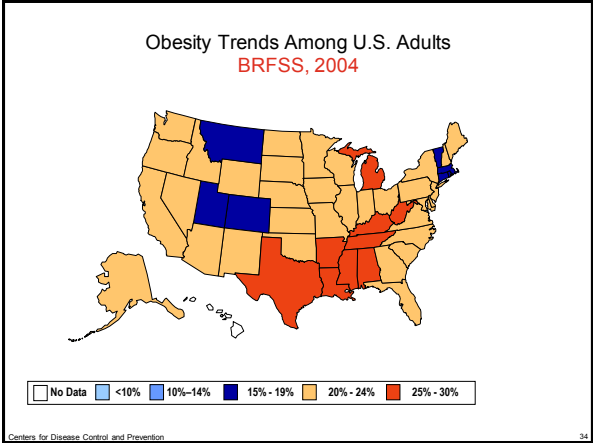
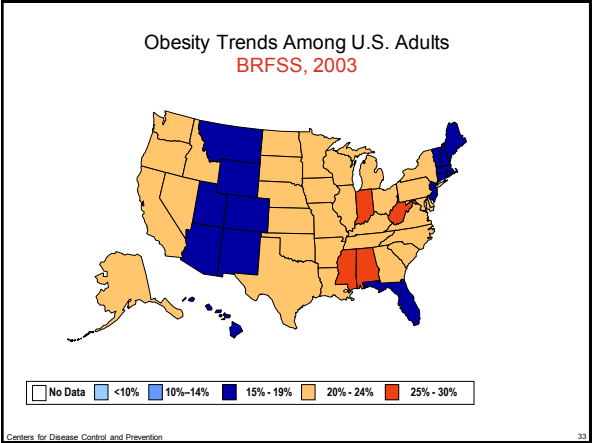
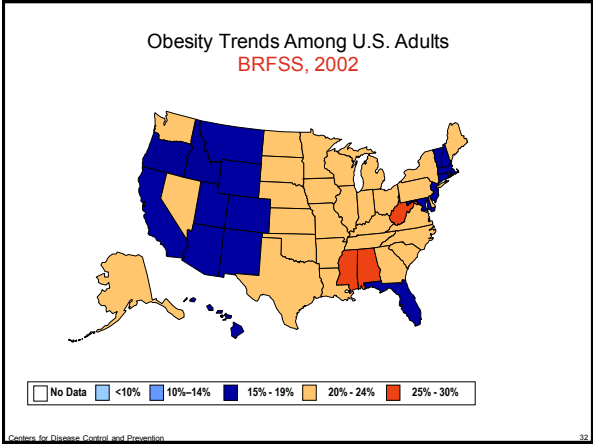
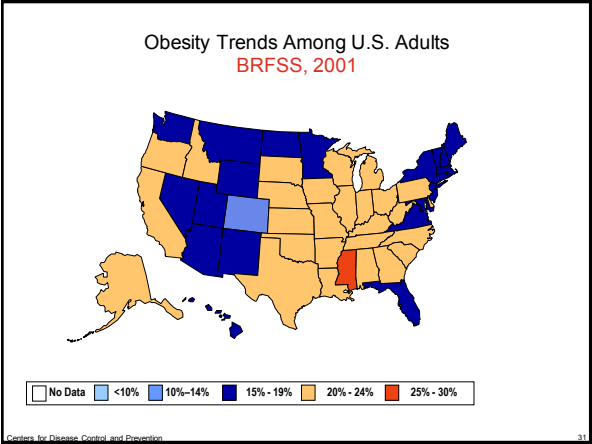
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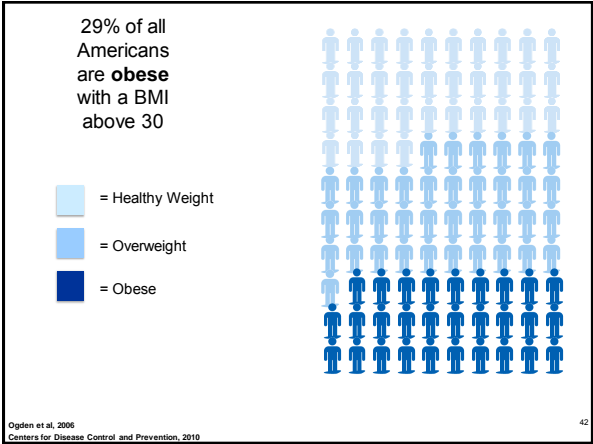
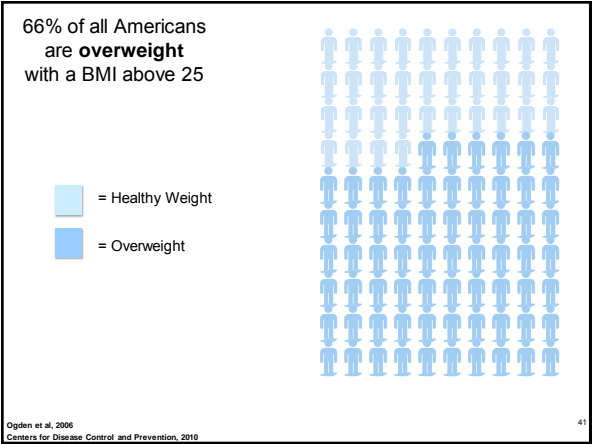
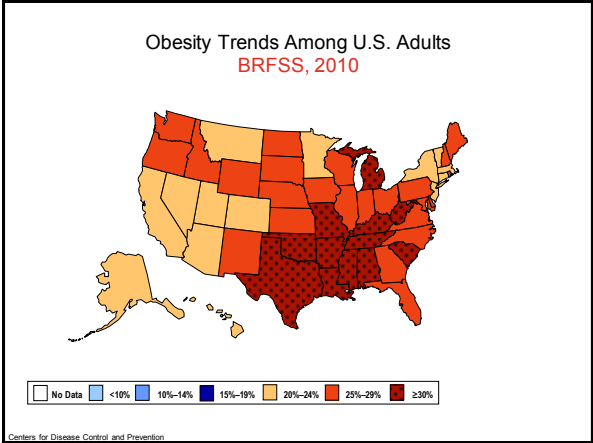
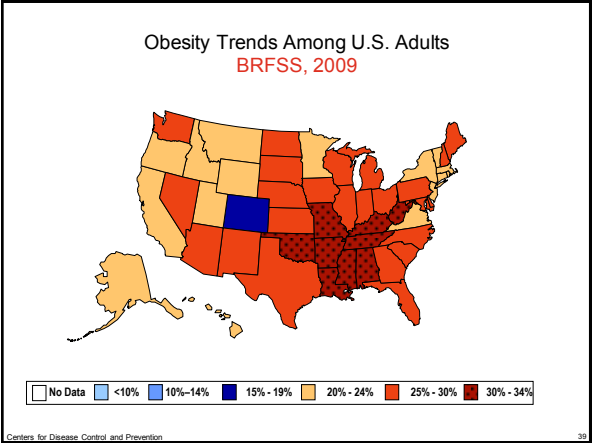
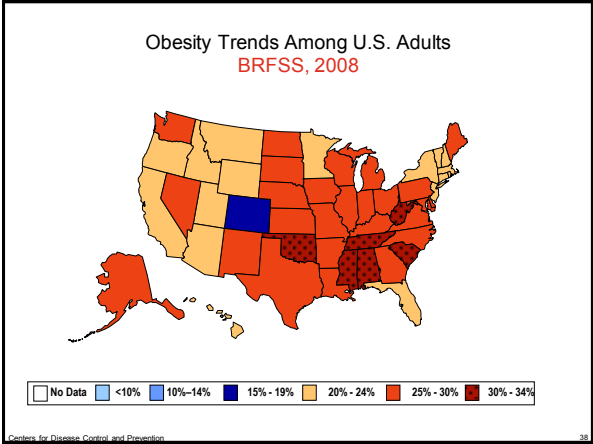
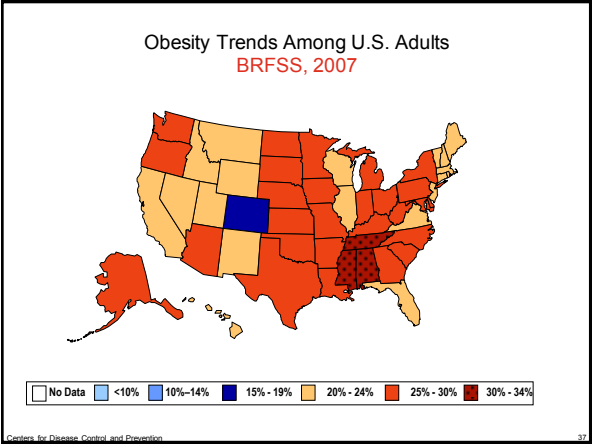
Centers for Disease Control and Prevention

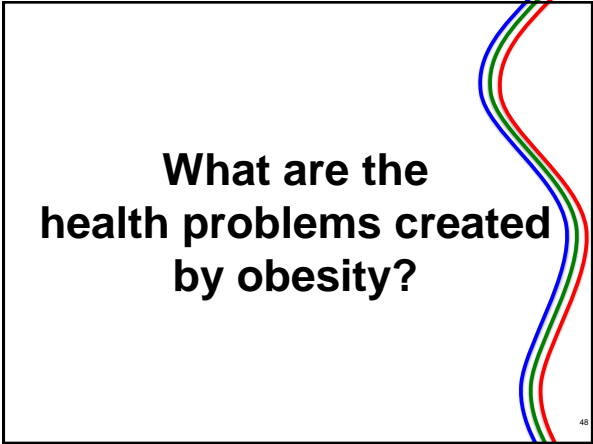
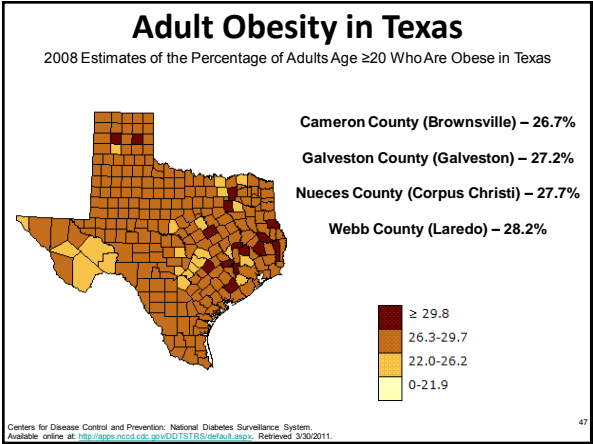
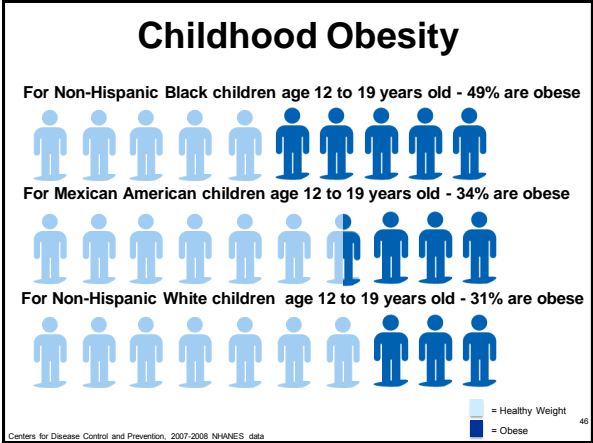
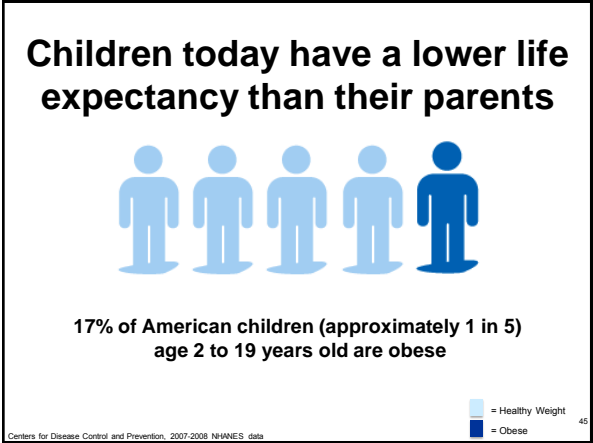
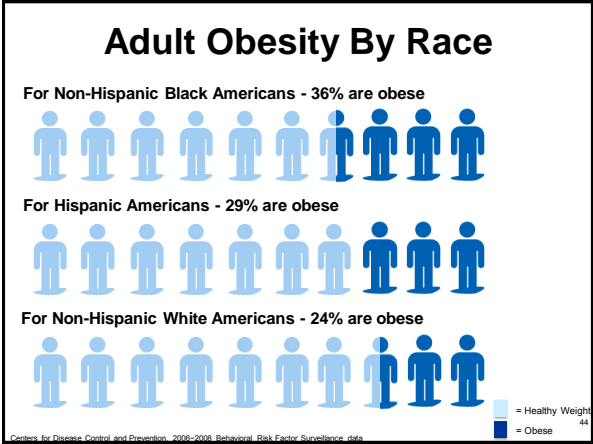
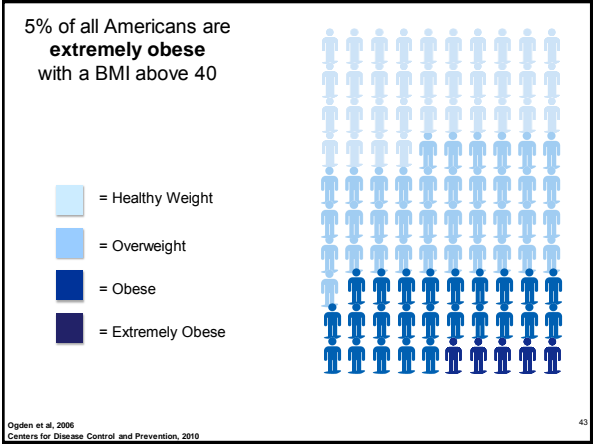
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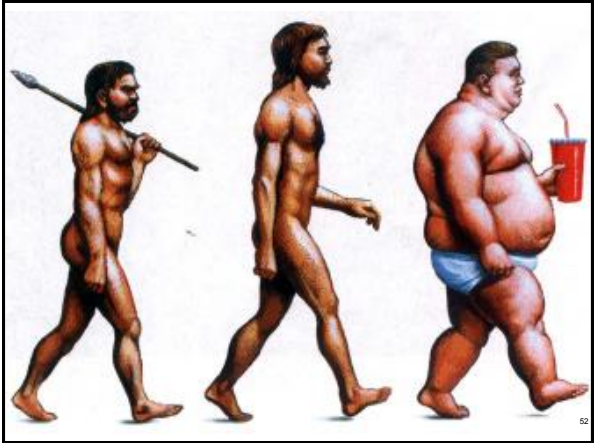
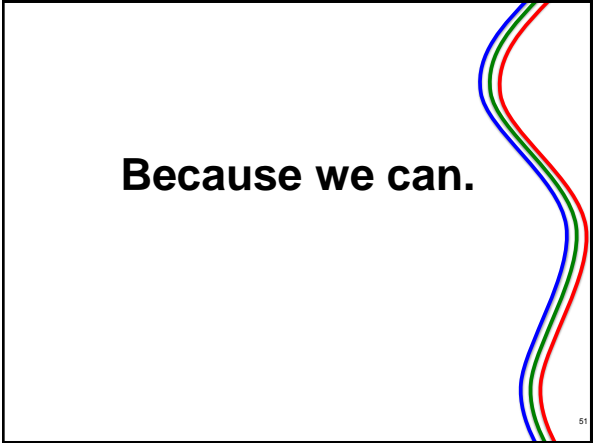












How did we get here?

- Not a simple question.
- Many factors make this complex.
- Most simple answer:
 - Eating more
 - Moving less
 - Treatment mostly ineffective

53

Toxic Environment:
Inexpensive unhealthy food available everywhere

Brownell, 1994

54

Toxic Environment



Cradle to Grave Marketing

55

Toxic Environment:
Junk Food as Early Education



56

Toxic Environment: Conflicting Messages



57

Toxic Environment:
Food Advertising



Food, beverages, candy
\$7,313,200,000

Restaurants and fast food
\$5,061,000,000

58

Eating Behaviors

What is the most influential factor that determines how much children and adults eat?

- A. Hunger
- B. Mood
- C. PORTION SIZE**
- D. Time of Day

59

Adults & Children eat more
if given a larger portion size

- Children 3-5 years old ate 25% more of an entrée when given portions that were double an age-appropriate standard size.
– Fisher, et al. *Am J Clin Nutr* 2003, v.77
- Adults ate more food when given larger portions and rated hunger and satiety the same
– Rolls, et al. *J Am Diet Assoc* 2004, v.104



60

**Toxic Environment:
Portion Sizes**

- **Original** McDonald's burger, fries and 12 ounce soft drink: **590 Calories**
- **Super Size Extra Value Meal** – Quarter Pounder with cheese, super size fries and a super size soft drink: **1,550 Calories**
- **Go Active! Happy Meal** – one of McDonald's four Premium Salads, a fountain drink of choice or bottled water, a Stepometer™ to track one's daily steps, and an informative booklet. (California Cobb Salad + medium soft drink): **580 kcal**



61

Toxic Environment: Portion Sizes



62

...AND THE REAL

1954
Burger King



2.8 oz
202 calories



4.3 oz
310 calories

1955
McDonald's



2.4 oz
210 calories



7 oz
610 calories

The Heavy Cost of Fat
National Geographic,
August 2004

63

1900
Hershey's

2 oz
297 calories



7 oz
1,000 calories

1916
Coca-Cola



6.5 fluid oz
79 calories



16 fluid oz
194 calories

1950s
Movie popcorn



3 cups
174 calories



22 cups (battered)
1,700 calories

The Heavy Cost of Fat
National Geographic,
August 2004

64

Toxic Environment: Moving Less



- TV, computers, video games
- Safety concerns
- Decrease in PE class time



65

Brownell, 1994

“On a scale of 0-10, how important is it to plan and eat fresh fruits and vegetables and whole grains?”

HOW IMPORTANT IS IT?



66



**Community Health Workers can
help bring about change with
health promotion.**

Let's begin!

**Switch to
Energy Balance
PowerPoint**

Body Mass Index Table

| Normal | | | | | | Overweight | | | | | Obese | | | | | | | | | | Extreme Obesity | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|----------------------|-----|-----|-----|-----|------------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|
| BMI | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | | | | | | | | | |
| Height (inches) | Body Weight (pounds) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58 | 91 | 96 | 100 | 105 | 110 | 115 | 119 | 124 | 129 | 134 | 138 | 143 | 148 | 153 | 158 | 162 | 167 | 172 | 177 | 181 | 186 | 191 | 196 | 201 | 205 | 210 | 215 | 220 | 224 | 229 | 234 | 239 | 244 | 248 | 253 | 258 | | | | | | | | | |
| 59 | 94 | 99 | 104 | 109 | 114 | 119 | 124 | 128 | 133 | 138 | 143 | 148 | 153 | 158 | 163 | 168 | 173 | 178 | 183 | 188 | 193 | 198 | 203 | 208 | 212 | 217 | 222 | 227 | 232 | 237 | 242 | 247 | 252 | 257 | 262 | 267 | | | | | | | | | |
| 60 | 97 | 102 | 107 | 112 | 118 | 123 | 128 | 133 | 138 | 143 | 148 | 153 | 158 | 163 | 168 | 174 | 179 | 184 | 189 | 194 | 199 | 204 | 209 | 215 | 220 | 225 | 230 | 235 | 240 | 245 | 250 | 255 | 261 | 266 | 271 | 276 | | | | | | | | | |
| 61 | 100 | 106 | 111 | 116 | 122 | 127 | 132 | 137 | 143 | 148 | 153 | 158 | 164 | 169 | 174 | 180 | 185 | 190 | 195 | 201 | 206 | 211 | 217 | 222 | 227 | 232 | 238 | 243 | 248 | 254 | 259 | 264 | 269 | 275 | 280 | 285 | | | | | | | | | |
| 62 | 104 | 109 | 115 | 120 | 126 | 131 | 136 | 142 | 147 | 153 | 158 | 164 | 169 | 175 | 180 | 186 | 191 | 196 | 202 | 207 | 213 | 218 | 224 | 229 | 235 | 240 | 246 | 251 | 256 | 262 | 267 | 273 | 278 | 284 | 289 | 295 | | | | | | | | | |
| 63 | 107 | 113 | 118 | 124 | 130 | 135 | 141 | 146 | 152 | 158 | 163 | 169 | 175 | 180 | 186 | 191 | 197 | 203 | 208 | 214 | 220 | 225 | 231 | 237 | 242 | 248 | 254 | 259 | 265 | 270 | 278 | 282 | 287 | 293 | 299 | 304 | | | | | | | | | |
| 64 | 110 | 116 | 122 | 128 | 134 | 140 | 145 | 151 | 157 | 163 | 169 | 174 | 180 | 186 | 192 | 197 | 204 | 209 | 215 | 221 | 227 | 232 | 238 | 244 | 250 | 256 | 262 | 267 | 273 | 279 | 285 | 291 | 296 | 302 | 308 | 314 | | | | | | | | | |
| 65 | 114 | 120 | 126 | 132 | 138 | 144 | 150 | 156 | 162 | 168 | 174 | 180 | 186 | 192 | 198 | 204 | 210 | 216 | 222 | 228 | 234 | 240 | 246 | 252 | 258 | 264 | 270 | 276 | 282 | 288 | 294 | 300 | 306 | 312 | 318 | 324 | | | | | | | | | |
| 66 | 118 | 124 | 130 | 136 | 142 | 148 | 155 | 161 | 167 | 173 | 179 | 186 | 192 | 198 | 204 | 210 | 216 | 223 | 229 | 235 | 241 | 247 | 253 | 260 | 266 | 272 | 278 | 284 | 291 | 297 | 303 | 309 | 315 | 322 | 328 | 334 | | | | | | | | | |
| 67 | 121 | 127 | 134 | 140 | 146 | 153 | 159 | 166 | 172 | 178 | 185 | 191 | 198 | 204 | 211 | 217 | 223 | 230 | 236 | 242 | 249 | 255 | 261 | 268 | 274 | 280 | 287 | 293 | 299 | 306 | 312 | 319 | 325 | 331 | 338 | 344 | | | | | | | | | |
| 68 | 125 | 131 | 138 | 144 | 151 | 158 | 164 | 171 | 177 | 184 | 190 | 197 | 203 | 210 | 216 | 223 | 230 | 236 | 243 | 249 | 256 | 262 | 269 | 276 | 282 | 289 | 295 | 302 | 308 | 315 | 322 | 328 | 335 | 341 | 348 | 354 | | | | | | | | | |
| 69 | 128 | 135 | 142 | 149 | 155 | 162 | 169 | 176 | 182 | 189 | 196 | 203 | 209 | 216 | 223 | 230 | 236 | 243 | 250 | 257 | 263 | 270 | 277 | 284 | 291 | 297 | 304 | 311 | 318 | 324 | 331 | 338 | 345 | 351 | 358 | 365 | | | | | | | | | |
| 70 | 132 | 139 | 146 | 153 | 160 | 167 | 174 | 181 | 188 | 195 | 202 | 209 | 216 | 222 | 229 | 236 | 243 | 250 | 257 | 264 | 271 | 278 | 285 | 292 | 299 | 306 | 313 | 320 | 327 | 334 | 341 | 348 | 355 | 362 | 369 | 376 | | | | | | | | | |
| 71 | 136 | 143 | 150 | 157 | 165 | 172 | 179 | 186 | 193 | 200 | 208 | 215 | 222 | 229 | 236 | 243 | 250 | 257 | 265 | 272 | 279 | 286 | 293 | 301 | 308 | 315 | 322 | 329 | 338 | 343 | 351 | 358 | 365 | 372 | 379 | 386 | | | | | | | | | |
| 72 | 140 | 147 | 154 | 162 | 169 | 177 | 184 | 191 | 199 | 206 | 213 | 221 | 228 | 235 | 242 | 250 | 258 | 265 | 272 | 279 | 287 | 294 | 302 | 309 | 316 | 324 | 331 | 338 | 346 | 353 | 361 | 368 | 375 | 383 | 390 | 397 | | | | | | | | | |
| 73 | 144 | 151 | 159 | 166 | 174 | 182 | 189 | 197 | 204 | 212 | 219 | 227 | 235 | 242 | 250 | 257 | 265 | 272 | 280 | 288 | 295 | 302 | 310 | 318 | 325 | 333 | 340 | 348 | 355 | 363 | 371 | 378 | 386 | 393 | 401 | 408 | | | | | | | | | |
| 74 | 148 | 155 | 163 | 171 | 179 | 186 | 194 | 202 | 210 | 218 | 225 | 233 | 241 | 249 | 256 | 264 | 272 | 280 | 287 | 295 | 303 | 311 | 319 | 326 | 334 | 342 | 350 | 358 | 365 | 373 | 381 | 389 | 396 | 404 | 412 | 420 | | | | | | | | | |
| 75 | 152 | 160 | 168 | 176 | 184 | 192 | 200 | 208 | 216 | 224 | 232 | 240 | 248 | 256 | 264 | 272 | 279 | 287 | 295 | 303 | 311 | 319 | 327 | 335 | 343 | 351 | 359 | 367 | 375 | 383 | 391 | 399 | 407 | 415 | 423 | 431 | | | | | | | | | |
| 76 | 156 | 164 | 172 | 180 | 189 | 197 | 205 | 213 | 221 | 230 | 238 | 246 | 254 | 263 | 271 | 279 | 287 | 295 | 304 | 312 | 320 | 328 | 336 | 344 | 353 | 361 | 369 | 377 | 385 | 394 | 402 | 410 | 418 | 426 | 435 | 443 | | | | | | | | | |

Source: Adapted from *Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults: The Evidence Report*.

Body Mass Index Table (BMI)

| | Normal Weight | | | | | | Overweight | | | | | Obesity | | | | | | | | | | Extreme Obesity | | | | | | | | | | | | | | |
|-----------------|---------------|-----|-----|-----|-----|-----|------------|-----|-----|-----|-----|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Height | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 |
| feet/ meters | | | | | | | | | | | | Body Weight (pounds) | | | | | | | | | | | | | | | | | | | | | | | | |
| 4'10" / 1.47 | 91 | 96 | 100 | 105 | 110 | 115 | 119 | 124 | 129 | 134 | 138 | 143 | 148 | 153 | 158 | 162 | 167 | 172 | 177 | 181 | 186 | 191 | 196 | 201 | 205 | 210 | 215 | 220 | 224 | 229 | 234 | 239 | 244 | 248 | 253 | 258 |
| 4'11" / 1.50 | 94 | 99 | 104 | 109 | 114 | 119 | 124 | 128 | 133 | 138 | 143 | 148 | 153 | 158 | 163 | 168 | 173 | 178 | 183 | 188 | 193 | 198 | 203 | 208 | 212 | 217 | 222 | 227 | 232 | 237 | 242 | 247 | 252 | 257 | 262 | 267 |
| 5'0" / 1.52 | 97 | 102 | 107 | 112 | 118 | 123 | 128 | 133 | 138 | 143 | 148 | 153 | 158 | 163 | 168 | 174 | 179 | 184 | 189 | 194 | 199 | 204 | 209 | 215 | 220 | 225 | 230 | 235 | 240 | 245 | 250 | 255 | 261 | 266 | 271 | 276 |
| 5'1" / 1.55 | 100 | 106 | 111 | 116 | 122 | 127 | 132 | 137 | 143 | 148 | 153 | 158 | 164 | 169 | 174 | 180 | 185 | 190 | 195 | 201 | 206 | 211 | 217 | 222 | 227 | 232 | 238 | 243 | 248 | 254 | 259 | 264 | 269 | 275 | 280 | 285 |
| 5'2" / 1.57 | 104 | 109 | 115 | 120 | 126 | 131 | 136 | 142 | 147 | 153 | 158 | 164 | 169 | 175 | 180 | 186 | 191 | 196 | 202 | 207 | 213 | 218 | 224 | 229 | 235 | 240 | 246 | 251 | 256 | 262 | 267 | 273 | 278 | 284 | 289 | 295 |
| 5'3" / 1.60 | 107 | 113 | 118 | 124 | 130 | 135 | 141 | 146 | 152 | 158 | 163 | 169 | 175 | 180 | 186 | 191 | 197 | 203 | 208 | 214 | 220 | 225 | 231 | 237 | 242 | 248 | 254 | 259 | 265 | 270 | 278 | 282 | 287 | 293 | 299 | 304 |
| 5'4" / 1.63 | 110 | 116 | 122 | 128 | 134 | 140 | 145 | 151 | 157 | 163 | 169 | 174 | 180 | 186 | 192 | 197 | 204 | 209 | 215 | 221 | 227 | 232 | 238 | 244 | 250 | 256 | 262 | 267 | 273 | 279 | 285 | 291 | 296 | 302 | 308 | 314 |
| 5'5" / 1.65 | 114 | 120 | 126 | 132 | 138 | 144 | 150 | 156 | 162 | 168 | 174 | 180 | 186 | 192 | 198 | 204 | 210 | 216 | 222 | 228 | 234 | 240 | 246 | 252 | 258 | 264 | 270 | 276 | 282 | 288 | 294 | 300 | 306 | 312 | 318 | 324 |
| 5'6" / 1.68 | 118 | 124 | 130 | 136 | 142 | 148 | 155 | 161 | 167 | 173 | 179 | 186 | 192 | 198 | 204 | 210 | 216 | 223 | 229 | 235 | 241 | 247 | 253 | 260 | 266 | 272 | 278 | 284 | 291 | 297 | 303 | 309 | 315 | 322 | 328 | 334 |
| 5'7" / 1.70 | 121 | 127 | 134 | 140 | 146 | 153 | 159 | 166 | 172 | 178 | 185 | 191 | 198 | 204 | 211 | 217 | 223 | 230 | 236 | 242 | 249 | 255 | 261 | 268 | 274 | 280 | 287 | 293 | 299 | 306 | 312 | 319 | 325 | 331 | 338 | 344 |
| 5'8" / 1.73 | 125 | 131 | 138 | 144 | 151 | 158 | 164 | 171 | 177 | 184 | 190 | 197 | 203 | 210 | 216 | 223 | 230 | 236 | 243 | 249 | 256 | 262 | 269 | 276 | 282 | 289 | 295 | 302 | 308 | 315 | 322 | 328 | 335 | 341 | 348 | 354 |
| 5'9" / 1.75 | 128 | 135 | 142 | 149 | 155 | 162 | 169 | 176 | 182 | 189 | 196 | 203 | 209 | 216 | 223 | 230 | 236 | 243 | 250 | 257 | 263 | 270 | 277 | 284 | 291 | 297 | 304 | 311 | 318 | 324 | 331 | 338 | 345 | 351 | 358 | 365 |
| 5'10" / 1.78 | 132 | 139 | 146 | 153 | 160 | 167 | 174 | 181 | 188 | 195 | 202 | 209 | 216 | 222 | 229 | 236 | 243 | 250 | 257 | 264 | 271 | 278 | 285 | 292 | 299 | 306 | 313 | 320 | 327 | 334 | 341 | 348 | 355 | 362 | 369 | 376 |
| 5'11" / 1.80 | 136 | 143 | 150 | 157 | 165 | 172 | 179 | 186 | 193 | 200 | 208 | 215 | 222 | 229 | 236 | 243 | 250 | 257 | 265 | 272 | 279 | 286 | 293 | 301 | 308 | 315 | 322 | 329 | 338 | 343 | 351 | 358 | 365 | 372 | 379 | 386 |
| 6'0" / 1.83 | 140 | 147 | 154 | 162 | 169 | 177 | 184 | 191 | 199 | 206 | 213 | 221 | 228 | 235 | 242 | 250 | 258 | 265 | 272 | 279 | 287 | 294 | 302 | 309 | 316 | 324 | 331 | 338 | 346 | 353 | 361 | 368 | 375 | 383 | 390 | 397 |
| 6'1" / 1.85 | 144 | 151 | 159 | 166 | 174 | 182 | 189 | 197 | 204 | 212 | 219 | 227 | 235 | 242 | 250 | 257 | 265 | 272 | 280 | 288 | 295 | 302 | 310 | 318 | 325 | 333 | 340 | 348 | 355 | 363 | 371 | 378 | 386 | 393 | 401 | 408 |
| 6'2" / 1.88 | 148 | 155 | 163 | 171 | 179 | 186 | 194 | 202 | 210 | 218 | 225 | 233 | 241 | 249 | 256 | 264 | 272 | 280 | 287 | 295 | 303 | 311 | 319 | 326 | 334 | 342 | 350 | 358 | 365 | 373 | 381 | 389 | 396 | 404 | 412 | 420 |
| 6'3" / 1.91 | 152 | 160 | 168 | 176 | 184 | 192 | 200 | 208 | 216 | 224 | 232 | 240 | 248 | 256 | 264 | 272 | 279 | 287 | 295 | 303 | 311 | 319 | 327 | 335 | 343 | 351 | 359 | 367 | 375 | 383 | 391 | 399 | 407 | 415 | 423 | 431 |
| 6'4" / 1.93 | 156 | 164 | 172 | 180 | 189 | 197 | 205 | 213 | 221 | 230 | 238 | 246 | 254 | 263 | 271 | 279 | 287 | 295 | 304 | 312 | 320 | 328 | 336 | 344 | 353 | 361 | 369 | 377 | 385 | 394 | 402 | 410 | 418 | 426 | 435 | 443 |

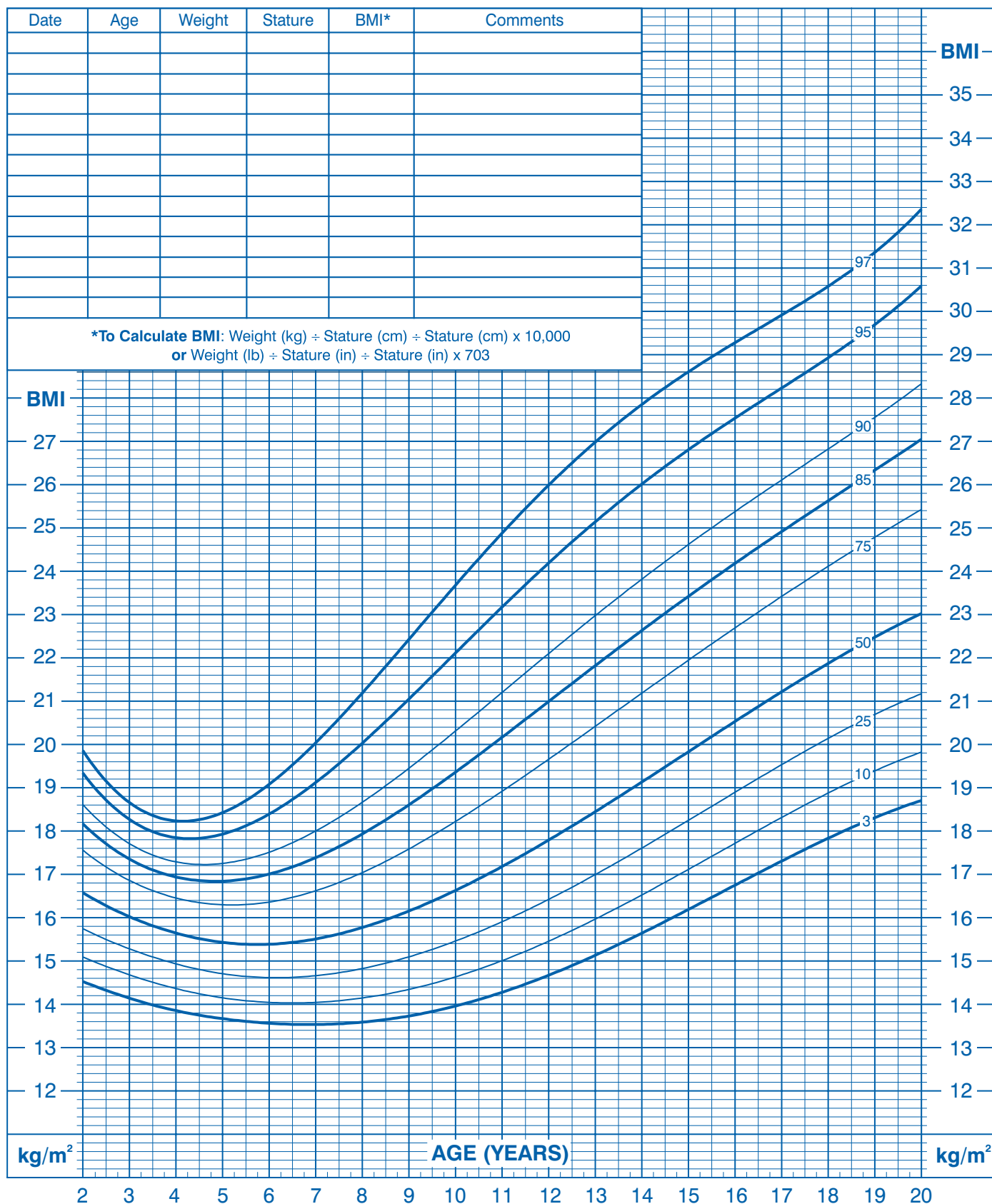
Source: Adapted from *Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults: The Evidence Report*.

2 to 20 years: Boys

Body mass index-for-age percentiles

NAME _____

RECORD # _____



Published May 30, 2000 (modified 10/16/00).

SOURCE: Developed by the National Center for Health Statistics in collaboration with the National Center for Chronic Disease Prevention and Health Promotion (2000).
<http://www.cdc.gov/growthcharts>

Your Health Matters: Nutritious Eating
Participant Handbook ~ June 2014



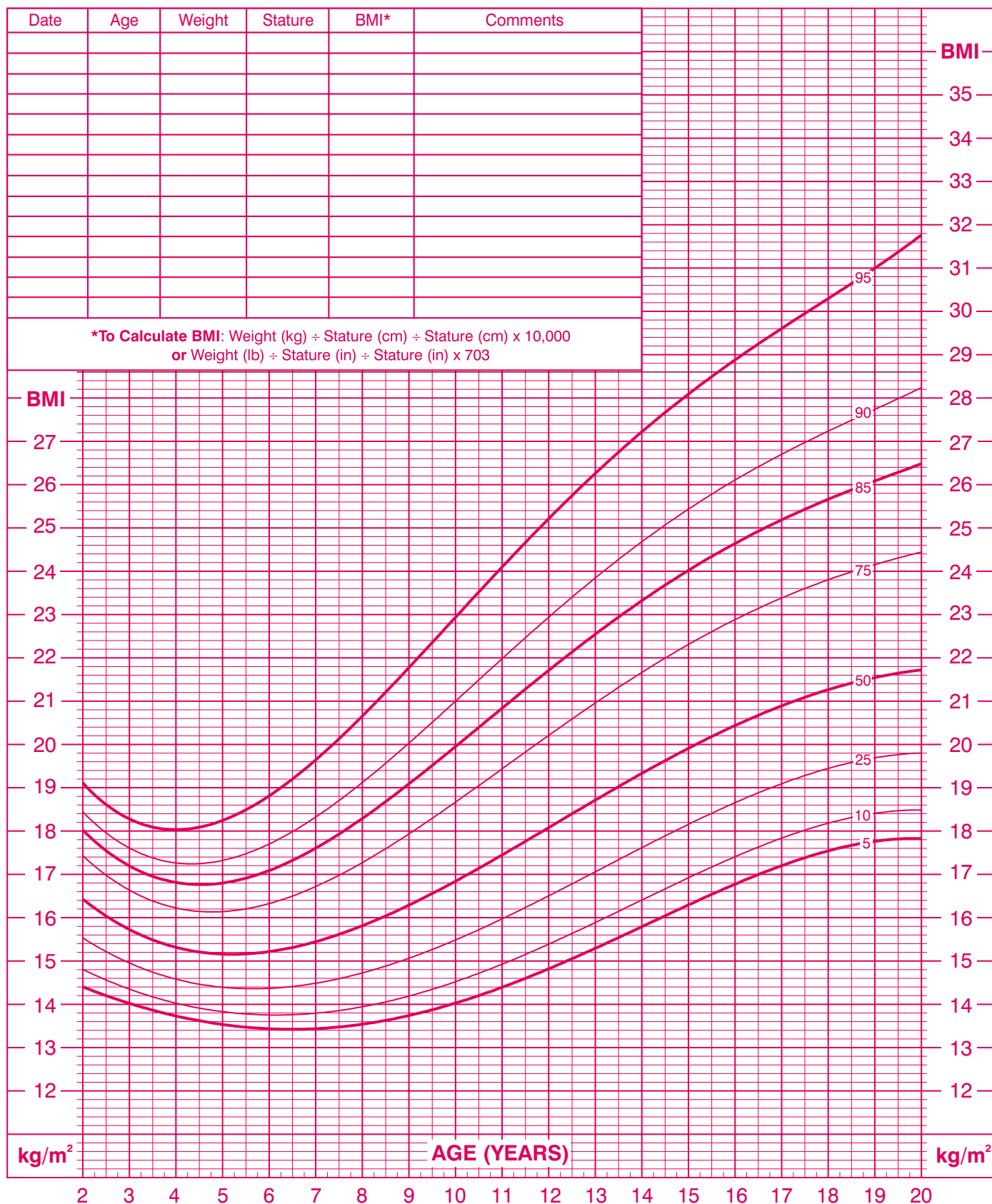
SAFER • HEALTHIER • PEOPLE™

2 to 20 years: Girls


Body mass index-for-age percentiles

NAME _____

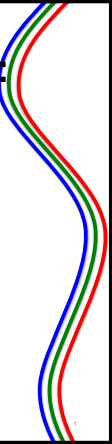
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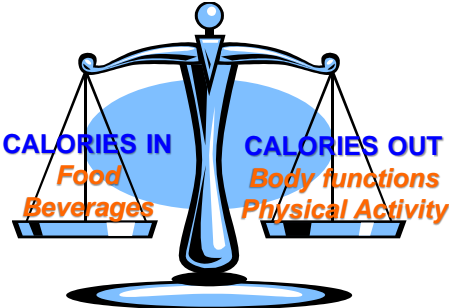
Your Health Matters: Nutritious Eating



2: Energy Balance



Energy Balance




Centers for Disease Control and Prevention, National Heart, Lung, and Blood Institute, National Institutes of Health

What is a calorie?

CALORIE = unit of energy supplied by food

Calorie Control helps with Energy Balance




How do you want to spend your calorie “budget”?


Centers for Disease Control and Prevention, American Diabetic Association

Calories, Energy Balance and Weight Control


Calories IN = Calories OUT
Energy Balance - maintain weight



Calories IN > Calories OUT over time
Out of balance - gain weight

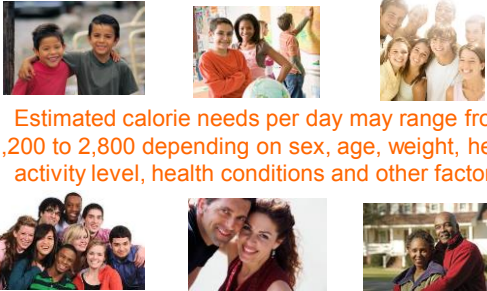



Calories IN < Calories OUT over time
Out of balance - lose weight



Centers for Disease Control and Prevention, National Heart, Lung, and Blood Institute, National Institutes of Health



Calories IN to maintain weight is different for each person.



Estimated calorie needs per day may range from 1,200 to 2,800 depending on sex, age, weight, height, activity level, health conditions and other factors.

Medline Through the Life Cycle, Brown 2006, National Heart, Lung, and Blood Institute, National Institutes of Health

Calories IN to maintain weight: Different for each person





Example 1
Sedentary
45 year-old female
5'2" 147 pounds
BMI = 27.0 (overweight)

Calories needed per day: 1,800 to maintain current weight (not to lose)

National Heart, Lung, and Blood Institute, National Institutes of Health

Calories IN to maintain weight:
Different for each person







Example 2
Moderately Active
16 year-old female
5'4" 128 pounds
BMI = 22

Calories needed per day: **2,000**
to maintain current weight

McGill Heart, Lung, and Blood Institute - National Institutes of Health

Calories IN to maintain weight:
Different for each person





Example 3
Moderately Active
65 year-old female
5'4" 155 pounds
BMI = 26.5 (overweight)

Calories needed per day: **1,800**
to maintain current weight
(not to lose weight!)

McGill Heart, Lung, and Blood Institute - National Institutes of Health

Calories OUT:
Healthy Weight Loss



100 extra calories/day = 10 pounds/year

➡ About 3,500 calories = 1 pound

➡ Healthy weight loss = 1-2 lbs/wk




9

Calories OUT:
Healthy Weight Loss



➡ Cut/burn 3,500 to 7,000 cal/wk






➡ You could lose 4 to 8 pounds per month

10

Breakfast is Important

- Studies show eating breakfast is a strategy for long-term weight loss, along with physical activity and eating a diet low in calories and fat.
- Eating early in the day jump-starts your metabolism.
- Eating breakfast helps improve strength and endurance, attitude toward work/school, blood sugar level, and helps prevent hunger and overeating later in the day.



11

Healthy Breakfast Ideas



Instant oatmeal with skim milk instead of water, add raisins and walnuts

Low-fat yogurt with crunchy cereal and sliced fruit or berries

Toaster waffle topped with low-fat yogurt and fruit

Whole-wheat pita stuffed with sliced, hard-boiled egg, low-fat cheese

Corn tortilla with peanut butter and half banana

Granola bar, apple, glass of milk

High-fiber, multigrain cereal, strawberries, skim milk

Lean ham, low-fat Swiss cheese on a toasted whole-grain English muffin

Leftover brown rice with low-fat yogurt, dried fruit, nuts and cinnamon

Deli turkey, slice of low-fat cheese and lettuce wrapped in a tortilla

Smoothie made with berries, ice, and low-fat milk or yogurt



12

What is a healthy weight?



| Body Mass Index Table | |
|-----------------------|------------|
| Weight (kg) | Height (m) |
| 50 | 1.50 |
| 55 | 1.55 |
| 60 | 1.60 |
| 65 | 1.65 |
| 70 | 1.70 |
| 75 | 1.75 |
| 80 | 1.80 |
| 85 | 1.85 |
| 90 | 1.90 |
| 95 | 1.95 |
| 100 | 2.00 |
| 105 | 2.05 |
| 110 | 2.10 |
| 115 | 2.15 |
| 120 | 2.20 |
| 125 | 2.25 |
| 130 | 2.30 |
| 135 | 2.35 |
| 140 | 2.40 |
| 145 | 2.45 |
| 150 | 2.50 |
| 155 | 2.55 |
| 160 | 2.60 |
| 165 | 2.65 |
| 170 | 2.70 |
| 175 | 2.75 |
| 180 | 2.80 |
| 185 | 2.85 |
| 190 | 2.90 |
| 195 | 2.95 |
| 200 | 3.00 |
| 205 | 3.05 |
| 210 | 3.10 |
| 215 | 3.15 |
| 220 | 3.20 |
| 225 | 3.25 |
| 230 | 3.30 |
| 235 | 3.35 |
| 240 | 3.40 |
| 245 | 3.45 |
| 250 | 3.50 |
| 255 | 3.55 |
| 260 | 3.60 |
| 265 | 3.65 |
| 270 | 3.70 |
| 275 | 3.75 |
| 280 | 3.80 |
| 285 | 3.85 |
| 290 | 3.90 |
| 295 | 3.95 |
| 300 | 4.00 |

Healthy weight is one where your BMI (height for weight) is between 19 and 24.



13

Calories IN:
Dietary Guidelines



Variety
Balance
Moderation
Nutrient Density

National Science Foundation, Inc. 2007

14

Calories IN:
Dietary Guidelines



Variety

Enjoy foods from all food groups every day



15

Calories IN:
Dietary Guidelines



Balance

Eat the right amount from each food group... Watch portions!



National Science Foundation, Inc. 2007

Calories IN:
Dietary Guidelines



Moderation

Eat mostly fruits, vegetables, and whole grains. Limit fat and sugars.



National Science Foundation, Inc. 2007

Calories IN:
Dietary Guidelines




Nutrient Density

Choose foods rich in nutrients. Avoid "empty calories."



National Science Foundation, Inc. 2007



Calories OUT:
Activity Guidelines


“FITT”

Frequency

Intensity


Time

Type



19


Centers for Disease Control and Prevention, National Heart, Lung, and Blood Institute



Calories OUT:
Activity Guidelines


Frequency

*How often
are you
physically active?*




20

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Calories OUT:
Activity Guidelines




Intensity


*Your level of
physical activity*

21

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Calories OUT:
Activity Guidelines




Time

*How long
are you
physically active?*

Adults: At least 30 minutes most days – at least 10 minutes at a time
Children: At least 60 minutes per day

22


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Calories OUT:
Activity Guidelines

Type

*aerobic or
strength training*








23

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Keep Track



24

Centers for Disease Control and Prevention

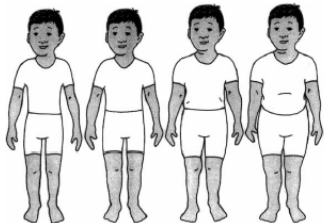
The Bottom Line...



Let's
move!



Activity: Healthy Beliefs



Challenge!

For the next three days, write down everything you eat and drink + your activity. Where can you make changes?



Energy Balance
Key Point Recap



- Calories In vs. Calories Out
- IN: *food choices - variety, balance, moderation, nutrient density*
- OUT: *activity – “FITT”*
- Keep track to tip the scale



Switch to
Portion Distortion
PowerPoint

Estimated Calorie Requirements

(In Kilocalories) for Each Gender and Age Group at Three Levels of Physical Activity^a

This chart shows how many calories are recommended for both males and females in all age groups. The energy requirements also are broken down into levels of activity from sedentary to active. This should give you a sense of how many calories, ENERGY IN, your family members need.

| Estimate Calorie Requirements | | | | |
|---|---------------------------------|------------------------|--------------------------------|--------------------------|
| 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. | | | | |
| Gender | Activity Level ^{b,c,d} | | | |
| | 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 |
| <p>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 BMI of 21.5 for adult females and 22.5 for adult males.</p> <p>b Sedentary means a lifestyle that includes only the light physical activity associated with typical day-to-day life.</p> <p>c Moderately active means a lifestyle that includes physical activity equivalent to walking about 1.5 to 3 miles per day at 3 to 4 miles per hour, in addition to the light physical activity associated with typical day-to-day life.</p> <p>d Active means a lifestyle that includes physical activity equivalent to walking more than 3 miles per day at 3 to 4 miles per hour, in addition to the light physical activity associated with typical day-to-day life.</p> <p>e The calorie ranges shown are to accommodate needs of different ages within the group. For children and adolescents, more calories are needed at older ages. For adults, fewer calories are needed at older ages.</p> | | | | |

Source: HHS/USDA Dietary Guidelines for Americans, 2005

My Physical Activity Diary Day _____



| Day of week | Time of Day | Description of Activity (Type and Intensity Level) | Duration |
|-------------|-------------|---|----------|
| | | | |
| | | | |
| | | | |
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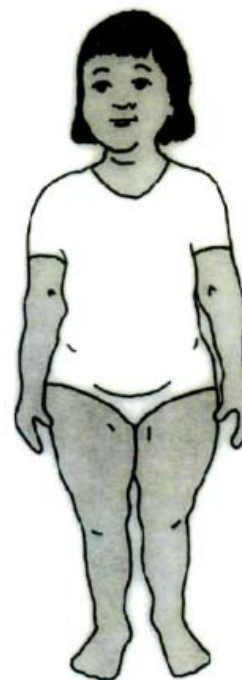
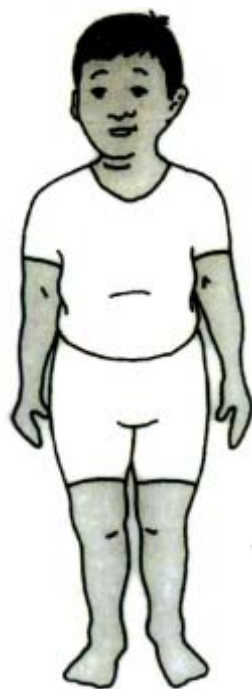
My Food Diary

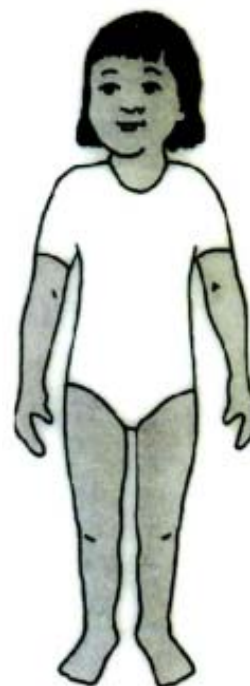
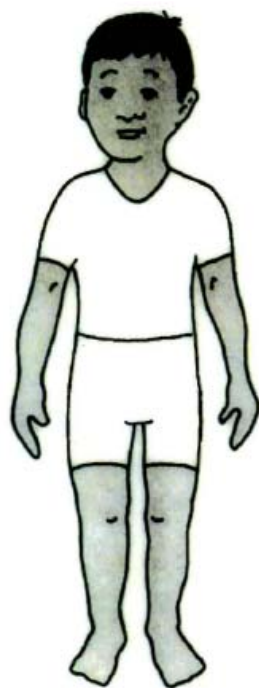
Day _____

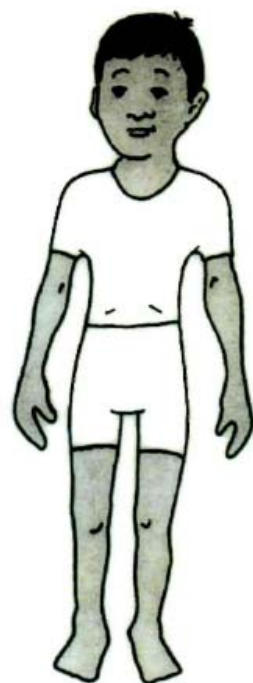
| Meal/Snack (Indicate time of day) | What You Ate and Drank | Where and With Whom | Notes (Feelings, hunger, etc.) |
|--------------------------------------|------------------------|---------------------|--------------------------------|
| Breakfast | | | |
| Snack | | | |
| Lunch | | | |
| Snack | | | |
| Dinner | | | |

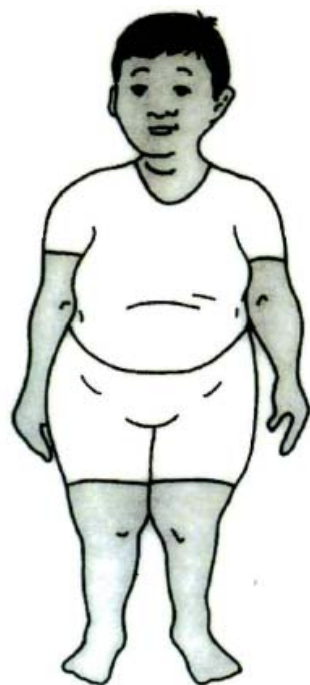
Activity: Healthy Beliefs

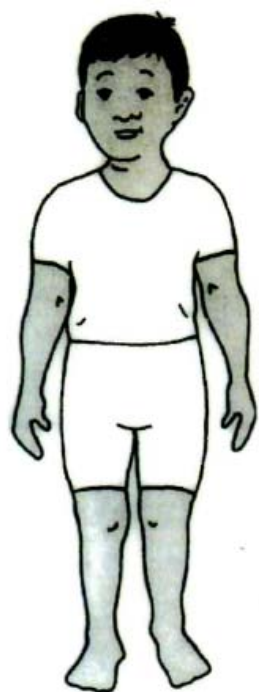
Participant Sheets

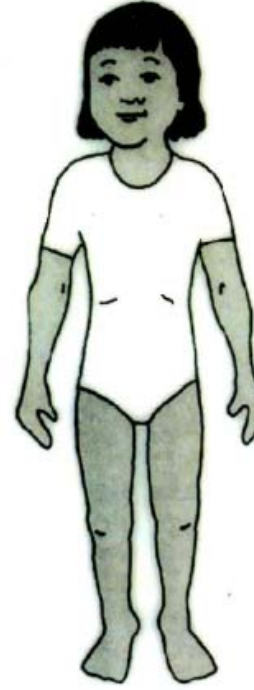
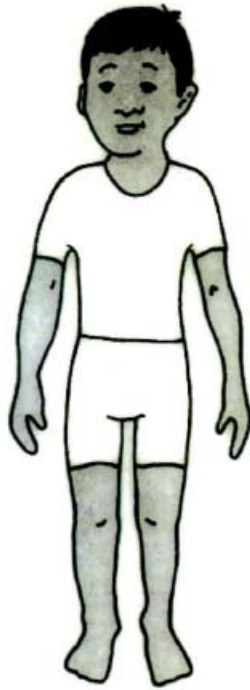


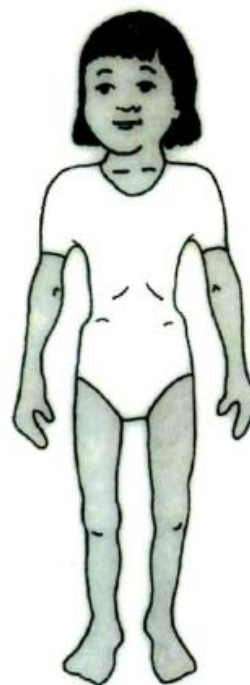
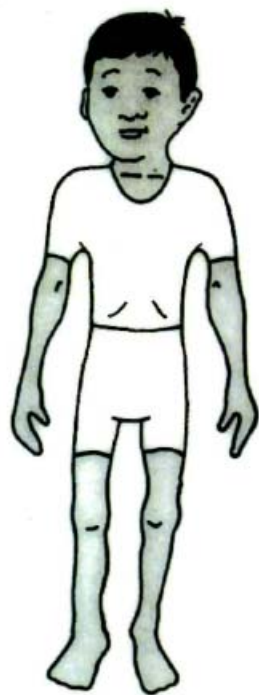






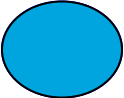
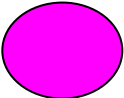
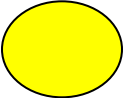






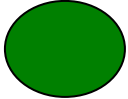

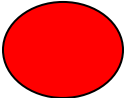
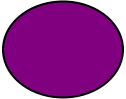
Child Health Beliefs Worksheet 1

Now I'm going to show you various drawings of children (blue, pink, and yellow) and ask you some questions.

| Silhouette <i>Use the boys and girls.</i> | How would you describe this child? | What words would you use to describe this child? | What kind of things do you think this child does to play? | What kinds of things do you think this child's mother feeds him/her? | Would you have any worries if your child looked like this? |
|--|---|---|--|---|---|
| B=Blue  | | | | | |
| D=Pink  | | | | | |
| F=Yellow  | | | | | |

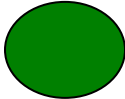

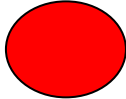

Child Health Beliefs Worksheet 2

When comparing these 4 children (dark green, light green, red, and purple), which would you say is the healthiest? Why do you think this?

| Silhouette <i>Use the boys and girls.</i> | Which child here would you describe as the healthiest child? Why? | What are terms that people use when they are talking about a healthy child? | What are the characteristics of a healthy child? | What does a healthy child look like? | How does a healthy child act? |
|---|--|--|---|---|--------------------------------------|
| A=Dark green  | | | | | |
| C=Light green  | | | | | |
| E=Red  | | | | | |
| G=Purple  | | | | | |

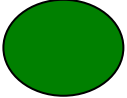

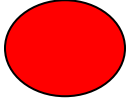
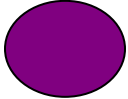
Child Health Beliefs Worksheet 3

Which of these children (dark green, light green, red, and purple) here would you say is the least healthy?

| Silhouette <i>Use the boys and girls.</i> | Which child here would you describe as the least healthy child? | What are terms that people use when they are talking about an unhealthy child? | What are the characteristics of an unhealthy child? | What does an unhealthy child look like? | How does an unhealthy child look? |
|---|--|---|--|--|--|
| A=Dark green  | | | | | |
| C=Light green  | | | | | |
| E=Red  | | | | | |
| G=Purple  | | | | | |

Child Health Beliefs Worksheet 4

Which of these children (dark green, light green, red, and purple) here looks most like your child/children? Write the names of group members in the space they indicate.

| Silhouette <i>Use the boys and girls</i> | Which child looks most like yours? | Which would you most like your child to look like? |
|---|---|---|
| A=Dark green  | | |
| C=Light green  | | |
| E=Red  | | |
| G=Purple  | | |

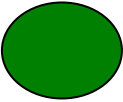
Child Health Beliefs Worksheet 5

Looking at the purple silhouette, what words would you use to describe this child?


| Silhouette <i>Use the boys and girls</i> | Which words would you use to describe this child? | Which terms would other people use to when talking about this child? | How does this child act? | How do you think this child got to look like this? |
|--|--|---|---------------------------------|---|
| <p>G=Purple</p> <div data-bbox="163 483 289 584" data-label="Image"> </div> | | | | |

Child Health Beliefs Worksheet 6

Looking at the dark green silhouette, what words would you use to describe this child?

| Silhouette <i>Use the boys and girls.</i> | Which words would you use to describe this child? | Which terms would other people use to when talking about this child? | How does this child act? | How do you think this child got to look like this? |
|--|--|---|---------------------------------|---|
| A=Dark green  | | | | |

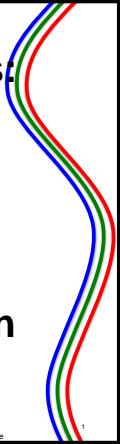
Your Health Matters: Nutritious Eating



3: Portion Distortion

How Food Portions Have
Changed in 20 Years



Presentation adapted from the National Heart, Lung, and Blood Institute Obesity Education Initiative



CHEESEBURGER

20 Years Ago


Today



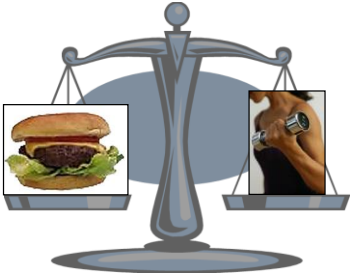
333 calories

590 calories

Calorie Difference: 257 calories




How long will you have to lift weights in order to burn the extra 257 calories?*



If you **lift weights** for **1 hour and 30 minutes**,
you will burn approximately **257 calories**.



*Based on 130-pound person



FRENCH FRIES

20 Years Ago

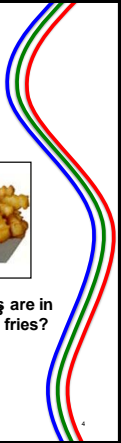
Today




210 Calories
2.4 ounces

How many calories are in
today's portion of fries?
590 calories

Calorie Difference: 400 Calories




How long will you have to walk leisurely in order to burn those extra 400 calories?*



If you **walk briskly** for **1 hour and 10 minutes**
you will burn approximately **400 calories**.*



*Based on 160-pound person



SPAGHETTI & MEATBALLS

20 Years Ago

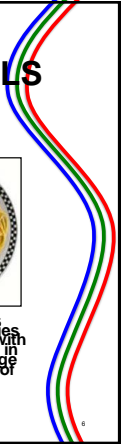
Today




500 calories
1 cup spaghetti with
sauce and 3 small
meatballs

How many calories
do you think are in
today's portion of
spaghetti and
meatballs?
1,025 calories

Calorie Difference: 525 calories



How long will you have to swim
in order to burn the extra 525 calories?*




If you **swim (moderately)** for **1 hour and 30 minutes**,
you will burn approximately **525 calories**.*

*Based on 130-pound person


TURKEY SANDWICH

20 Years Ago



320 calories

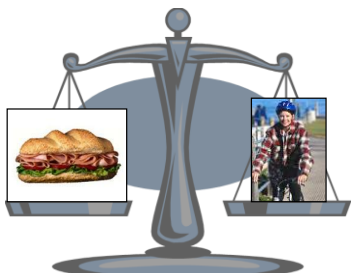
Today



How many calories are
in today's turkey
sandwich?

Calorie Difference: 500 calories

How long will you have to ride a bike
in order to burn those extra 500 calories?*




If you **ride a bike** for **1 hour and 25 minutes**,
you will burn approximately **500 calories**.*

*Based on 160-pound person


TORTILLA

20 Years Ago



220 calories
(2) small/fajita flour tortillas

Today



How many calories in
(2) large/burrito size
flour tortillas?

Calorie Difference: 200 calories

How long will you have to sweep
in order to burn the extra 200 calories?*




If you **sweep** for **50 minutes**
you will burn the extra **200 calories**.*

*Based on 160-pound person


SODA

20 Years Ago



85 Calories
6.5 ounces

Today



How many calories
are in today's
portion?

Calorie Difference: 165 Calories

How long will you have to work in the garden to burn those extra 165 calories?*



If you **work in the garden** for **35 minutes**, you will burn approximately **165 calories**.*

*Based on 160-pound person

Eat a healthy diet of mostly fruits, vegetables and whole grains.

Pay attention to serving sizes.

Eat smaller portions of high-calorie foods.

Replace calorie-dense foods and drinks with vegetables, fruits, whole grains, and other low-calorie choices.


When you eat out, choose options low in calories, fat, and sugar; avoid large portions.



The American Cancer Society

What counts as a serving?

| | |
|---------------------------|--------------------|
| ½ cup rice or pasta | = baseball |
| 1 cup cooked veggies | = tennis ball |
| ¼ cup nuts or dried fruit | = golf ball |
| 2 TBSP nut butter | = ping pong ball |
| 1 oz hard cheese | = 4 dice |
| 3 oz meat/fish/poultry | = deck of cards |
| 1 potato | = computer mouse |
| 1 oz bread/toast/pancake | = CD case |
| 1 tsp oil | = water bottle cap |



Adapted from: Whole Foods Market, "The Whole Deal" August/September 2009

Challenge!

When eating out, cut your order in half and share it with someone or take half home for another meal.




Portion Distortion

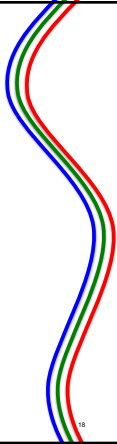
Key Point Recap



- Size matters! Pay attention to servings/portions.
- More calories IN means more calories to burn.
- Eat a healthy diet of mostly fruits, vegetables, and whole grains.



Switch to
Healthy Eating
PowerPoint



Your Health Matters: Nutritious Eating

Go
Slow
Whoa





Planning a
Healthy Plate

4: Healthy Eating



Showtime!




Video

Your Health Matters:
Nutritious Eating




GO SLOW WHOA

Use the light to eat right!




GO Foods

"whole foods;" lowest unhealthy fat and added sugars; least processed



SLOW Foods

higher unhealthy fat and added sugars; more processed



WHOA Foods

highest unhealthy fat and added sugars; most processed

National Heart, Lung, and Blood Institute, National Institutes of Health and Coordinated Approach to Child Health (CATCH)



GO Foods... Great to eat anytime





SLOW Foods

Enjoy sometimes / less often





WHOA Foods... Enjoy small portions only on special occasions



Pop Quiz!

Which food is
Go? Slow? Whoa?

1) White rice
Brown rice
Fried rice

2) Baked potato
Baked potato with butter
Fried French fries

3) Milkshake
Skim milk
Low-fat milk

Pop Quiz!

Which food is
Go? Slow? Whoa?

1) White rice **S**
Brown rice **G**
Fried rice **W**

2) Baked potato **G**
Baked potato with butter **S**
Fried French fries **W**

3) Milkshake **W**
Skim milk **G**
Low-fat milk **S**

Pop Quiz!

Which food is
Go? Slow? Whoa?

4) Peach in canned syrup
Peach pie
Fresh peach

5) 100% juice
Fruit-flavored soda
Fruit smoothie

6) Doughnut
White bread
Whole wheat bread

Pop Quiz!

Which food is
Go? Slow? Whoa?

4) Peach in canned syrup **S**
Peach pie **W**
Fresh peach **G**

5) 100% juice **G**
Fruit-flavored soda **W**
Fruit smoothie **S**

6) Doughnut **W**
White bread **S**
Whole wheat bread **G**

Planning a
Healthy Plate

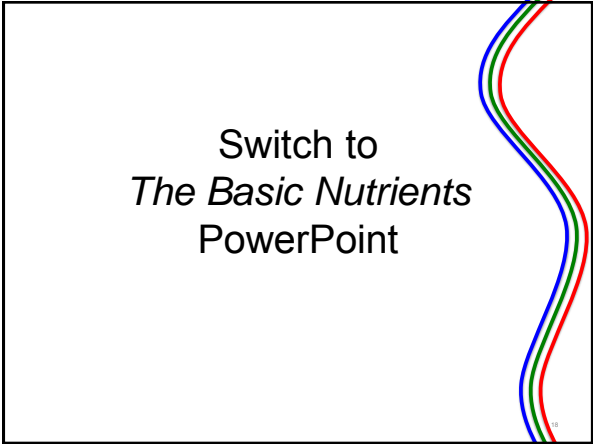
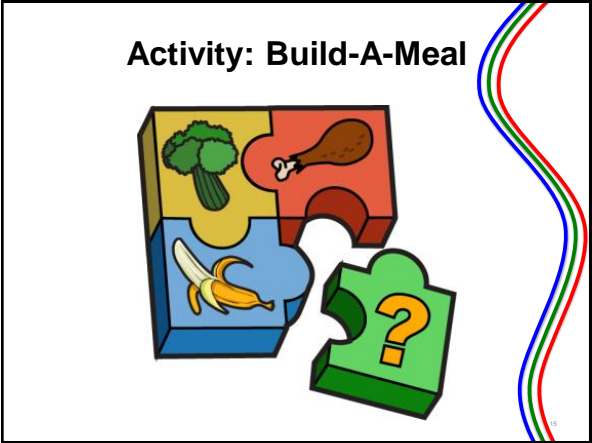
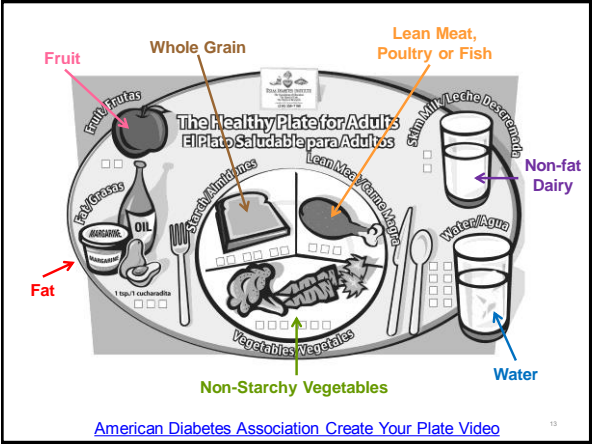
Remember the
Dietary Guidelines...

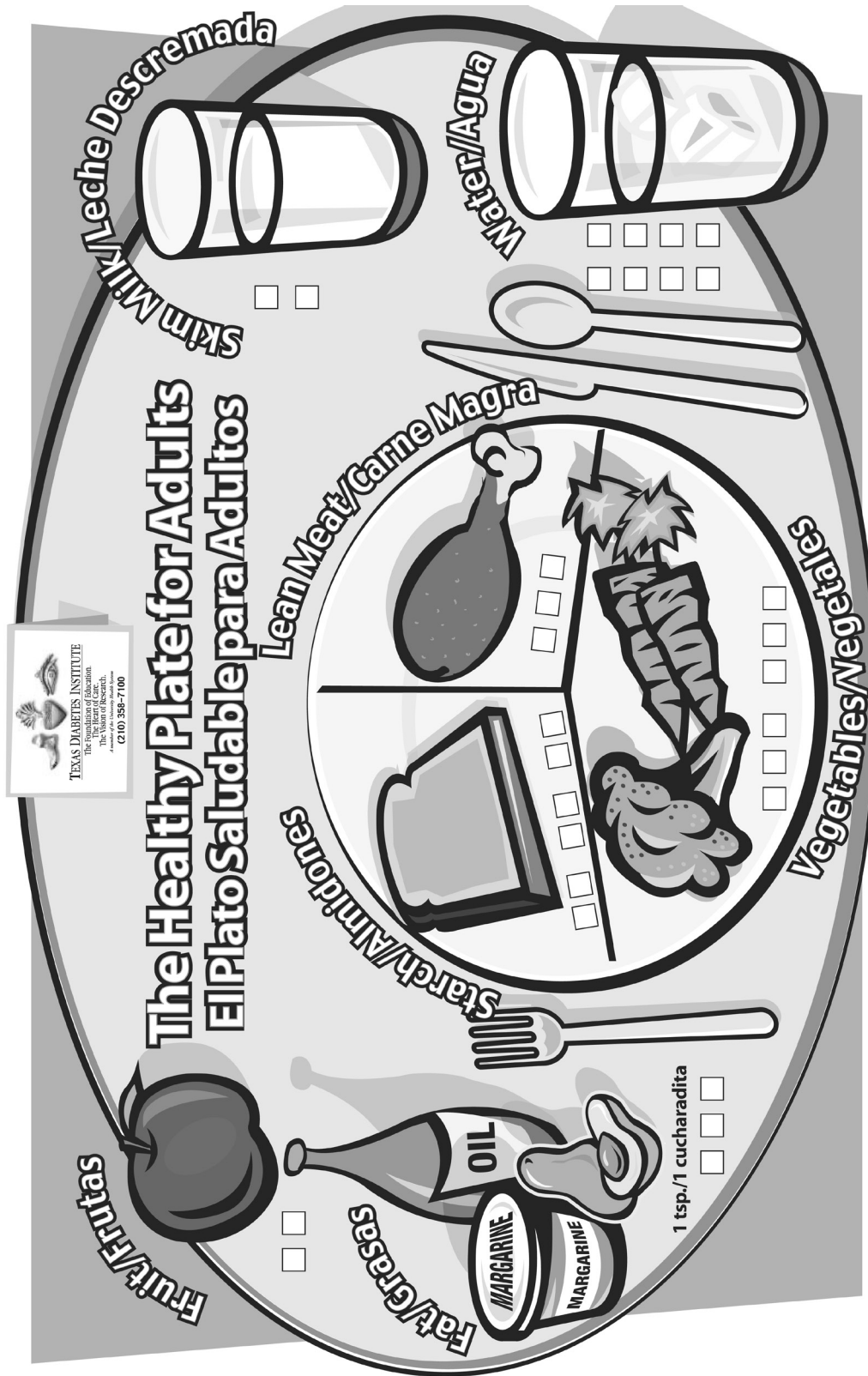
Variety

Balance

Moderation

Nutrient Density





NUTRITION

Fruit/Frutas



apple (2"), 1
apricot, 1/2 cup
banana, 1/2
cantaloupe (cubed), 1 cup
cherries, 1/2 cup
grapefruit, (medium), 1/2
grapes, 1/2 cup
orange (2-1/2"), 1
peach (2-3/4"), 1
pear (small), 1
pineapple, 3/4 cup
raspberries, 1 cup
strawberries, 1-1/4 cup
watermelon, 1-1/4 cup
juices, 1/3 to 1/2 cup

manzana (2"), 1
chavacan, 1/2 taza
plátano/banano, 1/2
melón (cubos), 1 taza
cerezas, 1/2 taza
toronja (mediano), 1/2
uvas, 1/2 taza
naranja (2-1/2"), 1
durazno (2-3/4"), 1
pera (chica), 1
piña, 3/4 taza
frambuesa, 1 taza
fresas, 1-1/4 taza
sandía, 1-1/4 taza
jugos, 1/3 a 1/2 taza

Vegetables/Vegetales



asparagus
beans (green, wax)
beets
broccoli
brussel sprouts
cabbage
carrots
cauliflower
celery
cucumbers
greens
lettuce
mushrooms
pumpkin
radishes
squash
spinach
tomatoes

esparraños
ejotes frescos
betabels
broccoli
bruselas
repollo
zanahoria
coliflor
apio
pepinos
hojas verdes
lechuga
hongos/champiñones
calabaza madura
rabanos
calabacita
espinaca
tomates

Starches/Almidones



dry cereal, 3/4 cup
cooked cereal, 1/2 cup
bread, 1 slice
bun (hamburger), 1/2
bun (hotdog), 1/2
bagel, 1/2
pasta, (cooked), 1/2 cup
peas, (cooked), 1/2 cup
rice, (cooked), 1/2 cup
tortilla (6" corn or flour), 1

cereal seco, 3/4 taza
cereal cocido, 1/2 taza
pan, 1 rebanada
pan de hamburguesa, 1/2
pan de hot dogs, 1/2
bagel, 1/2
pasta cocinada, 1/2 taza
chicharos (cocinados), 1/2 taza
arroz (cocinado), 1/2 taza
tortilla (6" maíz o harina), 1

Skim Milk/Leche Descremada



milk (skim or 1%), 1 cup
yogurt (plain or light), 1 cup
buttermilk (low fat), 1 cup

leche (descremada o 1%), 1 taza
yogurt (sencillo o light), 1 taza
suero de mantequilla
(bajo en grasa), 1 taza

Fat/Grasas



Unsaturated:
margarine, 1 tsp.
mayonaisse, 1 tsp.
cashews, dry roasted, 1 tbsp.
peanuts, 20
olives, 5
salad dressing, 1 tbsp.
avocado, 1/8
oil (canola, olive, peanut), 1 tsp.

Insaturadas:
margarina, 1 cucharadita
mayonesa, 1 cucharadita
nueces de la India, 1 cucharada
cacahuates, 20
 aceitunas, 5
aderezos de ensalada, 1 cucharada
aguacate, 1/8
 aceite (de canola, oliva o cacahuete), 1 cucharadita

Lean Meat/Carne Magra



egg substitute, 1/4 cup
cheese (lowfat), 1 oz.
lunch meats, (95% fat-free)
peanut butter, 2 tsp

claras de huevo, 1/4 taza
queso (bajo en grasa), 1 onza
carnes frías (95% libres en grasa)
mantequilla de cacahuete, 2 cucharadas

Poultry (no skin)

chicken
turkey

Aves (sin pellejo)

pollo
pavo

Carne de res

round steak
sirloin steak
flank steak
loin de res
carne de ternera

Puerco

loin de puerco
Canadian bacon
jamon



NUTRITION

Your Health Matters: Nutritious Eating
Participant Handbook ~ June 2014

H4.17

Fruit/Frutas



apple (2"), 1
apricot, 1/2 cup
banana, 1/2
cantaloupe (cubed), 1 cup
cherries, 1/2 cup
grapefruit, (medium), 1/2
grapes, 1/2 cup
orange (2-1/2"), 1
peach (2-3/4"), 1
pear (small), 1
pineapple, 3/4 cup
raspberries, 1 cup
strawberries, 1-1/4 cup
watermelon, 1-1/4 cup
juices, 1/3 to 1/2 cup

manzana (2"), 1
chavacana, 1/2 taza
plátano/banano, 1/2
melón (cubos), 1 taza
cerezas, 1/2 taza
toronja (mediano), 1/2
uvas, 1/2 taza
naranja (2-1/2"), 1
durazno (2-3/4"), 1
pera (chica), 1
piña, 3/4 taza
frambuesa, 1 taza
fresas, 1-1/4 taza
sandía, 1-1/4 taza
jugos, 1/3 a 1/2 taza

Vegetables/Vegetales



asparagus
beans (green, wax)
beets
broccoli
brussel sprouts
cabbage
carrots
cauliflower
celery
cucumbers
greens
lettuce
mushrooms
pumpkin
radishes
squash
spinach
tomatoes

espinacos
ejotes frescos
betabels
brocoli
bruselas
repollo
zanahoria
coliflor
apio
pepinos
hojas verdes
lechuga
hongos/champiñones
calabaza madura
rabanos
calabacita
espinaca
tomates

Starch/Almidones



dry cereal, 3/4 cup
cooked cereal, 1/2 cup
bread, 1 slice
bun (hamburger), 1/2
bun (hotdog), 1/2
bagel, 1/2
pasta, (cooked), 1/2 cup
peas, (cooked), 1/2 cup
rice, (cooked), 1/2 cup
tortilla (6" corn or flour), 1
lima beans, 1/2 cup

potato (baked), 3 oz
potato (mashed), 1/2 cup
winter squash, 1 cup
popcorn, 3 cups
pretzels, 3/4 oz
pan de hot dogs, 1/2
bagel, 1/2
frijoles secos (cocidos), 1/3 taza
frijoles secos (horneados), 1/4 taza
elote, 1/2 taza
habas, 1/2 taza

papa (horneada), 3 onzas
papa (puré), 1/2 taza
calabaza madura, 1 taza
palomitas de maíz, 3 tazas
pretzels, 3/4 onza
pasta cocinada, 1/2 taza
chicharos (cocinado), 1/2 taza
arroz (cocinado), 1/2 taza
tortilla (6" maíz o harina), 1

Skim Milk/Leche Descremada



milk (skim or 1%), 1 cup
yogurt (plain or light), 1 cup
buttermilk (low fat), 1 cup

leche (descremada o 1%), 1 taza
yogurt (sencillo o light), 1 taza
suero de mantequilla
(bajo en grasa), 1 taza

Fat/Grasas



Unsaturated:
margarine, 1 tsp.
mayonaisse, 1 tsp.
cashews, dry roasted, 1 tsp.
peanuts, 20
olives, 5
salad dressing, 1 tbsp.
avocado, 1/8
oil (canola, olive, peanut), 1 tsp.

Insaturadas:
margarina, 1 cucharadita
mayonesa, 1 cucharadita
nueces de la India, 1 cucharada
cacahuates, 20
acelunas, 5
aderezos de ensalada, 1 cucharada
aguacate, 1/8
aciete (de canola, oliva o cacahuete), 1 cucharadita

Lean Meat/Carne Magra



egg substitute, 1/4 cup
cheese (lowfat), 1 oz
lunch meats, (95% fat-free)
peanut butter, 2 tbsp

claras de huevo, 1/4 taza
queso (bajo en grasa), 1 onza
carnes frías (95% libres en grasa)
mantequilla de cacahuete, 2 cucharadas

Poultry (no skin)
chicken
turkey

Aves (sin pellejo)
pollo
pavo

Beef
round steak
sirloin steak
flank steak
tenderloin
veal

Carne de res
round steak
sirloin steak
flank steak
lomo de res
carne de ternera

Pork
tenderloin
Canadian bacon
ham

Puerco
lomo de puerco
Canadian bacon
jamón

Activity: Build-A-Meal

GO Food Choices

Main Dishes-GO

Eggs (scrambled, no fat added)
Hummus
Refried Beans (fat-free)
Salmon (grilled)
Salad with light dressing
Salad with grilled skinless chicken and light dressing
Turkey (low-fat) sandwich on whole wheat

Side Dishes-GO

Apple
Whole wheat toast
Broccoli
String Cheese (low-fat)
Salad with light dressing
Raisins
Low-fat plain yogurt

Drinks-GO

Water
Unsweetened decaf tea
Milk (skim)
Orange Juice

Desserts-GO

Yogurt (low-fat plain)
Strawberries
Graham crackers
Popcorn (air popped)
Pineapple

Activity: Build-A-Meal

SLOW Food Choices

Main Dishes-SLOW

Hamburger (lean) with bun
Peanut butter and jelly sandwich on white bread
Chicken Nuggets (baked)
Eggs (fried in vegetable oil)
Turkey sandwich on white bread
Cereal (Low-fat granola) with 2% milk
Fish Sticks (baked)

Side Dishes-SLOW

Broccoli with Cheese Sauce
French Fries (baked)
Potato Chips (baked)
Toast (white)
Cheddar Cheese
Tortilla Chips
Rice (white)

Drinks-SLOW

Iced Tea
Milk (2% fat)
Milk (chocolate skim)

Desserts-SLOW

Frozen Yogurt (low-fat)
Vanilla wafers
Ice Cream (low-fat)

Activity: Build-A-Meal

WHOA Food Choices

Main Dishes-WHOA

Cheeseburger (quarter-pound)
Chicken Sandwich (breaded and fried)
Enchiladas
Fried Chicken
Pepperoni Pizza
Hotdog and bun
Ham and cheese sandwich on white bread

Side Dishes-WHOA

French Fries (fried)
Bacon
Potato Salad
Cheese (processed)
Potato Chips (regular)
Yogurt (whole milk)
Pickles

Drinks-WHOA

Coke
Milk (whole)
Sprite
Fruit punch
Energy drink
Sports drink
Coffee drink (frozen)

Desserts-WHOA

Chocolate Cake
Oreo Cookies
Ice Cream
Brownie

Build-A-Meal: How does your lunch stack up?

| | Main Dish | Side Dish | Drink | Dessert | Total from Lunch | 1/3 RDA for adults 31-50 yrs | Over/Under |
|------------------------------|-----------|-----------|-------|---------|------------------|------------------------------|------------|
| Fat (grams) | | | | | | 22 g* | |
| Sodium (mg) | | | | | | 500 mg | |
| Carbohydrates (grams) | | | | | | ~43 g | |
| Protein (grams) | | | | | | 15-18 g | |
| Total Calories | | | | | | ~660 kcal** | |

*Based on a 2,000-calorie diet with no more than 30% of calories from fat and 10% from saturated fat.

**Based on a 2000-calorie diet.

Now, as a group, total the fat, sodium, carbohydrates, protein, and calories for all participants that chose foods from the GO list, those that chose from the SLOW list, and those that chose from the WHOA list. Divide these totals by the number of participants in each group to get an average for each nutrient.

| | GO Foods Group average | SLOW Foods group average | WHOA Foods group average |
|------------------------------|---------------------------|-----------------------------|-----------------------------|
| Fat (grams) | | | |
| Sodium (mg) | | | |
| Carbohydrates (grams) | | | |
| Protein (grams) | | | |
| Total Calories | | | |

Activity: Build-A-Meal

Nutrition Information

Use the table below to see how well your day's meals stack up to balanced nutrition.

Remember, even if you do really well that you have to watch for serving sizes. (In other words, just because your Oreo cookies didn't put you over the fat limit doesn't mean you should eat half the bag!)

| Food | Fat grams, g | Sodium milligrams, mg | Carbohydrates grams, g | Protein grams, g | Total Calories |
|--------------------------------------|---------------------------|------------------------------------|----------------------------------|----------------------------|---------------------------------|
| Apple | 0 | 0 | 22 | 0 | 80 |
| Bacon | 7 | 280 | 0 | 4 | 80 |
| Broccoli | 0 | 25 | 4 | 3 | 25 |
| Broccoli with cheese sauce | 14 | 703 | 8 | 14 | 212 |
| Brownie | 9 | 175 | 36 | 3 | 227 |
| Cereal with 2% Milk | 7 | 223 | 47 | 12 | 286 |
| Cheddar Cheese | 9 | 174 | 0 | 7 | 113 |
| Cheese (processed) | 9 | 400 | 1 | 6 | 105 |
| Cheeseburger (quarter-pound) | 29 | 1160 | 37 | 28 | 520 |
| Chicken nuggets (baked) | 10 | 560 | 20 | 20 | 240 |
| Chicken sandwich (breaded and fried) | 29 | 797 | 42 | 17 | 491 |
| Chocolate Cake | 11 | 250 | 36 | 3 | 250 |
| Coffee drink (frozen) | 2 | 165 | 40 | 3 | 195 |
| Coke | 0 | 35 | 27 | 0 | 100 |
| Eggs (fried in vegetable oil) | 19 | 63 | 1 | 6 | 198 |
| Eggs (scrambled, no fat added) | 5 | 63 | 1 | 6 | 74 |
| Enchiladas | 33 | 980 | 37 | 34 | 560 |
| Fish sticks (baked) | 14 | 642 | 26 | 18 | 304 |
| French Fries (baked) | 5 | 1050 | 40 | 5 | 140 |
| French Fries (fried) | 25 | 1105 | 60 | 5 | 470 |
| Fried Chicken | 28 | 1230 | 19 | 34 | 460 |
| Fruit Punch | 0 | 10 | 29 | 0 | 114 |
| Frozen Yogurt (low-fat) | 2 | 146 | 48 | 11 | 227 |
| Graham Crackers | 2 | 170 | 22 | 2 | 118 |
| Ham and cheese sandwich on white | 22 | 1620 | 30 | 23 | 403 |
| Hamburger (lean) with bun | 2 | 342 | 22 | 36 | 439 |
| Hotdog and bun | 14 | 730 | 19 | 9 | 240 |
| Hummus, ½ c | 12 | 480 | 18 | 10 | 210 |
| Ice Cream (low-fat) | 4 | 125 | 22 | 4 | 140 |
| Ice Cream, regular | 9 | 130 | 24 | 3 | 190 |
| Iced Tea | 0 | 25 | 21 | 0 | 80 |

| Food | Fat grams, g | Sodium milligrams, mg | Carbohydrates grams, g | Protein grams, g | Total Calories |
|--|-----------------------------|--------------------------------------|-----------------------------------|-----------------------------|---------------------------|
| Milk (whole) | 8 | 98 | 13 | 8 | 146 |
| Milk (2% fat) | 5 | 100 | 20 | 8 | 122 |
| Milk (skim) | 0 | 128 | 12 | 8 | 86 |
| Milk (chocolate skim) | 0 | 180 | 27 | 8 | 140 |
| Orange Juice, 8 oz | 0 | 0 | 27 | 1 | 110 |
| Oreos (3) | 7 | 210 | 24 | 2 | 160 |
| Peanut Butter & Jelly on White | 17 | 315 | 33 | 10 | 310 |
| Pepperoni Pizza, 1 slice | 17 | 860 | 43 | 15 | 390 |
| Pickle | 0 | 1631 | 3 | 0 | 15 |
| Pineapple | 0 | 2 | 20 | 1 | 74 |
| Popcorn (air popped) | 0 | 2 | 12 | 2 | 62 |
| Potato Chips (regular) | 9 | 170 | 16 | 2 | 150 |
| Potato Chips (baked) | 3 | 210 | 21 | 2 | 120 |
| Potato Salad | 28 | 460 | 19 | 4 | 340 |
| Raisins | 0 | 5 | 34 | 1 | 129 |
| Refried beans (fat-free) | 0 | 490 | 24 | 9 | 130 |
| Rice (white) | 1 | 3 | 41 | 5 | 194 |
| Salad (with light dressing) | 22 | 670 | 11 | 9 | 210 |
| Salad (with grilled, skinless chicken, light dressing) | 25 | 797 | 11 | 35 | 600 |
| Salmon (grilled) | 13 | 86 | 0 | 39 | 280 |
| Sports Drink | 0 | 95 | 15 | 0 | 63 |
| Sprite | 0 | 45 | 26 | 0 | 100 |
| Strawberries | 0 | 2 | 12 | 1 | 49 |
| String Cheese (low-fat) | 2 | 200 | 1 | 8 | 60 |
| Toast (white) | 1 | 160 | 15 | 2 | 79 |
| Toast (whole wheat) | 1 | 147 | 13 | 3 | 75 |
| Tortilla Chips | 6 | 60 | 19 | 2 | 140 |
| Turkey Sandwich on White | 15 | 1585 | 29 | 24 | 346 |
| Turkey (low-fat) Sandwich on Wheat | 5 | 1010 | 46 | 18 | 280 |
| Vanilla Wafers | 4 | 87 | 21 | 1 | 123 |
| Water | 0 | 1 | 0 | 0 | 0 |
| Yogurt (whole milk) | 8 | 120 | 12 | 9 | 160 |
| Yogurt (low-fat, plain) | 3 | 115 | 12 | 8 | 100 |

Test your meal-building skills at home!

Take-Home Family Activity: Build-A-Meal



How Does Your Family Meal Stack Up?

Take a minute to think about the foods that you and your family usually eat. As a family, review the GO-SLOW-WHOA concept of healthy eating and teach them what you learned during the Build-A-Meal activity to create three family meals of your choice. Remember to choose more GO foods than SLOW foods, and more SLOW foods than WHOA foods.

Healthy Eating Tips

In the *Your Health Matters: Nutritious Eating*, you learned about categorizing foods as **GO**, **SLOW**, or **WHOA**.

- **GO** foods are commonly described as “whole foods.” They’re lower in added sugars and/or unhealthy fats, such as saturated fat, and they’re often less processed compared to foods in the same food group. GO foods include fruits and vegetables; whole grains and foods made with whole grains; and unsweetened fat-free and low-fat milk and dairy foods.
- **SLOW** foods are higher in added sugars and/or unhealthy fats and may be more processed than GO foods. SLOW foods include unsweetened reduced-fat milk and dairy foods; sweetened fat-free and low-fat milk and dairy foods; and processed foods made with refined grains and added sugars and/or unhealthy fats.
- **WHOA** foods are highest in added sugars and/or unhealthy fats, and they’re usually the most processed. WHOA foods include candy, cookies, chips, fried foods, ice cream, whole milk, soft drinks, and sugary cereals.

It’s best to eat more GO foods than SLOW foods, and more SLOW foods than WHOA foods. The healthiest type of meal includes mostly GO foods.

When planning your daily meals, keep in mind that the average teenager needs 1,800 to 2,220 calories a day, adult females need about 1,800 calories a day, and adult males need about 2,200 calories a day.

Directions: Select a main dish, side dish, drink, and dessert from the handout of food choices. List your choices and the corresponding nutrition information in the tables on the following page. Then determine whether your choices meet the overall daily calorie recommendations. When creating your family meals you may want to use the Nutrition Information table and GO, SLOW, WHOA foods handout that you received in class.

Acknowledgement:
Adapted with permission from the CATCH Middle School project

Your Health Matters: Nutritious Eating Build-A-Meal Family Activity

| MEAL #1 | Main Dish (circle one) GO SLOW WHOA | Side Dish (circle one) GO SLOW WHOA | Drink (circle one) GO SLOW WHOA | Dessert (circle one) GO SLOW WHOA | Total from meal |
|----------------|--|--|--|--|-----------------------|
| Our Choices: | _____ | _____ | _____ | _____ | |
| Fat (g) | | | | | |
| Sugar (mg) | | | | | |
| Total calories | | | | | |

| MEAL #2 | Main Dish (circle one) GO SLOW WHOA | Side Dish (circle one) GO SLOW WHOA | Drink (circle one) GO SLOW WHOA | Dessert (circle one) GO SLOW WHOA | Total from meal |
|----------------|--|--|--|--|-----------------------|
| Our Choices: | _____ | _____ | _____ | _____ | |
| Fat (g) | | | | | |
| Sugar (mg) | | | | | |
| Total calories | | | | | |

| MEAL #3 | Main Dish (circle one) GO SLOW WHOA | Side Dish (circle one) GO SLOW WHOA | Drink (circle one) GO SLOW WHOA | Dessert (circle one) GO SLOW WHOA | Total from meal |
|----------------|--|--|--|--|-----------------------|
| Our Choices: | _____ | _____ | _____ | _____ | |
| Fat (g) | | | | | |
| Sugar (mg) | | | | | |
| Total calories | | | | | |

After planning your three family meals, here are a few things to think about:

1. How do your total calories for each meal compare with the overall daily calorie recommendations?
2. Overall, how healthy were your choices?
3. What are three things you can change to make your meal healthier?

Your Health Matters: Nutritious Eating
Build-A-Meal Family Activity

GO, SLOW, WHOA Food Examples

Here is a handy
list you can use
when choosing
foods at stores
and restaurants!



GRAINS

| GO | SLOW | WHOA |
|--------------------------------|------------------------------------|-------------------------------------|
| Whole-grain, low-sugar cereals | Low-sugar cereals (refined grains) | High-sugar cereals (refined grains) |
| Whole-grain breads/tortillas | White (refined flour) breads/buns | Sweet rolls, croissants |
| Graham crackers | Vanilla wafers, low-fat cookies | High-fat cookies |
| Corn tortillas | White (refined flour) tortillas | |
| Whole-grain pasta | Pasta (refined flour) | |
| Brown rice | White rice | |
| Baked tortilla chips | Tortilla chips | |
| | Baked potato chips | Potato chips |
| | Pretzels | Cheese puffs, corn chips |

MILK AND DAIRY FOODS

| GO | SLOW | WHOA |
|------------------------------|--------------------------------|---------------------------|
| Fat-free (skim, nonfat) milk | 2% milk | Whole milk |
| 1% milk | Fat-free or 1% flavored milk | Whole or 2% flavored milk |
| Part-skim natural cheeses | Natural cheeses (like cheddar) | Processed cheeses |
| Low-fat string cheese | String cheese | |
| | Low-fat ice cream | Ice cream |

MEAT, BEANS, AND EGGS

| GO | SLOW | WHOA |
|---|---|---|
| Whole eggs | Eggs fried in vegetable oil | Eggs fried in butter, lard, or bacon grease |
| Extra-lean ground beef | Lean ground beef/hamburger | Regular ground beef/hamburger |
| Fish (baked, grilled, broiled) | Fish (breaded and baked) | Fish (fried) |
| Pork chop with fat cut off | Canadian bacon | Bacon, ribs, pork skins |
| Low-fat luncheon meat | Regular luncheon meat | Hot dog, sausage, bologna, chorizo |
| Tuna canned in water | Tuna canned in oil | |
| Cooked dried beans with no fat | Cooked dried beans with fat | |
| Chicken – no skin (baked, grilled, broiled) | Chicken – with skin (baked, grilled, broiled) | Fried chicken |

Fruits and Fruit Juices

All **fruits and fruit juices** with no added sugar are **GO** foods.

Vegetables

All **vegetables** with no added fat are **GO** foods.

Beverages

All **soft drinks, energy drinks, sports drinks, coffee drinks, and fruit-flavored drinks** are **WHOA** foods.

Your Health Matters: Nutritious Eating



5: The Basic Nutrients

Calories In



The Six Basic Nutrients

Macronutrients

Water
Carbohydrates
Proteins
Fats

Micronutrients

Vitamins
Minerals



Water



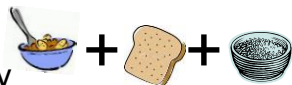
- Makes up 60-75% total body weight
- Vital to keep your “engines” running
- Intake met with food and beverages
- 8 to 10 cups/day

Carbohydrates

- Best “fuel” for the body = glucose

- Whole Grains

➢ 3 servings/day



- Vegetables

➢ 2 ½ cups/day



- Fruits

➢ 2 cups/day



Proteins

- Give structure for muscle, bone, skin

- Meat, poultry, fish, eggs,
nuts, seeds, beans

➢ 5 ½ ounces/day




- Dairy

➢ 3 cups/day



Fats (Lipids)



- Provide structure and store energy
- Make most of your fat sources from fish, nuts, vegetable oils
- Limit butter, margarine, lard, shortening

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Nutrition & Science: Therapeutic nutrition for 2013, 14th edition

GO SLOW WHOA and Fats

Unsaturated Fats

- ❖ monounsaturated
- ❖ polyunsaturated
- ❖ ↓ heart disease risk

Saturated Fats

- ❖ mostly from animal sources
- ❖ not a necessary part of a healthy diet
- ❖ ↑ heart disease risk


Trans Fats (oils)

- ❖ partially hydrogenated
- ❖ not necessary for your body
- ❖ ↑ heart disease + diabetes risk

Go

Slow

Whoa

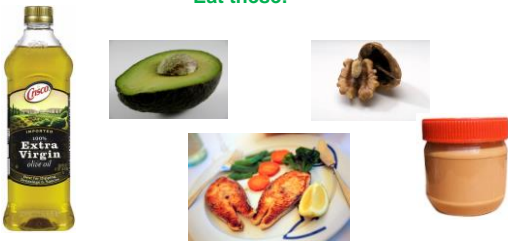


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American Heart Association

Dietary Sources of Unsaturated Fats

Vegetable Oils: Olive, Canola, Peanut, Sesame, Sunflower
Avocado, Peanut Butter, Nuts and Seeds, Fatty Fish

Eat these!




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American Heart Association

Dietary Sources of Saturated Fats

Fatty Meats - Beef, Lamb, Poultry with skin
Full-fat Dairy Foods (cheese, butter, ice cream, whole milk)
Coconut and Palm Oils
Cocoa Butter

Limit these!




10
American Heart Association

Dietary Sources of Trans Fats

Stick Margarine, Some Tub Margarine, Shortening
Fried Foods, Some processed foods like baked goods and crackers


Avoid these!



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American Heart Association

Vitamins

- Vital for using energy from carbohydrates, protein, and fat
- A, B₆, B₁₂, C, D, E, K, Folate, Thiamin, Riboflavin, Niacin, Biotin, Pantothenic Acid
- Best to get through a whole foods diet... variety!



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Your Health Matters: Nutritious Eating
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2

Fruits and Vegetables = great sources of vitamins


Vitamin A



Vitamin B6




Vitamin C



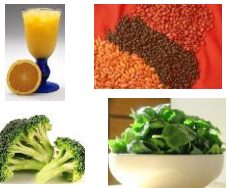
Minerals

- Give bones structure, carry oxygen in your blood, regulate heartbeat
- Calcium, Iron, Potassium, Sodium, Zinc, Phosphorus, Magnesium, and more
- Best to get through a whole foods diet... variety!




Fruits and Vegetables = great sources of minerals


Calcium



Iron




Potassium



Alcohol... *Not a nutrient!*

- Ethyl alcohol (ethanol)
- Intoxicating ingredient produced by fermentation of yeast, sugars, starches
- Central nervous system depressant



Alcohol... *Not a nutrient!*

Frozen Margarita
12 oz = 750 cal

Sweet Wine
4 oz = 105 cal


Regular Beer
12 oz = 149 cal

Tequila Shot
1.5 oz = 100 cal

Rum
1 oz = 64 calories

Moderation = no more than 1 drink per day for women;
no more than 2 drinks per day for men

Dietary Guidelines



- ~50% Carbohydrates
- ~20% Protein
- ~30% Fat

Eat a balanced whole foods diet
especially **fruits** and **veggies**
to meet your basic nutrient needs



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For the next week,
drink 8 glasses of
water per day and
try one new fruit.



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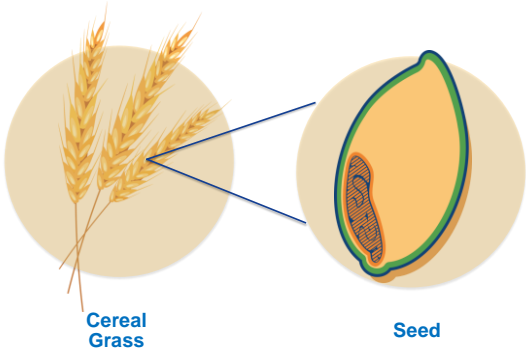


What is a
grain?

© 2009, General Mills, Inc.

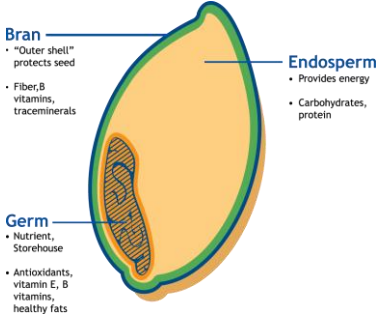
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Grains are Seeds



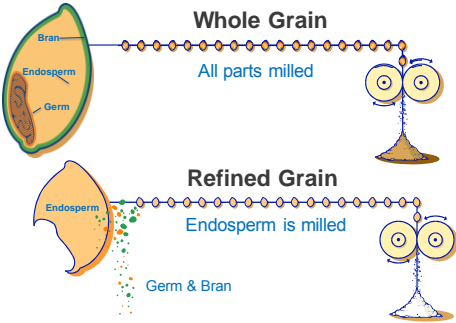
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Parts of a Grain

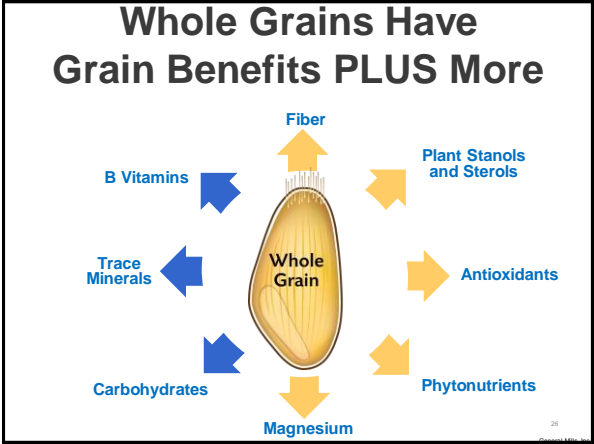


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Milling of Grains



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Grains Contain Important Nutrients

Carbohydrates

B Vitamins

Trace Minerals

- Iron
- Zinc
- Copper

Dietary Fiber

Whole Grain

Fiber

Insoluble (whole grains)
Soluble (fruits and veggies)

- Helps move food through
- Helps control blood sugar
- Makes you feel full faster
- Lowers cholesterol

Whole Grain Health Benefits

- **Reduced risk of disease:**
 - Heart disease
 - Some cancers
 - Diabetes
- **Digestive health**
- **Weight control**

Whole Grain Fiber Facts

Whole Grain ≠ Fiber

Whole Grain Doesn't Mean High Fiber

- Whole grain foods provide 1-4 grams of fiber per serving
- Contain the whole grain package

High Fiber Doesn't Mean Whole Grain

- Some high-fiber grain foods are not whole grain

Will the Whole Grain Please Stand Up?

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Label-Reading for Whole Grain

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Look for an FDA-Approved Health Claim

33

Look for Whole Grain Symbols

Whole Grains Council Stamp Program

General Mills Products

The Whole Grain Guarantee from General Mills guarantees that every box of Big G cereal has at least 8 grams (a half serving) of whole grain per serving. At least 48 grams of whole grain is recommended daily.

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Activity: Fiber Line-up

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Challenge!

Each week, for the next four weeks, try a new whole grain food.

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The Basic Nutrients

Key Point Recap



- IN: A healthy diet has a balance of carbohydrates, protein and fat
- IN: “Vary your veggies” and “Focus on fruits”
- IN: “Make half your grains whole”
- IN: Get enough fiber
- Watch out for packaging health claims



Switch to
*Understanding the
Nutrition Facts Label*
PowerPoint



In Search of a Whole Grain

The Benefits of Whole Grain

Messages about whole grain seem to be everywhere, but what exactly is a whole grain? What makes it so special? And why should whole grain be an important part of your diet? The Dietary Guidelines for Americans recommend at least three servings of whole grain foods daily¹ (48 grams of whole grain). Including enough whole grain foods as part of a healthy diet may help:

Protect heart health: Choosing a diet rich in whole grain foods may help reduce the risk of heart disease.

Manage weight: People who eat more whole grain have healthier body weights than those who don't, and they're more successful at maintaining their body weight over time.

Reduce cancer risk: Increasing whole grain may help reduce the risk for certain cancers, especially cancers of the stomach and colon.

Reduce diabetes risk: Eating more whole grain may reduce the risk of diabetes. Whole grain foods may also help maintain healthy blood glucose and insulin levels.

What Exactly is a Whole Grain?

Whole grain means just that — it's the complete grain. The health benefits of whole grain come from all three parts of the grain — the bran, the germ and the endosperm — working synergistically in their natural proportions.

With whole grain, the "whole" is truly better than the sum of the parts. Individual nutrients in whole grain foods each offer important health benefits. Working together in the "whole" food, they perform in powerful ways to protect your health.

Bran

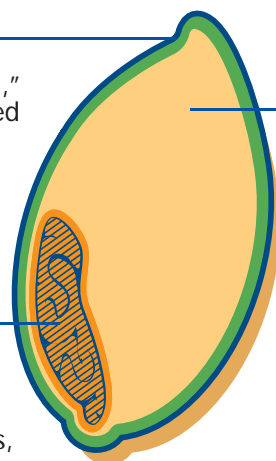
- "Outer shell," protects seed
- Fiber, B-vitamins, trace minerals

Germ

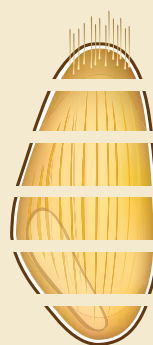
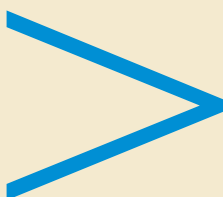
- Nutrient storehouse
- Antioxidants, vitamin E, B-vitamins, healthy fats

Endosperm

- Provides energy
- Carbohydrates, protein



The whole is greater than the sum of the parts



Phytonutrients
Antioxidants
Fiber
Minerals
Vitamins
Carbohydrates

¹ U.S. Department of Health and Human Services and U.S. Department of Agriculture. Dietary Guidelines for Americans, 2005, 6th Edition, Washington DC: U.S. Government Printing Office, January 2005.

In Search of a Whole Grain

Finding foods made with whole grain is easy, once you know what to look for. Discover whole grain foods in your supermarket with these quick tips.

Scan the Ingredient List

Foods made with whole grain — such as wheat, oats, corn or rice — will list it near the top of the Ingredient List. You'll know it's whole grain if the words "whole" or "whole grain" appear before the grain's name in the Ingredient List. Foods that claim to be "multi-grain," "100% wheat" or "high fiber" are not necessarily whole grain.

INGREDIENTS: **WHOLE GRAIN OATS**, MODIFIED CORN STARCH, CORN STARCH, SUGAR, SALT, CALCIUM CARBONATE, OAT FIBER, TRIPOTASSIUM PHOSPHATE, WHEAT STARCH, VITAMIN E (MIXED TOCOPHEROLS) ADDED TO PRESERVE FRESHNESS.

Look for the Whole Grain Symbols

The whole grain symbols shown below make it easy to find foods with a half-serving or more of whole grain.

Whole Grains Council Stamps

Some food manufacturers are making it easier to find whole grain foods by adding the Whole Grains Council Stamps to their products. Aim to eat three whole grain food products labeled with the 100% Whole Grains Council Stamp, or six whole grain food products labeled with any Whole Grains Council Stamp.



The Whole Grain Guarantee from General Mills

Look for the General Mills check-mark logo. The Whole Grain Guarantee from General Mills guarantees that every Big G cereal has at least eight grams (a half-serving) of whole grain per serving.



Did you know that General Mills' Big G cereals delivered 35 million servings of whole grain per day in fiscal 2009? That translates to Big G cereals providing more than 10% of the estimated whole grain consumed in America!*

*Based on most recent whole grain consumption figures, NHANES 2003-2004

Take Note of the Health Statement

This government-authorized statement points out the connection between whole grain foods and health. Whole grain foods that meet certain requirements can carry the following message. Look for it on a product's label:

"Diets rich in whole grain and plant foods, and low in total fat, saturated fat and cholesterol may reduce the risk of heart disease and some cancers."

IN A LOW-FAT DIET, WHOLE GRAIN FOODS LIKE
TOTAL MAY REDUCE THE RISKS OF
HEART DISEASE and SOME CANCERS

Your Health Matters:
Nutritious Eating



| Nutrition Facts | |
|---|-----------------------|
| Serving Size 1 cup (228g) Servings Per Container 2 | |
| Amount Per Serving | Calories from Fat 110 |
| Calories 250 | % Daily Value* |
| Total Fat 12g | 18% |
| Saturated Fat 3g | 15% |
| Trans Fat 1.5g | 10% |
| Cholesterol 30mg | 20% |
| Sodium 470mg | 10% |
| Total Carbohydrate 31g | 0% |
| Dietary Fiber 0g | |
| Sugars 5g | |
| Protein 5g | |
| Vitamin A | 4% |
| Vitamin C | 2% |
| Calcium | 20% |
| Iron | 4% |

6: Understanding the Nutrition
Facts Label

The Nutrition Facts Label

Using the Food Label to Make
Healthy Eating Choices



Presented with information from the Food and Drug Administration's
Center for Food Safety and Applied Nutrition, Office of Nutritional Products, Labeling, and Dietary Supplements
and the American Dietetics Association eatright.org Web site

Key Label Questions



- How many calories am I actually eating
- Is that number low or high?
- What nutrients should I limit or get enough of and why?
- What is %DV?
- How does %DV help me with making healthy food choices?

The Nutrition Facts Label



| Nutrition Facts | |
|---|-----------------------|
| Serving Size 1 cup (228g) Servings Per Container 2 | |
| Amount Per Serving | Calories from Fat 110 |
| Calories 250 | % Daily Value* |
| Total Fat 12g | 18% |
| Saturated Fat 3g | 15% |
| Trans Fat 1.5g | 10% |
| Cholesterol 30mg | 20% |
| Sodium 470mg | 10% |
| Total Carbohydrate 31g | 0% |
| Dietary Fiber 0g | |
| Sugars 5g | |
| Protein 5g | |
| Vitamin A | 4% |
| Vitamin C | 2% |
| Calcium | 20% |
| Iron | 4% |

Sample label for
Macaroni & Cheese

1 Start Here

2 Check Calories

3 Limit these Nutrients

4 Get Enough of these Nutrients

5 Footnote

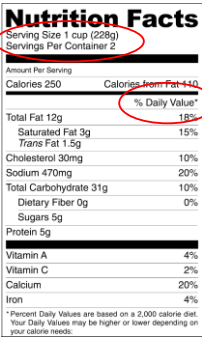
6 Quick Guide to % DV

| Nutrition Facts | |
|---|-----------------------|
| Serving Size 1 cup (228g) Servings Per Container 2 | |
| Amount Per Serving | Calories from Fat 110 |
| Calories 250 | % Daily Value* |
| Total Fat 12g | 18% |
| Saturated Fat 3g | 15% |
| Trans Fat 3g | 10% |
| Cholesterol 30mg | 20% |
| Sodium 470mg | 10% |
| Total Carbohydrate 31g | 0% |
| Dietary Fiber 0g | |
| Sugars 5g | |
| Protein 5g | |
| Vitamin A | 4% |
| Vitamin C | 2% |
| Calcium | 20% |
| Iron | 4% |

* Percent Daily Values are based on a 2,000 calorie diet.
Your Daily Values may be higher or lower depending on your calorie needs.

| | Calories | 2,000 | 2,500 |
|--------------------|-----------|---------|---------|
| Total Fat | Less than | 65g | 80g |
| Sat Fat | Less than | 20g | 25g |
| Cholesterol | Less than | 300mg | 350mg |
| Sodium | Less than | 2,400mg | 2,400mg |
| Total Carbohydrate | | 300g | 375g |
| Dietary Fiber | | 25g | 30g |

How many servings?



| Nutrition Facts | |
|---|-----------------------|
| Serving Size 1 cup (228g) Servings Per Container 2 | |
| Amount Per Serving | Calories from Fat 110 |
| Calories 250 | % Daily Value* |
| Total Fat 12g | 18% |
| Saturated Fat 3g | 15% |
| Trans Fat 1.5g | 10% |
| Cholesterol 30mg | 20% |
| Sodium 470mg | 10% |
| Total Carbohydrate 31g | 0% |
| Dietary Fiber 0g | |
| Sugars 5g | |
| Protein 5g | |
| Vitamin A | 4% |
| Vitamin C | 2% |
| Calcium | 20% |
| Iron | 4% |

* Percent Daily Values are based on a 2,000 calorie diet.
Your Daily Values may be higher or lower depending on your calorie needs.

General Guide to Calories

40 calories is **low**
100 calories is **moderate**
400 calories is **high**

Based on a 2,000-calorie diet

7

The Percent Daily Value - %DV

The % DV is based on 100% of the daily value for **each** nutrient.

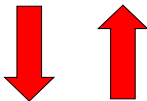
% DV tells you if a serving of food is high or low in a certain nutrient .

| % Daily Value* | |
|----------------|-----|
| Total Fat | 18% |
| Saturated Fat | 15% |
| Trans Fat | |
| Cholesterol | 10% |
| Sodium | 20% |
| Total Carbs | 10% |
| Dietary Fiber | 0% |
| Sugars | |
| Protein | |
| | |
| Vitamin A | 4% |
| Vitamin C | 2% |
| Calcium | 20% |
| Iron | 4% |

8

Quick Guide to % DV

5% DV or less is low



20% DV or more is high

| Nutrition Facts | |
|---------------------------|-----------------------|
| Serving Size 1 cup (228g) | |
| Servings Per Container 2 | |
| Amount Per Serving | Calories from Fat 110 |
| Calories 250 | |
| % Daily Value* | |
| Total Fat 12g | 18% |
| Saturated Fat 3g | 15% |
| Trans Fat 3g | |
| Cholesterol 30mg | 10% |
| Sodium 470mg | 20% |
| Total Carbohydrate 31g | 10% |
| Dietary Fiber 0g | 0% |
| Sugars 5g | |
| Protein 5g | |
| Vitamin A | 4% |
| Vitamin C | 2% |
| Calcium | 20% |
| Iron | 4% |

* Percent Daily Values are based on a diet of other people's secrets. Your Daily Values may be higher or lower depending on your calorie needs.

| | | | |
|--------------------|-----------|---------|---------|
| | Calories | 2,000 | 2,500 |
| Total Fat | Less than | 65g | 80g |
| Sat Fat | Less than | 20g | 25g |
| Cholesterol | Less than | 300mg | 350mg |
| Sodium | Less than | 2,400mg | 2,400mg |
| Total Carbohydrate | | 300g | 375g |
| Dietary Fiber | | 25g | 30g |

Limit these nutrients

Get enough of these nutrients

9

Limit These Nutrients

The goal is to stay **BELOW** 100% of the DV for each of these nutrients per day.

| | |
|------------------|-----|
| Total Fat 12g | 18% |
| Saturated Fat 3g | 15% |
| Trans Fat 1.5g | |
| Cholesterol 30mg | 10% |
| Sodium 470mg | 20% |

Fat, Cholesterol, Sodium

10

Get Enough of These Nutrients

| | |
|------------------|-----|
| Dietary Fiber 0g | 0% |
| Vitamin A | 4% |
| Vitamin C | 2% |
| Calcium | 20% |
| Iron | 4% |

Try to get 100% of the DV for each of these nutrients each day.

Fiber, Vitamins, Minerals

11

Read the Nutrition Facts Label for Total Sugars

| Nutrition Facts | |
|---------------------------------|---------------------|
| Serving Size 1 container (226g) | |
| Amount Per Serving | Calories from Fat 0 |
| Calories 110 | |
| % Daily Value* | |
| Total Fat 0g | 0% |
| Saturated Fat 0g | 0% |
| Trans Fat 0g | |
| Cholesterol Less than 5mg | 1% |
| Sodium 160mg | 7% |
| Total Carbohydrate 15g | 5% |
| Dietary Fiber 0g | 0% |
| Sugars 10g | |
| Protein 13g | |
| Vitamin A | 0% |
| Vitamin C | 4% |
| Calcium | 45% |
| Iron | 0% |

* Percent Daily Values are based on a 2000 calorie diet. Your Daily Values may be higher or lower depending on your calorie needs.

| Nutrition Facts | |
|---------------------------------|----------------------|
| Serving Size 1 container (227g) | |
| Amount Per Serving | Calories from Fat 25 |
| Calories 240 | |
| % Daily Value* | |
| Total Fat 3g | 4% |
| Saturated Fat 1.5g | 9% |
| Trans Fat 0g | |
| Cholesterol 15mg | 5% |
| Sodium 140mg | 6% |
| Total Carbohydrate 46g | 15% |
| Dietary Fiber Less than 1g | 3% |
| Sugars 44g | |
| Protein 9g | |
| Vitamin A | 2% |
| Vitamin C | 4% |
| Calcium | 35% |
| Iron | 0% |

* Percent Daily Values are based on a 2000 calorie diet. Your Daily Values may be higher or lower based on your calorie needs.

12

Look at the Ingredient List
for Added Sugars

Food Sample #1

INGREDIENTS: CULTURED PASTEURIZED GRADE A NONFAT MILK, WHEY PROTEIN CONCENTRATE, PECTIN, CARRAGEENAN.

Food Sample #2

INGREDIENTS: ~~CULTURED GRADE A REDUCED FAT MILK, APPLES, HIGH FRUCTOSE CORN SYRUP, CINNAMON, NUTMEG, NATURAL FLAVORS, AND PECTIN.~~ CONTAINS ACTIVE YOGURT AND L. ACIDOPHILUS CULTURES

13

Activity



14

Challenge!

Examine your pantry this week. Note which items to replace with healthier options.



15

Nutrition Facts Label
Key Point Recap

- Start with the serving size
- Check out the total calories, fat, sugar
- Let the % Daily Value be your guide – low on top; high on bottom
- Read the list of ingredients
- Eat mostly foods without labels like fresh fruits and vegetables

| Nutrition Facts | |
|---|----------------------|
| Serving Size 1 cup (240g) | |
| Amount Per Serving | |
| Calories 100 | Calories from Fat 10 |
| Total Fat 2g | |
| Saturated Fat 1g | |
| Trans Fat 0.5g | |
| Cholesterol 5mg | |
| Sodium 100mg | |
| Total Carbohydrate 30g | |
| Dietary Fiber 5g | |
| Sugars 10g | |
| Protein 5g | |
| Vitamin A 10% | |
| Vitamin C 20% | |
| Calcium 20% | |
| Iron 10% | |
| Percent Daily Values are based on a diet of other people's secrets. | |



Switch to
Meal Planning
PowerPoint

17

Activity: Food Fights!

Nutrition Information Nutrition Facts Food Label

Sample label from Macaroni & Cheese

① **Start Here** →

② **Check Calories**

③ **Limit these Nutrients**

④ **Get Enough of these Nutrients**

⑤ **Footnote**

| Nutrition Facts | |
|---|-----------------------|
| Serving Size 1 cup (228g) Servings Per Container 2 | |
| Amount Per Serving | |
| Calories 250 | Calories from Fat 110 |
| | % Daily Value* |
| Total Fat 12g | 18% |
| Saturated Fat 3g | 15% |
| Trans Fat 3g | |
| Cholesterol 30mg | 10% |
| Sodium 470mg | 20% |
| Total Carbohydrate 31g | 10% |
| Dietary Fiber 0g | 0% |
| Sugars 5g | |
| Protein 5g | |
| Vitamin A | 4% |
| Vitamin C | 2% |
| Calcium | 20% |
| Iron | 4% |

* Percent Daily Values are based on a 2,000 calorie diet. Your Daily Values may be higher or lower depending on your calorie needs.

| | Calories: | 2,000 | 2,500 |
|--------------------|-----------|---------|---------|
| Total Fat | Less than | 65g | 80g |
| Sat Fat | Less than | 20g | 25g |
| Cholesterol | Less than | 300mg | 300mg |
| Sodium | Less than | 2,400mg | 2,400mg |
| Total Carbohydrate | | 300g | 375g |
| Dietary Fiber | | 25g | 30g |

⑥ **Quick Guide to % DV**

- 5% or less is Low
- 20% or more is High

Label information from U.S. Food and Drug Administration web site: www.cfsan.fda.gov/~dms/foodlab.html

Overview of Nutrition Facts Label

1. Serving Size

- The size of the serving influences the number of calories and amount of nutrients
- Pay attention to the serving size, especially how many servings there are in the food package
- Then ask yourself, "How many servings am I consuming?" (e.g. 1/2 serving, 1 serving, or more)

Serving Size 1 cup (228g)
Servings Per Container 2

2. Calories (and Calories from Fat)

- Calories measure how much energy you get from a serving of food
 - Remember: the number of servings you consume determines the number of calories you actually eat (your portion amount)
- ***Eating too many calories per day is linked to overweight and obesity.

Amount Per Serving

Calories 250 Calories from Fat 110

The Nutrients: How Much?

3. Limit These Nutrients

- Eating too much fat, saturated fat, trans fat, cholesterol, or sodium may increase your risk of certain chronic diseases, like heart disease, some cancers, or high blood pressure.

***Important: Health experts recommend that you keep your intake of saturated fat, *trans* fat and cholesterol as low as possible as part of a nutritionally balanced diet.

| | |
|------------------|-----|
| Total Fat 12g | 18% |
| Saturated Fat 3g | 15% |
| Trans Fat 3g | |
| Cholesterol 30mg | 10% |
| Sodium 470mg | 20% |

4. Get Enough of These

| | |
|------------------|-----|
| Dietary Fiber 0g | 0% |
| Vitamin A | 4% |
| Vitamin C | 2% |
| Calcium | 20% |
| Iron | 4% |

- Most Americans don't get enough dietary fiber, vitamin A, vitamin C, calcium, and iron in their diets.
- Eating enough of these nutrients can improve your health and help reduce the risk of some diseases.

***Remember: You can use the Nutrition Facts label not only to help *limit* those nutrients you want to cut back on but also to *increase* those nutrients you need to consume in greater amounts.

5. Understanding the Footnote on the Bottom of the Nutrition Facts Label

* Percent Daily Values are based on a 2,000 calorie diet. Your Daily Values may be higher or lower depending on your calorie needs.

| | Calories: 2,000 | 2,500 |
|--------------------|-------------------|---------|
| Total Fat | Less than 65g | 80g |
| Sat Fat | Less than 20g | 25g |
| Cholesterol | Less than 300mg | 300mg |
| Sodium | Less than 2,400mg | 2,400mg |
| Total Carbohydrate | 300g | 375g |
| Dietary Fiber | 25g | 30g |

- % DVs are based on a 2,000 calorie diet
- Look at the amounts circled in red in the footnote –these are the Daily Values (DV) for each nutrient listed
- DVs are recommended levels of intakes.

% Daily Value*

| |
|-----|
| 18% |
| 15% |
| 10% |
| 20% |
| 10% |
| 0% |

6. The Percent Daily Value

- The % DV helps you determine if a serving of food is high or low in a nutrient
- 5% DV or less is low and 20% DV or more is high

| |
|-----|
| 4% |
| 2% |
| 20% |
| 4% |

Food Fight! Whole Milk vs. Skim Milk

| Whole Milk | |
|--|-----|
| Nutrition Facts | |
| Serving Size = 8 fl oz Servings Per Container = 2 | |
| Amount Per Serving | |
| Calories = 150 Calories from fat = 70 | |
| % Daily Value* | |
| Total Fat 8g | 12% |
| Saturated Fat 5g | 25% |
| Cholesterol 35mg | 12% |
| Sodium 125mg | 5% |
| Total Carbohydrate 12g | 11% |
| Dietary Fiber 0g | 0% |
| Sugars 11g | |
| Protein 8g | |
| Vitamin A 6% • Vitamin C 4% | |
| Calcium 30% • Iron 0% • Vitamin D 25% | |
| * Percent Daily Values are based on a 2,000 calorie diet. | |
| Ingredients: milk, vitamin D ₃ , vitamin E | |

| Skim/Nonfat Milk | |
|--|----|
| Nutrition Facts | |
| Serving Size = 1 cup Servings Per Container = 16 | |
| Amount Per Serving | |
| Calories = 80 Calories from fat = 0 | |
| % Daily Value | |
| Total Fat 0g | 0% |
| Saturated Fat 0g | 0% |
| Cholesterol less than 5mg | 1% |
| Sodium 130mg | 5% |
| Total Carbohydrate 12g | 4% |
| Dietary Fiber 0g | 0% |
| Sugars 11g | |
| Protein 8g | |
| Vitamin A 8% • Vitamin C 4% | |
| Calcium 30% • Iron 0% • Vitamin D 25% | |
| * Percent Daily Values are based on a 2,000 calorie diet. | |
| Ingredients: fat free milk, vitamin A palmitate, vitamin D ₃ , vitamin E | |

- How many fluid ounces (fl oz) are in one cup? _____
- Fill in the table below for each 8 oz. serving of milk.

| | Whole Milk | Skim Milk |
|---------------|------------|-----------|
| Calories | | |
| Saturated fat | | |
| Sugars | | |
| Calcium | | |

- Considering which nutrients you want to decrease in your diet, which would be the better choice?

- Is whole milk a Go, Slow, or Whoa food? Why? _____
- Is skim milk a Go, Slow, or Whoa food? Why? _____

Food Fight! Tropicana Orange Juice vs. Sunny D

| | |
|---|-----------------|
| Tropicana Pure Premium Orange Juice (no pulp) | |
| Nutrition Facts | |
| Serving Size = 8 fl oz Servings Per Container = 1 | |
| Amount Per Serving | |
| Calories = 110 Calories from fat = 0 | |
| % Daily Value | |
| Total Fat 0g | 0% |
| Saturated Fat 0g | 0% |
| Trans Fat 0g | |
| Monounsaturated Fat 0g | |
| Polyunsaturated Fat 0g | |
| Cholesterol 0mg | 0% |
| Sodium 0mg | 0% |
| Total Carbohydrate 26g | 9% |
| Dietary Fiber 0g | 0% |
| Sugars 22g | |
| Protein 2g | |
| Vitamin A 0% | • Vitamin C 50% |
| Calcium 2% | • Thiamin 0% |
| Vitamin D 0% | • Folate 15% |
| * Percent Daily Values are based on a 2,000 calorie diet. | |
| Ingredients: 100% pure and natural orange juice | |

| | |
|---|------------------|
| Sunny D Tangy Original Style | |
| Nutrition Facts | |
| Serving Size = 8 fl oz Servings Per Container = 8 | |
| Amount Per Serving | |
| Calories = 120 Calories from fat = 0 | |
| % Daily Value | |
| Total Fat 0g | 0% |
| Saturated Fat 0g | 0% |
| Trans Fat 0g | |
| Monounsaturated Fat 0g | |
| Polyunsaturated Fat 0g | |
| Cholesterol 0mg | 0% |
| Sodium 190mg | 8% |
| Total Carbohydrate 29g | 10% |
| Dietary Fiber 0g | 0% |
| Sugars 27g | |
| Protein 0g | |
| Vitamin A 0% | • Vitamin C 100% |
| Calcium 0% | • Iron 0% |
| Vitamin D 0% | • Phosphorus 0% |
| * Percent Daily Values are based on a 2,000 calorie diet. | |
| Ingredients: water, high fructose corn syrup and 2% or less of each of the following: concentrated juices (orange, tangerine, apple, lime, grapefruit), citric acid, ascorbic acid (vitamin C), thiamin hydrochloride (vitamin B1), natural flavors, modified corn starch, canola oil, sodium citrate, cellulose gum, xanthan gum, sodium hexametaphosphate, sodium benzoate to protect flavor, yellow #5, yellow #6 | |

1. Fill in the table below for each 8 oz. serving of Tropicana and Sunny D.

| | Tropicana | Sunny D |
|---------------|-----------|---------|
| Calories | | |
| Saturated fat | | |
| Sugars | | |
| Calcium | | |

2. What percent of the orange juice and Sunny D is actually fruit juice? _____
3. Do you think the orange juice a Go, Slow, or Whoa food? Why? _____
4. Do you think the Sunny D is a Go, Slow, or Whoa food? Why? _____

Food Fight! Shredded Wheat Cereal vs. Low-fat Granola

| Post Shredded Wheat Cereal | |
|---|---------------|
| Nutrition Facts | |
| Serving Size = 49 g Servings Per Container = 7 | |
| Amount Per Serving | |
| Calories = 170 Calories from fat = 10 | |
| % Daily Value | |
| Total Fat 1g | 2% |
| Saturated Fat 0g | 0% |
| Trans Fat 0g | |
| Monounsaturated Fat 0g | |
| Polyunsaturated Fat 0g | |
| Cholesterol 0mg | 0% |
| Sodium 0mg | 0% |
| Total Carbohydrate 40g | 13% |
| Dietary Fiber 6g | 24% |
| Sugars 0g | |
| Protein 6g | |
| Vitamin A 0% | Vitamin C 0% |
| Calcium 2% | Iron 6% |
| Vitamin D 0% | Phosphorus 0% |
| * Percent Daily Values are based on a 2,000 calorie diet. | |
| Ingredients: whole grain wheat, BHT | |

| Kellogg's Low-Fat Granola without Raisins | |
|---|----------------|
| Nutrition Facts | |
| Serving Size = 1/2 cup (49g) Servings Per Container = 10 | |
| Amount Per Serving | |
| Calories = 190 Calories from fat = 25 | |
| % Daily Value | |
| Total Fat 2.5g | 4% |
| Saturated Fat 5g | 3% |
| Trans Fat 0g | |
| Monounsaturated Fat 0g | |
| Polyunsaturated Fat 0g | |
| Cholesterol 0mg | 0% |
| Sodium 110mg | 5% |
| Total Carbohydrate 40g | 13% |
| Dietary Fiber 3g | 12% |
| Sugars 14g | |
| Protein 4g | |
| Vitamin A 15% | Vitamin C 2% |
| Calcium 0% | Iron 10% |
| Vitamin D 10% | Phosphorus 10% |
| * Percent Daily Values are based on a 2,000 calorie diet. | |
| Ingredients: whole oats, whole grain wheat, sugar, corn syrup, rice, almonds, molasses, modified corn starch, high fructose corn syrup, palm oil, salt, cinnamon, non-fat dry milk, natural and artificial flavor, polyglycerol esters of mono- and diglycerides, malt flavor, niacinamide, zinc oxide, ascorbic acid (vitamin C), pyridoxine hydrochloride (vitamin B6), reduced iron, guar gum, BHT (preservative), riboflavin (vitamin B2), vitamin A (palmitate), folic acid, thiamin hydrochloride (vitamin B1), vitamin B12, vitamin D | |

1. Fill in the table below for each serving of cereal.

| | Shredded Wheat | Granola |
|---------------|----------------|---------|
| Calories | | |
| Saturated fat | | |
| Sugars | | |
| Fiber | | |

2. Considering which nutrients you want to decrease in your diet, which would be the better choice?

3. Do you think the shredded wheat is a Go, Slow, or Whoa food? Why? _____

4. Do you think the granola is a Go, Slow, or Whoa food? Why? _____

Your Health Matters: Nutritious Eating

The Supermarket
&
Food Cost
Comparison



Bonus!
Healthy
Cooking Tips

7: Meal Planning and Healthy Cooking

The Supermarket

More than
40,000 food
choices!



2



Typical Store Layout

3

Always make a list

Save time and
money!



4

Navigating Tips



- Work the edges
- Look high and low
- Learn the lingo



5

For This Age That's Supermarket Survival Guide: Robble Inc. 2009

Label Claims

Learn
the lingo!

| Wording | Means |
|-----------------------------------|--|
| "Whole grain" versus "Multigrain" | Entire grain kernel used (good choice!) versus More than one type of grain used in product |
| "Light" or "Lite" | Fat reduced by ≤50% |
| "Calorie Free" | Less than 5 calories/svg |
| "Fat Free" | Less than .5g sat fat/svg |
| "Sugar Free" | Less than .5g sugars/svg |
| "Excellent Source of" | ≥ 20% DV/svg |
| "Good Source of" | 10-19% DV/svg |
| "Organic" | ≥ 70% certified organic ingredients |
| "Made with" | Ingredients can be listed on side panel |



Nutritional Sciences, Thompson Learning, Inc. 2007

Navigating Tips



- More Packaging = Less Nutrition
- Order of ingredients is most to least
- Fewer Ingredients = Healthier Food



For This May Third Supermarket Survival Guide, Purdue, Inc. 2009

Shopping Tips



- Fresh is best
- Choose seasonal produce
- Visit your local Farmer's Market



8

Fill your pantry
and fridge...



....with a
variety of
fresh foods!

9

**“Eating healthy costs
more, doesn’t it?”**



Food Cost Comparisons

10

You could eat this one unhealthy meal...

1,100 calories



11

Or this healthy breakfast, lunch and snack...



1,080
calories



...for the same amount of calories!

12

Meal at McDonald's for Family of 5

| Food | Calories | Cost |
|-----------------------------|-------------|----------------|
| Quarter Pounder with Cheese | 510 | \$5.13 |
| Fries | 500 | |
| Soda | 310 | |
| Crispy Chicken Sandwich | 530 | \$5.49 |
| Fries | 500 | |
| Soda | 310 | |
| Happy Meal Cheeseburger | 300 | \$2.79 |
| Fries | 203 | |
| Chocolate Milk | 170 | |
| 6 Chicken Nugget Meal | 280 | \$3.79 |
| Fries | 230 | |
| Hi-C | 160 | |
| Hamburger Happy Meal | 250 | \$2.29 |
| Fries | 230 | |
| Milk | 100 | |
| Total | 4610 | \$19.49 |



13

Meal at Home for Family of 5

| Food | Cost |
|---|---------------|
| Whole Wheat Spaghetti | \$1.29 |
| Marinara Sauce | \$1.89 |
| 1 lb. 96% Lean Hamburger Meat | \$4.00 |
| Salad (1/2 head lettuce + light Ranch dressing) | \$1.79 |
| Total Cost | \$8.97 |
| Calories/Serving | 450 |



*Prices based on H.E.B. prices as of February 2009, Brownsville, Texas

14

Cost and Calorie Comparison



Three times/week = \$58.47
Average calories/meal = 922



Three times/week = \$24.56
Average calories/meal = 423

By eating at home, you save
\$33.01 and 1497 calories per week!

15

Cost and Calorie Comparison



More calories in less food
More dollars spent
Poor nutrition



Less calories in more food
More dollars saved
Better nutrition

Eating healthy home-cooked meals
saves you money and calories!

16



Benefits of family meals

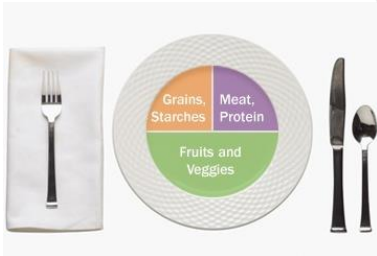
- ❖ Eat more healthy foods - get more nutrients
- ❖ Decreased risk for unhealthy weight
- ❖ Decreased risk for substance abuse
- ❖ Strengthens family ties; pass on traditions
- ❖ Form positive attitudes about food and eating
- ❖ Do better in school
- ❖ Happier life



McGrawHill.com

17

Activity: Plan Your Plate



18

Challenge!

For the next four weeks, cook at home one more time per week than you typically do.

Start a new family tradition...
Meatless Monday,
Fruit for dessert,
Kids Night in the Kitchen one night per week.



Meal Planning
Key Point Recap



- Eating healthy does not have to cost more.
- Navigate your supermarket wisely.
- Plan your shopping to save time, money and calories!
- Enjoy fruits and vegetables at all meals.



Healthy Cooking Tips





Avoid Cooking Methods with Added Fat

Basted

Breaded

Fried


X

X

X







Healthy Cooking Methods

- ✓ Baked
- ✓ Boiled
- ✓ Grilled
- ✓ Steamed









Make your food tasty!

Spice it up!

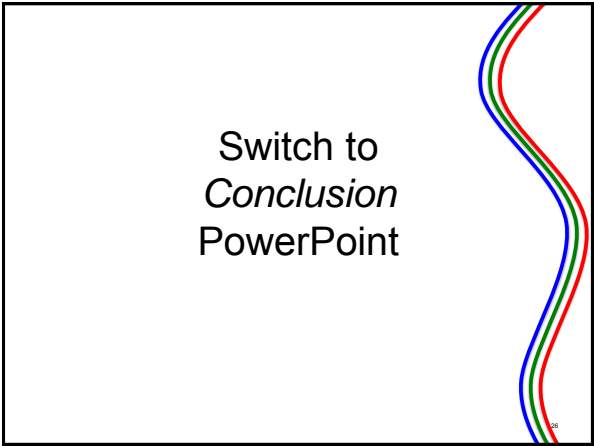


Get fruity!



Be creative!





Healthy Shopping List

Vegetables:

- _____ 3-5 vegetables in season
- _____ lettuce for salads
- _____ fresh veggies for salads
- _____ potatoes
- _____ winter squash
- _____ sweet potatoes
- _____ tomatoes
- _____ onions and garlic
- _____ broccoli

Fruits:

- _____ apples/pears
- _____ bananas
- _____ berries
- _____ grapes
- _____ lemons/limes
- _____ oranges/grapefruit
- _____ peaches/plums
- _____ watermelon/melon

Dairy:

- _____ egg whites
- _____ margarine, light tub
- _____ milk, skim
- _____ sour cream, nonfat
- _____ yogurt, fat-free, light

Frozen:

- _____ frozen fruits, unsweetened
- _____ vegetables, plain

Fish/Poultry/Lean Meat:

- _____ chicken or turkey breast
- _____ fish (not breaded)
- _____ lean beef, pork

Cereal*:

- _____ oatmeal

- _____ shredded wheat
- _____ whole-grain cereal
- * *3 g fiber, less than 10 g sugar*

Canned*:

- _____ beans
- _____ fruit in water
- _____ chicken broth, low-sodium
- _____ pasta sauce, low-sodium
- _____ soup, low-fat, low-sodium
- _____ tomatoes, no added salt
- _____ tuna in water
- * *low-sodium, no added sugar*

Dried and Packaged:

- _____ barley
- _____ beans/lentils/dried peas
- _____ brown rice
- _____ herbs _____
- _____ nuts, nut butters
- _____ pasta
- _____ popcorn, low-fat
- _____ raisins
- _____ spices _____
- _____ vegetable oil

Condiments:

- _____ jam, light
- _____ ketchup, no-salt
- _____ mayo, low-fat
- _____ salad dressing, low-fat
- _____ soy sauce, light
- _____ vinegar _____

Bread:

- _____ 100% whole-wheat bread
- _____ corn tortillas
- _____ whole-grain crackers (lowfat)
- _____ whole-wheat pitas

Nutrition Facts

Serving Size 1 cup (228 g)
Servings Per Container: 2

| Amount per serving | |
|-------------------------------|-----------------------|
| Calories 250 | Calories from Fat 120 |
| % Daily Value* | |
| Total Fat 13g | 20% |
| Saturated Fat 5g | 25% |
| Trans fat 2g | |
| Cholesterol 30mg | 10% |
| Sodium 660mg | 28% |
| Total Carbohydrate 31g | 10% |
| Dietary Fiber 0g | 0% |
| Sugars 5g | |
| Protein 5g | |
| Vitamin A 4% | Vitamin C 2% |
| Calcium 15% | Iron 4% |

Three Easy Steps for Label Reading:

1. Look at serving size, servings per container and calories.

Eating too many calories per day is linked to people being overweight, obese and developing certain chronic diseases.

2. Limit fat, saturated fat, cholesterol and sodium; shoot for zero trans fat.

These increase your risk for certain chronic diseases. Try to keep trans fat to zero. Shoot for 5% or less of the daily value on fat, saturated fat, cholesterol and sodium.

3. Get enough fiber and important nutrients.

Eating enough fiber and nutrients can improve your health and help reduce your risk of some diseases.

© www.foodandhealth.com

Quick 5 Checklist to Save \$\$:

- _____ Look for store brands
- _____ On sale - good - stock up!
- _____ Compare unit pricing
- _____ Stick to your list
- _____ Use less meat, soda, cookies, crackers, chips, deli, bakery and convenience items





Ways to STRETCH Your Food Budget!



Top 10 Ways to Stretch Your Food Budget with Fruits & Veggies!

- 1. Shop in season.** Prices are normally best when fresh produce is in season, like berries in June or squash in the fall. Ask our produce associates for help.
- 2. Store fresh produce properly as soon as you get home.** While it won't reduce the price you pay, you'll avoid waste.
- 3. Try switching less-expensive veggies with meat in your recipes.** Think "vegetable stew with beef" instead of beef stew with vegetables. Got the idea?
- 4. Stock up on frozen, canned, dried, and 100% juice.** All forms count. These are great, healthy options to fresh produce with a longer shelf life.
- 5. Twice the value.** Plan for two or more meals from a single item. Use one-half a head of cabbage for cole slaw, the other half for cabbage rolls or stir-fry. Slice half a bag of carrots into sticks for snacks – put the other half into a carrot salad.
- 6. Get back to basics.** Instead of an expensive dinner out, why not a good, old-fashioned dinner at home? Fall is a great time to rediscover the feel-good flavors of vegetable stews, baked apples and pears, seasonal squash, and more. Looking for recipes? Visit www.fruitsandveggiesmorematters.org/?page_id=10.
- 7. Plan for leftovers.** Homemade soup is a healthy and tasty way to use fall vegetables. Make a big batch and freeze leftovers in small, lunch-size containers.
- 8. Don't shop hungry!** Snack on a piece of fruit or some fresh veggies before you head out to the store.
- 9. Taste like *this* doesn't come out of a jar.** Creating your own fresh salsas for dipping with snacks or topping meat dishes is economical. Here's a link to 40 great salsa recipes: www.fruitsandveggiesmorematters.org/?page_id=34.
- 10. Do the math.** Fruits and veggies aren't budget-busters. Compare the price of a small bag of chips to an apple, a cup of grapes to a couple of cookies, or a banana and glass of orange juice to a breakfast muffin. Fruits and veggies are more economical, and, dollar for dollar, provide you with better nutritional value.



September is **National Fruits & Veggies—More Matters®** Month. Adding more fruits and veggies to your shopping list can be good for your budget as well as your family's health! Here are some great ways to get you started!

For more ideas on how to include more fruits and vegetables in your family's fall meals, visit www.fruitsandveggiesmorematters.org.

Your Health Matters. Nutritious Eating Participant Handbook – June 2014



For Your Health: Eat a Rainbow Every Day

Red

To possibly help prevent cancer & heart disease, stimulate immunity, and promote urinary tract health and memory function, eat more of these red fruits and vegetables:

| | | | | |
|----------------|--------------|-------------|-------------|--------------|
| Tomatoes | Red Peppers | Apples | Cherries | Beets |
| Red Grapes | Strawberries | Radishes | Red Onions | Red Potatoes |
| Watermelon | Cranberries | Red Cabbage | Radicchio | Rhubarb |
| Red Grapefruit | Red Pears | Raspberries | Red Peppers | Pomegranate |

Orange

To possibly help prevent cancer & heart disease, stimulate immunity, and enhance vision, eat more of these orange fruits and vegetables:

| | | | | |
|----------------|------------|------------|----------|------------------|
| Sweet Potatoes | Cantaloupe | Carrots | Peaches | Clementines |
| Winter Squash | Mango | Oranges | Apricots | Mandarin Oranges |
| Papayas | Tangerines | Persimmons | Pumpkin | Nectarine |

Yellow

To possibly help prevent cancer & heart disease, eat more of these yellow fruits and vegetables:

| | | | | |
|---------------|--------------|-----------------|-------------------|-------------------|
| Yellow Apples | Yellow Pears | Lemons | Yellow Peppers | Yellow Grapefruit |
| Summer Squash | Yellow Figs | Pineapple | Yellow Tomatoes | Rutabagas |
| Yellow Corn | Yellow Beets | Yellow Potatoes | Yellow Watermelon | |

Green

To possibly help prevent cancer & heart disease and maintain vision health & strong bones, eat more of these green fruits and vegetables:

| | | | | |
|-----------------|-------------|----------------|-------------|-----------------|
| Kale | Broccoli | Cabbage | Lettuce | Broccoli Rabe |
| Greens | Spinach | Kiwi | Celery | Chinese Cabbage |
| Cucumber | Peas | Zucchini | Parsley | Green Beans |
| Chives | Asparagus | Avocados | Apples | Leeks |
| Honeydew | Artichokes | Arugula | Okra | Green Grapes |
| Sugar Snap Peas | Snow Peas | Fresh Herbs | Bok Choy | Tomatillos |
| Brussel Sprouts | Watercress | Endive | Bell Pepper | Limes |
| Chayote Squash | Hot peppers | Banana Peppers | | |

Blue/Purple

To possibly help prevent cancer, help boost night vision, and maintain urinary tract health, eat more of these blue/purple fruits and vegetables:

| | | | | |
|---------------|-----------------|----------|----------------|------------------|
| Blueberries | Purple Endive | Plums | Blackberries | Purple Peppers |
| Elderberries | Purple Potatoes | Eggplant | Purple Carrots | Black Currants |
| Purple Grapes | Raisins | Prunes | Figs | Purple Asparagus |

Brown/White

To possibly help prevent cancer & heart disease and stimulate immunity, eat more of these brown/white fruits and vegetables:

| | | | | |
|----------------|-------------|------------------|----------|-----------------|
| Bananas | Brown Pears | White Nectarines | Dates | White Asparagus |
| White Peaches | Cauliflower | Garlic | Ginger | Water Chestnuts |
| Jicama | Mushrooms | Onions | Parsnips | White Bok Choy |
| White Potatoes | Shallots | Turnips | | |

Aim for 3 different colors a day and one fruit and veggie from each color every week.

Tips for Eating Right

Small steps can help your family get on the road to maintaining a healthy weight. Choose a different tip each week for you and your family to try. See if you can add to the list. Here are a few tips:



Change Your Shopping Habits

- Eat before grocery shopping
- Make a grocery list before you shop
- Choose a checkout line without a candy display
- Buy and try serving a new fruit or vegetable



Watch Your Portion Size

- Share an entree with someone
- If entrees are large, choose an appetizer or side dish
- Don't serve seconds
- Share dessert, or choose fruit instead
- Eat sweet foods in small amounts. To reduce temptation, don't keep sweets at home
- Cut or share high-calorie foods like cheese and chocolate into small pieces and only eat a few pieces
- Eat off smaller plates
- Skip buffets



Change the Way You Prepare Food

- Cut back on added fats and/or oils in cooking or spreads
- Grill, steam, or bake instead of frying
- Make foods flavorful with herbs, spices, and low-fat seasonings
- Use fat-free or low-fat sour cream, mayo, sauces, dressings, and condiments
- Serve several whole-grain foods every day
- Top off cereal with sliced apples or bananas



Change Your Eating Habits

- Keep to a regular eating schedule
- Eat together as a family most days of the week
- Eat before you get too hungry
- Make sure every family member eats breakfast every day
- Drink water before a meal
- Stop eating when you're full
- Try a green salad instead of fries
- Ask for salad dressing "on the side"
- Chew slowly every time you eat and remind others to enjoy every bite
- Serve water or low-fat milk at meals, instead of soda or other sugary drinks
- Pay attention to flavors and textures
- Instead of eating out, bring a healthy, low-calorie lunch to work and pack a healthy "brown bag" for your kids
- Provide fruits and vegetables for snacks

Information Source:

We Can! (Ways to Enhance Children's Activity & Nutrition) National Heart, Lung, and Blood Institute, National Institutes of Health, Department of Health and Human Services Web site: www.nhlbi.nih.gov/health/public/heart/obesity/wecan/

Your Health Matters: Nutritious Eating



8: Conclusion

Nutritious Eating Key Point Summary



Energy Balance



- Calories In vs. Calories Out
- IN: *food choices - variety, balance, moderation, nutrient density*
- OUT: *activity – “FITT”*
- Keep track to tip the scale

Portion Distortion



- Size matters! Pay attention to servings/portions.
- More calories IN means more calories to burn.
- Eat a healthy diet of mostly fruits, vegetables, and whole grains.

Healthy Eating



- A healthy diet has more **GO** foods than **SLOW** foods, and more **SLOW** foods than **WHOA** foods.
- Create your plate with Variety, Balance, Moderation, and Nutrition in mind.
- A Healthy Plate has mostly vegetables, some whole grain, lean meat/fish, fruit and a small amount of unsaturated fat.

The Basic Nutrients



- A healthy diet has a balance of carbohydrates, protein and fat.
- “Vary your veggies” and “Focus on fruits”
- “Make half your grains whole”
- Get enough fiber.
- Watch out for packaging health claims.

Nutrition Facts Label



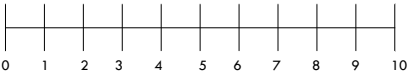
- Start with the serving size
- Check out the total calories, fat, sugar
- Let the % Daily Value be your guide – low on top; high on bottom
- Read the list of ingredients
- Eat mostly foods without labels like fresh fruits and vegetables

Meal Planning and Healthy Cooking



- Eating healthy does not have to cost more.
- Navigate your supermarket wisely.
- Plan your shopping to save time, money and calories!
- Enjoy fruits and vegetables at all meals.

How prepared do you feel to educate people about healthy food choices?



Community Health Workers can help bring about change with health promotion.

Your Health Matters!



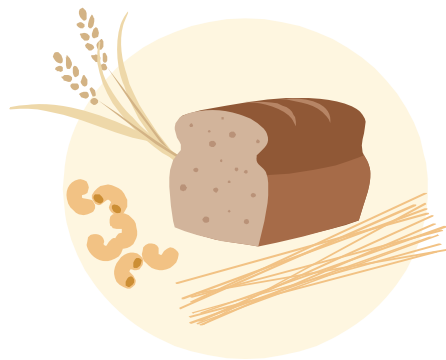
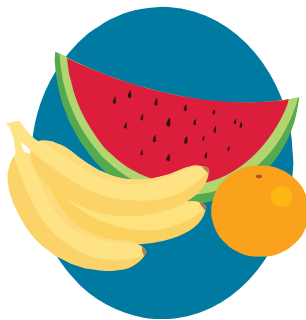
Knowledge Questionnaire



Thank you!

Your Health Matters: Nutritious Eating

APPENDICES



POWER PACK YOUR DAY.

Here are some easy ways to fill your day with fruits and vegetables as part of a healthy diet:

- Stir low-fat or fat-free granola into a bowl of low-fat or fat-free yogurt. Top with sliced apples or frozen berries.
- Add vegetables, such as diced tomatoes and onions, to your egg or egg white omelet.
- Have some fruit as a mid-morning snack.
- Make fruits and vegetables about half your plate.
- Munch on raw vegetables with a healthy low-fat or fat-free dip.
- Put grapes and banana slices on wooden skewers and freeze for “fruit on a stick.”
- Add frozen vegetables to a casserole or pasta. Try broccoli, peas, and corn.
- Ask for more vegetable toppings (like broccoli and spinach) and less cheese on your pizza.



Visit 5aday.gov.

Your Health Matters: Nutritious Eating
Participant Handbook ~ June 2014

how many fruits and vegetables do *you* need?



EVERY BODY IS DIFFERENT.
WE'LL SHOW YOU SIMPLE WAYS
TO EAT THE AMOUNTS THAT ARE
RIGHT FOR YOU. 103

eat a colorful variety every day

You probably already know that a healthy diet includes a variety of fruits and vegetables. Most are lower in calories and higher in fiber than other foods. As part of a healthy diet, eating fruits and vegetables instead of high-fat foods may make it easier to control your weight.

Compared to people who eat only small amounts of fruits

and vegetables, those who eat more generous amounts — as part of a healthy diet — are likely to have reduced risk of chronic diseases. These diseases include stroke, type 2 diabetes, some types of cancer, and perhaps heart disease and high blood pressure.

You can find the amounts of fruits and vegetables you need using the charts in this brochure. There are also facts on why eating the recommended amounts is important to your health. Easy tips for including fruits and vegetables in your day are also provided.



know the amounts you need each day

- Go to your chart. Choose your level of physical activity. Use these definitions to determine your lifestyle physical activity that is above the light activity of everyday life:

Less Active: You average less than 30 minutes a day.

Moderately Active: You average 30 to 60 minutes a day.

Active: You average more than 60 minutes a day.

- Choose your age range. Your physical activity level and age determine how many calories you need each day and your calorie needs determine how many fruits and vegetables you should eat.

less active

moderately active

active

| Women | | |
|-------|----------|------------|
| AGE | FRUITS | VEGETABLES |
| 19-30 | 2 cups | 2 ½ cups |
| 31-50 | 1 ½ cups | 2 ½ cups |
| 51+ | 1 ½ cups | 2 cups |
| 19-50 | 2 cups | 2 ½ cups |
| 51+ | 1 ½ cups | 2 ½ cups |
| 19-50 | 2 cups | 3 cups |
| 51+ | 2 cups | 2 ½ cups |

less active

moderately active

active

| Men | | |
|-------|----------|------------|
| AGE | FRUITS | VEGETABLES |
| 19-50 | 2 cups | 3 cups |
| 51+ | 2 cups | 2 ½ cups |
| 19-30 | 2 cups | 3 ½ cups |
| 31+ | 2 cups | 3 cups |
| 19-30 | 2 ½ cups | 4 cups |
| 31-50 | 2 ½ cups | 3 ½ cups |
| 51+ | 2 cups | 3 cups |

less active

moderately active

active

| Girls | | |
|-------|----------|------------|
| AGE | FRUITS | VEGETABLES |
| 2-3 | 1 cup | 1 cup |
| 4-8 | 1 cup | 1 ½ cups |
| 9-13 | 1 ½ cups | 2 cups |
| 14-18 | 1 ½ cups | 2 ½ cups |
| 2-3 | 1 cup | 1 cup |
| 4-8 | 1 ½ cups | 1 ½ cups |
| 9-13 | 1 ½ cups | 2 cups |
| 14-18 | 2 cups | 2 ½ cups |
| 2-3 | 1 cup | 1 cup |
| 4-8 | 1 ½ cups | 1 ½ cups |
| 9-13 | 1 ½ cups | 2 ½ cups |
| 14-18 | 2 cups | 3 cups |

less active

moderately active

active

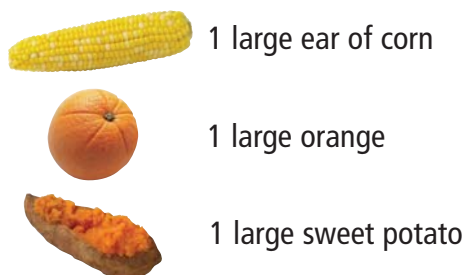
| Boys | | |
|-------|----------|------------|
| AGE | FRUITS | VEGETABLES |
| 2-3 | 1 cup | 1 cup |
| 4-8 | 1 ½ cups | 1 ½ cups |
| 9-13 | 1 ½ cups | 2 ½ cups |
| 14-18 | 2 cups | 3 cups |
| 2-3 | 1 cup | 1 cup |
| 4-8 | 1 ½ cups | 1 ½ cups |
| 9-13 | 1 ½ cups | 2 ½ cups |
| 14-18 | 2 cups | 3 cups |
| 2-3 | 1 cup | 1 cup |
| 4-8 | 1 ½ cups | 2 cups |
| 9-13 | 2 cups | 2 ½ cups |
| 14-18 | 2 ½ cups | 3 ½ cups |

make it count

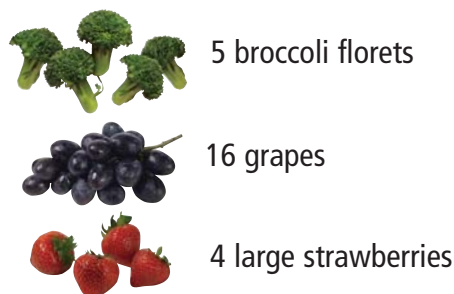
Include fruits and vegetables throughout your day in little ways — for snacks, toppings, side dishes, or in your main meal. Whether they're frozen, fresh, canned, or dried, all fruits and vegetables (including beans) count toward your daily amount.

Learn what 1 cup and 1/2 a cup look like:

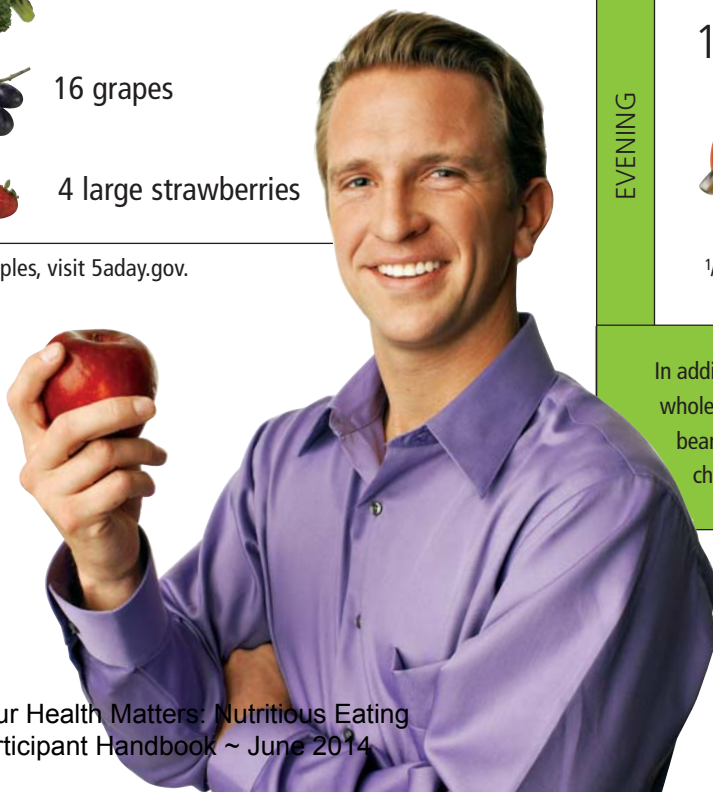
EXAMPLES OF 1 CUP



EXAMPLES OF 1/2 CUP



For more examples, visit 5aday.gov.



Simple ways to enjoy fruits and vegetables throughout your day:

MORNING

1 cup



1 small apple

1/2 cup



1 small banana

MID-DAY

1 cup



1 cup of lettuce* and
1/2 cup of other vegetables

1/2 cup



6 baby carrots

EVENING

1 cup



1/2 large sweet potato and
1/2 cup of green beans



1/2 cup



1/2 cup of
fresh mixed fruit

In addition to fruits and vegetables, a healthy diet also includes whole grains, fat-free or low-fat milk products, lean meats, fish, beans, eggs and nuts, and is low in saturated fats, *trans* fats, cholesterol, salt, and added sugars.

* 1 cup of lettuce counts as 1/2 cup of vegetables.

find your balance

Becoming a healthier you isn't just about eating healthy — it's also about physical activity. Regular physical activity is important for your overall health and fitness.

Here are some guidelines to follow:

Adults should be physically active at a moderate intensity at least 30 minutes most days of the week.

To prevent weight gain, adults should be physically active at least at a moderate intensity approximately 60 minutes most days of the week while not exceeding caloric requirements.

Children and teenagers should be physically active for 60 minutes most days, or preferably all days of the week.

For even greater health benefits, increase the time or intensity of your activity.

get the most nutrition out of your calories

Consider this: If you use up your total daily calories on a few high-calorie items, chances are you won't get the full range of vitamins and nutrients your body needs to be healthy.

To get all the nutrients you need, without consuming too many calories, you should choose foods that are packed with nutrients, but lower in calories, from each of the food groups. These foods include fruits and vegetables, whole grains, lean meats, and fat-free or low-fat milk and milk products.

For more information about a healthy diet, visit MyPyramid.gov.



To get a healthy variety, think color. Eating fruits and vegetables of different colors gives your body a wide range of valuable nutrients, like fiber, folate, potassium, and vitamins A and C. Some examples include green spinach, orange sweet potatoes, black beans, yellow corn, purple plums, red watermelon, or white onions. For more variety, try new fruits and vegetables regularly.

they've got
what you need,
naturally



TAKE A HEALTHY BITE.

Fruits and vegetables are great sources of many vitamins, minerals and other natural substances that may help protect you from chronic diseases. Some of these nutrients may also be found in other healthy foods. Eating a balanced diet and making other lifestyle changes are key to defending your body's good health.

FIBER

Diets rich in dietary fiber have been shown to have a number of beneficial effects, including decreased risk of coronary heart disease.

Excellent fruit and vegetable sources: navy beans, kidney beans, black beans, pinto beans, lima beans, white beans, soybeans, split peas, chick peas, black eyed peas, lentils, artichokes

FOLATE*

Healthful diets with adequate folate may reduce a woman's risk of having a child with a brain or spinal cord defect.

Excellent fruit and vegetable sources: black eyed peas, cooked spinach, great northern beans, asparagus

POTASSIUM

Diets rich in potassium may help to maintain a healthy blood pressure.

Good fruit and vegetable sources: sweet potatoes, tomato paste, tomato puree, beet greens, white potatoes, white beans, lima beans, cooked greens, carrot juice, prune juice

VITAMIN A

Vitamin A keeps eyes and skin healthy and helps to protect against infections.

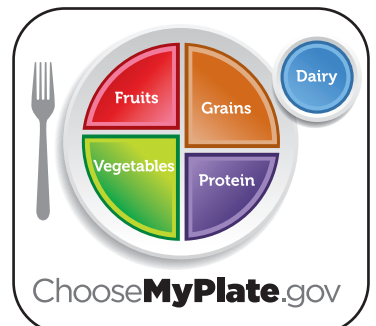
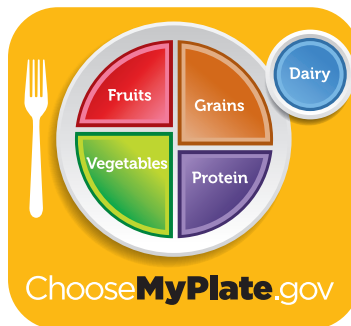
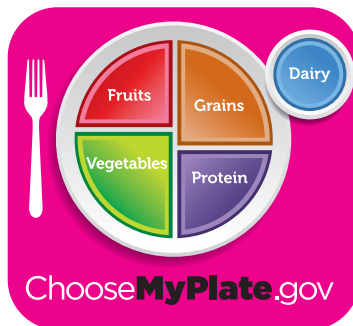
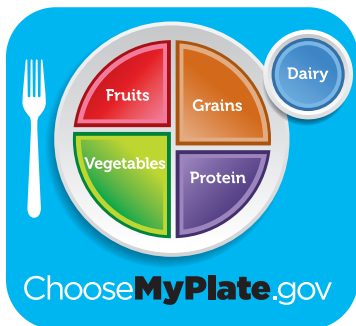
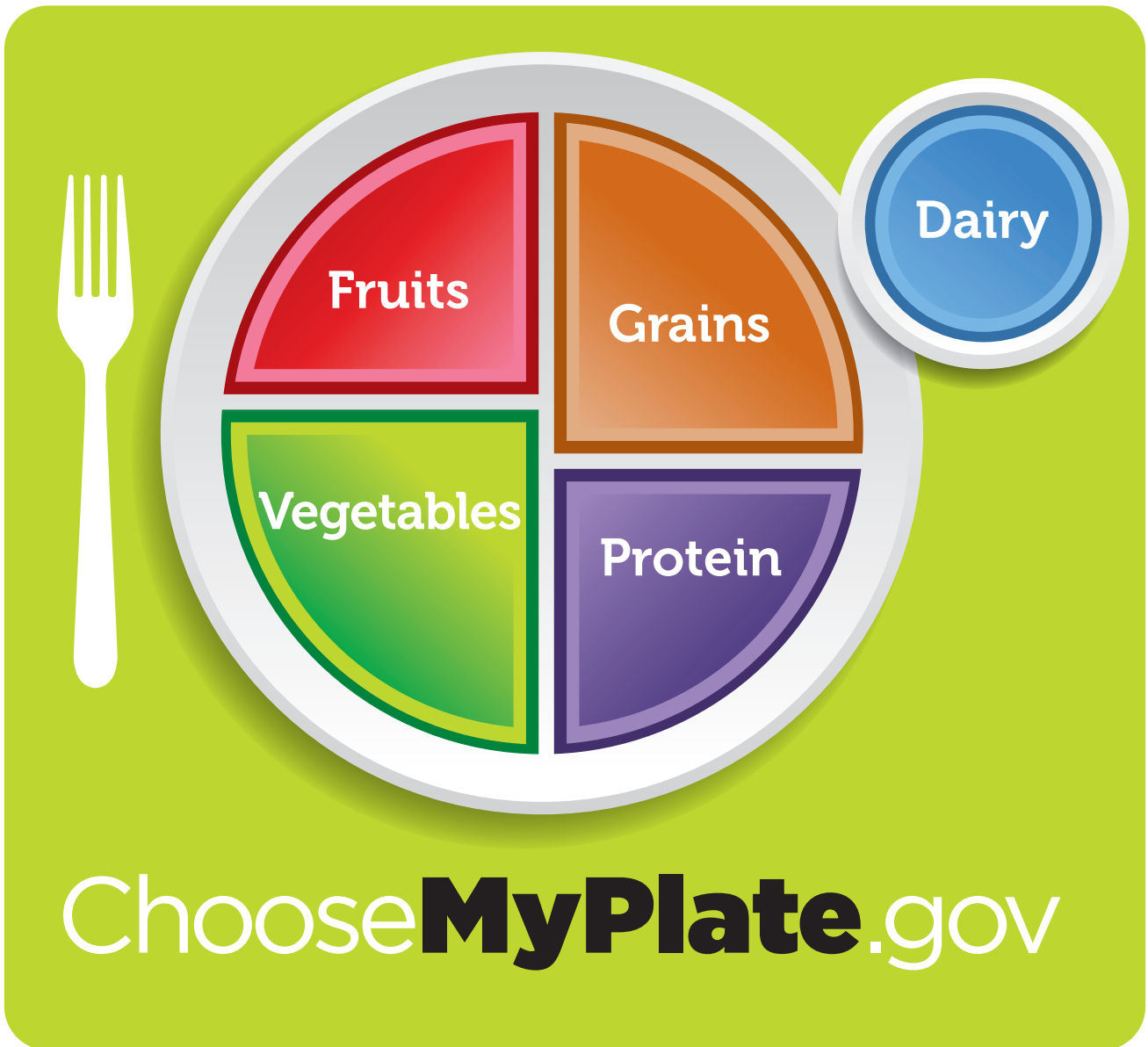
Excellent fruit and vegetable sources: sweet potatoes, pumpkin, carrots, spinach, turnip greens, mustard greens, kale, collard greens, winter squash, cantaloupe, red peppers, Chinese cabbage

VITAMIN C

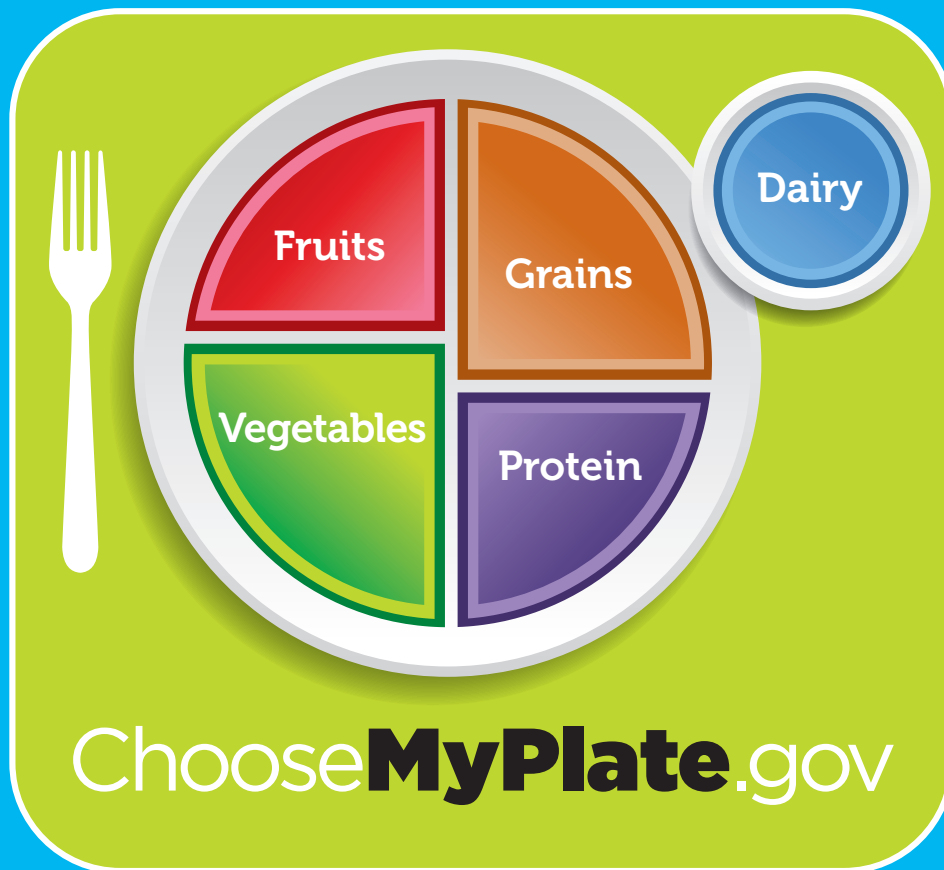
Vitamin C helps heal cuts and wounds and keeps teeth and gums healthy.

Excellent fruit and vegetable sources: red and green peppers, kiwi, strawberries, sweet potatoes, kale, cantaloupe, broccoli, pineapple, Brussels sprouts, oranges, mangoes, tomato juice, cauliflower

* According to the Institute of Medicine, a daily intake of 400 µg/day of synthetic folic acid (from fortified foods or supplements in addition to food forms of folate from a varied diet) is recommended for women of childbearing age who may become pregnant.



What's on your plate?



Before you eat, think about what and how much food goes on your plate or in your cup or bowl. Over the day, include foods from all food groups: vegetables, fruits, whole grains, low-fat dairy products, and lean protein foods.



Make half your plate fruits and vegetables.



Make at least half your grains whole.



Switch to skim or 1% milk.



Vary your protein food choices.

| Vegetables | Fruits | Grains | Dairy | Protein Foods |
|---|--|---|---|---|
| <p>Eat more red, orange, and dark-green veggies like tomatoes, sweet potatoes, and broccoli in main dishes.</p> <p>Add beans or peas to salads (kidney or chickpeas), soups (split peas or lentils), and side dishes (pinto or baked beans), or serve as a main dish.</p> <p>Fresh, frozen, and canned vegetables all count. Choose "reduced sodium" or "no-salt-added" canned veggies.</p> | <p>Use fruits as snacks, salads, and desserts. At breakfast, top your cereal with bananas or strawberries; add blueberries to pancakes.</p> <p>Buy fruits that are dried, frozen, and canned (in water or 100% juice), as well as fresh fruits.</p> <p>Select 100% fruit juice when choosing juices.</p> | <p>Substitute whole-grain choices for refined-grain breads, bagels, rolls, breakfast cereals, crackers, rice, and pasta.</p> <p>Check the ingredients list on product labels for the words "whole" or "whole grain" before the grain ingredient name.</p> <p>Choose products that name a whole grain first on the ingredients list.</p> | <p>Choose skim (fat-free) or 1% (low-fat) milk. They have the same amount of calcium and other essential nutrients as whole milk, but less fat and calories.</p> <p>Top fruit salads and baked potatoes with low-fat yogurt.</p> <p>If you are lactose intolerant, try lactose-free milk or fortified soymilk (soy beverage).</p> | <p>Eat a variety of foods from the protein food group each week, such as seafood, beans and peas, and nuts as well as lean meats, poultry, and eggs.</p> <p>Twice a week, make seafood the protein on your plate.</p> <p>Choose lean meats and ground beef that are at least 90% lean.</p> <p>Trim or drain fat from meat and remove skin from poultry to cut fat and calories.</p> |

For a 2,000-calorie daily food plan, you need the amounts below from each food group.
To find amounts personalized for you, go to ChooseMyPlate.gov.

| Eat 2½ cups every day | Eat 2 cups every day | Eat 6 ounces every day | Get 3 cups every day | Eat 5½ ounces every day |
|--|---|---|---|--|
| <p>What counts as a cup? 1 cup of raw or cooked vegetables or vegetable juice; 2 cups of leafy salad greens</p> | <p>What counts as a cup? 1 cup of raw or cooked fruit or 100% fruit juice; ½ cup dried fruit</p> | <p>What counts as an ounce? 1 slice of bread; ½ cup of cooked rice, cereal, or pasta; 1 ounce of ready-to-eat cereal</p> | <p>What counts as a cup? 1 cup of milk, yogurt, or fortified soymilk; 1½ ounces natural or 2 ounces processed cheese</p> | <p>What counts as an ounce? 1 ounce of lean meat, poultry, or fish; 1 egg; 1 Tbsp peanut butter; ½ ounce nuts or seeds; ¼ cup beans or peas</p> |

Cut back on sodium and empty calories from solid fats and added sugars



Look out for salt (sodium) in foods you buy. Compare sodium in foods and choose those with a lower number.

Drink water instead of sugary drinks. Eat sugary desserts less often.

Make foods that are high in solid fats—such as cakes, cookies, ice cream, pizza, cheese, sausages, and hot dogs—occasional choices, not every day foods.

Limit empty calories to less than 260 per day, based on a 2,000 calorie diet.

Be physically active your way

Pick activities you like and do each for at least 10 minutes at a time. Every bit adds up, and health benefits increase as you spend more time being active.

Children and adolescents: get 60 minutes or more a day.

Adults: get 2 hours and 30 minutes or more a week of activity that requires moderate effort, such as brisk walking.

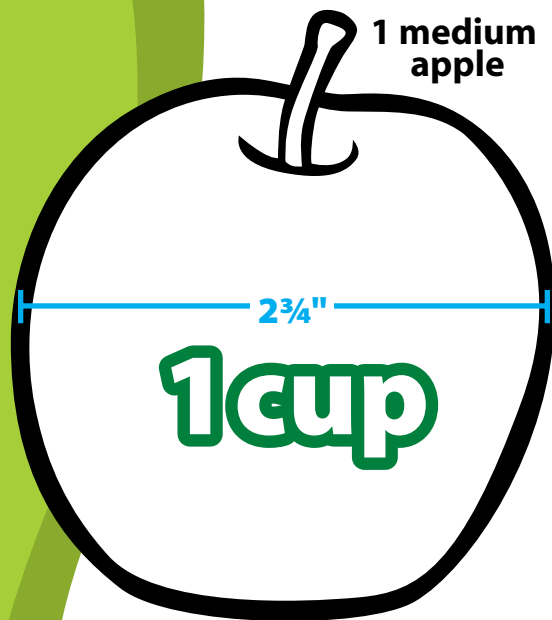
Fruit

cup equivalents

What does 1 cup look like?

Fruits shown at actual size.

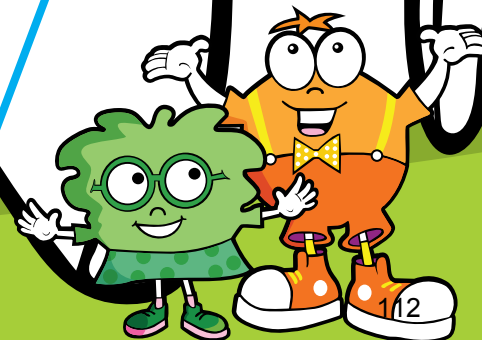
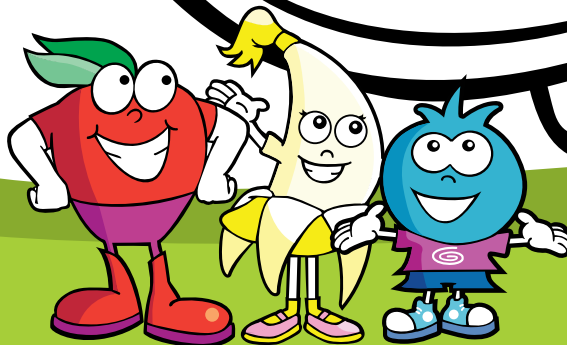
Hey kids!
Color the
fruit.



What about ½ cup?
That's just 1 cup
divided in 2!



fruits & veggies
**more
matters**™
fruitsandveggiesmorematters.org



Vegetables

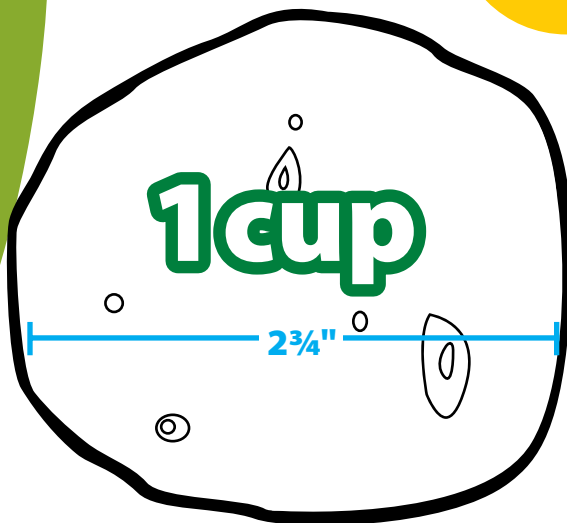
cup equivalents

What does 1 cup look like?

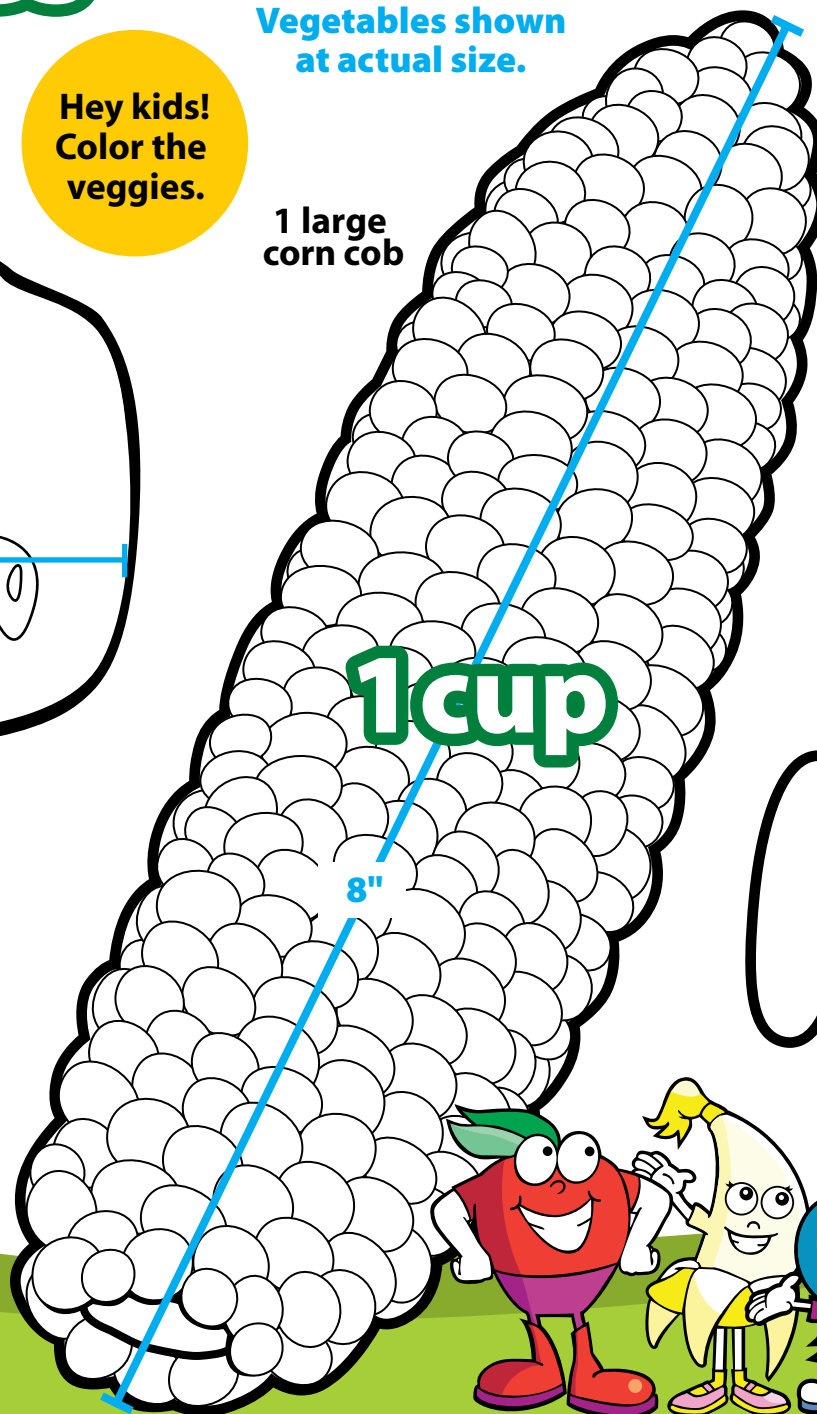
Vegetables shown
at actual size.

Hey kids!
Color the
veggies.

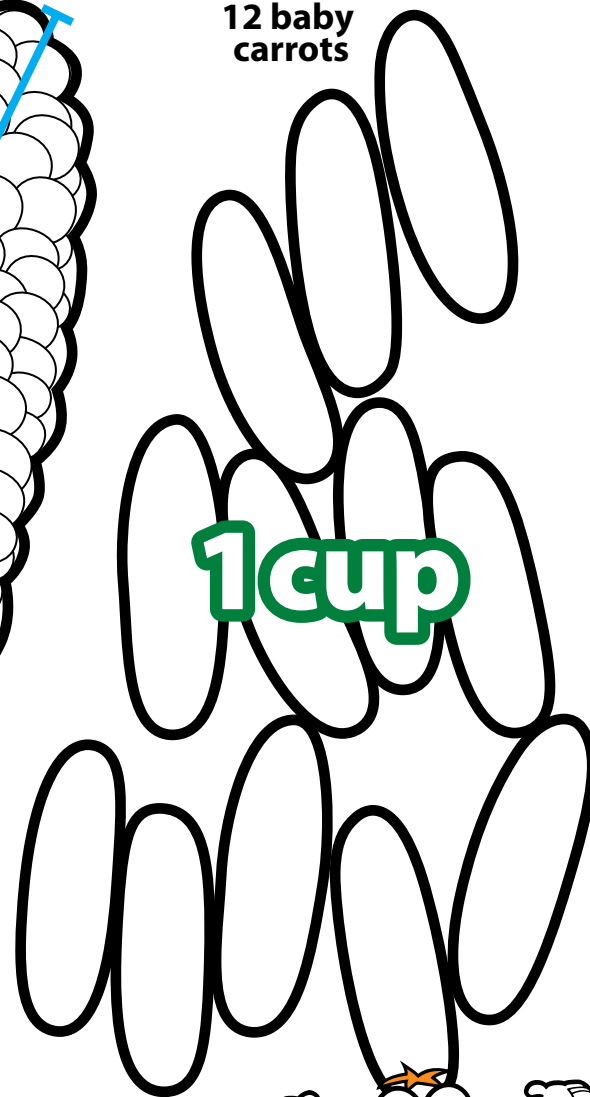
1 small potato



1 large
corn cob



12 baby
carrots



What about $\frac{1}{2}$ cup?

That's just 1 cup
divided in 2!

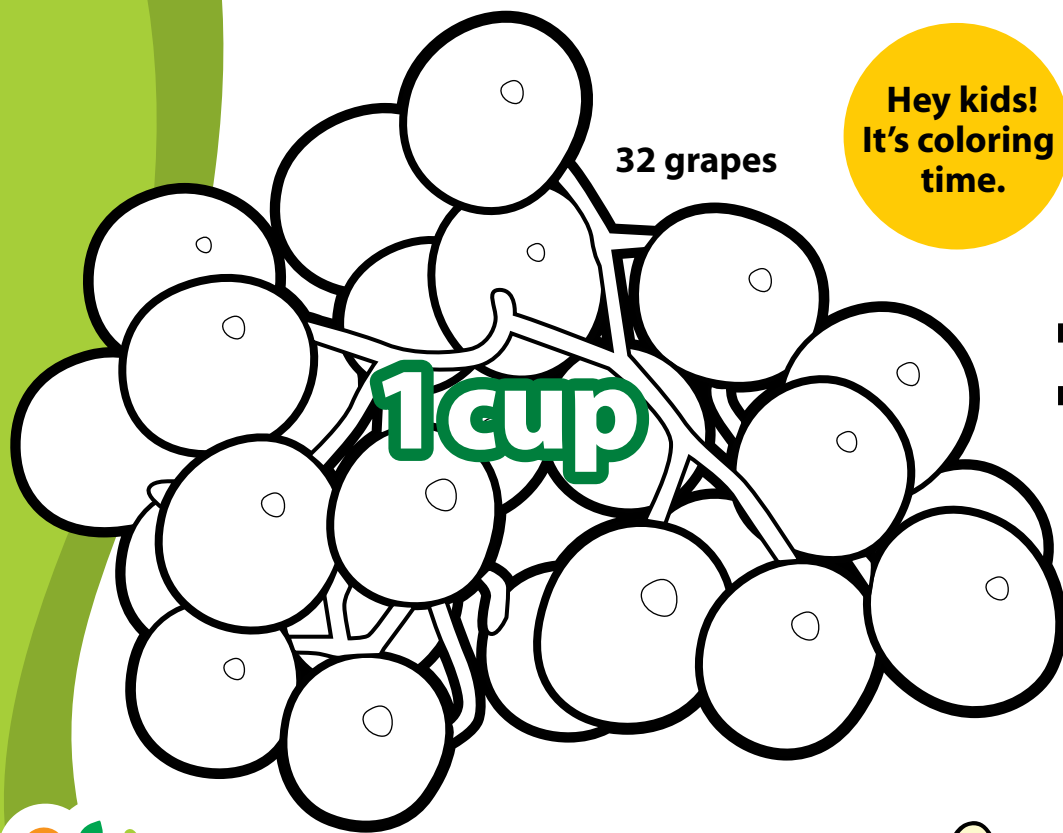


fruits & veggies
**more
matters**TM
fruitsandveggiesmorematters.org

Dried

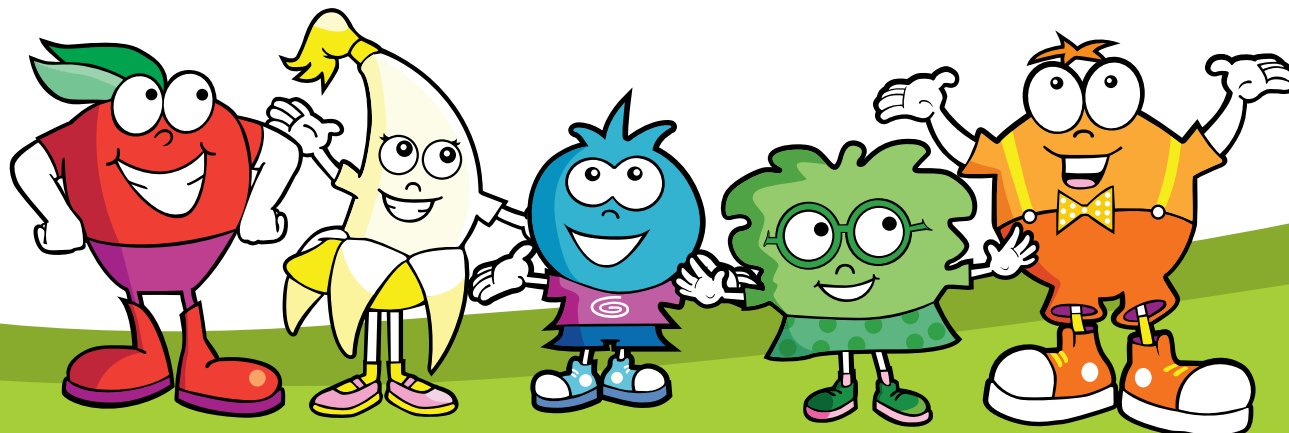
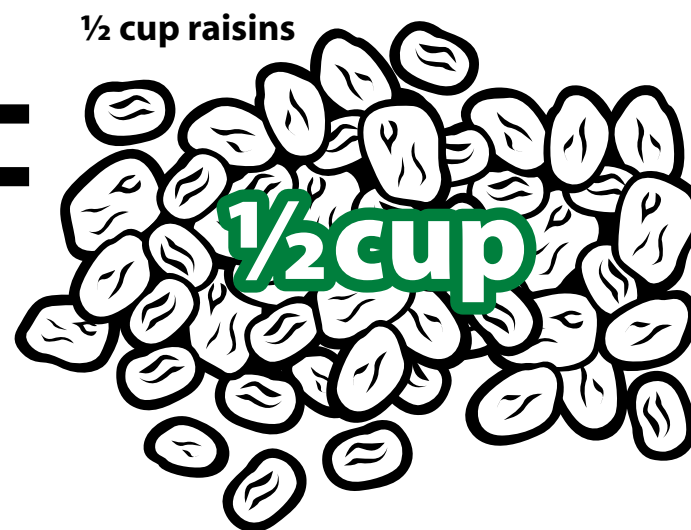
cup equivalents

1 cup fresh is equivalent to ½ cup dried !



Hey kids!
It's coloring
time.

=



Chopped, Mashed or Sliced

cup equivalents

1 cup measures volume not shape

Hey kids!
Have fun
coloring.



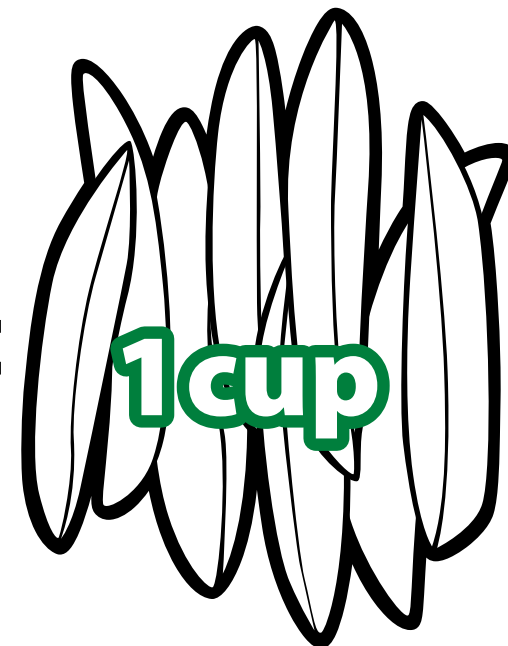
1 cup chopped yam

=

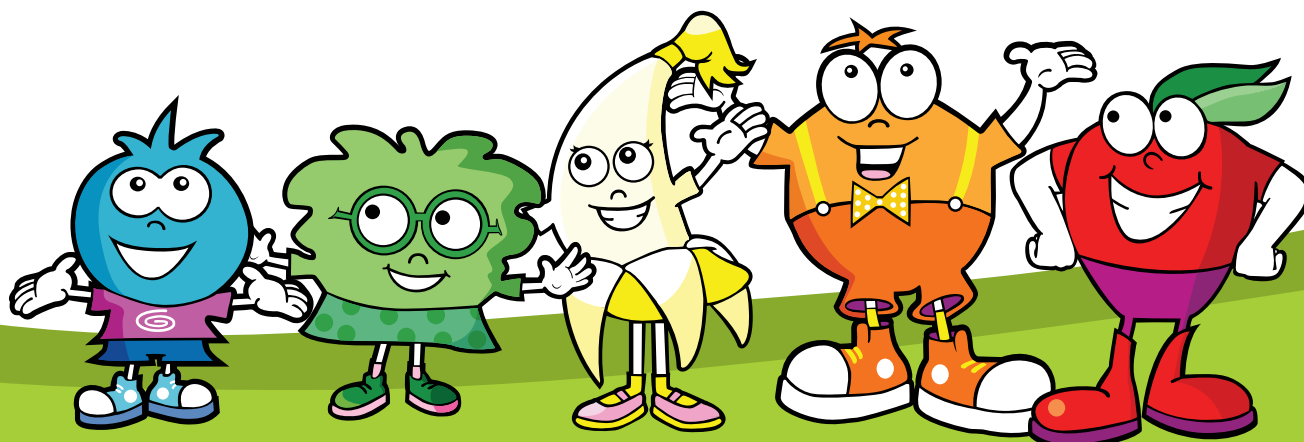


1 cup mashed yam

=



1 cup sliced yam



Using the Nutrition Facts Label



A How-To Guide for Older Adults



Inside

| | |
|---|----|
| Why Nutrition Matters For You | 1 |
| At-A-Glance: The Nutrition Facts Label..... | 2 |
| 3 Key Areas of Importance | 4 |
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Why Nutrition Matters For You

Good nutrition is important throughout your life!

It can help you feel your best and stay strong. It can help reduce the risk of some diseases that are common among older adults. And, if you already have certain health issues, good nutrition can help you manage the symptoms.

Nutrition can sometimes seem complicated. But the good news is that the **Food and Drug Administration** has a simple tool to help you know exactly what you're eating.

It's called the **Nutrition Facts Label**. You will find it on **all packaged foods and beverages**. It serves as your guide for making choices that can affect your long-term health.

This booklet will give you the information you need to start using the Nutrition Facts Label today!

Good Nutrition Can Help You Avoid or Manage These Common Diseases:

- certain cancers
- type 2 diabetes
- heart disease
- high blood pressure
- obesity
- osteoporosis

For more on nutrition for older adults, visit:
www.fda.gov/Food/ResourcesForYou/Consumers/Seniors

At-A-Glance: The Nutrition Facts Label

Understanding what the Nutrition Facts Label includes can help you make **food choices** that are best for your health.

| | | |
|----------|---|-----------------------|
| 1 | Nutrition Facts | |
| | Serving Size 1/4 Cup (113g) | |
| | Servings Per Container 8 | |
| 2 | Amount Per Serving | |
| | Calories 100 | Calories from Fat 20 |
| | | % Daily Value* |
| | Total Fat 2g | 3% |
| | Saturated Fat 1.5g | 7% |
| | Trans Fat 0g | |
| | Cholesterol 10mg | 3% |
| | Sodium 460mg | 19% |
| | Total Carbohydrate 4g | 1% |
| | Dietary Fiber 0g | 0% |
| | Sugars 4g | |
| | Protein 16g | |
| | Vitamin A 0% | Vitamin C 0% |
| | Calcium 8% | Iron 0% |
| | * Percent Daily Values are based on a 2,000 calorie diet. | |

1 Serving Size

This section shows how many servings are in the package, and how big the serving is. Serving sizes are given in familiar measurements, such as “cups” or “pieces.”

Remember: All of the nutrition information on the label is based upon **one serving** of the food.

A package of food often contains more than one serving!

2 Amount of Calories

The calories listed are for **one serving** of the food. “Calories from fat” shows how many fat calories there are in **one serving**.

Remember — a product that’s *fat-free* isn’t necessarily *calorie-free*. Read the label!

3 Percent (%) Daily Value

This section tells you how the nutrients in one serving of the food contribute to your total daily diet. Use it to choose foods that are high in the nutrients you should get more of, and low in the nutrients you should get less of.

Daily Values are based on a 2,000-calorie diet. However, your nutritional needs will likely depend on how physically active you are. Talk to your healthcare provider to see what calorie level is right for you.

4 Limit these Nutrients

Eating too much total fat (especially saturated fat and *trans* fat), cholesterol, or sodium may increase your risk of certain chronic diseases, such as heart disease, some cancers, or high blood pressure.

Try to keep these nutrients as low as possible each day.

5 Get Enough of these Nutrients

Americans often don’t get enough dietary fiber, vitamin A, vitamin C, calcium, and potassium in their diets. These nutrients are essential for keeping you feeling strong and healthy.

Eating enough of these nutrients may improve your health and help reduce the risk of some diseases.

3 Key Areas of Importance



As you use the Nutrition Facts Label, pay particular attention to Serving Size, Percent Daily Value, and Nutrients.

Serving Size

The top of the Nutrition Facts Label shows the **serving size** and the **servings per container**. Serving size is the key to the rest of the information on the Nutrition Facts Label.

- The nutrition information about the food – like the calories, sodium, and fiber – is based upon **one serving**.
- If you eat **two servings** of the food, you are eating **double** the calories and getting **twice the amount** of nutrients, both good and bad.
- If you eat **three servings**, that means **three times** the calories and nutrients – and so on.

That is why knowing the serving size is important. It's how you know for sure how many calories and nutrients you are getting.

Check Serving Size!

It is very common for a food package to contain more than one serving. One bottled soft drink or a small bag of chips can actually contain two or more servings!

If you eat two servings . . .

| Nutrition Facts | |
|------------------------------|----------------------|
| Serving Size 1/4 Cup (113g) | |
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| Amount Per Serving | |
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| Trans Fat 0g | |
| Cholesterol 10mg | 3% |
| Sodium 460mg | 19% |
| Total Carbohydrate 4g | 1% |
| Dietary Fiber 0g | 0% |
| Sugars 4g | |
| Protein 16g | |
| Vitamin A 0% | Vitamin C 0% |
| Calcium 8% | Iron 0% |

Nutrition Facts

| Serving Size 1/4 Cup (113g) | |
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| Sugars 4g | |
| Protein 16g | |
| Vitamin A 0% | Vitamin C 0% |
| Calcium 8% | Iron 0% |

* Percent Daily Values are based on a 2,000 calorie diet.

Percent Daily Value (%DV)

The %DV is a general guide to help you link nutrients in **one serving** of food to their contribution to your **total daily diet**. It can help you determine if a food is high or low in a nutrient: 5% or less is low, 20% or more is high.

You can also use the %DV to make dietary trade-offs with other foods throughout the day.

Nutrition Facts

| Serving Size 1/4 Cup (113g) | |
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| Sugars 4g | |
| Protein 16g | |
| Vitamin A 0% | Vitamin C 0% |
| Calcium 8% | Iron 0% |

* Percent Daily Values are based on a 2,000 calorie diet.

%DV: Quick Tips

You can tell if a food is high or low in a particular nutrient by taking a quick look at the %DV.

- If it has **5% percent** of the Daily Value or less, it is **low** in that nutrient.

This can be good or bad, depending on if it is a nutrient you want more of or less of.

- If it has **20% or more**, it is **high** in that nutrient.

This can be good for nutrients like fiber (a nutrient to get more of) . . . but not so good for something like saturated fat (a nutrient to get less of).

Using %DV

- Once you are familiar with %DV, you can use it to compare foods and decide which is the better choice for you. Be sure to check for the particular nutrients you want more of or less of.
- Using %DV information can also help you “balance things out” for the day.
 - *For example:* If you ate a favorite food at lunch that was high in sodium, a “nutrient to get less of,” you would then try to choose foods for dinner that are lower in sodium.

Nutrients

A nutrient is an ingredient in a food that provides nourishment. Nutrients are essential for life and to keep your body functioning properly.



Nutrients To Get **MORE** Of:

There are some nutrients that are especially important for your health. You should *try to get adequate amounts* of these each day. They are:

- calcium
- vitamin A
- dietary fiber
- vitamin C
- potassium*

* *Note:* The listing of potassium is optional on the Nutrition Facts Label.



Nutrients To Get **LESS** Of:

There are other nutrients that are important, but that you should *eat in moderate amounts*. They can increase your risk of certain diseases.

They are:

- Total fat (especially saturated fat)
- Cholesterol
- Sodium



Your Guide to a Healthy Diet

The Nutrition Facts Label can help you make choices for **overall health**. But some nutrients can also affect certain health **conditions and diseases**.

Use this chapter as a guide for those nutrients that could impact your own health. Each nutrient section discusses:

- What the nutrient is
- What it can mean for your health
- Label-reading tips

Watch for “nutrients to get less of” (the ones that you should try to limit), and “nutrients to get more of” (the ones that are very important to be sure to get enough of).

You also might want to talk to your healthcare provider about which nutrients you should track closely for your continued health. And remember – the **Nutrition Facts Label** is a tool that is available to you on every packaged food and beverage!

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|---|----------------------|
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| Sugars 4g | |
| Protein 16g | |
| Vitamin A 0% | Vitamin C 0% |
| Calcium 8% | Iron 0% |
| * Percent Daily Values are based on a diet of other people's secrets. | |



Test your Nutrition Facts Label knowledge with **Label Man**, FDA's online label-reading tool!

www.fda.gov/LabelMan

On the following pages, you'll find specific information about certain nutrients.

Some are **nutrients to**  **get less of;**

others are **nutrients to**  **get more of.**

All of them can have an impact on your **long-term health**.

In addition, here is an example of how the Nutrition Facts Label can guide you in making good decisions for long-term health and nutrition.

Example

Heart disease is the number one cause of death in the U.S. today. You can use the Nutrition Facts Label to compare foods and decide which ones fit with a diet that may help reduce the risk of heart disease. Choose foods that have **fewer calories per serving** and a **lower %DV** of these “nutrients to get less of”:

- Total fat
- Saturated fat
- Cholesterol
- Sodium

To lower your risk of heart disease, it is also recommended that you eat *more* fiber.

Dietary Salt/Sodium



What It Is:

Salt is a crystal-like compound that is used to flavor and preserve food. The words “salt” and “sodium” are often used interchangeably. Salt is listed as “sodium” on the Nutrition Facts Label.

What You Should Know:

A small amount of sodium is needed to help certain organs and fluids work properly. But most people eat too much of it – and they may not even know it! That’s because many packaged foods have a high amount of sodium, even when they don’t taste “salty.” Plus, when you add salt to food, you’re adding *more* sodium.

Sodium has been linked to high blood pressure. In fact, eating less sodium can often help **lower blood pressure** . . . which in turn can help **reduce the risk of heart disease**.

And since blood pressure normally rises with age, limiting your sodium intake becomes even more important each year.



Salt/Sodium

- Read the label to see how much sodium is in the food you are choosing.
 - 5% DV or less is *low* in sodium
 - 20% DV or more is *high* in sodium.
- When you are deciding between two foods, compare the amount of sodium. Look for cereals, crackers, pasta sauces, canned vegetables, and other packaged foods that are lower in sodium.

Fiber



What It Is:

Fiber, or “dietary fiber,” is sometimes called “roughage.” It’s the part of food that can’t be broken down during digestion. So because it moves through your digestive system “undigested,” it plays an important role in keeping your system moving and “in working order.”

What You Should Know:

Fiber is a “nutrient to get more of.” In addition to aiding in digestion, fiber has a number of other health-related benefits. These benefits are *especially* effective when you have a **high fiber diet** that is also **low in saturated fat, cholesterol, trans fat, added sugars, salt, and alcohol**.

- Eating a diet that is low in saturated fat and cholesterol and high in fruits, vegetables, and grain products that contain some types of dietary fiber, particularly soluble fiber, may help lower your cholesterol and reduce your chances of getting **heart disease**, a disease associated with many factors.
- Healthful diets that are low in fat *and* rich in fruits and vegetables that contain fiber may reduce the risk of **some types of cancer**, including colon cancer, a disease associated with many factors. In addition, such healthful diets are also associated with a reduced risk of **type 2 diabetes**.

- Fiber also aids in the regularity of bowel movements and preventing constipation. It may help reduce the risk of **diverticulosis**, a common condition in which small pouches form in the colon wall. This condition often has few or no symptoms; people who already have diverticulosis and *do* have symptoms often find that increased fiber consumption can reduce these symptoms. It’s also important to note that if the pouches caused by diverticulosis rupture and become infected, it results in a more severe condition called **diverticulitis**.

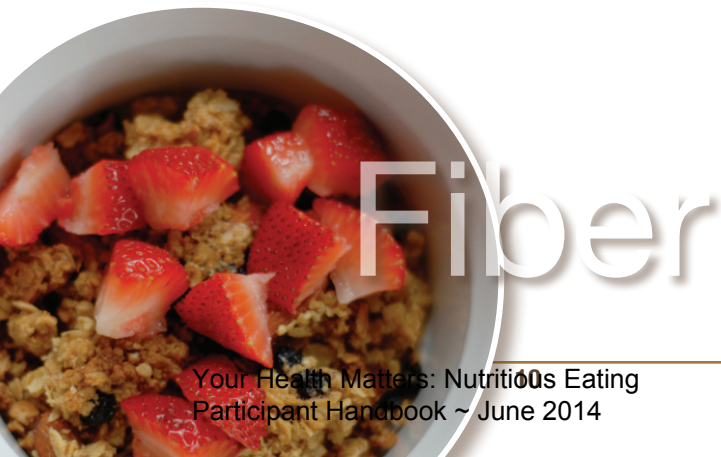
Soluble v. Insoluble Fiber:

Where To Get It, and What It Does

Fiber comes in two forms — insoluble and soluble. Most plant foods contain some of each kind.

- **Insoluble fiber** is mostly found in whole-grain products, such as wheat bran cereal, vegetables and fruit. It provides “bulk” for stool formation and helps wastes move quickly through your colon.
- **Soluble fiber** is found in peas, beans, many vegetables and fruits, oat bran, whole grains, barley, cereals, seeds, rice, and some pasta, crackers, and other bakery products. It slows the digestion of carbohydrates, and can help stabilize blood sugar if you have diabetes. In addition, it helps lower “bad cholesterol.” This, in turn, reduces the risk of heart disease.

Check the **Nutrition Facts Label** to see which foods have a higher %DV of fiber.





Total Fat



Fiber

- **Read food labels.** The Nutrition Facts Label tells you the amount of dietary fiber in each serving, as well as the %DV of fiber that food contains.

When comparing the amount of fiber in food, remember:

- 5% DV or less is *low* in fiber
- 20% DV or more is *high* in fiber

The label won't indicate whether fiber is "insoluble" or "soluble," so it's best to try to get some of both. (See information on previous page)

- **Compare foods and choose the ones with higher fiber.** Look for and compare labels on whole-grain products such as bulgur, brown rice, whole wheat couscous or kasha and whole-grain breads, cereals and pasta. In addition, compare different styles/types of canned or frozen beans and fruit.

What It Is:

Fat, or "dietary fat," is a nutrient that is a major source of energy for the body. It also helps you absorb certain important vitamins. As a food ingredient, fat provides taste, consistency, and helps you feel full.

What You Should Know:

Eating too much fat can lead to a wide range of health challenges. The total amount and type of fat can contribute to and/or increase the risk of:

- heart disease
- high cholesterol
- increased risk of many cancers (including colon-rectum cancer)
- obesity
- high blood pressure
- type 2 diabetes

It is important to know that there are **different types of dietary fat**. Some have health benefits when eaten in small quantities, but others do not.

Unsaturated Fats



“Good” Fat: unsaturated fats (monounsaturated and polyunsaturated)

- These are healthful if eaten in moderation. In fact, small amounts can even help **lower cholesterol levels!**
- *Best Sources:* plant-based oils (sunflower, corn, soybean, cottonseed, and safflower), olive, canola and peanut oils, nuts, and soft margarines (liquid, tub or spray).

“Undesirable” Fat: saturated and *trans* fats. These can raise cholesterol levels in the blood – which in turn can contribute to heart disease.

- *Common Sources:* meat, poultry, fish, butter, ice cream, cheese, coconut and palm kernel oils, solid shortenings, and hard margarines.
- Meat (including chicken and turkey) and fish supply protein, B vitamins, and iron. When selecting and preparing meat, poultry, fish and milk or milk products, choose those that are lean, low-fat, or fat-free. Doing this, along with removing the skin from fish and poultry, are good strategies for limiting “undesirable” fat from your diet. In addition, dry beans, which can be used as a meat substitute, are a good source of protein and are non-fat.

Understanding *Trans* Fat

Trans fat is one of the newest additions to the Nutrition Facts Label, so you may be hearing more about it. Here’s what you need to know:

- Most *trans* fat is made when manufacturers “hydrogenize” liquid oils, turning them into solid fats, like shortening or some margarines. *Trans* fat is commonly found in crackers, cookies, snack foods, and other foods made with or fried in these solid oils.
- *Trans* fat, like saturated fat and cholesterol, **raises your LDL (bad) cholesterol**. But unlike these other nutrients, *trans* fat also **lowers your HDL (good) cholesterol**. This further increases your risk of coronary heart disease.

Trans Fat On the Label

There is no recommended total daily value for *trans* fat, so you won’t find the %DV of *trans* fat on a food’s Nutrition Facts Label. However, you can still use the label to see if a food contains *trans* fat and to compare two foods by checking to see if **grams** of *trans* fat are listed. If there is anything other than 0 grams listed, then the food contains *trans* fat.

Because it is extremely difficult to eat a diet that is completely *trans* fat-free without decreasing other nutrient intakes, just aim to keep your intake of *trans* fat as low as possible.

| Nutrition Facts | |
|---|----------------------|
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| Total Carbohydrate 4g | 1% |
| Dietary Fiber 0g | 0% |
| Sugars 4g | |
| Protein 16g | |
| Vitamin A 0% | Vitamin C 0% |
| Calcium 8% | Iron 0% |
| * Percent Daily Values are based on a 2,000 calorie diet. | |



Total Fat

- When comparing foods, check the Nutrition Facts Label and choose the food with the lower %DV of total fat and saturated fat, and low or no grams of *trans* fat.
 - 5% DV or less of total fat is *low*
 - 20% DV or more of total fat is *high*
- When choosing foods that are labeled “fat-free” and “low-fat,” be aware that *fat-free doesn’t mean calorie-free*. Sometimes, to make a food tastier, extra sugars are added, which adds extra calories. Be sure to check the calories per serving.

Cholesterol



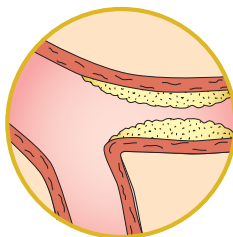
What It Is:

Cholesterol is a crystal-like substance carried through the bloodstream by lipoproteins – the “transporters” of fat. Cholesterol is required for certain important body functions, like digesting dietary fats, making hormones, and building cell walls.

Cholesterol is found in animal-based foods, like meats and dairy products.

What You Should Know:

Too much cholesterol in the bloodstream can damage arteries, especially the ones that supply blood to the heart. It can build up in blood vessel linings. This is called **atherosclerosis**, and it can lead to heart attacks and stroke.



However, it's important to know that not all cholesterol is bad. There are **two kinds of cholesterol** found in the bloodstream. How much you have of each is what determines your risk of heart disease.



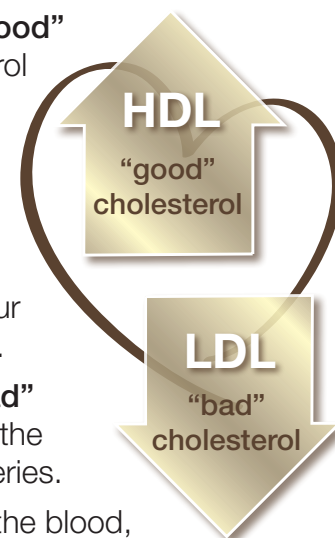
Cholesterol

High-density lipoprotein (HDL): This “good” **cholesterol** is the form in which cholesterol travels *back to the liver*, where it can be eliminated.

- HDL helps prevent cholesterol buildup in blood vessels. A higher level of this cholesterol is better. Low HDL levels increase heart disease risk. Discuss your HDL level with your healthcare provider.

Low-density lipoprotein (LDL): This “bad” **cholesterol** is carried *into the blood*. It is the main cause of harmful fatty buildup in arteries.

- The higher the LDL cholesterol level in the blood, the greater the heart disease risk. So, a lower level of this cholesterol is better.



Label Reading Tips

Cholesterol

- Cholesterol is a “nutrient to get less of.” When comparing foods, look at the Nutrition Facts Label, and choose the food with the lower %DV of cholesterol. Be sure not to go above 100% DV for the day.
 - 5% DV or less of cholesterol is *low*
 - 20% DV or more of cholesterol is *high*
- One of the primary ways LDL (“bad”) cholesterol levels can become too high in the blood is by eating too much saturated fat and cholesterol. **Saturated fat raises LDL levels more than anything else in the diet.**

Calcium



What It Is:

Calcium is a mineral that has a lot of uses in the body, but it is best known for its role in building healthy bones and teeth.

What You Should Know:

Lack of calcium causes **osteoporosis**, which is the primary cause of hip fractures. In fact, the word “osteoporosis” means “porous bones.” It causes progressive bone loss as you age, and makes bones fragile – so that they can break easily. It’s extremely important (especially for women) to get enough calcium throughout your life, especially after menopause. Women are at much higher risk for osteoporosis, but men can get it too.

A Note About Vitamin D

For calcium to be properly absorbed by the body, you also need to get enough vitamin D. Many milk products and cereals are fortified with vitamin D; also, vitamin D is produced by the body when exposed to sunlight.

If you aren’t exposed to outdoor sunlight on a regular basis, ask your healthcare provider whether you should take vitamin D supplements.

Calcium



It’s true that many dairy products, which contain high levels of calcium, are relatively high in fat and calories. But keep in mind that **fat-free or low-fat types of milk products** are excellent calcium sources. Nutritionists recommend that you try to get most of your calcium from calcium-rich foods, rather than from calcium supplements. The Nutrition Facts Label can help you make good high-calcium choices.

Other good sources of calcium are:

- canned salmon (with bones, which are edible)
- calcium-fortified soy beverages
- tofu (soybean curd that is “calcium-processed”)
- certain vegetables (for example, dark leafy greens such as collards and turnip greens)
- legumes (blackeyed peas and white beans)
- calcium-fortified grain products
- calcium-fortified juice



Calcium

- Read the label to see how much calcium is in the food you are choosing.
 - 5% DV or less is *low* in calcium
 - 20% DV or more is *high* in calcium
- Select foods that are high in calcium as often as possible.

Glossary of Key Nutrition Label Terms

Calcium: a mineral that builds and maintains strong bones. Calcium helps prevent osteoporosis.

Calories: the energy provided by food/nutrients. On the label, calories shown are for *one serving*.

Calories from Fat: Fat calories shown on the label are for *one serving*.

Cholesterol: a necessary nutrient from animal-based foods that is carried in the bloodstream. LDL cholesterol is “bad” and HDL cholesterol is “good.”

Daily Value: the amount of certain nutrients that most people need each day.

Nutrient: an ingredient in a food that provides nourishment or nutritional benefit.

Nutrition Facts Label: the black-and-white box found on food and beverage packages.

Percent Daily Value (%DV): the percentage of a nutrient found in one serving of food, based on the established standard of 2000 calories per day.

Saturated Fat: a type of fat that is solid at room temperature. It is usually animal-based. This type of fat is associated with certain health risks.

Sodium: dietary salt that is important in the diet. However, too much sodium can lead to high blood pressure and risk of heart disease.

Total Fat: the combined fats that provide energy to the body. Some types of fat are healthier than others.

Trans Fat: a type of fat that is created when liquid fat is turned into solid fat during manufacturing. *Trans* fat has no daily value, and should be replaced with unsaturated fat in your diet whenever possible.

Unsaturated Fat: a type of fat that is liquid at room temperature; can be plant-based or animal-based. These are usually “good fats.”

The web links provided in this booklet were current at time of publication. In the event that they change, please visit www.fda.gov and search by topic, such as “Seniors” or “Labelman.”

Older Adults
and the
Nutrition Facts Label



Glossary of Terms for Nutrition

| | |
|------------------------|---|
| BILE | A bitter, alkaline, yellow or greenish liquid, secreted by the liver that aids in absorption and digestion of foods, especially of fats. |
| CALORIE | A measurement that expresses energy or heat producing value in a food when it oxidizes in the body. Carbohydrate, protein, fat and alcohol provide calories in the diet. Carbohydrate and protein have 4 calories per gram, fat has 9 calories per gram, and alcohol has 7 calories per gram. |
| CHYME | The semi fluid mass into which food is converted by gastric chemical and mechanical action which passes from the stomach into the small intestine. |
| DIETARY FIBER | Nondigestable carbohydrates from plant foods. |
| ESOPHAGUS | Passageway that uses peristalsis to move food from the mouth to the stomach. |
| GALL BLADDER | This organ produces juices that help the small intestine digest fats and proteins and stores bile made by the liver. |
| LARGE INTESTINE | This organ receives the liquid food mix from the small intestine after most of the nutrients have been absorbed and prepares what the body does not use to exit the body. |
| LIVER | The body's largest organ. This organ changes food into energy, removes alcohol and poisons from the blood, and makes bile, a substance that breaks down fats and helps rid the body of wastes. |
| MOUTH | This organ receives food and begins digestion by mechanically reducing the size of solid particles and mixing them with saliva. |
| NUTRIENT | Nourishment or benefit we obtain from different types of food which includes macronutrients (carbohydrates, protein, fat) and micronutrients (vitamins, minerals). |
| PANCREAS | This organ produces juices that help the small intestine digest fats and proteins; makes insulin and enzymes for digestion; located behind the lower part of the stomach and is about the size of a hand. |
| PERISTALSIS | A progressive wave of contraction and relaxation of the esophagus and small intestine by which the contents are forced through the system. |
| STOMACH | This organ receives food from the esophagus, churns food and mixes it with gastric juice into a substance called chyme, initiates the digestion of proteins, carries on a limited amount of absorption, and moves food into the small intestine. |
| SMALL INTESTINE | This organ receives chyme from the stomach and further breaks down food with help from the pancreas, gall bladder, and liver for absorption of the nutrients the body needs like vitamins, proteins, carbohydrates, and fats. |

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 American Diabetes Association Web site: www.diabetes.org
 U.S. Department of Health & Human Services Dietary Guidelines for Americans Glossary of Terms Web site: www.health.gov/dietaryguidelines/dga2005/document/html/appendixC.htm

List of Additional Resources

Internet sites are provided for convenience and are not necessarily intended as an endorsement.

The University of Texas Community Outreach Program Partner Sites

Brownsville: <http://www.sph.uth.tmc.edu/brownsville/>

Contributing Project Sites

HEADS UP www.sph.uth.tmc.edu/headsup

CATCH www.sph.uth.tmc.edu/catch

U. S. Government Health-Related Sites

Centers for Disease Control & Prevention www.cdc.gov

National Institutes of Health (NIH) Office of Science Education science-education.nih.gov

National Heart Lung and Blood Institute's We Can! (Ways to Enhance Children's Activity & Nutrition) Educational Campaign: Choosing Foods – Go-Slow-Whoa
<http://www.nhlbi.nih.gov/health/public/heart/obesity/wecan/eat-right/choosing-foods.htm>

My Pyramid www.mypyramid.gov

U.S. Food and Drug Administration (FDA) Food Labeling and Nutrition www.cfsan.fda.gov/label.html

Dietary Guidelines for Americans <http://www.health.gov/dietaryguidelines/>

U.S. Department of Agriculture Food Safety and Inspection Service – Fact Sheets: Safe Food Handling
http://www.fsis.usda.gov/factsheets/basics_for_handling_food_safely/index.asp

Texas Department of Agriculture – Food & Nutrition Division / Square Meals www.squaremeals.org

Texas Public School Nutrition Policy
www.squaremeals.org/frn/render/parent/channel/0,1253,2348_2350_0_0,00.html

Government information on food and human nutrition www.nutrition.gov

Institute of Medicine of the National Academies Report and Fact Sheet:
Nutrition Standards for Foods in Schools: Leading the Way Toward Healthier Youth
www.iom.edu/CMS/3788/30181/42502.aspx

Government Food Safety website <http://www.foodsafety.gov/>

U.S. Department of Agriculture Food Safety for People with Diabetes
http://www.fsis.usda.gov/PDF/Food_Safety_for_Diabetics.pdf

National Diabetes Education Program www.ndep.nih.gov

National Diabetes Information Clearinghouse www.niddk.nih.gov

List of Additional Resources

Internet sites are provided for convenience and are not necessarily intended as an endorsement.

Professional Organizations

American Dietetic Association www.eatright.org

Fruits & Veggies More Matters <http://www.fruitsandveggiesmorematters.org/>

American Diabetes Association www.diabetes.org

American Association of Diabetes Educators www.diabeteseducator.org

Miscellaneous

Nutrition and Physical Activity Fair Planning Guide
http://fcs.tamu.edu/health/nutrition_physical_activity_fair_planning_guide/index.php

Berkeley Nutrition Services Diet Assessment www.nutritionquest.com/freetools/fv_screener.htm

Mayo Clinic Food and Nutrition www.mayoclinic.com/health/food-and-nutrition

Kids Health www.kidshealth.org/kid/

Smart Snacks for kids <http://kidnetic.com/Recipes/?c=Smart+Snacks>

The University of Georgia Department of Foods and Nutrition <http://www.fcs.uga.edu/fdn/>

Fight BAC <http://fightbac.org/>

The University of Mississippi National Food Service Management Institute *Mealtime Memo: Proper Food Preparation Techniques* <http://www.nfsmi.org/documentlibraryfiles/PDF/20080610112044.pdf>.

Videos and Interactive

More Matters Fruit & Vegetable Video Center
<http://www.fruitsandveggiesmorematters.org/video/VideoCenter.php>

American Dietetic Association Interactive Quiz, Games, etc.
www.eatright.org/cps/rde/xchg/ada/hs.xsl/NNM_2007_landing_14227_ENU_HTML.htm

Test Your Food Label Knowledge www.cfsan.fda.gov/~dms/flquiz1.html

Rate Your Plate Quiz <http://bms.brown.edu/nutrition/acrobat/RYP.pdf>

Expert Committee Recommendations on the Assessment, Prevention and Treatment of Child and Adolescent Overweight and Obesity - 2007

- An Implementation Guide from the Childhood Obesity Action Network -

Overview:

In 2005, the AMA, HRSA and CDC convened an Expert Committee to revise the 1997 childhood obesity recommendations. Representatives from 15 healthcare organizations submitted nominations for the experts who would compose the three writing groups (assessment, prevention, treatment). The initial recommendations were released on June 6, 2007 in a document titled “Appendix: Expert Committee Recommendations on the Assessment, Prevention and Treatment of Child and Adolescent Overweight and Obesity” (www.ama-assn.org/ama/pub/category/11759.html)

In 2006, the National Initiative for Children’s Healthcare Quality (NICHQ) launched the Childhood Obesity Action Network (COAN). With more than 40 healthcare organizations and 600 health professionals, the network is aimed at rapidly sharing knowledge, successful practices and innovation. This Implementation Guide is the first of a series of products designed for healthcare professionals by COAN to accelerate improvement in the prevention and treatment of childhood obesity.

The Implementation Guide combines key aspects of the Expert Committee Recommendations summary released on June 6, 2007 and practice tools identified in 2006 by NICHQ from primary care groups that have successfully developed obesity care strategies (www.NICHQ.org). These tools were developed before the 2007 Expert Recommendations and there may be some inconsistencies such as the term *overweight* instead of *obesity* for BMI $\geq 95\%$ ile. The tools are intended as a source of ideas and to facilitate implementation. As tools are updated or new tools developed based on the Expert Recommendations, the Implementation Guide will be updated. The Implementation Guide defines 3 key steps to the implementation of the 2007 Expert Committee Recommendations:

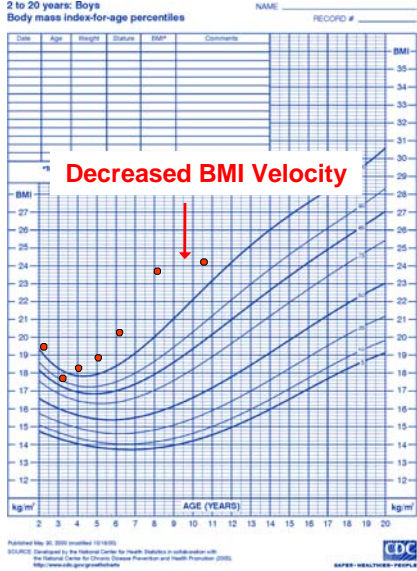
- **Step 1 – Obesity Prevention at Well Care Visits** (Assessment & Prevention)
- **Step 2 – Prevention Plus Visits** (Treatment)
- **Step 3 – Going Beyond Your Practice** (Prevention & Treatment)

Step 1 – Obesity Prevention at Well Care Visits (Assessment & Prevention)

| Action Steps | Expert Recommendations | Action Network Tips and Tools |
|---|---|--|
| Assess all children for obesity at all well care visits 2-18 years | Physicians and allied health professional should perform, at a minimum, a yearly assessment. | A presentation for your staff and colleagues can help implement obesity prevention in your practice. |
| Use Body Mass Index (BMI) to screen for obesity | <ul style="list-style-type: none"> ▪ Accurately measure height and weight ▪ Calculate BMI BMI (English): $[\text{weight (lb)} \div \text{height (in)} \div \text{height (in)}] \times 703$ BMI (metric): $[\text{weight (kg)} \div \text{height (cm)} \div \text{height (cm)}] \times 10,000$ ▪ Plot BMI on BMI growth chart ▪ Not recommended: skinfold thickness, waist circumference | BMI is very sensitive to measurement errors, particularly height. Having a standard measurement protocol as well as training can improve accuracy. BMI calculation tools are also helpful. Use the CDC BMI %ile-for-age growth charts . |
| Make a weight category diagnosis using BMI percentile | <ul style="list-style-type: none"> ▪ < 5%ile Underweight ▪ 5-84%ile Healthy Weight ▪ 85-94%ile Overweight ▪ 95-98%ile Obesity ▪ $\geq 99\%$ile | Until the BMI 99%ile is added to the growth charts, Table 1 can be used to determine the 99%ile cut-points. Physicians should exercise judgement when choosing how to inform the family. Using more neutral terms such as <i>weight</i>, <i>excess weight</i>, <i>body mass index</i>, <i>BMI</i>, or <i>risk for diabetes and heart disease</i> can reduce the risk of stigmatization or harm to self-esteem. |
| Measure blood pressure | <ul style="list-style-type: none"> ▪ Use a cuff large enough to cover 80% of the upper arm ▪ Measure pulse in the standard manner | Diagnose hypertension using NHLBI tables . An abbreviated table is shown below (Table 2). |
| Take a focused family history | <ul style="list-style-type: none"> ▪ Obesity ▪ Type 2 diabetes ▪ Cardiovascular disease (hypertension, cholesterol) ▪ Early deaths from heart disease or stroke | A child with one obese parent has a 3 fold increased risk of becoming obese. This risk increases to 13 fold with 2 obese parents. Using a clinical documentation tool can be helpful. |

| | | |
|--|--|--|
| Take a focused review of systems | Take a focused review of systems | See Table 3 . Using a clinical documentation tool can be helpful. |
| Assess behaviors and attitudes | <p>Diet Behaviors</p> <ul style="list-style-type: none"> Sweetened-beverage consumption Fruit and vegetable consumption Frequency of eating out and family meals Consumption of excessive portion sizes Daily breakfast consumption <p>Physical Activity Behaviors</p> <ul style="list-style-type: none"> Amount of moderate physical activity Level of screen time and other sedentary activities <p>Attitudes</p> <ul style="list-style-type: none"> Self-perception or concern about weight Readiness to change Successes, barriers and challenges | Using behavioral risk assessment tools can facilitate history taking and save clinician time. |
| Perform a thorough physical examination | Perform a thorough physical examination | See Table 3 . Using a clinical documentation tool can be helpful. |
| Order the appropriate laboratory tests | <p>BMI 85-94%ile <u>Without</u> Risk Factors</p> <ul style="list-style-type: none"> Fasting Lipid Profile <p>BMI 85-94%ile Age 10 Years & Older <u>With</u> Risk Factors</p> <ul style="list-style-type: none"> Fasting Lipid Profile ALT and AST Fasting Glucose <p>BMI ≥ 95%ile Age 10 Years & Older</p> <ul style="list-style-type: none"> Fasting Lipid Profile ALT and AST Fasting Glucose Other tests as indicated by health risks | <p>Consider ordering ALT, AST and glucose tests beginning at 10 years of age and then periodically (every 2 years). Provider decision support tools can be helpful when choosing assessment and treatment options.</p> <p>Delivering lab results can be one way to open the conversation about weight and health with a family.</p> |
| Give consistent evidence-based messages for all children regardless of weight | <ul style="list-style-type: none"> Limit sugar-sweetened beverages Eat at least 5 servings of fruits and vegetables Moderate to vigorous physical activity for at least 60 minutes a day Limit screen time to no more than 2 hours/day Remove television from children's bedrooms Eat breakfast every day Limit eating out, especially at fast food Have regular family meals Limit portion sizes | <p>An example from the Maine Collaborative:</p> <ul style="list-style-type: none"> 5 fruits and vegetables 2 hours or less of TV per day 1 hour or more physical activity 0 servings of sweetened beverages <p>Exam and waiting room posters and family education materials can help deliver these messages and facilitate dialogue. Encourage an authoritative parenting style in support of increased physical activity and reduced TV viewing. Discourage a restrictive parenting style regarding child eating. Encourage parents to be good role models and address as a family issue rather than the child's problem.</p> |
| Use Empathize/Elicit - Provide - Elicit to improve the effectiveness of your counseling | <p>Assess self-efficacy and readiness to change. Use Empathize/Elicit - Provide - Elicit to improve the effectiveness of your counseling.</p> <p>Empathize/Elicit</p> <ul style="list-style-type: none"> Reflect What is your understanding? What do you want to know? How ready are you to make a change (1-10 scale)? <p>Provide</p> <ul style="list-style-type: none"> Advice or information Choices or options <p>Elicit</p> <ul style="list-style-type: none"> What do you make of that? Where does that leave you? | <p>A possible dialogue:</p> <p>Empathize/Elicit</p> <p>"Yours child's height and weight may put him/her at increased risk for developing diabetes and heart disease at a very early age."</p> <p>"What do make of this?"</p> <p>"Would you be interested in talking more about ways to reduce your child's risk?"</p> <p>Provide</p> <p>"Some different ways to reduce your child's risk are..."</p> <p>"Do any of these seem like something your family could work on or do you have other ideas?"</p> <p>Elicit</p> <p>"Where does that leave you?"</p> <p>"What might you need to be successful?"</p> <p>Communication guidelines can helpful when developing communication skills.</p> |

Step 2 – Prevention Plus Visits (Treatment)

| Action Steps | Expert Recommendations | Action Network Tips and Tools |
|---|--|--|
| Develop an office based approach for follow up of overweight and obese children | <p>A staged approach to treatment is recommended for ages 2-19 whose BMI is 85-94thile with risk factors and all whose BMI is \geq 95thile.</p> <p>In general, treatment begins with Stage 1 Prevention Plus (Table 4) and progresses to the next stage if there has been no improvement in weight/BMI or velocity after 3-6 months and the family is willing/ready.</p> <p>The recommended weight loss targets are shown in Table 5.</p> <p>Stage 1 - Prevention Plus</p> <ul style="list-style-type: none"> Family visits with physician or health professional who has had some training in pediatric weight management/behavioral counseling. Can be individual or group visits. Frequency - individualized to family needs and risk factors, consider monthly. Behavioral Goals – <ul style="list-style-type: none"> Decrease screen time to 2 hr/day or fewer No sugar-sweetened beverages Consume at least 5 servings of fruits and vegetables daily Be physically active 1 hour or more daily Prepare more meals at home as a family (the goal is 5-6 times a week) Limit meals outside the home Eat a healthy breakfast daily Involve the whole family in lifestyle changes More focused attention to lifestyle changes and more frequent follow-up distinguishes Prevention Plus from Prevention Counseling Weight Goal – weight maintenance or a decrease in BMI velocity. The long term BMI goal is <85thile although some children can be healthy with a BMI 85-94thile. Advance to Stage 2 (Structured Weight Management) if no improvement in weight/BMI or velocity in 3-6 months and family willing/ready to make changes. | <p>Prevention Plus visits may include:</p> <ul style="list-style-type: none"> Health education materials Behavioral risk assessment and self-monitoring tools Action planning and goal setting tools Clinical documentation tools Counseling protocols Other health professionals such as dietitians, psychologists and health educators <p>Besides behavioral and weight goals, improving self-esteem and self efficacy (confidence) are important outcomes. Although weight maintenance is a good goal, more commonly, a slower weight gain reflected in a decreased BMI velocity is the outcome seen in lower intensity behavioral interventions such as Prevention Plus. Measuring and plotting BMI after 3-6 months is an important step to determine the effectiveness of obesity treatment.</p>  <p>2 to 20 years: Boys Body mass index-for-age percentiles</p> <p>NAME: _____ RECORD #: _____</p> <p>Table: Date, Age, Weight, Status, BMI, Comments</p> <p>Published May 31, 2000 (revised 10/1999) ©2000 CDC. Developed by the National Center for Health Statistics in collaboration with the National Center for Chronic Disease Prevention and Health Promotion (2002). http://www.cdc.gov/growthcharts</p> <p>Decreased BMI Velocity</p> <p>kg/m² BMI AGE (YEARS) kg/m²</p> <p><small>Published May 31, 2000 (revised 10/1999) ©2000 CDC. Developed by the National Center for Health Statistics in collaboration with the National Center for Chronic Disease Prevention and Health Promotion (2002). http://www.cdc.gov/growthcharts</small></p> |
| Use motivational interviewing at Prevention Plus visits for ambivalent families and to improve the success of action planning | Use patient-centered counseling – motivational interviewing | Research suggests that motivational interviewing may be an effective approach to address childhood obesity prevention and treatment. Motivational interviewing is particularly effective for ambivalent families but can also be used for action planning. Instead of telling patients what changes to make, you elicit “change talk” from them, taking their ideas, strengths, and barriers into account. Communication guidelines and communication training can be helpful with skill development. |
| Develop a reimbursement strategy for Prevention Plus visits | | Coding strategies can help with reimbursement for Prevention Plus visits. Advocacy through professional organizations to address reimbursement policies is another strategy. |

Step 3 – Going Beyond Your Practice (Prevention & Treatment)

| Action Steps | Expert Recommendations | Action Network Tips and Tools |
|---|--|--|
| Advocate for improved access to fresh fruits and vegetables and safe physical activity in your community and schools | <p>The Expert Committee recommends that physicians, allied healthcare professionals, and professional organizations advocate for:</p> <ul style="list-style-type: none"> ▪ The federal government to increase physical activity at school through intervention programs as early as grade 1 through the end of high school and college, and through creating school environments that support physical activity in general. ▪ Supporting efforts to preserve and enhance parks as areas for physical activity, informing local development initiatives regarding the inclusion of walking and bicycle paths, and promoting families' use of local physical activity options by making information and suggestions about physical activity alternatives available in doctors' offices. | <p>Physicians and health professionals can play a key role in advocating for policy and built environment changes to support healthy eating and physical activity in communities, child care settings, and schools (including after-school programs). Advocacy tools and resources can be helpful in advocacy efforts. Partnering with others and using evidence-based strategies are also critical to the success of multi-faceted community interventions.</p> |
| Identify and promote community services which encourage healthy eating and physical activity | <p>Promote physical activity at school and in child care settings (including after school programs), by asking children and parents about activity in these settings during routine office visits.</p> | <p>Public Health Departments and Parks and Recreation are good places to start looking for community programs and resources.</p> <p>You can work on developing your own partnerships with community organizations (Physical Activity Directory template and/or referral forms).</p> |
| Identify or develop more intensive weight management interventions for your families who do not respond to Prevention Plus | <p>The Expert Committee recommends the following staged approach for children between the ages of 2 and 19 years whose BMI is 85-94thile with risk factors and all whose BMI is \geq 95thile:</p> <ul style="list-style-type: none"> ▪ Stage 2 - Structured Weight Management (Family visits with physician or health professional specifically trained in weight management. Monthly visits can be individual or group.) ▪ Stage 3 - Comprehensive, Multidisciplinary Intervention (Multidisciplinary team with experience in childhood obesity. Frequency is often weekly for 8-12 weeks with follow up.) ▪ Stage 4 - Tertiary Care Intervention (Medications - sibutramine, orlistat, Very-low-calorie diets, weight control surgery - gastric bypass or banding.) Recommended for select patients only when provided by experienced programs with established clinical or research protocols. Gastric banding is in clinical trials and not currently FDA approved. | <p>Stage 2 could be done without a tertiary care center if community professionals from different disciplines collaborated. For example, if a physician provided the medical assessment, a dietitian provided classes, and the local YMCA provided an exercise program.</p> <p>Partnering with your community tertiary care center can be an effective strategy to develop or link to more intensive weight management interventions (Stages 3 and 4) as well as referral protocols to care for families who do not respond to Prevention Plus visits. Provider decision support tools can be helpful when choosing appropriate treatment and referral options. Weight management protocols and curriculum can also be helpful when getting started.</p> |
| Join the Childhood Obesity Action Network to learn from your colleagues and accelerate progress | | <p>The Childhood Obesity Action Network has launched "The Healthcare Campaign to Stop the Epidemic." Join the network (www.NICHQ.org) to learn from our national obesity experts, share what you have learned and access the tools in this guide. <i>Together we can make a difference!</i></p> |

Implementation Guide Authors: Scott Gee, MD, Victoria Rogers, MD, Lenna Liu, MD, MPH, Jane McGrath, MD

Implementation Guide Contact: obesity@nichq.org

Table 1 – BMI 99%ile Cut-Points (kg/m²)

| Age (Years) | Boys | Girls |
|-------------|------|-------|
| 5 | 20.1 | 21.5 |
| 6 | 21.6 | 23.0 |
| 7 | 23.6 | 24.6 |
| 8 | 25.6 | 26.4 |
| 9 | 27.6 | 28.2 |
| 10 | 29.3 | 29.9 |
| 11 | 30.7 | 31.5 |
| 12 | 31.8 | 33.1 |
| 13 | 32.6 | 34.6 |
| 14 | 33.2 | 36.0 |
| 15 | 33.6 | 37.5 |
| 16 | 33.9 | 39.1 |
| 17 | 34.4 | 40.8 |

Table 2 – Abbreviated NHLBI Blood Pressure Table

Blood Pressure 95% by Age, Sex and Height %

| AGE | BOYS HEIGHT % | | GIRLS HEIGHT % | |
|-------|---------------|--------|----------------|--------|
| | 50% | 90% | 50% | 90% |
| 2 Yr | 106/61 | 109/63 | 105/63 | 108/65 |
| 5 Yr | 112/72 | 115/74 | 110/72 | 112/73 |
| 8 Yr | 116/78 | 119/79 | 115/76 | 118/78 |
| 11 Yr | 121/80 | 124/82 | 121/79 | 123/81 |
| 14 Yr | 128/82 | 132/84 | 126/82 | 129/84 |
| 17 Yr | 136/87 | 139/88 | 129/84 | 131/85 |

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Table 3 – Symptoms and Signs of Conditions Associated with Obesity

| Symptoms | Signs |
|---|--|
| <ul style="list-style-type: none"> ➤ Anxiety, school avoidance, social isolation (Depression) ➤ Polyuria, polydipsia, weight loss (Type 2 diabetes mellitus) ➤ Headaches (Pseudotumor cerebri) ➤ Night breathing difficulties (Sleep apnea, hypoventilation syndrome, asthma) ➤ Daytime sleepiness (Sleep apnea, hypoventilation syndrome, depression) ➤ Abdominal pain (Gastroesophageal reflux, Gall bladder disease, Constipation) ➤ Hip or knee pain (Slipped capital femoral epiphysis) ➤ Oligomenorrhea or amenorrhea (Polycystic ovary syndrome) | <ul style="list-style-type: none"> ➤ Poor linear growth (Hypothyroidism, Cushing's, Prader-Willi syndrome) ➤ Dysmorphic features (Genetic disorders, including Prader-Willi syndrome) ➤ Acanthosis nigricans (NIDDM, insulin resistance) ➤ Hirsutism and Excessive Acne (Polycystic ovary syndrome) ➤ Violaceous striae (Cushing's syndrome) ➤ Papilledema, cranial nerve VI paralysis (Pseudotumor cerebri) ➤ Tonsillar hypertrophy (Sleep apnea) ➤ Abdominal tenderness (Gall bladder disease, GERD, NAFLD) ➤ Hepatomegaly (Nonalcoholic fatty liver disease (NAFLD)) ➤ Undescended testicle (Prader-Willi syndrome) ➤ Limited hip range of motion (Slipped capital femoral epiphysis) ➤ Lower leg bowing (Blount's disease) |

Table 4 – A Staged Approach to Obesity Treatment

| | BMI 85-94%ile No Risks | BMI 85-94%ile With Risks | BMI 95-98%ile | BMI >= 99%ile |
|------------------------|---------------------------|--|--|--|
| Age 2-5 Years | Prevention Counseling | Initial: Stage 1 Highest: Stage 2 | Initial: Stage 1 Highest: Stage 3 | Initial: Stage 1 Highest: Stage 3 |
| Age 6-11 Years | Prevention Counseling | Initial: Stage 1 Highest: Stage 2 | Initial: Stage 1 Highest: Stage 3 | Initial: Stage 1-3 Highest: Stage 3 |
| Age 12-18 Years | Prevention Counseling | Initial: Stage 1 Highest: Stage 3 | Initial: Stage 1 Highest: Stage 4 | Initial: Stage 1-3 Highest: Stage 4 |

| | | |
|---------|---|------------------------------------|
| Stage 1 | Prevention Plus | Primary Care Office |
| Stage 2 | Structured Weight Management | Primary Care Office with Support |
| Stage 3 | Comprehensive, Multidisciplinary Intervention | Pediatric Weight Management Center |
| Stage 4 | Tertiary Care Intervention | Tertiary Care Center |

Table 5 – Weight Loss Targets

| | BMI 85-94%ile No Risks | BMI 85-94%ile With Risks | BMI 95-98%ile | BMI >= 99%ile |
|------------------------|--|--|---|---|
| Age 2-5 Years | Maintain weight velocity | Decrease weight velocity or weight maintenance | Weight maintenance | Gradual weight loss of up to 1 pound a month if BMI is very high (>21 or 22 kg/m ²) |
| Age 6-11 Years | Maintain weight velocity | Decrease weight velocity or weight maintenance | Weight maintenance or gradual loss (1 lb per month) | Weight loss (average is 2 pounds per week)* |
| Age 12-18 Years | Maintain weight velocity. After linear growth is complete, maintain weight | Decrease weight velocity or weight maintenance | Weight loss (average is 2 pounds per week)* | Weight loss (average is 2 pounds per week)* |

* Excessive weight loss should be evaluated for high risk behaviors

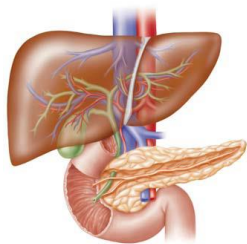
Diabetes Bonus Material



American Diabetes Association

Diabetes Risk Assessment
Online Tool

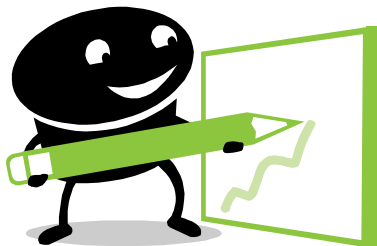
**Activity: The Pancreas
and Blood Sugar Levels**



**Activity: Case Study
Living with Diabetes**

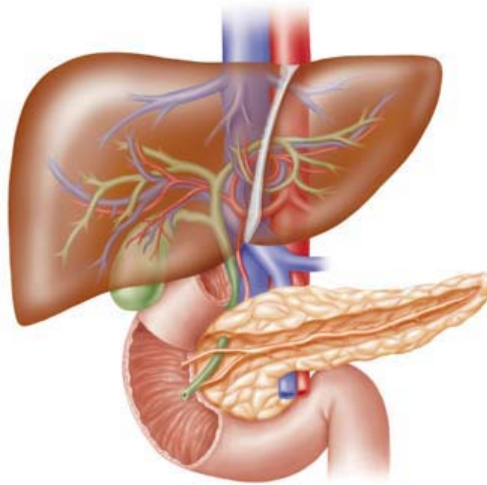


**Activity: Diabetes
Poster/Brochure**



The Pancreas and Blood Sugar Levels Worksheet

Circle the pancreas in the picture below.



List the two functions (jobs) of the pancreas.

1. _____
2. _____

Label the fasting blood sugar levels listed below as Normal or High.

| | |
|-----------------|-----------------|
| 107 mg/dl _____ | 126 mg/dl _____ |
| 135 mg/dl _____ | 110 mg/dl _____ |
| 100 mg/dl _____ | 137 mg/dl _____ |
| 147 mg/dl _____ | 75 mg/dl _____ |

Activity: Case Study: Living with Diabetes

Case Study: Living with Diabetes

Helen loves to cook, and used to be a gourmet chef. She would cook delicious meals for her family with little regard for calories. For a long time, Helen accepted her overweight body as just the way she was. Despite a father who had type II diabetes, Helen never worried about ever becoming chronically ill.

Then in August 2003, Helen moved back to her home state of Texas. Her allergies and asthma were acting up and she was desperate for some relief from the symptoms. She made an appointment with a doctor who specializes in the treatment of allergies. The doctor ran several tests on Helen; one of the tests came back positive for type II diabetes. Helen was shocked to find out that she may have been living with this disease for as long as seven or eight years. Half of all people with diabetes may go that long without even knowing it. Helen's life began to change dramatically.

Helen learned about her own diabetes as well as how to manage it. Like most of all adult diabetics, Helen's management of her diabetes doesn't require her to take insulin shots. The approach she has taken involves lifestyle choices such as regular exercise and careful eating habits. Beginning an exercise program was not easy, but Helen found that walking and water aerobics worked well for her. Changing eating habits was equally challenging. Helen's family had always eaten fairly healthy and Helen enjoyed cooking, but she admits that they often ate too much and too often. It was hard for Helen to change her habits, but she developed lower-calorie versions of gourmet recipes filled with whole grains, fruits, and vegetables that help her to still enjoy being in the kitchen and cooking. In addition to diet and exercise, she must get regular blood glucose tests and take some medication. Helen sees her doctor often.

The other thing that Helen learned is that coping with an illness can be very difficult, even depressing at times. Working closely with a support group and interacting with others has helped her to get through the hard times. Helen's involvement with others and their health concerns prompted her to decide she wanted to return to school to pursue a master's degree in public health. Although Helen is happy to be following her dream, her return to school has made managing her diabetes even harder. She drives a long distance several times each week to attend classes and finds it increasingly difficult to make time for exercise and to take the time to cook right, but she is learning to adapt. Effective management of diabetes is about routine and balancing other demands with a busy lifestyle.

Our modern lifestyle can be full of poor eating habits (by choosing foods that are high in sugar and fat) and a serious lack of physical activity. Type II diabetes is becoming increasingly common among adults and many doctors are giving patients over the age of 40 annual tests for diabetes so that it doesn't go undiagnosed and unmanaged for years before serious symptoms appear. In addition, these tests are being given to

young children as childhood obesity is now a problem. Years ago, it was rare for young people to be diagnosed with type II diabetes; now it is more common.

Helen doubts that there is much she could have done to prevent her diabetes. Although she admits that a regular exercise program and a more healthy diet may have delayed her symptoms, she believes that with her family history (genetics) there would have been no escaping it. Not too long after Helen's diagnosis, her mother was also diagnosed with diabetes. Besides both parents, her grandmother also had diabetes for twenty years before her death. Helen's brothers and sisters are concerned that they will also develop the disease so they are tested regularly.

Despite her struggles, Helen is grateful that her disease has led her into public health. Perhaps with her knowledge and personal experience she will be able to influence and help even more individuals dealing with diabetes or other chronic illness.

Case Study: Living with Diabetes Worksheet

Getting the Facts

1. What kind of a doctor first diagnosed Helen's diabetes? _____
2. Some diabetics may go how many years before being diagnosed? (circle one)
 - a) 1-2
 - b) 15-20
 - c) 7-8
 - d) 3-4

Making Inferences

3. What do you think the word "chronic" in the first and last paragraphs means? (circle one)
 - a) Painful
 - b) Unimportant
 - c) a way to describe a disease that comes and goes
 - d) a way to describe a disease that is always with a person
4. Do you think Helen has lost weight since she found out she was diabetic?
Give two reasons to support your answer.

Why does Helen think that even with a good diet and exercise she would not have been able to avoid getting diabetes?

Glossary of Terms for Diabetes

| | |
|---------------------------------------|---|
| Blood Glucose/ Blood Sugar | the main sugar found in the blood and the body's main source of energy |
| Diabetes | a chronic, incurable disease that results when the body either does not produce enough insulin or the body cannot properly use the insulin it does make |
| Gestational Diabetes | a form of diabetes similar to Type 2 diabetes that some women develop during pregnancy |
| Glucose | a simple sugar that human cells use for energy |
| Insulin | a hormone that helps the body use energy from foods; insulin acts like a gatekeeper opening gates on cell membranes so that glucose can flow into the cell and be used immediately for energy |
| Pancreas | the organ located behind the lower part of the stomach and is about the size of a hand; the pancreas produces juices that help the small intestine digest fats and proteins and makes insulin and enzymes for digestion |
| Pancreatic Beta Cells | cells in the body that produce insulin |
| Pre-Diabetes | a condition characterized by blood glucose levels that are higher than normal but not yet high enough to be diagnosed as diabetes |
| Prevalence | percentage of people that have a specific disease at a given point in time |
| Type 1 Diabetes | formerly called Juvenile diabetes because it usually appears in children or young adults; the body does not produce enough (or any) insulin; develops when the body's immune system destroys the pancreatic beta cells |
| Type 2 Diabetes | accounts for about 90% of all patients with diabetes; sometimes called insulin-resistant diabetes; the body produces insulin, but the cells stop properly latching that insulin into place on the cell membrane so that it can open the gates for glucose to flow through |

Acknowledgements:

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American Diabetes Association Web site www.diabetes.org

National Diabetes Information Clearinghouse Web site: <http://diabetes.niddk.nih.gov/dm/pubs/dictionary/index.htm>

Nutrition Guidelines for People with Diabetes

1. **Develop a routine. Eat about the same time each day. Space meals no more than 4 1/2 or 5 hours apart when awake. Do not skip meals.** If hungry between meals, eat fresh vegetables (like: cucumber, celery, tomatoes, carrots, broccoli or radishes).
2. **Eat three (3) balanced meals daily. Control your portion sizes and avoid second helpings. Eat a variety of foods. Limit protein foods to approximately 6 ounces per day.** Eat lean meats, fat-free or low-fat cheeses and dairy products.
3. **Try to eat fewer calories if you need to lose weight.** Your doctor can refer you to a registered dietitian for nutrition counseling. The dietitian can help you with meal plans that are individualized for your needs. Also, ask your doctor if it is safe to be physically active. Being active can help you burn calories and keep you fit.

4. **Limit starchy foods to 1-2 servings per meal:**

| | | |
|-----------------------|--------------------------------|------------------------------|
| 1/2 cup corn | 1/3 cup pasta | 6 plain crackers |
| 1/2 cup peas | 1 slice bread, roll or biscuit | 3 graham cracker squares |
| 1/2 cup pinto beans | 1/2 cup cooked cereal | 1/2 hot dog or hamburger bun |
| 1/3 cup rice | 3/4 cup dry cereal | 1/4 bagel (4 oz) |
| 1/2 cup winter squash | 1 tortilla, corn/flour | 1/2 potatoes |

5. **Limit fruits to 1 serving for lunch and 1 serving for supper.** No fruit for breakfast. Avoid fruit juice, except for low blood sugar.
6. **Limit milk to 2 cups of skim or fat-free milk per day for adults.**
7. **Avoid foods high in fat or oil (like: fried foods, bacon, sausage, bologna, mayonnaise, salad dressing and cheeses).**
8. **Eat more high fiber foods, like beans, whole grains (whole wheat bread, brown rice) fresh fruits and vegetables.** Don't peel your fruit, it has lots of fiber. Eat 14 grams of fiber for every 1,000 calories on your meal plan per day. Example: 21 grams of fiber for 1,500 calories, 28 grams of fiber for 2,000 calories. Fiber works best when you drink plenty of water!
9. **Use sugar substitutes like Equal, Splenda, and Sweet'N Low to sweeten your beverages.** Drink all beverages sugar-free such as sodas and sports drinks. Try using a sugar substitute when making a dessert.



10. **Limit alcoholic drinks.** They can interact with your medicine. If you drink alcohol, make sure you have eaten some food. Alcohol lowers your blood sugar. It also has calories that you may not want.
11. **Limit desserts to one of the following and count as a starchy food at mealtime.**
 - One slice of plain cake (such as angel food), no icing
 - Six vanilla wafers or 3 gingersnap cookies
 - One-half cup sugar-free ice cream or pudding
 - One slice sugar-free pie (count as 1 fruit and 2 fats)
12. **Limit low-calorie foods to 20 calories per meal.**

Examples: 1 tablespoon regular catsup, 1 tablespoon low-sugar jam or jelly
12. **Use sugar-free, calorie-free items as desired.**

Examples are: tea, sugar-free Kool-Aid, diet soda, diet gelatin, sugar-free popsicles, sugar-free syrup, sugar-free jelly, sugar-free gum, etc. Note: Sugar-free candies and cookies have sugar-alcohols that might cause you to get diarrhea. If you eat them, try not to eat too many. They still have calories and fat.

FOODS TO LIMIT

| | | |
|-------------------------------|---------------|-------------|
| sugar | glazes | gelatin |
| syrup | ice cream | sherbet |
| brownies | doughnuts | pudding |
| regular chewing gum | sweet pickles | molasses |
| honey | sorbet | candy |
| jelly/jam | preserves | pan dulce |
| cake with icing | pie | cobblers |
| regular (sugared) soft drinks | breath mints | brown sugar |

Any meat or vegetable made with a glaze or syrup, and all foods and beverages prepared with regular sugar.

New Food Labels Are Here!

The new food label can be found on food packages in your supermarket. Reading the label tells more about the food and what you are getting. What you see on the food label—the nutrition and ingredient information—is required by the government.

This brochure shows what the new label looks like and explains some of its new features.

Nutrition Facts Title
The new title "Nutrition Facts" signals the new label.

Serving Size
Similar food products now have similar serving sizes. This makes it easier to compare foods. Serving sizes are based on amounts people actually eat.

New Label Information
Some label information may be new to you. The new nutrient list covers those most important to your health. You may have seen this information on some old labels, but it is now required.

Vitamins and Minerals
Only two vitamins, A and C, and two minerals, calcium and iron, are required on the food label. A food company can voluntarily list other vitamins and minerals in the food.

Label Numbers
Numbers on the nutrition label may be rounded for labeling.

Why do some food packages have a short or abbreviated nutrition label?

Foods that have only a few of the nutrients required on the standard label can use a short label format. What's on the label depends on what's in the food. Small- and medium-sized packages with very little label space can also use a short label.

% Daily Value
% Daily Value shows how a food fits into a 2,000 calorie reference diet.
You can use % Daily Value to compare foods and see how the amount of a nutrient in a serving of food fits in a 2,000 calorie reference diet.

Daily Values Footnote
Daily Values are the new label reference numbers. These numbers are set by the government and are based on current nutrition recommendations.

Some labels list the daily values for a daily diet of 2,000 and 2,500 calories. Your own nutrient needs may be less than or more than the Daily Values on the label.

Calories Per Gram Footnote
Some labels tell the approximate number of calories in a gram of fat, carbohydrate, and protein.

| Nutrition Facts | |
|---|----------------------|
| Serving Size 1 cup (228g) | |
| Servings Per Container 2 | |
| Amount Per Serving | |
| Calories 90 | Calories from Fat 30 |
| % Daily Value * | |
| Total Fat 3g | 5% |
| Saturated Fat 0g | 0% |
| Cholesterol 0mg | 0% |
| Sodium 300mg | 13% |
| Total Carbohydrate 13g | 4% |
| Dietary Fiber 3g | 12% |
| Sugars 3g | |
| Protein 3g | |
| Vitamin A 80% | Vitamin C 60% |
| Calcium 4% | Iron 4% |
| * Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs: | |
| Calories: | 2,000 |
| Total Fat | Less than 65g |
| Sat Fat | Less than 20g |
| Cholesterol | Less than 300mg |
| Sodium | Less than 2,400mg |
| Total Carbohydrate | 300g |
| Dietary Fiber | 25g |
| Calories per gram: | |
| Fat | 9 • Carbohydrate |
| | 4 • Protein |
| | 4 |