OBESITY

MANAGEMENT STRATEGIES

Tool Kit

The following pages are the appendices from The Practical Guide: Identification, Evaluation, and Treatment of Overweight and Obesity in Adults by the NHLBI. This public domain publication is available in it's entirety on the NHLBI's website located at:

http://www.nhlbi.nih.gov/guidelines/obesity/practgde.htm.

Appendix A. Body Mass Index Table

ВМІ	19	20	21	22		23	24	25	26	27	28	29	30	;	31	32	33	34	35
Heig (incl									Body	Weight	(pound	ls)							
58	91	96	100	10	5	110	115	119	124	129	134	138	143	3	148	153	158	162	167
59	94	99	104	10		114	119	124	128	133	138	143	148		153	158	163	168	173
60 61	97 100	102 106	107 111	11 11		118 122	123 127	128 132	133 137	138 143	143 148	148 153	150 158		158 164	163 169	168 174	174 180	179 185
62	104	100	115	12		126	131	136	142	147	153	158	164		169	175	180	186	191
63	107	113	118	12	24	130	135	141	146	152	158	163	169		175	180	186	191	197
64	110	116	122	12		134	140	145	151	157	163	169	174		180	186	192	197	204
65 66	114 118	120 124	126 130	13 13		138 142	144 148	150 155	156 161	162 167	168 173	174 179	180 186		186 192	192 198	198 204	204 210	210 216
67	121	127	134	14		146	153	159	166	172	178	185	19		192	204	211	217	223
68	125	131	138	14		151	158	164	171	177	184	190	197		203	210	216	223	230
69	128	135	142	14		155	162	169	176	182	189	196	203		209	216	223	230	236
70 71	132 136	139 143	146	15		160	167	174	181	188	195	202	209 219		216	222	229	236	243 250
71	140	143	150 154	15 16		165 169	172 177	179 184	186 191	193 199	200 206	208 213	22		222 228	229 235	236 242	243250	258
73	144	151	159	16		174	182	189	197	204	212	219	227		235	242	250	257	265
74	148	155	163	17	1	179	186	194	202	210	218	225	233	3	241	249	256	264	272
75	152	160	168	17		184	192	200	208	216	224	232	240		248	256	264	272	279
76	156	164	172	18	i O	189	197	205	213	221	230	238	246	o i	254	263	271	279	287
															-0.				
BMI	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
				39	40	41	42	43		45	46	47		49	50	51	52		54
58	172	177	181	39 186	40 191	41 196	42 201	43	210	45 215	46	47	229	49	50	51 244	52 248	253	54 258
		177 183	181 188	39	40 191 198	41 196 203	42 201 208	43 205 212	210 217	45 215 222	46 220 227	47 224 232		49 234 242	50 239 247	51 244 252	52 248 257	253 262	54 258 267
58 59	172 178	177	181	39 186 193	40 191	41 196	42 201	43	210	45 215	46	47	229 237	49	50	51 244	52 248	253	54 258
58 59 60 61 62	172 178 184 190 196	177 183 189 195 202	181 188 194 201 207	39 186 193 199 206 213	40 191 198 204 211 218	41 196 203 209 217 224	201 208 215 222 229	205 212 220 227 235	210 217 225 232 240	215 222 230 238 246	220 227 235 243 251	224 232 240 248 256	229 237 245 254 262	49 234 242 250 259 267	239 247 255 264 273	51 244 252 261 269 278	52 248 257 266 275 284	253 262 271 280 289	258 267 276 285 295
58 59 60 61 62 63	172 178 184 190 196 203	177 183 189 195 202 208	181 188 194 201 207 214	39 186 193 199 206 213 220	40 191 198 204 211 218 225	41 196 203 209 217 224 231	201 208 215 222 229 237	205 212 220 227 235 242	210 217 225 232 240 248	215 222 230 238 246 254	46 220 227 235 243 251 259	224 232 240 248 256 265	229 237 245 254 262 270	234 242 250 259 267 278	239 247 255 264 273 282	244 252 261 269 278 287	248 257 266 275 284 293	253 262 271 280 289 299	54 258 267 276 285 295 304
58 59 60 61 62 63 64	172 178 184 190 196 203 209	177 183 189 195 202 208 215	181 188 194 201 207 214 221	186 193 199 206 213 220 227	191 198 204 211 218 225 232	41 196 203 209 217 224 231 238	42 201 208 215 222 229 237 244	205 212 220 227 235 242 250	210 217 225 232 240 248 256	215 222 230 238 246 254 262	220 227 235 243 251 259 267	224 232 240 248 256 265 273	229 237 245 254 262 270 279	234 242 250 259 267 278 285	239 247 255 264 273 282 291	51 244 252 261 269 278 287 296	248 257 266 275 284 293 302	253 262 271 280 289 299 308	258 267 276 285 295 304 314
58 59 60 61 62 63	172 178 184 190 196 203	177 183 189 195 202 208	181 188 194 201 207 214	39 186 193 199 206 213 220	40 191 198 204 211 218 225	41 196 203 209 217 224 231	201 208 215 222 229 237	205 212 220 227 235 242	210 217 225 232 240 248	215 222 230 238 246 254	46 220 227 235 243 251 259	224 232 240 248 256 265	229 237 245 254 262 270	234 242 250 259 267 278	239 247 255 264 273 282	244 252 261 269 278 287	248 257 266 275 284 293	253 262 271 280 289 299	54 258 267 276 285 295 304
58 59 60 61 62 63 64 65 66 67	172 178 184 190 196 203 209 216 223 230	177 183 189 195 202 208 215 222 229 236	181 188 194 201 207 214 221 228 235 242	39 186 193 199 206 213 220 227 234 241 249	191 198 204 211 218 225 232 240 247 255	41 196 203 209 217 224 231 238 246 253 261	201 208 215 222 229 237 244 252 260 268	205 212 220 227 235 242 250 258 266 274	210 217 225 232 240 248 256 264 272 280	215 222 230 238 246 254 262 270 278 287	220 227 235 243 251 259 267 276 284 293	224 232 240 248 256 265 273 282 291 299	229 237 245 254 262 270 279 288 297 306	234 242 250 259 267 278 285 294 303 312	239 247 255 264 273 282 291 300 309 319	51 244 252 261 269 278 287 296 306 315 325	52 248 257 266 275 284 293 302 312 322 331	253 262 271 280 289 299 308 318 328 338	258 267 276 285 295 304 314 324 334 344
58 59 60 61 62 63 64 65 66 67 68	172 178 184 190 196 203 209 216 223 230 236	177 183 189 195 202 208 215 222 229 236 243	181 188 194 201 207 214 221 228 235 242 249	39 186 193 199 206 213 220 227 234 241 249 256	191 198 204 211 218 225 232 240 247 255 262	41 196 203 209 217 224 231 238 246 253 261 269	201 208 215 222 229 237 244 252 260 268 276	205 212 220 227 235 242 250 258 266 274 282	210 217 225 232 240 248 256 264 272 280 289	215 222 230 238 246 254 262 270 278 287 295	220 227 235 243 251 259 267 276 284 293 302	224 232 240 248 256 265 273 282 291 299 308	229 237 245 254 262 270 279 288 297 306 315	234 242 250 259 267 278 285 294 303 312 322	239 247 255 264 273 282 291 300 309 319 328	51 244 252 261 269 278 287 296 306 315 325 335	52 248 257 266 275 284 293 302 312 322 331 341	253 262 271 280 289 299 308 318 328 338 348	258 267 276 285 295 304 314 324 334 344 354
58 59 60 61 62 63 64 65 66 67 68 69	172 178 184 190 196 203 209 216 223 230 236 243	177 183 189 195 202 208 215 222 229 236 243 250	181 188 194 201 207 214 221 228 235 242 249 257	39 186 193 199 206 213 220 227 234 241 249 256 263	191 198 204 211 218 225 232 240 247 255 262 270	41 196 203 209 217 224 231 238 246 253 261 269 277	201 208 215 222 229 237 244 252 260 268 276 284	205 212 220 227 235 242 250 258 266 274 282 291	210 217 225 232 240 248 256 264 272 280 289 297	215 222 230 238 246 254 262 270 278 287 295 304	220 227 235 243 251 259 267 276 284 293 302 311	224 232 240 248 256 265 273 282 291 299 308 318	229 237 245 254 262 270 279 288 297 306 315 324	234 242 250 259 267 278 285 294 303 312 322 331	239 247 255 264 273 282 291 300 309 319 328 338	51 244 252 261 269 278 287 296 306 315 325 335 345	52 248 257 266 275 284 293 302 312 322 331 341 351	253 262 271 280 289 299 308 318 328 338 348 358	258 267 276 285 295 304 314 324 334 344 354 365
58 59 60 61 62 63 64 65 66 67 68 69 70	172 178 184 190 196 203 209 216 223 230 236 243 250	177 183 189 195 202 208 215 222 229 236 243 250 257	181 188 194 201 207 214 221 228 235 242 249 257 264	39 186 193 199 206 213 220 227 234 241 249 256 263 271	191 198 204 211 218 225 232 240 247 255 262 270 278	41 196 203 209 217 224 231 238 246 253 261 269 277 285	201 208 215 222 229 237 244 252 260 268 276 284 292	205 212 220 227 235 242 250 258 266 274 282 291 299	210 217 225 232 240 248 256 264 272 280 289 297 306	215 222 230 238 246 254 262 270 278 287 295 304 313	220 227 235 243 251 259 267 276 284 293 302 311 320	224 232 240 248 256 265 273 282 291 299 308 318 327	229 237 245 254 262 270 279 288 297 306 315 324 334	234 242 250 259 267 278 285 294 303 312 322 331 341	239 247 255 264 273 282 291 300 309 319 328 338 348	51 244 252 261 269 278 287 296 306 315 325 335 345 355	52 248 257 266 275 284 293 302 312 322 331 341 351 362	253 262 271 280 289 299 308 318 328 338 348 358 369	258 267 276 285 295 304 314 324 334 344 354 365 376
58 59 60 61 62 63 64 65 66 67 68 69	172 178 184 190 196 203 209 216 223 230 236 243 250 257	177 183 189 195 202 208 215 222 229 236 243 250 257 265	181 188 194 201 207 214 221 228 235 242 249 257 264	39 186 193 199 206 213 220 227 234 241 249 256 263	191 198 204 211 218 225 232 240 247 255 262 270	41 196 203 209 217 224 231 238 246 253 261 269 277	201 208 215 222 229 237 244 252 260 268 276 284	205 212 220 227 235 242 250 258 266 274 282 291	210 217 225 232 240 248 256 264 272 280 289 297	215 222 230 238 246 254 262 270 278 287 295 304	220 227 235 243 251 259 267 276 284 293 302 311	224 232 240 248 256 265 273 282 291 299 308 318	229 237 245 254 262 270 279 288 297 306 315 324	234 242 250 259 267 278 285 294 303 312 322 331	239 247 255 264 273 282 291 300 309 319 328 338	51 244 252 261 269 278 287 296 306 315 325 335 345	52 248 257 266 275 284 293 302 312 322 331 341 351 362 372	253 262 271 280 289 299 308 318 328 338 348 358	258 267 276 285 295 304 314 324 334 344 354 365
58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73	172 178 184 190 196 203 209 216 223 230 236 243 250 257 265 272	177 183 189 195 202 208 215 222 229 236 243 250 257 265 272 280	181 188 194 201 207 214 221 228 235 242 249 257 264 272 279 288	39 186 193 199 206 213 220 227 234 241 249 256 263 271 279 287 295	191 198 204 211 218 225 232 240 247 255 262 270 278 286 294 302	41 196 203 209 217 224 231 238 246 253 261 269 277 285 293 302 310	201 208 215 222 229 237 244 252 260 268 276 284 292 301 309 318	205 212 220 227 235 242 250 258 266 274 282 291 299 308 316 325	210 217 225 232 240 248 256 264 272 280 289 297 306 315 324 333	215 222 230 238 246 254 262 270 278 287 295 304 313 322 331 340	220 227 235 243 251 259 267 276 284 293 302 311 320 329 338 348	224 232 240 248 256 265 273 282 291 299 308 318 327 338 346 355	229 237 245 254 262 270 279 288 297 306 315 324 334 343 353 363	234 242 250 259 267 278 285 294 303 312 322 331 341 351 361 371	239 247 255 264 273 282 291 300 309 319 328 338 348 358 368 378	244 252 261 269 278 287 296 306 315 325 335 345 355 365 375 386	248 257 266 275 284 293 302 312 322 331 341 351 362 372 383 393	253 262 271 280 289 299 308 318 328 338 348 358 369 379 390 401	258 267 276 285 295 304 314 324 334 354 365 376 386 397 408
58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	172 178 184 190 196 203 209 216 223 230 236 243 250 257 265 272 280	177 183 189 195 202 208 215 222 229 236 243 250 257 265 272 280 287	181 188 194 201 207 214 221 228 235 242 249 257 264 272 279 288 295	39 186 193 199 206 213 220 227 234 241 249 256 263 271 279 287 295 303	191 198 204 211 218 225 232 240 247 255 262 270 278 286 294 302 311	41 196 203 209 217 224 231 238 246 253 261 269 277 285 293 302 310 319	201 208 215 222 229 237 244 252 260 268 276 284 292 301 309 318 326	205 212 220 227 235 242 250 258 266 274 282 291 299 308 316 325 334	210 217 225 232 240 248 256 264 272 280 289 297 306 315 324 333 342	215 222 230 238 246 254 262 270 278 287 295 304 313 322 331 340 350	220 227 235 243 251 259 267 276 284 293 302 311 320 329 338 348 358	224 232 240 248 256 265 273 282 291 299 308 318 327 338 346 355 365	229 237 245 254 262 270 279 288 297 306 315 324 334 343 353 363 373	234 242 250 259 267 278 285 294 303 312 322 331 341 351 361 371 381	239 247 255 264 273 282 291 300 309 319 328 338 348 358 368 378 389	244 252 261 269 278 287 296 306 315 325 345 355 365 375 386 396	248 257 266 275 284 293 302 312 322 331 341 351 362 372 383 393 404	253 262 271 280 289 299 308 318 328 338 348 358 369 379 390 401 412	258 267 276 285 295 304 314 324 334 343 365 376 386 397 408 420
58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73	172 178 184 190 196 203 209 216 223 230 236 243 250 257 265 272 280 287	177 183 189 195 202 208 215 222 229 236 243 250 257 265 272 280 287 295	181 188 194 201 207 214 221 228 235 242 249 257 264 272 279 288	39 186 193 199 206 213 220 227 234 241 249 256 263 271 279 287 295	191 198 204 211 218 225 232 240 247 255 262 270 278 286 294 302	41 196 203 209 217 224 231 238 246 253 261 269 277 285 293 302 310	201 208 215 222 229 237 244 252 260 268 276 284 292 301 309 318 326 335	205 212 220 227 235 242 250 258 266 274 282 291 299 308 316 325	210 217 225 232 240 248 256 264 272 280 289 297 306 315 324 333	215 222 230 238 246 254 262 270 278 287 295 304 313 322 331 340	220 227 235 243 251 259 267 276 284 293 302 311 320 329 338 348	224 232 240 248 256 265 273 282 291 299 308 318 327 338 346 355	229 237 245 254 262 270 279 288 297 306 315 324 334 343 353 363	234 242 250 259 267 278 285 294 303 312 322 331 341 351 361 371	239 247 255 264 273 282 291 300 309 319 328 338 348 358 368 378	244 252 261 269 278 287 296 306 315 325 335 345 355 365 375 386	248 257 266 275 284 293 302 312 322 331 341 351 362 372 383 393 404 415	253 262 271 280 289 299 308 318 328 338 348 358 369 379 390 401	258 267 276 285 295 304 314 324 334 354 365 376 386 397 408

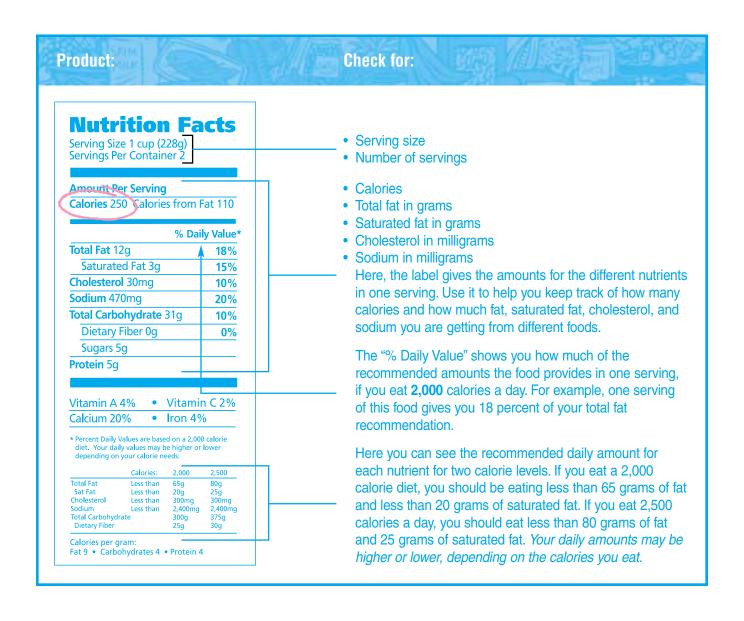
Foods Lower in Calories and Fat

Use this guide to help you shop for foods that are nutritious and lower in calories and fat to help you achieve your weight goal. Learning how to read a Nutrition Facts food label will help you save time in the store and fill your kitchen with low calorie foods.

Read labels as you shop. Pay attention to the serving size and the servings per container. All labels list total calories and fat in a serving size of the product. Compare the total calories in the product you choose with others like it; choose the

one that is lowest in calories and fat. Below is a label that identifies important information.

To achieve your weight goal, you may need to eat much less than this reference amount. For example, if you eat 1,600 calories per day, your total daily fat limit should be 53 grams (30 percent calories from fat) and 18 grams of saturated fat (10 percent calories from fat). If you eat 1,200 calories per day, your total daily fat limit should be 40 grams (30 percent calories from fat), and your total daily saturated fat limit would be 13 grams (10 percent calories from fat).



Fat Matters, but Calories Count

A calorie is a calorie is a calorie whether it comes from fat or carbohydrate. Anything eaten in excess can lead to weight gain. You can lose weight by eating less calories and by increasing your physical activity. Reducing the amount of fat and saturated fat that you eat is one easy way to limit your overall calorie intake. However, eating fat free or reduced fat foods isn't always the answer to

weight loss. This is especially true when you eat more of the reduced fat food than you would of the regular item. For example, if you eat twice as many fat free cookies, you have actually increased your overall calorie intake.

The following list of foods and their reduced fat varieties will show you that just because a product is fat free, it doesn't mean that it is "calorie free." And, calories do count!

Fat Free or Reduced Fat		Regulary	F867
	Calories		Calories
Reduced fat peanut butter, 2 T	187	Regular peanut butter, 2 T	191
Cookies: Reduced fat chocolate chip cookies, 3 cookies (30 g)	118	Cookies: Regular chocolate chip cookies, 3 cookies (30 g)	142
Fat free fig cookies, 2 cookies (30 g)	102	Regular fig cookies, 2 cookies (30 g)	111
Ice cream: Nonfat vanilla frozen yogurt (< 1% fat), 1/2 cup	100	Ice cream: Regular whole milk vanilla frozen yogurt (3–4% fat), ½ cup	104
Light vanilla ice cream (7% fat), 1/2 cup	111	Regular vanilla ice cream (11% fat), ½ cup	133
Fat free caramel topping, 2 T	103	Caramel topping, homemade with butter 2 T	103
Lowfat granola cereal, approx. 1/2 cup (55 g)	213	Regular granola cereal, approx. ½ cup (55 g)	257
Lowfat blueberry muffin, 1 small (2½ inch)	131	Regular blueberry muffin, 1 small (2½ inch)	138
Baked tortilla chips, 1 oz.	113	Regular tortilla chips, 1 oz.	143
Lowfat cereal bar, 1 bar (1.3 oz.)	130	Regular cereal bar, 1 bar (1.3 oz.)	140

Nutrient data taken from Nutrient Data System for Research, Version v4.02/30, Nutrition Coordinating Center, University of Minnesota.

Appendix C. Low Calorie, Lower Fat Alternatives

These low calorie alternatives provide new ideas for old favorites. When making a food choice, remember to consider vitamins and minerals. Some foods provide most of their calories from sugar and fat but give you few, if any, vitamins and minerals.

· Chicken or turkey with skin, duck, or goose

Oil-packed tuna

This guide is not meant to be an exhaustive list. We stress reading labels to find out just how many calories are in the specific products you decide to buy.

• Chicken or turkey without skin (white meat)

Water-packed tuna (rinse to reduce sodium content)

Replace with... Instead of... · Evaporated whole milk • Evaporated fat free (skim) or reduced fat (2%) milk · Whole milk • Lowfat (1%), reduced fat (2%), or fat free (skim) milk Ice cream • Sorbet, sherbet, lowfat or fat free frozen yogurt, or ice milk (check label for calorie content) · Whipping cream Imitation whipped cream (made with fat free [skim] milk) or lowfat vanilla yogurt Sour cream Plain lowfat yogurt • Neufchatel or "light" cream cheese or fat free cream Cream cheese • Cheese (cheddar, Swiss, jack) • Reduced calorie cheese, low calorie processed cheeses, etc. · Fat free cheese · American cheese • Fat free American cheese or other types of fat free • Regular (4%) cottage cheese • Lowfat (1%) or reduced fat (2%) cottage cheese · Whole milk mozzarella cheese · Part skim milk, low-moisture mozzarella cheese · Whole milk ricotta cheese · Part skim milk ricotta cheese · Coffee cream (half and half) or nondairy creamer • Lowfat (1%) or reduced fat (2%) milk or nonfat (liquid, powder) dry milk powder Ramen noodles • Rice or noodles (spaghetti, macaroni, etc.) Cereals, Grains, Pasta with red sauce (marinara) Pasta with white sauce (alfredo) · Pasta with cheese sauce Pasta with vegetables (primavera) • Granola • Bran flakes, crispy rice, etc. · Cooked grits or oatmeal • Whole grains (e.g., couscous, barley, bulgur, etc.) Reduced fat granola · Cold cuts or lunch meats · Lowfat cold cuts (95% to 97% fat free lunch meats, (bologna, salami, liverwurst, etc.) lowfat pressed meats) Meat, Fish, Hot dogs (regular) Lower fat hot dogs Bacon or sausage • Canadian bacon or lean ham · Regular ground beef • Extra lean ground beef such as ground round or ground turkey (read labels)

Replace with... Instead of... • Beef (chuck, rib, brisket) • Beef (round, loin) (trimmed of external fat) (choose select grades) • Pork (spareribs, untrimmed loin) Pork tenderloin or trimmed, lean smoked ham · Frozen breaded fish or fried fish • Fish or shellfish, unbreaded (fresh, frozen, canned (homemade or commercial) in water) • Egg whites or egg substitutes Whole eaas Frozen TV dinners (containing less than Frozen TV dinners (containing more than 13 grams of fat per serving and lower in sodium) 13 grams of fat per serving) • Turkey sausage, drained well (read label) · Chorizo sausage Vegetarian sausage (made with tofu) · Croissants, brioches, etc. • Hard french rolls or soft "brown 'n serve" rolls • Donuts, sweet rolls, muffins, scones, or pastries · English muffins, bagels, reduced fat or fat free muffins or scones · Party crackers • Lowfat crackers (choose lower in sodium) • Saltine or soda crackers (choose lower in sodium) · Cake (pound, chocolate, yellow) • Cake (angel food, white, gingerbread) Cookies • Reduced fat or fat free cookies (graham crackers, ginger snaps, fig bars) (compare calorie level) Nuts • Popcorn (air-popped or light microwave), **Snacks and** fruits, vegetables · Ice cream, e.g., cones or bars • Frozen yogurt, frozen fruit, or chocolate pudding bars • Custards or puddings (made with whole milk) • Puddings (made with skim milk) · Regular margarine or butter · Light-spread margarines, diet margarine, Fats, Oils, and Salad Dressings or whipped butter, tub or squeeze bottle · Light or diet mayonnaise or mustard · Regular mayonnaise · Regular salad dressings · Reduced calorie or fat free salad dressings, lemon juice, or plain, herb-flavored, or wine vinegar · Butter or margarine on toast or bread Jelly, jam, or honey on bread or toast · Oils, shortening, or lard Nonstick cooking spray for stir-frying or sautéing • As a substitute for oil or butter, use applesauce or prune puree in baked goods · Canned cream soups · Canned broth-based soups Miscellaneous · Canned baked beans in tomato sauce · Canned beans and franks Gravy (homemade with fat and/or milk) Gravv mixes made with water or homemade with the fat skimmed off and fat free milk included Fudge sauce Chocolate syrup Cucumber slices or lettuce leaves Avocado on sandwiches · Guacamole dip or refried beans with lard Salsa

Appendix D. Sample Reduced Calorie Menus

Traditional America You can use the exchange list in A				ore choices.
Breakfast	Calories	Fat (grams)	% Fat	Exchange for:
Whole wheat bread, 1 medium slice	70	1.2	15	(1 bread/starch)
Jelly, regular, 2 tsp	30	0	0	(1/2 fruit)
• Cereal, shredded wheat, ½ cup	104	1	4	(1 bread/starch)
• Milk, 1%, 1 cup	102	3	23	(1 milk)
Orange juice, ³ / ₄ cup	78	0	0	(1 ¹ / ₂ fruit)
Coffee, regular, 1 cup	5	0	0	(free)
Breakfast total	389	5.2	10	(1.00)
Lunch	• • • • • • • • • • • •	• • • • • • • • • • • •		
Roast beef sandwich:				
Whole wheat bread, 2 medium slices	139	2.4	15	(2 bread/starch)
Lean roast beef, unseasoned, 2 oz	60	1.5	23	(2 lean protein)
Lettuce, 1 leaf	1	0	0	
Tomato, 3 medium slices	10	0	0	(1 vegetable)
Mayonnaise, low calorie, 1 tsp	15	1.7	96	(1/3 fat)
Apple, 1 medium	80	0	0	(1 fruit)
Water, 1 cup	0	0	0	(free)
Lunch total	305	5.6	16	
Dinner				
 Salmon, 2 ounces edible 	103	5	44	(2 lean protein)
 Vegetable oil, 1½ tsp 	60	7	100	(1 ¹ / ₂ fat)
 Baked potato, ³/₄ medium 	100	0	0	(1 bread/starch)
Margarine, 1 tsp	34	4	100	(1 fat)
 Green beans, seasoned, with margarine, 1/2 cup 	52	2	4	(1 vegetable) (1/2 fat)
Carrots, seasoned	35	0	0	(1 vegetable)
White dinner roll, 1 small	70	2	28	(1 bread/starch)
• Iced tea, unsweetened, 1 cup	0	0	0	(free)
Water, 2 cups	0	0	0	(free)
Dinner total	454	20	39	
Snack				
• Popcorn, 21/2 cups	69	0	0	(1 bread/starch)
• Margarine, ³ / ₄ tsp	30	3	100	(³/₄ fat)
Total	1,247	34–36	24–26	

Calories 1,247	Saturated fat, % kcals7
Total carbohydrate, % kcals 58	Cholesterol, mg96
Total fat, % kcals	Protein, % kcals 19
*Sodium. mg 1.043	

Note: Calories have been rounded.

^{1,200: 100%} RDA met for all nutrients except vitamin E 80%, vitamin B_2 96%, vitamin B_6 94%, calcium 68%, iron 63%, and zinc 73%.

^{*} No salt added in recipe preparation or as seasoning. Consume at least 32 ounces of water.

Traditional America You can use the exchange list in A				ore choices.
	Calories	Fat	% Fat	Exchange for:
Breakfast		(grams)		· ·
 Whole wheat bread, 1 medium slice 	70	1.2	15.4	(1 bread/starch)
 Jelly, regular, 2 tsp 	30	0	0	(¹/₂ fruit)
 Cereal, shredded wheat, 1 cup 	207	2	8	(2 bread/starch)
• Milk, 1%, 1 cup	102	3	23	(1 milk)
Orange juice, ³ / ₄ cup	78	0	0	(11/2 fruit)
Coffee, regular, 1 cup	5	0	0	(free)
• Milk, 1%, 1 oz	10	0.3	27	(¹/ ₈ milk)
Breakfast total	502	6.5	10	
Lunch				
Roast beef sandwich:				
Whole wheat bread, 2 medium slices	139	2.4	15	(2 bread/starch)
Lean roast beef, unseasoned, 2 oz	60	1.5	23	(2 lean protein)
American cheese, lowfat and low sodium,				
1 slice, ³ / ₄ oz	46	1.8	36	(1 lean protein)
Lettuce, 1 leaf	1	0	0	
Tomato, 3 medium slices	10	0	0	(1 vegetable)
Mayonnaise, low calorie, 2 tsp	30	3.3	99	(² / ₃ fat)
Apple, 1 medium	80	0	0	(1 fruit)
Water, 1 cup	0	0	0	(free)
Lunch total	366	9	22	
Dinner	• • • • • • • • • • • • •	• • • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
• Salmon, 3 ounces edible	155	7	40	(3 lean protein)
• Vegetable oil, 11/2 tsp	60	7	100	(1 ¹ / ₂ fat)
• Baked potato, ³ / ₄ medium	100	0	0	(1 bread/starch)
Margarine, 1 tsp	34	4	100	(1 fat)
• Green beans, seasoned, with margarine, ½ cup	52	2	4	(1 vegetable) (1/2 fat)
• Carrots, seasoned, with margarine, 1/2 cup	52	2	4	(1 vegetable) (1/2 fat)
White dinner roll, 1 medium	80	3	33	(1 bread/starch)
• Ice milk, 1/2 cup	92	3	28	(1 bread/starch) (1/2 fat)
• Iced tea, unsweetened, 1 cup	0	0	0	(free)
• Water, 2 cups	0	0	0	(free)
Dinner total	625	28	38	
Snack	• • • • • • • • • • • • •	• • • • • • • • •	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
• Popcorn, 21/2 cups	69	0	0	(1 bread/starch)
• Margarine, ½ tsp	58	6.5	100	(1 ¹ / ₂ fat)
Total	1,613	50	28	

Cholesterol, mg142

Protein, % kcals19

1,600: 100% RDA met for all nutrients except vitamin E 99%,

 $\ensuremath{^{\star}}$ No salt added in recipe preparation or as seasoning. Consume

iron 73%, and zinc 91%.

at least 32 ounces of water.

*Sodium, mg1,341

	Asian American Cuisine-	-Reduced Calorie	43 18 18 18 18 18 18 18 18 18 18 18 18 18
reakfast		1,600 Calories	1,200 Calories
• Banana		1 small	1 small
 Whole wheat bread 		2 slices	1 slice
 Margarine 		1 tsp	1 tsp
Orange juice		³/₄ cup	³/₄ cup
Milk 1%, lowfat		³/₄ cup	³/₄ cup
unch			
• Beef noodle soup, canned, I	ow sodium	¹ / ₂ cup	¹ / ₂ cup
• Chinese noodle and beef sa	ılad:		
Roast beef		3 oz	2 oz
Peanut oil	0 2	1 ¹ / ₂ tsp	1 tsp
Soy sauce, low sodium	1	1 tsp	1 tsp
Carrots		¹ / ₂ cup	¹/₂ cup
Zucchini	000	¹/₂ cup	¹/ ₂ cup
Onion		1/4 cup	1/4 cup
Chinese noodles, soft type	1	1/4 cup	1/4 cup
 Apple 		1 medium	1 medium
• Tea, unsweetened		1 cup	1 cup
Dinner			
• Pork stir-fry with vegetables:			
Pork cutlet		2 oz	2 oz
Peanut oil		1 tsp	1 tsp
Soy sauce, low sodium		1 tsp	1 tsp
Broccoli	A CONTRACTOR OF THE PARTY OF TH	¹/₂ cup	¹/₂ cup
Carrots	ACC SHOP	1 cup	¹/ ₂ cup
Mushrooms		¹ / ₄ cup	¹/2 cup
Steamed white rice		1 cup	¹/₂ cup
• Tea, unsweetened		1 cup	1 cup
Snack	7	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
Almond cookies	V	2 cookies	_
Milk 1%, lowfat	A	³ / ₄ cup	3/4 cup

Calories1,609	Calories1,220
Total carbohydrate, % kcals56	Total carbohydrate, % kcals55
Total fat, % kcals27	Total fat, % kcals27
*Sodium, mg	*Sodium, mg 1,043
Saturated fat, % kcals8	Saturated fat, % kcals8
Cholesterol, mg148	Cholesterol, mg
Protein, % kcals20	Protein, % kcals21

^{1,600: 100%} RDA met for all nutrients except zinc 95%, iron 87%, and calcium 93%.
1,200: 100% RDA met for all nutrients except vitamin E 75%, calcium 84%, magnesium 98%, iron 66%, and zinc 77%.

^{*} No salt added in recipe preparation or as seasoning. Consume at least 32 ounces of water.

Southern Cu	isine—Reduced Calorie	
Breakfast	1,600 Calories	1,200 Calories
 Oatmeal, prepared with 1% milk, lowfat 	¹/ ₂ cup	¹ / ₂ cup
Milk, 1%, lowfat	¹/₂ cup	1/2 cup
• English muffin	1 medium	_
Cream cheese, light, 18% fat	⋽ () / 1T	_
Orange juice	³/ ₄ cup	1/2 cup
• Coffee	1 cup	1 cup
• Milk, 1%, lowfat	1 oz	1 oz
_unch		
Baked chicken, without skin	2 oz	2 oz
Vegetable oil	1 tsp	¹/₂ tsp
• Salad:		
Lettuce	1/2 cup	1/2 cup
Tomato	1/2 cup	1/2 cup
Cucumber	1/2 cup	1/2 cup
Oil and vinegar dressing	2 tsp	1 tsp
White rice	1/2 CUP	1/ ₄ cup
Margarine, diet	¹/₂ tsp	1/2 tsp
Baking powder biscuit, prepared with vegetable oil	•	¹/₂ small
• Margarine	1 tsp	1 tsp
• Water	1 cup	1 cup
Dinner	••••••••••	
Lean roast beef	3 oz	2 oz
• Onion	1/4 cup	¹ / ₄ cup
Beef gravy, water-based	1T	1 T
Turnip greens	1/2 cup	¹ / ₂ cup
Margarine, diet	1/2 tsp	1/2 tsp
Sweet potato, baked	1 small	1 small
Margarine, diet	1/ ₂ tsp	1/4 tsp
Ground cinnamon	1 tsp	1 tsp
Brown sugar	1 tsp	1 tsp
Corn bread prepared with margarine, diet	1/2 medium slice	1/2 medium slice
Honeydew melon	¹ / ₄ medium	¹/ ₈ medium
• Iced tea, sweetened with sugar	1 cup	1 cup
Snack Snack	Busin	
Saltine crackers, unsalted tops	4 crackers	4 crackers
Mozzarella cheese, part skim, low sodium	1 oz	1 oz
0: 100% RDA met for all nutrients except vitamin E 97%,	Calories	ories1,225
magnesium 98%, iron 78%, and zinc 90%.		al carbohydrate, % kcals50
0: 100% RDA met for all nutrients except vitamin E 82%, vitamin B ₁ & B ₂ 95%, vitamin B ₃ 99%, vitamin B ₆ 88%,		al fat, % kcals
magnesium 83%, iron 56%, and zinc 70%.		urated fat, % kcals9
salt added in recine preparation or as seasoning		plesterol ma 142

Cholesterol, mg142

Protein, % kcals21

* No salt added in recipe preparation or as seasoning.

Consume at least 32 ounces of water.

Mexican American C	Cuisine—Reduced Calo	rie
Breakfast	1,600 Calories	1,200 Calories
Cantaloupe	1 cup	¹/ ₂ cup
• Farina, prepared with 1% lowfat milk	¹/₂ cup	¹/ ₂ cup
White bread	1 slice	1 slice
Margarine	1 tsp	1 tsp
• Jelly	1 tsp	1 tsp
Orange juice	1 ¹ / ₂ cup	3/4 cup
• Milk, 1%, lowfat	¹/₂ cup	¹/₂ cup
unch		
Beef enchilada:		
Tortilla, corn	2 tortillas	2 tortillas
Lean roast beef	2¹/₂ oz	2 oz
Vegetable oil	²/₃ tsp	² / ₃ tsp
Onion	1 T	1 T
Tomato	4 T	4 T
Lettuce	¹/₂ cup	¹ / ₂ cup
Chili peppers	2 tsp	2 tsp
Refried beans, prepared with vegetable oil	¹/ ₄ cup	1/4 cup
• Carrots	5 sticks	5 sticks
• Celery	6 sticks	6 sticks
• Milk, 1%, lowfat	¹ / ₂ cup	_
• Water	_ '	1 cup
inner		
Chicken taco:		
Tortilla, corn	1 tortilla	1 tortilla
Chicken breast, without skin	2 oz	1 oz
Vegetable oil	² / ₃ tsp	² / ₃ tsp
Cheddar cheese, lowfat and low sodium	1 oz	1/2 OZ
Guacamole	2Т	1 T
Salsa	1T	1 T
Corn, seasoned with	1/2 cup	1/2 cup
Margarine	1/2 tsp	
Spanish rice without meat	1/2 cup	¹ / ₂ cup
• Banana	1 large	¹/₂ large
• Coffee	1 cup	1/2 cup
• Milk, 1%	1 oz	1 oz
100% RDA met for all nutrients except vitamin E 97%	Calories	Calories
and zinc 84%.	Total carbohydrate, % kcals56	Total carbohydrate, % kcals58
100% RDA met for all nutrients except vitamin E 71%, vitamin $B_1 \& B_3$ 91%, vitamin $B_2 \&$ iron 90%, and calcium 92%.	Total fat, % kcals27 *Sodium, mg1,616	Total fat, % kcals
alt added in recipe preparation or as seasoning.	Saturated fat, % kcals 9	Saturated fat, % kcals8
sume at least 32 ounces of water.	Cholesterol, mg	Cholesterol, mg

Lacto-Ovo Vegetaria	ı Cuisine—Reduced Cal	orie
Breakfast	1,600 Calories	1,200 Calories
• Orange	1 medium	1 medium
• Pancakes, made with 1% lowfat milk and eggs whites	3 4" circles	2 4" circles
Pancake syrup	2 T	1 T
Margarine, diet	11/2 tsp	1 ¹ / ₂ tsp
• Milk, 1%, lowfat	1 cup	1/2 cup
• Coffee	1 cup	1 cup
Milk, 1%, lowfat	1 oz	1 oz
Lunch		
Vegetable soup, canned, low sodium	1 cup	¹ / ₂ cup
Bagel	1 medium	¹/₂ medium
Processed american cheese, lowfat	³/ ₄ OZ	-
Spinach salad:	14 02	
Spinach Spinach	1 cup	1 cup
Mushrooms	¹ / ₂ cup	¹/₂ cup
Salad dressing, regular calorie	2 tsp	2 tsp
Apple	1 medium	1 medium
• Iced tea, unsweetened		
• iceu iea, urisweeterieu	1 cup	1 cup
Dinner		
Omelette:		
Egg whites	4 large eggs	4 large eggs
Green pepper	2 T	2 T
Onion	2 T	2 T
		2 I 1/2 OZ
Mozzarella cheese, made from part	1 oz	·/2 UZ
skim milk, low sodium	4.7	11. 🛨
Vegetable oil	1 T	1/ ₂ T
Brown rice, seasoned with	1/2 cup	¹/₂ cup
Margarine, diet	1/2 tsp	¹/₂ tsp
Carrots, seasoned with	¹/₂ cup	¹/₂ cup
Margarine, diet	1/2 tsp	¹/₂ tsp
Whole wheat bread	1slice	1slice
Margarine, diet	1tsp	1tsp
Fig bar cookie	1bar	1bar
• Tea	1 cup	1 cup
• Honey	1 tsp	1 tsp
• Milk, 1%, lowfat	³ / ₄ cup	³/ ₄ cup
00: 100% RDA met for all nutrients except vitamin E 92%,	Calories	Calories1,205
vitamin B ₃ 97%, vitamin B ₆ 67%, iron 73%, and zinc 68%.	Total carbohydrate, % kcals56	Total carbohydrate, % kcals60
00: 100% RDA met for all nutrients except vitamin E 75%, vitamin B ₁ 92%, vitamin B ₃ 69%, vitamin B ₆ 59%, iron 54%, and zinc 46%.	Total fat, % kcals	Total fat, % kcals
92%, vitamin B_3 69%, vitamin B_6 59%, iron 54%, and zinc 46%. Salt added in recipe preparation or as seasoning.	Saturated fat, % kcals 8	Saturated fat, % kcals
onsume at least 32 ounces of water.	Cholesterol, mg	Cholesterol, mg
	Protein, % kcals19	Protein, % kcals18

Within each group, these foods can be exchanged for each other. You can use this list to give yourself more choices.

Vegetables contain 25 calories and 5 grams of carbohydrate. One serving equals:

• 1/2 cup	Cooked vegetables (obroccoli, zucchini, cabbage, etc.)	carrots,
• 1 cup	Raw vegetables or salad greens	

Vegetable juice

If you're hungry, eat more fresh or steamed vegetables.

• 1/2 cup

Fat Free and Very Low Fat Milk contains 90 calories and 12 grams of carbohydrate per serving. One serving equals:

• 8 oz	Milk, fat free or 1% fat
• 3/4 cup	Yogurt, plain nonfat or lowfat
• 1 cup	Yogurt, artificially sweetened

Very Lean Protein choices have 35 calories and 1 gram of fat per serving. One serving equals:

	1	
• 1 oz		Turkey breast or chicken breast, skin removed
• 1 oz		Fish fillet (flounder, sole, scrod, cod, haddock, halibut)
• 1 oz		Canned tuna in water
• 1 oz		Shellfish (clams, lobster, scallop, shrimp)
• 3/4 cup		Cottage cheese, nonfat or lowfat
• 2 each		Egg whites
• 1/4 cup		Egg substitute
• 1 oz		Fat free cheese
• 1/2 cup		Beans—cooked (black beans, kidney, chickpeas, or lentils): count as 1 starch/bread and 1 very lean protein

Fruits contain 15 grams of carbohydrates and 60 calories. One serving equals:

• 1 small	Apple, banana, orange, nectarine
• 1 medium	Fresh peach
• 1	Kiwi
• 1/2	Grapefruit
• 1/2	Mango
• 1 cup	Fresh berries (strawberries, raspberries, or blueberries)
• 1 cup	Fresh melon cubes
• 1/8	Honeydew melon
• 4 oz	Unsweetened juice
• 4 tsp	Jelly or jam

Lean Protein choices have 55 calories and 2 to 3 grams of fat per serving. One serving equals:

• 1 oz	Chicken—dark meat, skin removed
• 1 oz	Turkey—dark meat, skin removed
• 1 oz	Salmon, swordfish, herring, catfish, trout
• 1 oz	Lean beef (flank steak, London broil, tenderloin, roast beef)*
• 1 oz	Veal, roast, or lean chop*
• 1 oz	Lamb, roast, or lean chop*
• 1 oz	Pork, tenderloin, or fresh ham*
• 1 oz	Lowfat cheese (3 grams or less of fat per ounce)
• 1 oz	Lowfat luncheon meats (with 3 grams or less of fat per ounce)
• 1/4 cup	4.5% cottage cheese
• 2 medium	Sardines

^{*} Limit to 1 to 2 times per week.

Medium Fat Proteins have 75 calories and 5 grams of fat per serving. One serving equals:

• 1 oz	Beef (any prime cut), corned beef, ground beef **
• 1 oz	Pork chop
• 1 each	Whole egg (medium) **
• 1 oz	Mozzarella cheese
• 1/4 cup	Ricotta cheese
• 4 oz	Tofu (note that this is a

heart-healthy choice)

Starches contain 15 grams of carbohydrate and 80 calories per serving. One serving equals:

• 1 slice	Bread (white, pumpernickel, whole wheat, rye)
• 2 slice	Reduced calorie or "lite" bread
• 1/4 (1 oz)	Bagel (varies)
• 1/2	English muffin
• 1/2	Hamburger bun
• ³ / ₄ cup	Cold cereal
• 1/3 cup	Rice, brown or white—cooked
• 1/3 cup	Barley or couscous—cooked
• 1/3 cup	Legumes (dried beans, peas, or lentils)—cooked

• 1/2 cup	Pasta—cooked
• 1/2 cup	Bulgur—cooked
• 1/2 cup	Corn, sweet potato, or green peas
• 3 oz	Baked sweet or white potato
• ³ / ₄ OZ	Pretzels
• 3 cups	Popcorn, hot-air popped or

microwave (80-percent light)

Fats contain 45 calories and 5 grams of fat per serving. One serving equals:

• 1 tsp	Oil (vegetable, corn, canola, olive, etc.)
• 1 tsp	Butter
• 1 tsp	Stick margarine
• 1 tsp	Mayonnaise
• 1 T	Reduced fat margarine or mayonnaise
• 1 T	Salad dressing
• 1 T	Cream cheese
• 2 T	Lite cream cheese
• 1/8	Avocado
8 large	Black olives
• 10 large	Stuffed green olives
• 1 slice	Bacon

Source: Based on the American Dietetic Association Exchange List



^{**} Choose these very infrequently.

Low Calorie, Lowfat Cooking/Serving Methods

Cooking low calorie, lowfat dishes may not take a long time, but best intentions can be lost with the addition of butter or other added fats at the table. It is important to learn how certain ingredients can add unwanted calories and fat to lowfat dishes making them no longer lower in calories and lower in fat. The following list provides examples of lower fat cooking methods and tips on how to serve your lowfat dishes.

Lowfat Cooking Methods

These cooking methods tend to be lower in fat:

- Bake
- Broil
- Microwave
- Roast—for vegetables and/or chicken without skin
- Steam
- Lightly stir-fry or sauté in cooking spray, small reduced sodium broth



• Grill seafood, chicken, or vegetables

How To Save Calories and Fat

Look at the following examples for how to save calories and fat when preparing and serving foods. You might be surprised at how easy it is.

• Two tablespoons of butter on a baked potato adds an extra 200 calories and 22 grams of fat. However, 1/4 cup salsa adds only 18 calories and no fat.

• Two tablespoons of regular clear Italian salad dressing adds an extra 136 calories and 14 grams of fat. Reduced fat Italian dressing adds only 30 calories and 2 grams of fat.

Try These Lowfat Flavorings—Added **During Preparation or at the Table:**

- Herbs—oregano, basil, cilantro, thyme, parsley, sage, or rosemary
- Spices—cinnamon, nutmeg, pepper, or paprika
- · Reduced fat or fat free salad dressing
- Mustard
- Catsup
- Fat free mayonnaise
- Fat free or reduced fat sour cream
- Fat free or reduced fat yogurt
- Reduced sodium soy sauce
- Salsa
- Lemon or lime juice
- Vinegar
- Horseradish
- Fresh ginger
- Sprinkled buttered flavoring (not made with real butter)
- Red pepper flakes
- Sprinkle of parmesan cheese (stronger flavor than most cheese)
- Sodium free salt substitute
- Jelly or fruit preserves on toast or bagels



General Tips for Healthy Dining Out

Whether or not you're trying to lose weight, you can eat healthfully when dining out or bringing in food, if you know how. The following tips will help you move toward healthier eating as you limit your calories, as well as fat, saturated fat, cholesterol, and sodium, when eating out.

You Are the Customer

- Ask for what you want. Most restaurants will honor your requests.
- Ask questions. Don't be intimidated by the menu—your server will be able to tell you how foods are prepared or suggest substitutions on the menu.
- If you wish to reduce portion sizes, try ordering appetizers as your main meal.
- General tips: Limiting your calories and fat can be easy as long as you know what to order. Try asking these questions when you call ahead or before you order. Ask the restaurant, whether they would, on request, do the following:
 - Serve nonfat (skim) milk rather than whole milk or cream.
 - Reveal the type of cooking oil used.
 - Trim visible fat off poultry or meat.
 - Leave all butter, gravy, or sauces off a side dish or entree.
 - Serve salad dressing on the side.
 - Accommodate special requests if made in advance by telephone or in person.

Above all, don't get discouraged. There are usually several healthy choices to choose from at most restaurants.

Reading the Menu

- Choose lower calorie, lowfat cooking methods. Look for terms such as "steamed in its own juice" (au jus), "garden fresh," "broiled," "baked," "roasted," "poached," "tomato juice," "dry boiled" (in wine or lemon juice), or "lightly sautéed."
- Be aware of foods high in calories, fat, and saturated fat. Watch out for terms such as "butter sauce," "fried," "crispy," "creamed," "in cream or cheese sauce," "au gratin," "au fromage," "escalloped," "parmesan," "hollandaise," "bearnaise," "marinated (in oil)," "stewed," "basted," "sautéed," "stir-fried," "casserole," "hash," "prime," "pot pie," and "pastry crust."

Specific Tips for Healthy Choices

Breakfast

- Fresh fruit or small glass of citrus juice
- Whole grain bread, bagel, or English muffin with jelly or honey



- Whole grain cereal with lowfat (1%) or nonfat milk
- Oatmeal with nonfat milk topped with fruit
- Omelet made with egg whites or egg substitute
- Multigrain pancakes without butter on top
- Nonfat yogurt (Try adding cereal or fresh fruit.)

Beverages

- Water with lemon
- Flavored sparkling water (noncaloric)



- Juice spritzer (half fruit juice and half sparkling water)
- Iced tea
- Tomato juice (reduced sodium)

Bread

Most bread and bread sticks are low in calories and low in fat. The calories add up when you add butter, margarine, or olive oil to the bread. Also, eating a lot of bread in addition to your



meal will fill you up with extra unwanted calories and not leave enough room for fruits and vegetables.

Appetizers

- Steamed seafood
- Shrimp* cocktail (Limit cocktail sauce—it's high in sodium.)



- Bean soups
- Salad with reduced fat dressing (Or add lemon juice or vinegar.)
- * If you are on a cholesterol-lowering diet, eat shrimp and other shellfish in moderation.

Entree

 Poultry, fish, shellfish, and vegetable dishes are healthy choices.



- Pasta with red sauce or with vegetables (primavera)
- Look for terms such as "baked," "broiled,"
 "steamed," "poached," "lightly sauteed," or "stir-fried."
- Ask for sauces and dressings on the side.
- Limit the amount of butter, margarine, and salt you use at the table.

Salads/Salad Bars

• Fresh greens, lettuce, and spinach



 Fresh vegetables—tomato, mushroom, carrots, cucumber, peppers, onion, radishes, and broccoli

- Beans, chickpeas, and kidney beans
- Skip the nonvegetable choices: deli meats, bacon, egg, cheese, croutons.
- Choose lower calorie, reduced fat, or fat free dressing, lemon juice, or vinegar.

Side Dish

- Vegetables and starches (rice, potato, noodles)
 make good additions to meals
 and can also be combined
 for a lower calorie
 alternative to higher
 calorie entrees.
- Ask for side dishes without butter or margarine.
- Ask for mustard, salsa, or lowfat yogurt instead of sour cream or butter.

Dessert/Coffee

- Fresh fruit
- Nonfat frozen yogurt
- Sherbet or fruit sorbet (These are usually fat free, but check the calorie content.)
- Try sharing a dessert.
- Ask for lowfat milk for your coffee (instead of cream or half-and-half).



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Appendix H. Guide to Physical Activity

An increase in physical activity is an important part of your weight management program. Most weight loss occurs because of decreased caloric intake. Sustained physical activity is most helpful in the prevention of weight regain. In addition, physical activity helps to reduce cardiovascular and diabetes risks beyond what weight reduction alone can

do. Start exercising slowly, and gradually increase the intensity. Trying too hard at first can lead to injury.

Your exercise can be done all at one time or intermittently over the course of the day. Initial activities may be walking or swimming at a slow pace. You can start by walking slowly for 30 minutes 3 days a week. Then build to 45 minutes of more intense walking at least 5 days a week. With this regimen, you can burn 100 to 200 calories per day. All adults should set a long-term

goal to accumulate at least 30 minutes or more of moderate-intensity physical activity on most, and preferably all, days of the week. This regimen can be adapted to other forms of physical activity, but walking is particularly attractive because of its safety and accessibility. Also, try to change everyday activities; for example, take the stairs instead of the elevator. Reducing sedentary time is a good strategy to

increase activity by undertaking frequent, less

Examples of Moderate Amounts of Phys	sical Activity*	
Common Chores	Sporting Activities	
Washing and waxing a car for 45-60 minutes	Playing volleyball for 45–60 minutes	Less Vigorous,
Washing windows or floors for 45–60 minutes	Playing touch football for 45 minutes	More Time ^T
Gardening for 30–45 minutes	Walking 1 ³ / ₄ miles in 35 minutes (20 min/mile)	1
Wheeling self in wheelchair for 30-40 minutes	Basketball (shooting baskets) for 30 minutes	
Pushing a stroller 11/2 miles in 30 minutes	Bicycling 5 miles in 30 minutes	
Raking leaves for 30 minutes	Dancing fast (social) for 30 minutes	
Walking 2 miles in 30 minutes (15 min/mile)	Water aerobics for 30 minutes	
Shoveling snow for 15 minutes	Swimming laps for 20 minutes	
Stairwalking for 15 minutes	Basketball (playing a game) for 15–20 minutes	More
	Jumping rope for 15 minutes	Vigorous,
	Running 11/2 miles in 15 minutes (15 min/mile)	Less Time

^{*} A moderate amount of physical activity is roughly equivalent to physical activity that uses approximately 150 calories of energy per day, or 1,000 calories per week.

[†] Some activities can be performed at various intensities; the suggested durations correspond to expected intensity of effort.

strenuous activities.⁷⁶ With time, you may be able to—and you may want to—engage in more strenuous activities. Competitive sports such as tennis and volleyball can provide an enjoyable form of exercise, but you must take care to avoid injury.

Overcoming Obstacles to Regular Activity

Many people who are completely inactive cite various reasons for their inactivity.

I don't have the time to exercise.

Physical activity does take time, but only about 1 hour per week of vigorous activity can greatly benefit your heart, lungs, muscles, and weight. Consider the amount of time you spend watching television. Many forms of physical activity, such as riding an exercise bicycle or



using hand weights, can be done while watching television.

I don't like to exercise.

You have bad memories of doing situps or running in high school, sweating, puffing, and panting. Now we know that you can get plenty of gain without pain! Activities you already do, such as gardening and walking, can improve your health, so just do more of the activities you like.

• I don't have the energy to be more active.

Once you become a little more active, you should have more energy. As you progress, daily tasks will seem easier.

· It's hard to remember to exercise.

Leave your sneakers near the door to remind yourself to walk, bring a change of clothes to work and head straight for exercise on the way home, or put a note on your calendar at work to remind yourself to exercise. In addition, simply try to develop the habit of integrating more activity into your daily routine.

Gaining Health Benefits From Physical Activity

It is much easier to control your weight when you are active, and being active helps to prevent osteoporosis (bone loss) and heart disease and helps in the treatment of diabetes. In addition, physical activity helps to increase your confidence and decrease your stress. It can also decrease sadness and improve depression.

Benefits of Regular Activity

- Your weight is much easier to control when you are active.
- · Physical activity can be lots of fun.
- You can be with other people when you are active.
- You'll feel better when you're physically active.
- You'll look better when you're physically active.
- Physical activity is good for your heart.
- Physical activity is a great way to burn off steam and stress.
- Physical activity helps you beat the blues.
- You'll feel more confident when you are active.
- You'll have more energy.

Fitting Activity Into Your Schedule

What time of day is best for you to exercise?

Try walking before going to work or school, or maybe you prefer evenings. Even a few minutes of walking counts. Try to build up to accumulating 30 minutes per day. You can walk whenever it is convenient for you, or you can take an aerobics class instead. Whatever works for you is fine. The important thing is that you try to be more active. There is no one right time of day to exercise.

Try to think about the little things you can do to add more activity to your daily life. For instance, take the stairs instead of the elevator at work, park farther away from the entrance to the mall, or walk instead of driving to work or to shopping. These little things add up and are easy to fit into your schedule.

Some people want to be alone when they exercise, whereas others prefer the company of a group or class. Again, whatever works for you is fine.

What activities have you enjoyed in the past? Why did you stop? How can you start them again?

You may enjoy other activities that are better suited to your current lifestyle. The key is to find one or two you really like. Consider varying your activity to prevent boredom.



You can have fun and feel healthier by doing any of the following:

- Walk or ride a bike in your neighborhood.
- Join a walking club at a mall or at work.
- Play golf at a local club.
- · Join a dance class.
- Work in your garden.
- Use local athletic facilities.
- Join a hiking or biking club.
- Join a softball team or other sports team with coworkers, friends, or family.
- Chase your kids in the park. If you don't have kids, take your neighbor's. The parents will appreciate the break, the neighbors will enjoy it, and you'll benefit from getting more activity.
- Walk your dog. If you don't have a dog, pretend you do.
- Take a walk during your lunch break.

Planning To Become More Active

· Begin slowly.

If you have not been active for years, do not start with a 3-mile walk! Pushing yourself too hard or too fast will make you sore and discouraged.

· Set realistic goals, and plan to succeed.

For example, set the goal of walking two times this week. Even if you walk for only 5 minutes each time, you will have met your goal. Next week, you might try to walk two times for 10 minutes each time. Being realistic helps you to feel good about yourself, and it helps you to keep up the good work. You may want to keep an activity log to track your progress.

Reward yourself for reaching your goals.

Each time you meet an exercise goal, give yourself a treat to mark the occasion. Some ideas include the following: buy yourself new sports equipment, ask your spouse to take the kids for an hour, visit a friend, spend more time on your favorite hobby, buy yourself flowers or a plant, enjoy a long hot bath, or go to a movie or rent a video.

· Be active the healthy way.

Most healthy people can safely start a program of moderate activity. Talk to your doctor first if you have heart trouble or experience pain or pressure in your chest, neck, shoulder, or arm during or after exercise.

Drink plenty of fluids while you are active. If the weather is bad, have a backup plan. Do your activity indoors. Use the proper equipment, such as a bicycle helmet for safety, and wear comfortable shoes or sneakers for walking.

· How hard should you exercise?

For the beginner in a sedentary lifestyle, activity level can be very light. This would include increasing standing activities, doing special chores like room painting, pushing a wheelchair, doing yard work, ironing, cooking, and playing a musical instrument.

The next level would be light activity such as slow walking (24 minutes per mile), garage work, carpentry, house cleaning, child care, golf, sailing, and recreational table tennis.

The next level would be moderate activity such as walking at 15 minutes per mile, weeding and hoeing a garden, carrying a load, cycling, skiing, tennis, and dancing.

Two Sample Activity Programs

There are many ways to begin an activity program. Below are two examples—a walking program and a jogging program. These activities are easy ways for most people to get regular exercise because they do not require special facilities or equipment other than

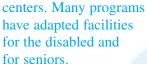
If you find a particular week's pattern tiring, repeat it before going on to the next pattern. You do not have to complete the walking program in 12 weeks or the jogging program in 15 weeks.

good, comfortable shoes.

A sample jogging program

If you are older than 40 and have not been active, you should not begin with a program as strenuous as jogging. Begin with the walking program instead. After completing the walking program, you can start with week 3 of the jogging program below.

If walking or jogging does not meet your needs, look for other exercise programs in pamphlets and books on aerobic exercise and sports medicine. Check out the programs and facilities of your local park and recreation department or community recreation





A sample walking program

	Warmup	Exercising	Cool down	Total time
Week 1				
Session A	Walk 5 min.	Then walk briskly 5 min.	Then walk more slowly 5 min.	15 min.
Session B	Repeat above pattern			
Session C	Repeat above pattern			

Continue with at least three exercise sessions during each week of the program.

Week 2	Walk 5 min.	Walk briskly 7 min.	Walk 5 min.	17 min.
Week 3	Walk 5 min.	Walk briskly 9 min.	Walk 5 min.	19 min.
Week 4	Walk 5 min.	Walk briskly 11 min.	Walk 5 min.	21 min.
Week 5	Walk 5 min.	Walk briskly 13 min.	Walk 5 min.	23 min.
Week 6	Walk 5 min.	Walk briskly 15 min.	Walk 5 min.	25 min.
Week 7	Walk 5 min.	Walk briskly 18 min.	Walk 5 min.	28 min.
Week 8	Walk 5 min.	Walk briskly 20 min.	Walk 5 min.	30 min.
Week 9	Walk 5 min.	Walk briskly 23 min.	Walk 5 min.	33 min.
Week 10	Walk 5 min.	Walk briskly 26 min.	Walk 5 min.	36 min.
Week 11	Walk 5 min.	Walk briskly 28 min.	Walk 5 min.	38 min.
Week 12	Walk 5 min.	Walk briskly 30 min.	Walk 5 min.	40 min.

Week 13 on:

Gradually increase your brisk walking time to 30 to 60 minutes, three or four times a week. Remember that your goal is to get the benefits you are seeking and enjoy your activity.

Walking Tips

- Hold your head up, and keep your back straight.
- Bend your elbows as you swing your arms.
- Take long, easy strides.

For additional information about physical activity, request the NHLBI booklet *Exercise and Your Heart: A Guide to Physical Activity*.

A sample jogging program

If you are older than 40 and have not been active, you should not begin with a program as strenuous as jogging. Begin with the walking program instead. After completing the walking program, you can start with week 3 of the jogging program below.

	Warmup	Exercising	Cool down	Total time
Week 1				
Session A	Walk 5 min., then stretch and limber up	Then walk 10 min. Try not to stop.	Then walk more slowly 3 min. and stretch 2 min.	20 min.
Session B	Repeat above pattern			
Session C	Repeat above pattern			
Continue wi	th at least three exercise	sessions during each wee	k of the program.	
Week 2	Walk 5 min., then stretch and limber up	Walk 5 min., jog 1 min., walk 5 min., jog 1 min.	Walk 3 min., stretch 2 min.	22 min.
Week 3	Walk 5 min., then stretch and limber up	Walk 5 min., jog 3 min., walk 5 min., jog 3 min.	Walk 3 min., stretch 2 min.	26 min.
Week 4	Walk 5 min., then stretch and limber up	Walk 4 min., jog 5 min., walk 4 min., jog 5 min.	Walk 3 min., stretch 2 min.	28 min.
Week 5	Walk 5 min., then stretch and limber up	Walk 4 min., jog 5 min., walk 4 min., jog 5 min.	Walk 3 min., stretch 2 min.	28 min.
Week 6	Walk 5 min., then stretch and limber up	Walk 4 min., jog 6 min., walk 4 min., jog 6 min.	Walk 3 min., stretch 2 min.	30 min.
Week 7	Walk 5 min., then stretch and limber up	Walk 4 min., jog 7 min., walk 4 min., jog 7 min.	Walk 3 min., stretch 2 min.	32 min.
Week 8	Walk 5 min., then stretch and limber up	Walk 4 min., jog 8 min., walk 4 min., jog 8 min.	Walk 3 min., stretch 2 min.	34 min.
Week 9	Walk 5 min., then stretch and limber up	Walk 4 min., jog 9 min., walk 4 min., jog 9 min.	Walk 3 min., stretch 2 min.	36 min.
Week 10	Walk 5 min., then stretch and limber up	Walk 4 min., jog 13 min.	Walk 3 min., stretch 2 min.	27 min.
Week 11	Walk 5 min., then stretch and limber up	Walk 4 min., jog 15 min.	Walk 3 min., stretch 2 min.	29 min.
Week 12	Walk 5 min., then stretch and limber up	Walk 4 min., jog 17 min.	Walk 3 min., stretch 2 min.	31 min.
Week 13	Walk 5 min., then stretch and limber up	Walk 2 min., jog slowly 2 min., jog 17 min.	Walk 3 min., stretch 2 min.	31 min.
Week 14	Walk 5 min., then stretch and limber up	Walk 1 min., jog slowly 3 min., jog 17 min.	Walk 3 min., stretch 2 min.	31 min.
Week 15	Walk 5 min., then stretch and limber up	Jog slowly 3 min., jog 17 min.	Walk 3 min., stretch 2 min.	30 min.

Week 16 on: Gradually increase your jogging time from 20 to 30 minutes (or more, up to 60 minutes), three or four times a week. Remember that your goal is to get the benefits you are seeking and enjoy your activity.

Why Weight Is Important

Being overweight or obese can have a negative effect on your overall health.

effect on your overall health.

Overweight and obesity are risk factors for developing health problems such as high blood cholesterol, high blood pressure, diabetes, gall-bladder disease, gynecologic disorders, arthritis, some types of cancer, and even some lung problems.

People try to lose weight for a number of reasons. You may already have a health problem that you know about, such as high blood pressure, and want to lose weight to improve your health. Others may be losing weight in order to help prevent health problems. Still others simply want to lose weight to look thinner. For whatever reason, your health care provider may have given you information to help you lose weight.

In some ways, weight is different from other health problems since it is not something that is hidden, such as high blood cholesterol levels. Patients may have had experience with health care providers who are insensitive about their weight. They may have had encounters where they felt blamed rather than helped. Please be assured that when your health care provider discusses your

weight, it's because it is an important aspect of your overall health care.

Your provider also understands that weight management is a long-term challenge influenced by behavioral, emotional,

and physical factors.

How To Lose Weight and Maintain It

Set the Right Goals.

Setting the right goals is an important first step. Did you know that the amount of weight loss needed to improve health may be much less than you want to lose to look thinner? If your provider suggests an initial weight loss goal that seems too heavy for you, please understand that your health can be greatly improved by a loss of 5 percent to 10 percent of your starting weight. That doesn't mean you have to stop there, but it does mean that an initial goal of 5 to 10 percent of your starting weight is both realistic and valuable.

Most people who are trying to lose weight focus on one thing: weight loss. However, focusing on dietary and exercise changes that will lead to permanent weight loss is much more productive. People who are successful at managing their weight set only two to three goals at a time.

Effective goals are:

- specific
- realistic
- forgiving (less than perfect)

For example:

"Exercise more" is a fine goal, but it's not specific enough.



"Walk 5 miles every day"

is specific and measurable, but is it achievable if you're just starting out?

"Walk 30 minutes every day" is more attainable, but what happens if you're held up at work one day and there's a thunderstorm during your walking time on another day?

"Walk 30 minutes, 5 days each week" is specific, achievable, and forgiving. *A great goal!*

Nothing Succeeds Like Success.

Shaping is a technique where you set some short-term goals that get you closer and closer to the ultimate goal (e.g., reduce fat from 40 percent of calories to 35 percent of calories, and ultimately to 30 percent). It is based on the concept that "nothing succeeds like success." Shaping uses two important behavioral principles:

- Continuous goals that move you ahead in small steps to reach a distant point.
- Continuous rewards to keep you motivated to make changes.

Reward Success (But Not With Food).

Rewards that you control
can encourage
achievement of your goals,
especially ones that have been hard to reach.
An effective reward is something that is desirable,
timely, and dependent upon meeting your goal.
The rewards you choose may be material (e.g., a

movie, music CD, or payment toward buying a larger item) or an act of self-kindness (e.g., an afternoon off from work, a massage, or personal time).

Frequent, small rewards earned for meeting smaller goals are more effective than bigger rewards, requiring a long, difficult effort.

Balance Your (Food) Checkbook.

Self-monitoring refers to observing and recording some aspect of your behavior, such as calorie intake, servings of fruits and vegetables eaten, and amount of physical activity, etc., or an outcome of these behaviors, such as weight. Self-monitoring of a behavior can be used at times when you're not sure of how you are doing and at times when you want the behavior to improve. Self-monitoring of a behavior usually moves you closer to the desired behavior. When you record your behavior, you produce real-time records for you and your health care provider to discuss. For example, keeping a record of your exercise can let you and your provider know quickly how you are doing. When your record shows that your exercise is increasing,

you'll be encouraged to keep it up. Some patients find that standard self-

monitoring forms make it
easier, while others like
their own recording
system. Use the form
in Appendix K to help
you keep track of your
daily diet and activity levels.

Regular monitoring of your weight is key to keeping it off. Remember these four points if you are keeping a weight chart or graph:

- One day's diet and exercise routine won't necessarily affect your weight the next day. Your weight will change quite a bit over the course of a few days because of fluctuations in water and body fat.
- Try to weigh yourself at a set time once or twice per week. This can be when you first wake up and before eating and drinking, after exercise, or right before dinner, etc.
- Whatever time you choose, just make sure it is always the same time and use the same scale to help you keep the most accurate records.
- It may also be helpful to create a graph of your weight as a visual reminder of how you're doing, rather than just listing numbers.

Avoid a Chain Reaction.

Stimulus (cue) control involves learning what social or environmental cues encourage undesired eating, and then changing those cues. For example, you may learn from your self-monitoring techniques or from sessions with your health care provider that you're more likely to overeat when watching TV, when treats are on display by the office coffee pot, or when around a certain friend. Ways to change the situation include:

- Separating the association of eating from the cue (Don't eat while watching television.)
- Avoiding or eliminating the cue (Leave the coffee room immediately after pouring coffee.)



In general, visible and reachable food items often lead to unplanned eating.

Get the (Fullness) Message.

Changing the way you eat can help you to eat less and not feel deprived.

- Eating slowly will help you to feel satisfied when you've eaten the right amount of food for you. It takes 15 or more minutes for your brain to get the message you've been fed. Slowing the rate of eating can allow you to feel full sooner and, therefore, help you eat less.
- Eating lots of vegetables and fruit and also starting a meal with a broth-based soup can help you feel fuller.
- Using smaller plates helps to moderate portions so they don't appear too small.
- Drinking at least eight glasses of noncaloric beverages each day will help you to feel full, possibly eat less, and benefit you in other ways.
- Changing your eating schedule, or setting one, can be helpful, especially if you tend to skip or delay meals and overeat later.



ATE	WEIGHT	WEIGHT CHANGE THIS VISIT	TOTAL WEIGHT CHANGE	WAIST	ВМІ	PATIENT GOALS SET THIS VISIT
						DIET
						PHYSICAL ACTIVITY
						BEHAVIOR
						NOTES
						DIET
						PHYSICAL ACTIVITY
						BEHAVIOR
						NOTES
						DIET
						PHYSICAL ACTIVITY
						BEHAVIOR
						NOTES
						DIET
						PHYSICAL ACTIVITY
						BEHAVIOR
						NOTES

Weight Management Chart

You can't drive a car if you can't see where you are going. You can't control your weight if you can't see where it's going. An important behavior change is to keep a visual record of your weight, along with your physical activity habits. Beginning now, weigh yourself every day and record each day's weight and minutes of physical activity using the graph on the next page, as shown in the example below. Weigh yourself at the same time under the same conditions every day. The bottom horizontal lines show the days of the month. The vertical lines on the left side will show a range of your weights, while the vertical lines on the right side will show the minutes of physical activity.

Chart Your Weight.

Write in your first weight on the third line from the top of the graph on the left side. List successive weights up and down from there, one pound per line. Each day go up

the line above that day
until you are on the
same horizontal line
as your weight that
day, and mark the
spot with a dot.
Connect the dots
with a solid line.

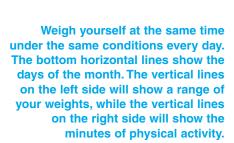
Chart Your Physical Activity.

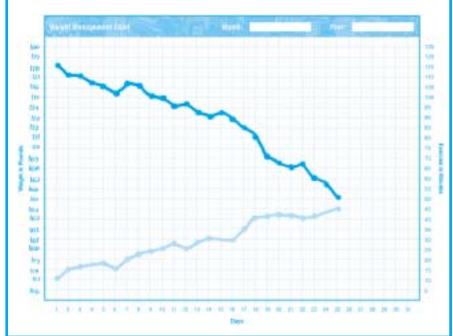
Do the same for physical activity. Write in 5 minutes of physical activity on the first line from the bottom of the graph on the right side. List additional

minutes of activity up from there using 5 minute intervals. Each day go up the line above that day until you are on the same horizontal line as your physical activity for that day, and mark the spot with a dot. Connect the dots with a solid line.

See Your Success.

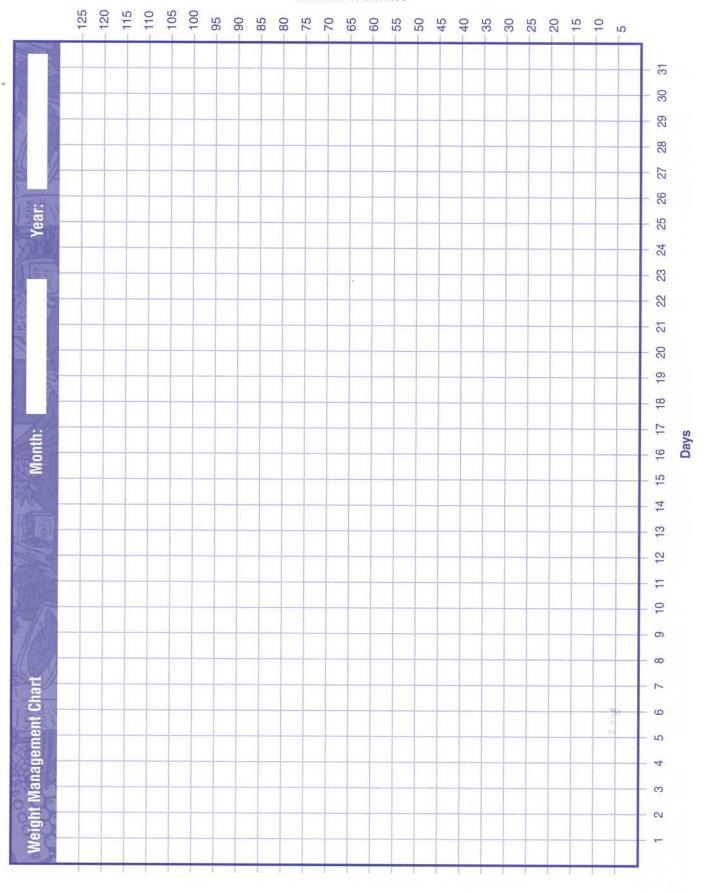
The beginning of a weight loss program is when weight graphing is most fun—a good time to start the habit. Your graph will show ups and downs because of changes in fluid balance and differences in fluid intake from day to day. You will learn to understand these variations and use the overall trend to guide your weight control plan. Post the graph near your scale or on your refrigerator as a reminder of your progress.





Source: Adapted from the Weight Management Center, Medical University of South Carolina





Weight in Pounds

Appendix K. Weekly Food and Activity Diary

	Sunday					
vity Diary	Saturday					
	Friday					
	Thursday					
	Wednesday					
	Tuesday					
Weekly Food and Activity Diary	Monday					ö
Week		Breakfast	qэипт	Dinner	yfivit ɔA	Notes:

Appendix L. Additional Resources

The Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults: Evidence Report was developed by the NHLBI Expert Panel and released in June 1998. In addition to the Evidence Report (NIH Publication # 4083), a number of professional and patient education resources based on the report are available from the NHLBI. These resources include the executive summary of the report (NIH Publication #55-892), evidence tables of data supporting the report, an electronic textbook, a slide kit, a BMI calculator including a Palm top application, a menu planner, highlights for patients, and this Practical Guide to the Identification, Evaluation and Treatment of Overweight and Obesity in Adults. These resources are available on the NHLBI's Aim For a Healthy Weight Web page at www.nhlbi.nih.gov or by contacting the address below:

In addition, the *Clinical Guidelines Evidence Report* was published in the September 1998 supplement of *Obesity Research* which can be obtained from the North American Association for the Study of Obesity (NAASO) at the following address:

National Heart, Lung, and Blood Institute

Health Information Center
P.O. Box 30105
Bethesda, MD 20824-0105
(301) 592-8573
(301) 592-8563 fax
www.nhlbi.nih.gov
Online publications on blood pressure,
overweight, cholesterol, heart disease,
sleep disorders and asthma

North American Association for the Study of Obesity 8630 Fenton Street, Suite 412 Silver Spring, MD 20910 (301) 563-6526 (301) 587-2365 fax www.naaso.org

Other materials available from the NHLBI include:

- Second Report of the Expert Panel on Detection, Evaluation, and Treatment of High Blood Cholesterol in Adults (Adult Treatment Panel II). NIH publication #3046. www.nhlbi.nih.gov.
- The Sixth Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure. NIH publication #4080. www.nhlbi.nih.gov.
- 3. Consensus Statement: Gastrointestinal Surgery for Severe Obesity. www.odp.od.nih.gov/consensus

National Institute of Diabetes and Digestive and Kidney Diseases National Institutes of Health Building 31, Room 9A52 31 Center Drive Bethesda, MD 20892-1818 (301) 496-5877 (301) 402-2125 fax http://www.niddk.nih.go/index.htm

The Weight-Control
Information Network
National Institute of Diabetes and
Digestive and Kidney Diseases
National Institutes of Health
1 Win Way
Bethesda, MD 20892-0001
(301) 570-2177
(301) 570-2186 fax
1-800-WIN-8098

National Diabetes Information Clearinghouse (NIDDK) 1 Information Way Bethesda, MD 20892-3560 (301) 654-3327 (301) 907-8906 fax

American Society for Bariatric Surgery (ASBS) 140 Northwest 75th Drive, Suite C Gainesville, FL 32607 (352) 331-4900 (352) 331-4975 fax http://www.asbs.org/

American Dietetic Association 216 West Jackson Boulevard Chicago, IL 60606-6995 (312) 899-0040 1-800-877-1600 fax http://www.eatright.org Eat Right America Program Find a dietitian, 1-800-366-1655 American College of Sports Medicine P.O. Box 1440 Indianapolis, IN 46206-1440 (317) 637-9200 (317) 634-7817 fax http://www.acsm.org

American Diabetes Association 1660 Duke Street Alexandria, VA 22314 1-800-DIABETES http://www.diabetes.org

American Society of Bariatric Physicians (ASBP) 5600 South Quebec Street, Suite 109A Englewood, CO 80111 (303) 770-2526, ext. 17 (membership information only) (303) 779-4833 (303) 779-4834 fax http://www.asbp.org

American Obesity Association 1250 24th Street, NW, Suite 300 Washington, DC 20037 202-776-7711 202-776-7712 fax http://www.obesity.org

American Cancer Society Atlanta, GA 1-800-ACS-2345 http://www.cancer.org Office of Cancer Communications National Cancer Institute National Institutes of Health Building 31, Room 10A-24 31 Center Drive, MSC 2580 Bethesda, MD 20892-2580 1-800-4-CANCER (1-800-422-6237) http://www.nci.nih.gov

National Eating Disorders Organization 6655 South Yale Avenue Tulsa, OK 74136 (918) 481-4044 (918) 481-4076 fax http://www.laureate.com/ aboutned.html

Eating Disorders Awareness and Prevention, Inc. 603 Stewart Street, Suite 803 Seattle, WA 98101 (206) 382-3587 http://members.aol.com/edapinc/ home.html

American Anorexia/Bulimia Association, Inc. 165 West 46th Street, #1108 New York, NY 10036 (212) 575-6200 http://members.aol.com/amanbu/index.html

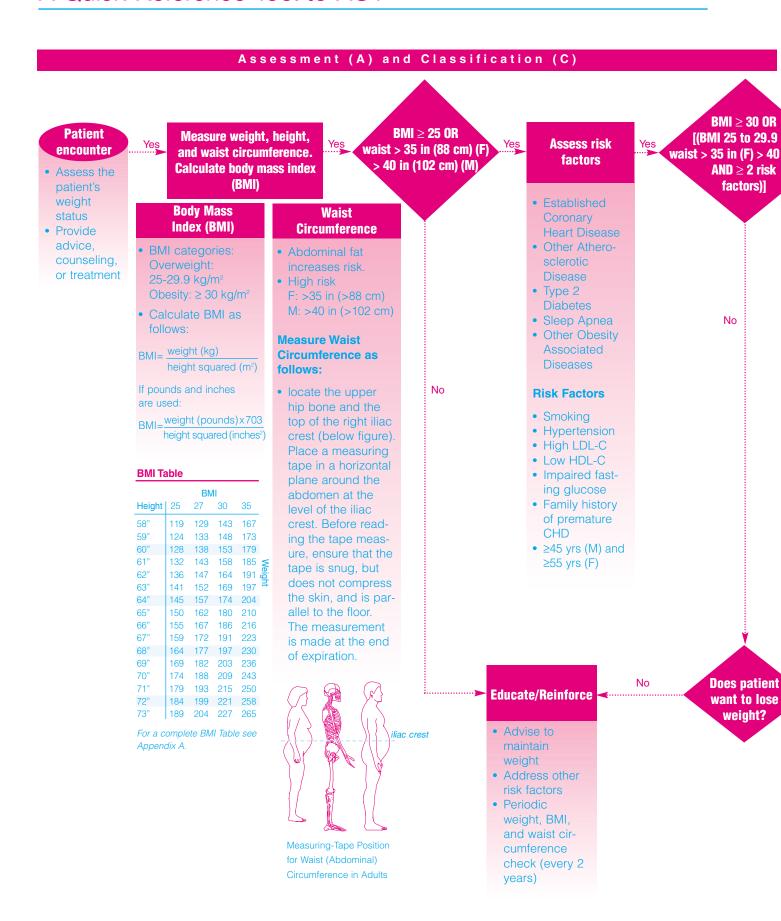
National Association of Anorexia Nervosa and Associated Disorders P.O. Box 7 Highland Park, IL 60035 (847) 831-3438 (847) 433-4632 fax http://www.anad.org American Heart Association 7272 Greenville Avenue Dallas, TX 75231-4596 (214) 706-1220 (214) 706-1341 fax 1-800-AHA-USA1 (1-800-242-8721) http://www.americanheart.org National Mental Health Association 1201 Prince Street Alexandria, Virginia 22314-2971 (703) 684-7722 (703) 684-5968 fax 1-800-969-NMHA (Information Center) http://www.nmha.org

Stroke Connection 1-800-553-6321 Hypertension Network, Inc. http://www.bloodpressure.com

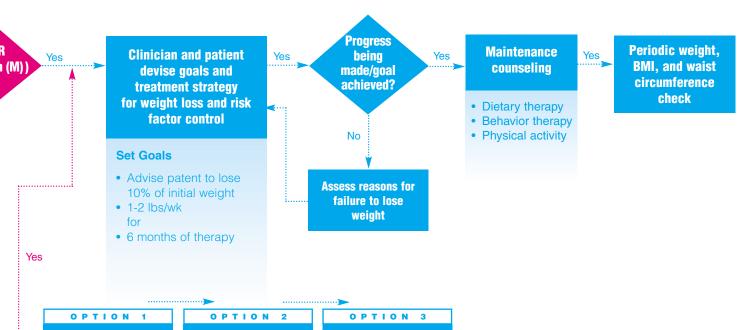
National Institute of Neurological Disorders and Stroke National Institutes of Health P.O. Box 1350 Silver Spring, MD 20911 (800) 352-9424 http://www.ninds.nih.gov

National Center on Sleep Disorders Research National Heart, Lung, and Blood Institute National Institutes of Health Two Rockledge Centre, Suite 10038 6701 Rockledge Drive, MSC 7920 Bethesda, MD 20892-7920 (301) 435-0199 (301) 480-3451 fax www.nhlbi.nih.gov and click on NCSDR

American Academy of Sleep Medicine 6301 Bandel Road, Suite 101 Rochester, MN 55901 (507) 287-6006 (507) 287-6008 fax http://www.aasmnet.org



Treatment (T)/Follow-up



BMI 25-29.9 and ≥ 2 risk factors or BMI ≥ 30

Lifestyle Therapy

- Diet: 500-1000 kcal/day reduction 30% or less total kcal from fat ≈15% total kcal from protein ≥55% of total kcal from CHO.
- Physical Activity: Initially, 30-45 mins. of moderate activity, 3-5 times a week.
 Eventually 30 mins of moderate activity on most days.
- Behavior Therapy

$\begin{aligned} \text{BMI} &\geq \textbf{27} \text{ and } \geq \textbf{2} \text{ risk} \\ \text{factors or} \\ \text{BMI} &\geq \textbf{30} \end{aligned}$

Pharmacotherapy

- Adjunct to lifestyle therapy. Consider if patient has not lost 1 lb/wk after 6 months of lifestyle therapy.
- Orlistat 120 mg or 120 mg po tid before meals
- Sibutramine -5,10,15 mg; 10 mg po qd to start may be increased to 15 mg or decreased to 5 mg.

$BMI \geq 35 \text{ and } \geq 2 \text{ risk}$ factors or $BMI \geq 40$

Weight Loss Surgery

- Consider if other weight loss attempts have failed.
- Vertical banded gastroplasty or gastric bypass
- Lifelong medical monitoring

Source: Full text of the *Practical Guide to* the *Identification, Evaluation and Treatment* of *Overweight and Obesity in Adults* is available from the National Heart, Lung and Blood Institute Health Information Center at (301) 592-8573 or can be downloaded from the NHLBI's Aim for a Healthy Weight Web page at www.nhlbi.nih.gov and click on "Aim for a Healthy Weight." Also, available from NAASO at www.naaso.org

What size is your serving?

Compare the Pyramid Servings with what you eat in a day.



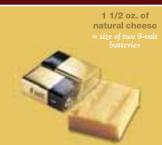
How Many Each Day?

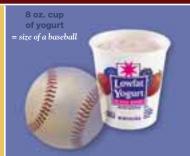
What Counts as a Serving

2 to 3
Servings

<mark>Mik</mark> Group





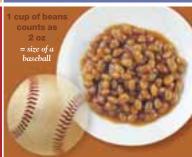


2 to 3
Servings
(total of 5 to 7 ounces

Meat & Beans Group

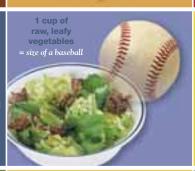






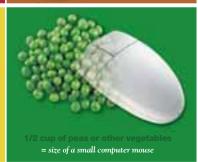
3 to 5 Servings

Vegetable Group



of fruit





2 to 4 Servings

> Fruit Group

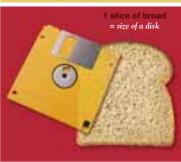


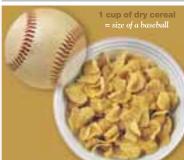




6 to 11 Servings

Group







Website Links

- PPIP Put Prevention Into Practice http://www.ahcpr.gov/clinic/ppipix.htm
- CDC Center for Disease Control http://www.cdc.gov/
- NAASO North American Association for the Study of Obesity - http://www.naaso.org
- NHLBI National Heart, Lung, and Blood Institute – <u>www.nhlbi.org</u>
- AOA American Obesity Organization www.obesity.org

Developing a Chronic Care Model of Care (A Systems Approach)

- Put Prevention Into Practice
 - AHRQ
 - www.ahrq.gov



- Improving Chronic Illness Care
 - http://improvingchroniccare.org
 - Chronic care training manual
 - ICIC Improving your practice manual
 - Tools

Systems Review

Cardiovascular

- Hypertension
- Congestive Heart Failure
- Cor Pulmonale
- Varicose Veins
- Pulmonary Embolism
- Coronary Artery Disease

Neurologic

- Stroke
- Idiopathic intracranial hypertension
- Meralgia paresthetica

Psychological

- Depression
- Body image disturbance
- Stigmatization

Respiratory

- Dyspnea
- Obstructive Sleep Apnea
- Hypoventilation Syndrome
- Pickwickian Syndrome
- Asthma

Endocrine

- Metabolic Syndrome
- Type 2 diabetes
- Dyslipidemia
- Polycystic ovarian syndrome (PCOS)/androgenicity
- Amenorrhea/infertility menstrual disorders

Systems Review

Musculoskeletal

- Hyperuricemia and gout
- Immobility
- Osteoarthritis (knees/hips)
- Low back pain
- Carpal tunnel syndrome

Integument

- Striae distensae (stretch marks)
- Stasis pigmentation of legs
- Cellulitis
- Acanthosis nigricans/skin tags
- Intertrigo, carbuncles

Gastrointestinal

- GERD
- Non-alcoholic fatty liver disease (NAFLD)
- Cholelithiasis
- Hernias
- Colon cancer

Genitourinary

- Urinary stress incontinence
- Obesity-related glomerulopathy
- Kidney stones
- Hypogonadism (M)
- Breast and uterine cancer
- Kidney cancer
- Pregnancy complications

The Metabolic Syndrome

Risk Factor	Defining Level
Abdominal Obesity	Waist Circumference
Men	> 102 cm (> 40 in)
Women	> 88 cm (> 35 in)
Triglycerides	≥ 150 mg/dL
HDL Cholesterol	
Men	< 40 mg/dL
Women	< 50 mg/dL
Blood Pressure	≥ 130 / ≥ 85 mm Hg
Fasting Glucose	≥ 110 mg/dL

The Office Environment Physical Environment

- Accessibility and comfort are key
- Large doorways, hallways, restrooms
- Seating
 - Sturdy, armless chairs and high, wide, firm sofas
 ≥ 19" high
- Reading material and artwork
 - Neutral (non-food, thinness, glamour related)
- Promotional materials for office products, services should be professional without sales pressure

The Office Environment Equipment

- Large adult thigh and blood pressure cuffs, large tape measure
- Large exam tables and gowns
- Scales that weigh up to 500 lbs or more
- Exam tables
 - Sturdy, wide and bolted to the floor to prevent tipping

The Office Environment Materials

- Educational and behavioral brochures
- Pamphlets and handouts on BMI, obesity associated diseases, diet, exercise, medications, and surgery
- Journals to help record food intake, emotional, physical activity, snacks, etc.

Staff

- "The cornerstone of effective obesity treatment is grounded in skillful and empathetic physician-patient communication"
 - The Therapeutic Bond
- Empathetic, compassionate, supportive, trustworthy, nonjudgmental, caring
- Optimistic hope is an important medicine
- Healthy role models, helpful, kind

Types of Surgery

Gastric Bypass

They make a little pouch, they hook up the stomach to a loop of the duodenum and brought up. The duodenum is then hooked up into the jejunum. The jejunum is brought up. This loop of jejunum should not be too long. The stomach is intact and the secretions from the duodenum go into the (inaudible). There are variations in how bypassing is performed but this is the simple principle of a bypass.

Gastroplasty

 There's vertical banded gastroplasty, which creates a band along the stomach and then leads to a little band. This procedure is not popular any more, most likely because it produces less weight loss than gastric bypass.

Gastric Banding

 This is a technical device, in which a band is placed around the top of the stomach. The opening to the band is left external and the surgeon can tighten the band or loosen it depending on how the patient is doing.

Side Effects & Complications

1 in 200-300 patients in the US die from bariatric surgery

- Iron deficiency
- Vitamin B₁₂ deficiency
- Folic Acid deficiency
- Dehydration
- Vitamin A deficiency
- Electrolyte deficiency
- Protein deficiency
- Hyperparathyroidism
- Follow up of nutritional and metabolic problems after bariatric surgery K. Fujioka Diabetes Care 28:481-484,2005

- Nausea
- Vomiting
- Abdominal pain
- Constipation
- Marginal ulceration
- Gallstones
- Bleeding ulcer
- Obstruction of the stomach outlet

Referral Options

- Nutritionist/Registered Dietitian
- Behavior therapist
- Psychiatrist/Psychologist
- Surgery
- Physical therapy
- CD rehab

5 Steps to Behavior Change

- 1. Have patient identify specific goals
 - Activity (ie, one specific goal for exercise)
 - Intake (ie, one specific goal for diet)
- 2. Identify when, where, and how behaviors will be performed
- 3. Have patient keep record of behavior change (i.e., diet and activity diaries)
- 4. Follow-up progress at next treatment visit
- Congratulate patient on successes; do not criticize shortcomings

Broaching the Subject: Words to Use

- "Are you concerned about your weight?"
- "What is hard about managing your weight?"
- "How does being overweight affect you?"
- "What can't you do now that you would like to do if you weighed less?"
- "What kind of help do you need to manage your weight?"

How <u>important</u> is it for you to get your weight under control?



How <u>confident</u> are you to that you can get your weight under control?



New Food Pyramid & Dietary Guidelines



Mix up your choices within each food group.



Focus on fruits. Eat a variety of fruits—whether fresh, frozen, canned, or dried—rather than fruit juice for most of your fruit choices. For a 2,000-calorie diet, you will need 2 cups of fruit each day (for example, 1 small banana, 1 large orange, and ½ cup of dried apricots or peaches).



Vary your veggies. Eat more dark green veggies, such as broccoli, kale, and other dark leafy greens; orange veggies, such as carrots, sweetpotatoes, pumpkin, and winter squash; and beans and peas, such as pinto beans, kidney beans, black beans, garbanzo beans, split peas, and lentils.



Get your calcium-rich foods. Get 3 cups of lowfat or fat-free milk—or an equivalent amount of low-fat yogurt and/or low-fat cheese (1½ ounces of cheese equals 1 cup of milk)—every day. For kids aged 2 to 8, it's 2 cups of milk. If you don't or can't consume milk, choose lactose-free milk products and/or calcium-fortified foods and beverages.



Make half your grains whole. Eat at least 3 ounces of whole-grain cereals, breads, crackers, rice, or pasta every day. One ounce is about 1 slice of bread, 1 cup of breakfast cereal, or ½ cup of cooked rice or pasta. Look to see that grains such as wheat, rice, oats, or corn are referred to as "whole" in the list of ingredients.



Go lean with protein. Choose lean meats and poultry. Bake it, broil it, or grill it. And vary your protein choices—with more fish, beans, peas, nuts, and seeds.

Know the limits on fats, salt, and sugars. Read the Nutrition Facts label on foods. Look for foods low in saturated fats and *trans* fats. Choose and prepare foods and beverages with little salt (sodium) and/or added sugars (caloric sweeteners).

Dietary Factors to Address

Eating Out

Portion Size

Fat



Caloric Beverages **Energy Density**

Fiber



Pre-Visit Questionnaire

Name	
Gender	
HeightCurrent Weight _	
Birth Date Race _	Marital Status
Number of Children and their age	
Lifetime maximum weight	Perceived healthy weight
Age at which you first became over 5	0 lbs overweight
Number of times you have lost 20 lbs	or more and when
Reason you want to lose weight	
Reasons you think you are overweigh	
	nily members
Number of blood relatives with diabe	tes and relation to you
Number of blood relatives with high	blood pressure and relation to you
Number of blood relatives with heart	disease and relation to you
Do you smoke and/or drink alcohol?	Frequency
Do you have anxiety or depression? _	
Please list past weight loss methods,	weight loss, and approx. year:

CDC Table for Calculated Body Mass Index Values for Selected Heights and Weights for Ages 2 to 20 Years

Body Mass Index (BMI) is determined as follows:

English Formula:

Weight in pounds \div Height in inches \div Height in inches x 703 = BMI

Metric Formula:

Weight in kilograms \div Height in meters \div Height in meters = BMI

The above BMI formulas have already been calculated and are presented in this table entitled *Calculated Body Mass Index Values for Selected Heights and Weights for Ages 2 to 20 Years*. To use the BMI table, first locate the child's height and weight in the height and weight ranges listed in the upper right corner of each page. The table of contents contains a list of height and weight ranges and may be used to locate the page numbers for specific BMI values. Please note that some height and weight measurements are found on more than one page, so be sure that *both* the height and weight measurements are within the range listed at the top of the page. Weight measurements are listed in increasing sequential order. Once the exact page has been located in the table, the point where height and weight intersect represents the BMI value. This value is then plotted on the BMI-for-age growth chart to determine whether the child is within a normal growth pattern, overweight, at risk of becoming overweight, or underweight.

In the table, English height measurements (inches) are shown in 1/2-inch increments for heights below 48 inches and 1-inch increments for heights between 48 and 78 inches. English weight measurements (pounds) are shown in 1/2-pound increments for weights under 60 pounds, 1-pound increments for weights between 60 and 110 pounds, and 2-pound increments for weights between 112 and 250 pounds. The corresponding metric values in centimeters and kilograms are included next to the English values in the table. Whenever a child's specific height or weight measurement is not listed, round to the closest number in the table.

June 2000





		Wei	ght			When	ever a chile	d's specific	c height or	weight me	asuremer	nt is not lisi	ted, round	to the clos	sest numbe	er in the ta	ble.		
		Kg	8.2	8.4	8.6	8.8	9.1	9.3	9.5	9.8	10.0	10.2	10.4	10.7	10.9	11.1	11.3	11.6	11.8
Heig	ght	Lb	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	24	24.5	25	25.5	26
Cm	In																		
73.7	29		15.0	15.5	15.9	16.3	16.7	17.1	17.6	18.0	18.4	18.8	19.2	19.6	20.1	20.5	20.9	21.3	21.7
74.9	29.5		14.5	14.9	15.3	15.8	16.2	16.6	17.0	17.4	17.8	18.2	18.6	19.0	19.4	19.8	20.2	20.6	21.0
76.2	30		14.1	14.5	14.8	15.2	15.6	16.0	16.4	16.8	17.2	17.6	18.0	18.4	18.7	19.1	19.5	19.9	20.3
77.5	30.5		13.6	14.0	14.4	14.7	15.1	15.5	15.9	16.2	16.6	17.0	17.4	17.8	18.1	18.5	18.9	19.3	19.7
78.7	31		13.2	13.5	13.9	14.3	14.6	15.0	15.4	15.7	16.1	16.5	16.8	17.2	17.6	17.9	18.3	18.7	19.0
80.0	31.5			13.1	13.5	13.8	14.2	14.5	14.9	15.2	15.6	15.9	16.3	16.7	17.0	17.4	17.7	18.1	18.4
81.3	32				13.0	13.4	13.7	14.1	14.4	14.8	15.1	15.4	15.8	16.1	16.5	16.8	17.2	17.5	17.9
82.6	32.5						13.3	13.6	14.0	14.3	14.6	15.0	15.3	15.6	16.0	16.3	16.6	17.0	17.3
83.8	33							13.2	13.6	13.9	14.2	14.5	14.8	15.2	15.5	15.8	16.1	16.5	16.8
85.1	33.5								13.2	13.5	13.8	14.1	14.4	14.7	15.0	15.3	15.7	16.0	16.3
86.4	34									13.1	13.4	13.7	14.0	14.3	14.6	14.9	15.2	15.5	15.8
87.6	34.5											13.3	13.6	13.9	14.2	14.5	14.8	15.1	15.4
88.9	35												13.2	13.5	13.8	14.1	14.3	14.6	14.9
90.2	35.5													13.1	13.4	13.7	13.9	14.2	14.5
91.4	36														13.0	13.3	13.6	13.8	14.1
92.7	36.5																13.2	13.5	13.7
94.0	37																	13.1	13.4

		Wei	ght			When	ever a chii	ld's specifi	c height or	weight m	easuremei	nt is not lis	ted, round	to the clo	sest numb	er in the ta	ıble.		
		Kg	12.0	12.2	12.5	12.7	12.9	13.2	13.4	13.6	13.8	14.1	14.3	14.5	14.7	15.0	15.2	15.4	15.6
Heig	ht	Lb	26.5	27	27.5	28	28.5	29	29.5	30	30.5	31	31.5	32	32.5	33	33.5	34	34.5
Cm																			
73.7	29		22.2	22.6	23.0	23.4	23.8	24.2	24.7	25.1	25.5	25.9	26.3	26.8	27.2	27.6	28.0	28.4	28.8
74.9	29.5		21.4	21.8	22.2	22.6	23.0	23.4	23.8	24.2	24.6	25.0	25.4	25.9	26.3	26.7	27.1	27.5	27.9
76.2	30		20.7	21.1	21.5	21.9	22.3	22.7	23.0	23.4	23.8	24.2	24.6	25.0	25.4	25.8	26.2	26.6	27.0
77.5	30.5		20.0	20.4	20.8	21.2	21.5	21.9	22.3	22.7	23.1	23.4	23.8	24.2	24.6	24.9	25.3	25.7	26.1
78.7	31		19.4	19.8	20.1	20.5	20.9	21.2	21.6	21.9	22.3	22.7	23.0	23.4	23.8	24.1	24.5	24.9	25.2
80.0	31.5		18.8	19.1	19.5	19.8	20.2	20.5	20.9	21.3	21.6	22.0	22.3	22.7	23.0	23.4	23.7	24.1	24.4
81.3	32		18.2	18.5	18.9	19.2	19.6	19.9	20.3	20.6	20.9	21.3	21.6	22.0	22.3	22.7	23.0	23.3	23.7
82.6	32.5		17.6	18.0	18.3	18.6	19.0	19.3	19.6	20.0	20.3	20.6	21.0	21.3	21.6	22.0	22.3	22.6	23.0
83.8	33		17.1	17.4	17.8	18.1	18.4	18.7	19.0	19.4	19.7	20.0	20.3	20.7	21.0	21.3	21.6	22.0	22.3
	33.5		16.6	16.9	17.2	17.5	17.9	18.2	18.5	18.8	19.1	19.4	19.7	20.0	20.4	20.7	21.0	21.3	21.6
86.4	34		16.1	16.4	16.7	17.0	17.3	17.6	17.9	18.2	18.5	18.9	19.2	19.5	19.8	20.1	20.4	20.7	21.0
87.6	34.5		15.7	15.9	16.2	16.5	16.8	17.1	17.4	17.7	18.0	18.3	18.6	18.9	19.2	19.5	19.8	20.1	20.4
88.9	35		15.2	15.5	15.8	16.1	16.4	16.6	16.9	17.2	17.5	17.8	18.1	18.4	18.7	18.9	19.2	19.5	19.8
90.2	35.5		14.8	15.1	15.3	15.6	15.9	16.2	16.5	16.7	17.0	17.3	17.6	17.9	18.1	18.4	18.7	19.0	19.2
91.4	36		14.4	14.6	14.9	15.2	15.5	15.7	16.0	16.3	16.5	16.8	17.1	17.4	17.6	17.9	18.2	18.4	18.7
	36.5		14.0	14.2	14.5	14.8	15.0	15.3	15.6	15.8	16.1	16.4	16.6	16.9	17.2	17.4	17.7	17.9	18.2
94.0	37		13.6	13.9	14.1	14.4	14.6	14.9	15.2	15.4	15.7	15.9	16.2	16.4	16.7	16.9	17.2	17.5	17.7
95.3	37.5		13.2	13.5	13.7	14.0	14.2	14.5	14.7	15.0	15.2	15.5	15.7	16.0	16.2	16.5	16.7	17.0	17.2
96.5	38			13.1	13.4	13.6	13.9	14.1	14.4	14.6	14.9	15.1	15.3	15.6	15.8	16.1	16.3	16.6	16.8
97.8	38.5				13.0	13.3	13.5	13.8	14.0	14.2	14.5	14.7	14.9	15.2	15.4	15.7	15.9	16.1	16.4
99.1	39						13.2	13.4	13.6	13.9	14.1	14.3	14.6	14.8	15.0	15.3	15.5	15.7	15.9
100.3								13.1	13.3	13.5	13.7	14.0	14.2	14.4	14.6	14.9	15.1	15.3	15.5
	1									13.2	13.4	13.6	13.8	14.1	14.3	14.5	14.7	14.9	15.2
102.9											13.1	13.3	13.5	13.7	13.9	14.1	14.4	14.6	14.8
104.1													13.2	13.4	13.6	13.8	14.0	14.2	14.4
105.4														13.1	13.3	13.5	13.7	13.9	14.1
106.7																13.2	13.4	13.6	13.8
108.0																	13.0	13.2	13.4
109.2	43																		13.1

		Wei	ght			Whene	ever a chile	d's specific	: height or	weight me	asuremen	t is not list	ed, round	to the clos	est numbe	er in the ta	ble.		
		Kg	15.9	16.1	16.3	16.6	16.8	17.0	17.2	17.5	17.7	17.9	18.1	18.4	18.6	18.8	19.1	19.3	19.5
Heig	ht	Lb	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5	43
Cm	In																		
73.7	29		29.3	29.7	30.1	30.5	30.9	31.3	31.8	32.2	32.6	33.0	33.4	33.9	34.3	34.7			
74.9	29.5		28.3	28.7	29.1	29.5	29.9	30.3	30.7	31.1	31.5	31.9	32.3	32.7	33.1	33.5	33.9	34.3	34.7
76.2	30		27.3	27.7	28.1	28.5	28.9	29.3	29.7	30.1	30.5	30.9	31.2	31.6	32.0	32.4	32.8	33.2	33.6
77.5	30.5		26.5	26.8	27.2	27.6	28.0	28.3	28.7	29.1	29.5	29.9	30.2	30.6	31.0	31.4	31.7	32.1	32.5
78.7	31		25.6	26.0	26.3	26.7	27.1	27.4	27.8	28.2	28.5	28.9	29.3	29.6	30.0	30.4	30.7	31.1	31.5
80.0	31.5		24.8	25.2	25.5	25.9	26.2	26.6	26.9	27.3	27.6	28.0	28.3	28.7	29.1	29.4	29.8	30.1	30.5
81.3	32		24.0	24.4	24.7	25.1	25.4	25.7	26.1	26.4	26.8	27.1	27.5	27.8	28.2	28.5	28.8	29.2	29.5
82.6	32.5		23.3	23.6	24.0	24.3	24.6	25.0	25.3	25.6	26.0	26.3	26.6	27.0	27.3	27.6	28.0	28.3	28.6
83.8	33		22.6	22.9	23.2	23.6	23.9	24.2	24.5	24.9	25.2	25.5	25.8	26.1	26.5	26.8	27.1	27.4	27.8
85.1	33.5		21.9	22.2	22.6	22.9	23.2	23.5	23.8	24.1	24.4	24.7	25.1	25.4	25.7	26.0	26.3	26.6	26.9
86.4	34		21.3	21.6	21.9	22.2	22.5	22.8	23.1	23.4	23.7	24.0	24.3	24.6	24.9	25.2	25.5	25.8	26.2
87.6	34.5		20.7	21.0	21.3	21.6	21.9	22.2	22.4	22.7	23.0	23.3	23.6	23.9	24.2	24.5	24.8	25.1	25.4
88.9	35		20.1	20.4	20.7	20.9	21.2	21.5	21.8	22.1	22.4	22.7	23.0	23.2	23.5	23.8	24.1	24.4	24.7
90.2	35.5		19.5	19.8	20.1	20.4	20.6	20.9	21.2	21.5	21.8	22.0	22.3	22.6	22.9	23.2	23.4	23.7	24.0
91.4	36		19.0	19.3	19.5	19.8	20.1	20.3	20.6	20.9	21.2	21.4	21.7	22.0	22.2	22.5	22.8	23.1	23.3
92.7	36.5		18.5	18.7	19.0	19.3	19.5	19.8	20.1	20.3	20.6	20.8	21.1	21.4	21.6	21.9	22.2	22.4	22.7
94.0	37		18.0	18.2	18.5	18.7	19.0	19.3	19.5	19.8	20.0	20.3	20.5	20.8	21.1	21.3	21.6	21.8	22.1
95.3	37.5		17.5	17.7	18.0	18.2	18.5	18.7	19.0	19.2	19.5	19.7	20.0	20.2	20.5	20.7	21.0	21.2	21.5
96.5	38		17.0	17.3	17.5	17.8	18.0	18.3	18.5	18.7	19.0	19.2	19.5	19.7	20.0	20.2	20.4	20.7	20.9
97.8	38.5		16.6	16.8	17.1	17.3	17.6	17.8	18.0	18.3	18.5	18.7	19.0	19.2	19.4	19.7	19.9	20.2	20.4
99.1	39		16.2	16.4	16.6	16.9	17.1	17.3	17.6	17.8	18.0	18.3	18.5	18.7	19.0	19.2	19.4	19.6	19.9
100.3			15.8	16.0	16.2	16.4	16.7	16.9	17.1	17.3	17.6	17.8	18.0	18.2	18.5	18.7	18.9	19.2	19.4
101.6			15.4	15.6	15.8	16.0	16.3	16.5	16.7	16.9	17.1	17.4	17.6	17.8	18.0	18.2	18.5	18.7	18.9
102.9			15.0	15.2	15.4	15.6	15.9	16.1	16.3	16.5	16.7	16.9	17.1	17.4	17.6	17.8	18.0	18.2	18.4
104.1	41		14.6	14.8	15.1	15.3	15.5	15.7	15.9	16.1	16.3	16.5	16.7	16.9	17.1	17.4	17.6	17.8	18.0
105.4 106.7	42		14.3	14.5	14.7	14.9	15.1	15.3	15.5	15.7	15.9	16.1	16.3	16.5	16.7	16.9	17.1	17.3	17.6
108.0			13.9	14.1	14.3	14.5	14.7	14.9	15.1 14.8	15.3 15.0	15.5 15.2	15.7 15.4	15.9 15.6	16.1 15.8	16.3 16.0	16.5 16.2	16.7 16.3	16.9	17.1 16.7
			13.6		14.0		14.4	14.6	_									16.5	
109.2	43	l	13.3	13.5	13.7	13.9	14.1	14.3	14.4	14.6	14.8	15.0	15.2	15.4	15.6	15.8	16.0	16.2	16.4

		Weig	ght			Whe	never a ch	ild's specifi	ic height or	weight me	asuremen	t is not liste	ed, round to	the closes	st number i	in the table			
		Kg	15.9	16.1	16.3	16.6	16.8	17.0	17.2	17.5	17.7	17.9	18.1	18.4	18.6	18.8	19.1	19.3	19.5
Height		Lb	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5	43
Cm In																			
110.5 43.	.5		13.0	13.2	13.4	13.6	13.7	13.9	14.1	14.3	14.5	14.7	14.9	15.0	15.2	15.4	15.6	15.8	16.0
111.8 44					13.1	13.3	13.4	13.6	13.8	14.0	14.2	14.3	14.5	14.7	14.9	15.1	15.3	15.4	15.6
113.0 44.	.5						13.1	13.3	13.5	13.7	13.8	14.0	14.2	14.4	14.6	14.7	14.9	15.1	15.3
114.3 45								13.0	13.2	13.4	13.5	13.7	13.9	14.1	14.2	14.4	14.6	14.8	14.9
115.6 45.	.5									13.1	13.2	13.4	13.6	13.8	13.9	14.1	14.3	14.4	14.6
116.8 46												13.1	13.3	13.5	13.6	13.8	14.0	14.1	14.3
118.1 46.	.5												13.0	13.2	13.3	13.5	13.7	13.8	14.0
119.4 47															13.0	13.2	13.4	13.5	13.7
120.7 47.	.5																13.1	13.2	13.4
121.9 48																			13.1

		Wei	ght			When	ever a chi	ld's specifi	c height o	r weight m	easureme	nt is not lis	sted, round	to the clo	sest numb	er in the ta	able.		
		Kg	19.7	20.0	20.2	20.4	20.6	20.9	21.1	21.3	21.5	21.8	22.0	22.2	22.5	22.7	22.9	23.1	23.4
Heig	ht	Lb	43.5	44	44.5	45	45.5	46	46.5	47	47.5	48	48.5	49	49.5	50	50.5	51	51.5
Cm	In																		
76.2	30	1	34.0	34.4	34.8														
77.5	30.5		32.9	33.3	33.6	34.0	34.4	34.8											
78.7	31		31.8	32.2	32.6	32.9	33.3	33.7	34.0	34.4	34.8								
80.0	31.5		30.8	31.2	31.5	31.9	32.2	32.6	32.9	33.3	33.7	34.0	34.4	34.7					
81.3	32		29.9	30.2	30.6	30.9	31.2	31.6	31.9	32.3	32.6	33.0	33.3	33.6	34.0	34.3	34.7		
82.6	32.5		29.0	29.3	29.6	30.0	30.3	30.6	31.0	31.3	31.6	32.0	32.3	32.6	32.9	33.3	33.6	33.9	34.3
83.8	33		28.1	28.4	28.7	29.1	29.4	29.7	30.0	30.3	30.7	31.0	31.3	31.6	32.0	32.3	32.6	32.9	33.2
85.1	33.5		27.3	27.6	27.9	28.2	28.5	28.8	29.1	29.4	29.8	30.1	30.4	30.7	31.0	31.3	31.6	32.0	32.3
86.4	34		26.5	26.8	27.1	27.4	27.7	28.0	28.3	28.6	28.9	29.2	29.5	29.8	30.1	30.4	30.7	31.0	31.3
87.6	34.5		25.7	26.0	26.3	26.6	26.9	27.2	27.5	27.8	28.1	28.4	28.6	28.9	29.2	29.5	29.8	30.1	30.4
88.9	35		25.0	25.3	25.5	25.8	26.1	26.4	26.7	27.0	27.3	27.5	27.8	28.1	28.4	28.7	29.0	29.3	29.6
90.2	35.5		24.3	24.5	24.8	25.1	25.4	25.7	25.9	26.2	26.5	26.8	27.1	27.3	27.6	27.9	28.2	28.5	28.7
91.4	36		23.6	23.9	24.1	24.4	24.7	25.0	25.2	25.5	25.8	26.0	26.3	26.6	26.9	27.1	27.4	27.7	27.9
92.7	36.5		23.0	23.2	23.5	23.7	24.0	24.3	24.5	24.8	25.1	25.3	25.6	25.9	26.1	26.4	26.7	26.9	27.2
94.0	37		22.3	22.6	22.9	23.1	23.4	23.6	23.9	24.1	24.4	24.7	24.9	25.2	25.4	25.7	25.9	26.2	26.4
95.3	37.5		21.7	22.0	22.2	22.5	22.7	23.0	23.2	23.5	23.7	24.0	24.2	24.5	24.7	25.0	25.2	25.5	25.7
96.5	38		21.2	21.4	21.7	21.9	22.2	22.4	22.6	22.9	23.1	23.4	23.6	23.9	24.1	24.3	24.6	24.8	25.1
97.8	38.5		20.6	20.9	21.1	21.3	21.6	21.8	22.1	22.3	22.5	22.8	23.0	23.2	23.5	23.7	24.0	24.2	24.4
99.1	39		20.1	20.3	20.6	20.8	21.0	21.3	21.5	21.7	22.0	22.2	22.4	22.6	22.9	23.1	23.3	23.6	23.8
100.3			19.6	19.8	20.1	20.3	20.5	20.7	21.0	21.2	21.4	21.6	21.9	22.1	22.3	22.5	22.8	23.0	23.2
101.6	40		19.1	19.3	19.6	19.8	20.0	20.2	20.4	20.7	20.9	21.1	21.3	21.5	21.8	22.0	22.2	22.4	22.6
102.9			18.6	18.9	19.1	19.3	19.5	19.7	19.9	20.1	20.4	20.6	20.8	21.0	21.2	21.4	21.6	21.9	22.1
104.1			18.2	18.4	18.6	18.8	19.0	19.2	19.4	19.7	19.9	20.1	20.3	20.5	20.7	20.9	21.1	21.3	21.5
105.4			17.8	18.0	18.2	18.4	18.6	18.8	19.0	19.2	19.4	19.6	19.8	20.0	20.2	20.4	20.6	20.8	21.0
106.7	42		17.3	17.5	17.7	17.9	18.1	18.3	18.5	18.7	18.9	19.1	19.3	19.5	19.7	19.9	20.1	20.3	20.5
108.0	42.5		16.9	17.1	17.3	17.5	17.7	17.9	18.1	18.3	18.5	18.7	18.9	19.1	19.3	19.5	19.7	19.9	20.0
109.2	43		16.5	16.7	16.9	17.1	17.3	17.5	17.7	17.9	18.1	18.3	18.4	18.6	18.8	19.0	19.2	19.4	19.6
110.5			16.2	16.3	16.5	16.7	16.9	17.1	17.3	17.5	17.6	17.8	18.0	18.2	18.4	18.6	18.8	18.9	19.1
111.8	44	l	15.8	16.0	16.2	16.3	16.5	16.7	16.9	17.1	17.2	17.4	17.6	17.8	18.0	18.2	18.3	18.5	18.7

		Wei	ght			Wher	never a chi	ld's specifi	c height o	r weight m	easureme	nt is not lis	ted, round	I to the clo	sest numb	er in the ta	able.		
		Kg	19.7	20.0	20.2	20.4	20.6	20.9	21.1	21.3	21.5	21.8	22.0	22.2	22.5	22.7	22.9	23.1	23.4
Heigh	t	Lb	43.5	44	44.5	45	45.5	46	46.5	47	47.5	48	48.5	49	49.5	50	50.5	51	51.5
Cm I	n																		
113.0 4	14.5		15.4	15.6	15.8	16.0	16.2	16.3	16.5	16.7	16.9	17.0	17.2	17.4	17.6	17.8	17.9	18.1	18.3
114.3 4	15		15.1	15.3	15.5	15.6	15.8	16.0	16.1	16.3	16.5	16.7	16.8	17.0	17.2	17.4	17.5	17.7	17.9
115.6 4	15.5		14.8	14.9	15.1	15.3	15.5	15.6	15.8	16.0	16.1	16.3	16.5	16.6	16.8	17.0	17.2	17.3	17.5
116.8 4	16		14.5	14.6	14.8	15.0	15.1	15.3	15.5	15.6	15.8	15.9	16.1	16.3	16.4	16.6	16.8	16.9	17.1
118.1 4	16.5		14.1	14.3	14.5	14.6	14.8	15.0	15.1	15.3	15.4	15.6	15.8	15.9	16.1	16.3	16.4	16.6	16.7
119.4 4	17		13.8	14.0	14.2	14.3	14.5	14.6	14.8	15.0	15.1	15.3	15.4	15.6	15.8	15.9	16.1	16.2	16.4
120.7 4	17.5		13.6	13.7	13.9	14.0	14.2	14.3	14.5	14.6	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	16.0
121.9 4	18		13.3	13.4	13.6	13.7	13.9	14.0	14.2	14.3	14.5	14.6	14.8	15.0	15.1	15.3	15.4	15.6	15.7
124.5 4	19				13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.3	14.5	14.6	14.8	14.9	15.1
127.0 5	50								13.1	13.2	13.4	13.5	13.6	13.8	13.9	14.1	14.2	14.3	14.5
129.5 5	51												13.1	13.2	13.4	13.5	13.7	13.8	13.9
132.1 5	52															13.0	13.1	13.3	13.4

		Wei	ght			When	ever a chi	ld's specifi	c height o	r weight m	easureme	nt is not lis	sted, round	I to the clo	sest numb	er in the ta	able.		
		Kg	23.6	23.8	24.0	24.3	24.5	24.7	24.9	25.2	25.4	25.6	25.9	26.1	26.3	26.5	26.8	27.0	27.2
Heig	ıht	Lb	52	52.5	53	53.5	54	54.5	55	55.5	56	56.5	57	57.5	58	58.5	59	59.5	60
Cm	In																		
82.6	32.5	1	34.6	34.9															
83.8	33		33.6	33.9	34.2	34.5	34.9												
85.1	33.5		32.6	32.9	33.2	33.5	33.8	34.1	34.5	34.8									
86.4	34		31.6	31.9	32.2	32.5	32.8	33.1	33.5	33.8	34.1	34.4	34.7	35.0					
87.6	34.5		30.7	31.0	31.3	31.6	31.9	32.2	32.5	32.8	33.1	33.4	33.7	34.0	34.3	34.6	34.9		
88.9	35		29.8	30.1	30.4	30.7	31.0	31.3	31.6	31.9	32.1	32.4	32.7	33.0	33.3	33.6	33.9	34.1	34.4
90.2	35.5		29.0	29.3	29.6	29.8	30.1	30.4	30.7	31.0	31.2	31.5	31.8	32.1	32.4	32.6	32.9	33.2	33.5
91.4	36		28.2	28.5	28.8	29.0	29.3	29.6	29.8	30.1	30.4	30.7	30.9	31.2	31.5	31.7	32.0	32.3	32.5
92.7	36.5		27.4	27.7	28.0	28.2	28.5	28.8	29.0	29.3	29.6	29.8	30.1	30.3	30.6	30.9	31.1	31.4	31.7
94.0	37		26.7	27.0	27.2	27.5	27.7	28.0	28.2	28.5	28.8	29.0	29.3	29.5	29.8	30.0	30.3	30.6	30.8
95.3	37.5		26.0	26.2	26.5	26.7	27.0	27.2	27.5	27.7	28.0	28.2	28.5	28.7	29.0	29.2	29.5	29.7	30.0
96.5	38		25.3	25.6	25.8	26.0	26.3	26.5	26.8	27.0	27.3	27.5	27.8	28.0	28.2	28.5	28.7	29.0	29.2
97.8	38.5		24.7	24.9	25.1	25.4	25.6	25.9	26.1	26.3	26.6	26.8	27.0	27.3	27.5	27.7	28.0	28.2	28.5
99.1	39		24.0	24.3	24.5	24.7	25.0	25.2	25.4	25.7	25.9	26.1	26.3	26.6	26.8	27.0	27.3	27.5	27.7
100.3	39.5		23.4	23.7	23.9	24.1	24.3	24.6	24.8	25.0	25.2	25.5	25.7	25.9	26.1	26.4	26.6	26.8	27.0
101.6			22.8	23.1	23.3	23.5	23.7	23.9	24.2	24.4	24.6	24.8	25.0	25.3	25.5	25.7	25.9	26.1	26.4
102.9	40.5		22.3	22.5	22.7	22.9	23.1	23.4	23.6	23.8	24.0	24.2	24.4	24.6	24.9	25.1	25.3	25.5	25.7
104.1			21.7	22.0	22.2	22.4	22.6	22.8	23.0	23.2	23.4	23.6	23.8	24.0	24.3	24.5	24.7	24.9	25.1
105.4	41.5		21.2	21.4	21.6	21.8	22.0	22.2	22.5	22.7	22.9	23.1	23.3	23.5	23.7	23.9	24.1	24.3	24.5
106.7			20.7	20.9	21.1	21.3	21.5	21.7	21.9	22.1	22.3	22.5	22.7	22.9	23.1	23.3	23.5	23.7	23.9
108.0			20.2	20.4	20.6	20.8	21.0	21.2	21.4	21.6	21.8	22.0	22.2	22.4	22.6	22.8	23.0	23.2	23.4
109.2			19.8	20.0	20.2	20.3	20.5	20.7	20.9	21.1	21.3	21.5	21.7	21.9	22.1	22.2	22.4	22.6	22.8
110.5			19.3	19.5	19.7	19.9	20.1	20.2	20.4	20.6	20.8	21.0	21.2	21.4	21.6	21.7	21.9	22.1	22.3
111.8			18.9	19.1	19.2	19.4	19.6	19.8	20.0	20.2	20.3	20.5	20.7	20.9	21.1	21.2	21.4	21.6	21.8
113.0	44.5		18.5	18.6	18.8	19.0	19.2	19.3	19.5	19.7	19.9	20.1	20.2	20.4	20.6	20.8	20.9	21.1	21.3
114.3			18.1	18.2	18.4	18.6	18.7	18.9	19.1	19.3	19.4	19.6	19.8	20.0	20.1	20.3	20.5	20.7	20.8
115.6	45.5		17.7 17.3	17.8 17.4	18.0 17.6	18.2 17.8	18.3 17.9	18.5 18.1	18.7 18.3	18.8 18.4	19.0 18.6	19.2 18.8	19.4 18.9	19.5 19.1	19.7 19.3	19.9 19.4	20.0	20.2	20.4
116.8																			19.9
118.1	40.5	l	16.9	17.1	17.2	17.4	17.6	17.7	17.9	18.0	18.2	18.4	18.5	18.7	18.9	19.0	19.2	19.3	19.5

		Wei	ght			Wher	never a chi	ild's specifi	ic height o	r weight m	easureme	nt is not lis	sted, round	d to the clo	sest numb	per in the t	able.		
		Kg	23.6	23.8	24.0	24.3	24.5	24.7	24.9	25.2	25.4	25.6	25.9	26.1	26.3	26.5	26.8	27.0	27.2
Heig	ht	Lb	52	52.5	53	53.5	54	54.5	55	55.5	56	56.5	57	57.5	58	58.5	59	59.5	60
Cm	In																		
119.4	47		16.6	16.7	16.9	17.0	17.2	17.3	17.5	17.7	17.8	18.0	18.1	18.3	18.5	18.6	18.8	18.9	19.1
120.7	47.5		16.2	16.4	16.5	16.7	16.8	17.0	17.1	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	18.5	18.7
121.9	48		15.9	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	17.5	17.7	17.9	18.0	18.2	18.3
124.5	49		15.2	15.4	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6
127.0	50		14.6	14.8	14.9	15.0	15.2	15.3	15.5	15.6	15.7	15.9	16.0	16.2	16.3	16.5	16.6	16.7	16.9
129.5	51		14.1	14.2	14.3	14.5	14.6	14.7	14.9	15.0	15.1	15.3	15.4	15.5	15.7	15.8	15.9	16.1	16.2
132.1	52		13.5	13.7	13.8	13.9	14.0	14.2	14.3	14.4	14.6	14.7	14.8	15.0	15.1	15.2	15.3	15.5	15.6
134.6	53		13.0	13.1	13.3	13.4	13.5	13.6	13.8	13.9	14.0	14.1	14.3	14.4	14.5	14.6	14.8	14.9	15.0
137.2	54						13.0	13.1	13.3	13.4	13.5	13.6	13.7	13.9	14.0	14.1	14.2	14.3	14.5
139.7	55										13.0	13.1	13.2	13.4	13.5	13.6	13.7	13.8	13.9
142.2	56														13.0	13.1	13.2	13.3	13.5

		Wei	ght			When	never a chi	ld's specifi	c height o	r weight m	easureme	nt is not lis	sted, rounc	to the clo	sest numb	er in the ta	able.		
		Kg	27.7	28.1	28.6	29.0	29.5	29.9	30.4	30.8	31.3	31.8	32.2	32.7	33.1	33.6	34.0	34.5	34.9
Heig	ıht	Lb	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
Cm	In																		
90.2	35.5	1	34.0	34.6															
91.4	36		33.1	33.6	34.2	34.7													
92.7	36.5		32.2	32.7	33.2	33.8	34.3	34.8											
94.0	37		31.3	31.8	32.4	32.9	33.4	33.9	34.4	34.9									
95.3	37.5		30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5	35.0							
96.5	38		29.7	30.2	30.7	31.2	31.6	32.1	32.6	33.1	33.6	34.1	34.6						
97.8	38.5		28.9	29.4	29.9	30.4	30.8	31.3	31.8	32.3	32.7	33.2	33.7	34.2	34.6				
99.1	39		28.2	28.7	29.1	29.6	30.0	30.5	31.0	31.4	31.9	32.4	32.8	33.3	33.7	34.2	34.7		
100.3	39.5		27.5	27.9	28.4	28.8	29.3	29.7	30.2	30.6	31.1	31.5	32.0	32.4	32.9	33.3	33.8	34.2	34.7
101.6	40		26.8	27.2	27.7	28.1	28.6	29.0	29.4	29.9	30.3	30.8	31.2	31.6	32.1	32.5	33.0	33.4	33.8
102.9			26.1	26.6	27.0	27.4	27.9	28.3	28.7	29.1	29.6	30.0	30.4	30.9	31.3	31.7	32.1	32.6	33.0
104.1			25.5	25.9	26.3	26.8	27.2	27.6	28.0	28.4	28.9	29.3	29.7	30.1	30.5	31.0	31.4	31.8	32.2
105.4			24.9	25.3	25.7	26.1	26.5	26.9	27.4	27.8	28.2	28.6	29.0	29.4	29.8	30.2	30.6	31.0	31.4
106.7			24.3	24.7	25.1	25.5	25.9	26.3	26.7	27.1	27.5	27.9	28.3	28.7	29.1	29.5	29.9	30.3	30.7
108.0			23.7	24.1	24.5	24.9	25.3	25.7	26.1	26.5	26.9	27.2	27.6	28.0	28.4	28.8	29.2	29.6	30.0
109.2			23.2	23.6	24.0	24.3	24.7	25.1	25.5	25.9	26.2	26.6	27.0	27.4	27.8	28.1	28.5	28.9	29.3
110.5			22.7	23.0	23.4	23.8	24.2	24.5	24.9	25.3	25.6	26.0	26.4	26.8	27.1	27.5	27.9	28.2	28.6
111.8			22.2	22.5	22.9	23.2	23.6	24.0	24.3	24.7	25.1	25.4	25.8	26.1	26.5	26.9	27.2	27.6	28.0
113.0	1		21.7	22.0	22.4	22.7	23.1	23.4	23.8	24.1	24.5	24.9	25.2	25.6	25.9	26.3	26.6	27.0	27.3
114.3			21.2	21.5	21.9	22.2	22.6	22.9	23.3	23.6	24.0	24.3	24.7	25.0	25.3	25.7	26.0	26.4	26.7
115.6			20.7	21.1	21.4	21.7	22.1	22.4	22.8	23.1	23.4	23.8	24.1	24.5	24.8	25.1	25.5	25.8	26.1
116.8			20.3	20.6	20.9	21.3	21.6	21.9	22.3	22.6	22.9	23.3	23.6	23.9	24.3	24.6	24.9	25.3	25.6
118.1	46.5		19.8	20.2	20.5	20.8	21.1	21.5	21.8	22.1	22.4	22.8	23.1	23.4	23.7	24.1	24.4	24.7	25.0
119.4			19.4	19.7	20.1	20.4	20.7	21.0	21.3	21.6	22.0	22.3	22.6	22.9	23.2	23.6	23.9	24.2	24.5
120.7	1		19.0	19.3	19.6	19.9	20.3	20.6	20.9	21.2	21.5	21.8	22.1	22.4	22.7	23.1	23.4	23.7	24.0
121.9			18.6	18.9	19.2	19.5	19.8	20.1	20.4	20.8		21.4	21.7		22.3	22.6	22.9	23.2	23.5
124.5 127.0			17.9 17.2	18.2 17.4	18.4 17.7	18.7 18.0	19.0 18.3	19.3 18.6	19.6 18.8	19.9	20.2	20.5	20.8	21.1	21.4	21.7	22.0	22.3	22.5
				16.8	17.7	17.3	17.6	17.8	18.1	19.1 18.4	19.4 18.7	19.7 18.9	19.2	20.2	20.5	20.8	20.3	21.4 20.5	21.7
129.5	lo1	l	16.5	10.8	17.0	17.3	0.11	17.0	10.1	10.4	10.7	10.9	19.2	19.5	19.7	20.0	20.3	20.5	20.8

	Wei	ght			Whei	never a chi	ild's specifi	ic height o	r weight m	easureme	nt is not lis	sted, round	to the clo	sest numb	er in the ta	able.		
	Kg	27.7	28.1	28.6	29.0	29.5	29.9	30.4	30.8	31.3	31.8	32.2	32.7	33.1	33.6	34.0	34.5	34.9
Height	Lb	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
Cm In																		
132.1 52		15.9	16.1	16.4	16.6	16.9	17.2	17.4	17.7	17.9	18.2	18.5	18.7	19.0	19.2	19.5	19.8	20.0
134.6 53		15.3	15.5	15.8	16.0	16.3	16.5	16.8	17.0	17.3	17.5	17.8	18.0	18.3	18.5	18.8	19.0	19.3
137.2 54		14.7	14.9	15.2	15.4	15.7	15.9	16.2	16.4	16.6	16.9	17.1	17.4	17.6	17.8	18.1	18.3	18.6
139.7 55		14.2	14.4	14.6	14.9	15.1	15.3	15.6	15.8	16.0	16.3	16.5	16.7	17.0	17.2	17.4	17.7	17.9
142.2 56		13.7	13.9	14.1	14.3	14.6	14.8	15.0	15.2	15.5	15.7	15.9	16.1	16.4	16.6	16.8	17.0	17.3
144.8 57		13.2	13.4	13.6	13.8	14.1	14.3	14.5	14.7	14.9	15.1	15.4	15.6	15.8	16.0	16.2	16.4	16.7
147.3 58				13.2	13.4	13.6	13.8	14.0	14.2	14.4	14.6	14.8	15.0	15.3	15.5	15.7	15.9	16.1
149.9 59						13.1	13.3	13.5	13.7	13.9	14.1	14.3	14.5	14.7	14.9	15.1	15.3	15.6
152.4 60								13.1	13.3	13.5	13.7	13.9	14.1	14.3	14.5	14.6	14.8	15.0
154.9 61										13.0	13.2	13.4	13.6	13.8	14.0	14.2	14.4	14.5
157.5 62													13.2	13.4	13.5	13.7	13.9	14.1
160.0 63															13.1	13.3	13.5	13.6
162.6 64																	13.0	13.2

		Wei	ght			When	never a chi	ld's specifi	c height o	r weight m	easureme	nt is not lis	sted, round	to the clo	sest numb	er in the ta	able.		
		Kg	35.4	35.8	36.3	36.7	37.2	37.6	38.1	38.6	39.0	39.5	39.9	40.4	40.8	41.3	41.7	42.2	42.6
Heigh	nt	Lb	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94
Cm	ln																		
101.6	40		34.3	34.7															
102.9	40.5		33.4	33.9	34.3	34.7													
104.1	41		32.6	33.0	33.5	33.9	34.3	34.7											
105.4	41.5		31.8	32.2	32.7	33.1	33.5	33.9	34.3	34.7									
106.7	42		31.1	31.5	31.9	32.3	32.7	33.1	33.5	33.9	34.3	34.7							
108.0	42.5		30.4	30.8	31.1	31.5	31.9	32.3	32.7	33.1	33.5	33.9	34.3	34.6					
109.2	43		29.7	30.0	30.4	30.8	31.2	31.6	31.9	32.3	32.7	33.1	33.5	33.8	34.2	34.6	35.0		
	43.5		29.0	29.4	29.7	30.1	30.5	30.8	31.2	31.6	32.0	32.3	32.7	33.1	33.4	33.8	34.2	34.6	34.9
	44		28.3	28.7	29.1	29.4	29.8	30.1	30.5	30.9	31.2	31.6	32.0	32.3	32.7	33.0	33.4	33.8	34.1
113.0			27.7	28.0	28.4	28.8	29.1	29.5	29.8	30.2	30.5	30.9	31.2	31.6	32.0	32.3	32.7	33.0	33.4
	45		27.1	27.4	27.8	28.1	28.5	28.8	29.2	29.5	29.9	30.2	30.6	30.9	31.2	31.6	31.9	32.3	32.6
115.6			26.5	26.8	27.2	27.5	27.8	28.2	28.5	28.9	29.2	29.5	29.9	30.2	30.6	30.9	31.2	31.6	31.9
	46		25.9	26.2	26.6	26.9	27.2	27.6	27.9	28.2	28.6	28.9	29.2	29.6	29.9	30.2	30.6	30.9	31.2
	46.5		25.4	25.7	26.0	26.3	26.7	27.0	27.3	27.6	28.0	28.3	28.6	28.9	29.3	29.6	29.9	30.2	30.6
_	47		24.8	25.1	25.5	25.8	26.1	26.4	26.7	27.1	27.4	27.7	28.0	28.3	28.6	29.0	29.3	29.6	29.9
	47.5		24.3	24.6	24.9	25.2	25.6	25.9	26.2	26.5	26.8	27.1	27.4	27.7	28.0	28.4	28.7	29.0	29.3
	48		23.8	24.1	24.4	24.7	25.0	25.3	25.6	25.9	26.2	26.5	26.9	27.2	27.5	27.8	28.1	28.4	28.7
	49		22.8	23.1	23.4	23.7	24.0	24.3	24.6	24.9	25.2	25.5	25.8	26.1	26.4	26.6	26.9	27.2	27.5
	50		21.9	22.2	22.5	22.8	23.1	23.3	23.6	23.9	24.2	24.5	24.7	25.0	25.3	25.6	25.9	26.2	26.4
	51		21.1	21.4	21.6	21.9	22.2	22.4	22.7	23.0	23.2	23.5	23.8	24.1	24.3	24.6	24.9	25.1	25.4
	52		20.3	20.5	20.8	21.1	21.3	21.6	21.8	22.1	22.4	22.6	22.9	23.1	23.4	23.7	23.9	24.2	24.4
	53		19.5	19.8	20.0	20.3	20.5	20.8	21.0	21.3	21.5	21.8	22.0	22.3	22.5	22.8	23.0	23.3	23.5
I .	54		18.8	19.0	19.3	19.5	19.8	20.0	20.3	20.5	20.7	21.0	21.2	21.5	21.7	21.9	22.2	22.4	22.7
	55 56		18.1	18.4	18.6	18.8	19.1	19.3	19.5	19.8	20.0	20.2	20.5	20.7	20.9	21.2	21.4	21.6	21.8
	56 57		17.5	17.7	17.9	18.2	18.4	18.6	18.8	19.1	19.3	19.5	19.7	20.0	20.2	20.4	20.6	20.8	21.1
	58		16.9	17.1	17.3	17.5	17.7	18.0	18.2	18.4	18.6	18.8	19.0	19.3	19.5	19.7	19.9	20.1	20.3
	59		16.3 15.8	16.5 16.0	16.7 16.2	16.9 16.4	17.1 16.6	17.3 16.8	17.6 17.0	17.8 17.2	18.0 17.4	18.2 17.6	18.4 17.8	18.6 18.0	18.8 18.2	19.0 18.4	19.2 18.6	19.4 18.8	19.6 19.0
152.4			15.6	15.4	15.6	15.8	16.0		16.4	16.6	16.8	17.0	17.0	17.4	17.6	17.8	18.0	18.2	18.4
102.4	UU		13.2	15.4	0.01	13.6	10.0	16.2	10.4	0.01	10.0	17.0	17.2	17.4	0.11	17.0	10.0	10.2	10.4

		Wei	ght			When	never a chi	ld's specifi	ic height o	r weight m	easureme	nt is not lis	sted, round	I to the clo	sest numb	er in the ta	able.		
		Kg	35.4	35.8	36.3	36.7	37.2	37.6	38.1	38.6	39.0	39.5	39.9	40.4	40.8	41.3	41.7	42.2	42.6
Height	t	Lb	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94
Cm Ir	n																		
154.9 61	1		14.7	14.9	15.1	15.3	15.5	15.7	15.9	16.1	16.2	16.4	16.6	16.8	17.0	17.2	17.4	17.6	17.8
157.5 62	2		14.3	14.4	14.6	14.8	15.0	15.2	15.4	15.5	15.7	15.9	16.1	16.3	16.5	16.6	16.8	17.0	17.2
160.0 63	3		13.8	14.0	14.2	14.3	14.5	14.7	14.9	15.1	15.2	15.4	15.6	15.8	15.9	16.1	16.3	16.5	16.7
162.6 64	4		13.4	13.6	13.7	13.9	14.1	14.2	14.4	14.6	14.8	14.9	15.1	15.3	15.4	15.6	15.8	16.0	16.1
165.1 65	5			13.1	13.3	13.5	13.6	13.8	14.0	14.1	14.3	14.5	14.6	14.8	15.0	15.1	15.3	15.5	15.6
167.6 66	6					13.1	13.2	13.4	13.6	13.7	13.9	14.0	14.2	14.4	14.5	14.7	14.8	15.0	15.2
170.2 67	7								13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.3	14.4	14.6	14.7
172.7 68	8										13.1	13.2	13.4	13.5	13.7	13.8	14.0	14.1	14.3
175.3 69	_													13.1	13.3	13.4	13.6	13.7	13.9
177.8 70	0															13.1	13.2	13.3	13.5
180.3 71	1																		13.1

		Wei	ght			Wher	never a chi	ild's specifi	ic height o	r weight m	easureme	nt is not lis	sted, round	d to the clo	sest numb	per in the ta	able.		
		Kg	43.1	43.5	44.0	44.5	44.9	45.4	45.8	46.3	46.7	47.2	47.6	48.1	48.5	49.0	49.4	49.9	50.8
Heig	ht	Lb	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	112
	In																		
111.8	44	1	34.5	34.9															
113.0	44.5		33.7	34.1	34.4	34.8													
114.3	45		33.0	33.3	33.7	34.0	34.4	34.7											
115.6	45.5		32.3	32.6	32.9	33.3	33.6	34.0	34.3	34.6	35.0								
116.8	46		31.6	31.9	32.2	32.6	32.9	33.2	33.6	33.9	34.2	34.6	34.9						
118.1	46.5		30.9	31.2	31.5	31.9	32.2	32.5	32.8	33.2	33.5	33.8	34.1	34.5	34.8				
119.4	47		30.2	30.6	30.9	31.2	31.5	31.8	32.1	32.5	32.8	33.1	33.4	33.7	34.1	34.4	34.7		
120.7	47.5		29.6	29.9	30.2	30.5	30.8	31.2	31.5	31.8	32.1	32.4	32.7	33.0	33.3	33.7	34.0	34.3	34.9
	48		29.0	29.3	29.6	29.9	30.2	30.5	30.8	31.1	31.4	31.7	32.0	32.3	32.7	33.0	33.3	33.6	34.2
124.5	49		27.8	28.1	28.4	28.7	29.0	29.3	29.6	29.9	30.2	30.5	30.7	31.0	31.3	31.6	31.9	32.2	32.8
	50		26.7	27.0	27.3	27.6	27.8	28.1	28.4	28.7	29.0	29.2	29.5	29.8	30.1	30.4	30.7	30.9	31.5
	51		25.7	25.9	26.2	26.5	26.8	27.0	27.3	27.6	27.8	28.1	28.4	28.7	28.9	29.2	29.5	29.7	30.3
132.1	52		24.7	25.0	25.2	25.5	25.7	26.0	26.3	26.5	26.8	27.0	27.3	27.6	27.8	28.1	28.3	28.6	29.1
	53		23.8	24.0	24.3	24.5	24.8	25.0	25.3	25.5	25.8	26.0	26.3	26.5	26.8	27.0	27.3	27.5	28.0
	54		22.9	23.1	23.4	23.6	23.9	24.1	24.4	24.6	24.8	25.1	25.3	25.6	25.8	26.0	26.3	26.5	27.0
			22.1	22.3	22.5	22.8	23.0	23.2	23.5	23.7	23.9	24.2	24.4	24.6	24.9	25.1	25.3	25.6	26.0
	56		21.3	21.5	21.7	22.0	22.2	22.4	22.6	22.9	23.1	23.3	23.5	23.8	24.0	24.2	24.4	24.7	25.1
	57		20.6	20.8	21.0	21.2	21.4	21.6	21.9	22.1	22.3	22.5	22.7	22.9	23.2	23.4	23.6	23.8	24.2
147.3	58		19.9	20.1	20.3	20.5	20.7	20.9	21.1	21.3	21.5	21.7	21.9	22.2	22.4	22.6	22.8	23.0	23.4
	59		19.2	19.4	19.6	19.8	20.0	20.2	20.4	20.6	20.8	21.0	21.2	21.4	21.6	21.8	22.0	22.2	22.6
	60		18.6	18.7	18.9	19.1	19.3	19.5	19.7	19.9	20.1	20.3	20.5	20.7	20.9	21.1	21.3	21.5	21.9
154.9			17.9	18.1	18.3	18.5	18.7	18.9	19.1	19.3	19.5	19.7	19.8	20.0	20.2	20.4	20.6	20.8	21.2
	62		17.4	17.6	17.7	17.9	18.1	18.3	18.5	18.7	18.8	19.0	19.2	19.4	19.6	19.8	19.9	20.1	20.5
	63		16.8	17.0	17.2	17.4	17.5	17.7	17.9	18.1	18.2	18.4	18.6	18.8	19.0	19.1	19.3	19.5	19.8
	64		16.3	16.5	16.6	16.8	17.0	17.2	17.3	17.5	17.7	17.9	18.0	18.2	18.4	18.5	18.7	18.9	19.2
	65		15.8	16.0	16.1	16.3	16.5	16.6	16.8	17.0	17.1	17.3	17.5	17.6	17.8	18.0	18.1	18.3	18.6
	66		15.3	15.5	15.7	15.8	16.0	16.1	16.3	16.5	16.6	16.8	16.9	17.1	17.3	17.4	17.6	17.8	18.1
	67		14.9	15.0	15.2	15.3	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.8	16.9	17.1	17.2	17.5
172.7	68		14.4	14.6	14.7	14.9	15.1	15.2	15.4	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	17.0

		Wei	ght			Wher	never a chi	ild's specifi	ic height o	r weight m	easureme	nt is not lis	sted, round	d to the clo	sest numb	er in the ta	able.		
		Kg	43.1	43.5	44.0	44.5	44.9	45.4	45.8	46.3	46.7	47.2	47.6	48.1	48.5	49.0	49.4	49.9	50.8
Height	t	Lb	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	112
Cm Ir	n																		
175.3 69	9		14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	15.5	15.7	15.8	15.9	16.1	16.2	16.5
177.8 70	0		13.6	13.8	13.9	14.1	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	15.5	15.6	15.8	16.1
180.3 71	1		13.2	13.4	13.5	13.7	13.8	13.9	14.1	14.2	14.4	14.5	14.6	14.8	14.9	15.1	15.2	15.3	15.6
182.9 72	2			13.0	13.2	13.3	13.4	13.6	13.7	13.8	14.0	14.1	14.2	14.4	14.5	14.6	14.8	14.9	15.2
185.4 73	3						13.1	13.2	13.3	13.5	13.6	13.7	13.9	14.0	14.1	14.2	14.4	14.5	14.8
188.0 74	4									13.1	13.2	13.4	13.5	13.6	13.7	13.9	14.0	14.1	14.4
190.5 75	5												13.1	13.2	13.4	13.5	13.6	13.7	14.0
193.0 76	6														13.0	13.1	13.3	13.4	13.6
195.6 77	7																	13.0	13.3

	Wei	ight			When	never a chi	ld's specifi	ic height o	r weight m	easureme	nt is not lis	sted, rounc	d to the clo	sest numb	er in the ta	able.		
	Kg	51.7	52.6	53.5	54.4	55.3	56.2	57.2	58.1	59.0	59.9	60.8	61.7	62.6	63.5	64.4	65.3	66.2
Height	Lb	114	116	118	120	122	124	126	128	130	132	134	136	138	140	142	144	146
Cm In																		
121.9 48		34.8																
124.5 49		33.4	34.0	34.6														
127.0 50		32.1	32.6	33.2	33.7	34.3	34.9											
129.5 51		30.8	31.4	31.9	32.4	33.0	33.5	34.1	34.6									
132.1 52		29.6	30.2	30.7	31.2	31.7	32.2	32.8	33.3	33.8	34.3	34.8						
134.6 53		28.5	29.0	29.5	30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5				
137.2 54		27.5	28.0	28.5	28.9	29.4	29.9	30.4	30.9	31.3	31.8	32.3	32.8	33.3	33.8	34.2	34.7	
139.7 55		26.5	27.0	27.4	27.9	28.4	28.8	29.3	29.7	30.2	30.7	31.1	31.6	32.1	32.5	33.0	33.5	33.9
142.2 56		25.6	26.0	26.5	26.9	27.4	27.8	28.2	28.7	29.1	29.6	30.0	30.5	30.9	31.4	31.8	32.3	32.7
144.8 57		24.7	25.1	25.5	26.0	26.4	26.8	27.3	27.7	28.1	28.6	29.0	29.4	29.9	30.3	30.7	31.2	31.6
147.3 58		23.8	24.2	24.7	25.1	25.5	25.9	26.3	26.8	27.2	27.6	28.0	28.4	28.8	29.3	29.7	30.1	30.5
149.9 59		23.0	23.4	23.8	24.2	24.6	25.0	25.4	25.9	26.3	26.7	27.1	27.5	27.9	28.3	28.7	29.1	29.5
152.4 60		22.3	22.7	23.0	23.4	23.8	24.2	24.6	25.0	25.4	25.8	26.2	26.6	27.0	27.3	27.7	28.1	28.5
154.9 61		21.5	21.9	22.3	22.7	23.1	23.4	23.8	24.2	24.6	24.9	25.3	25.7	26.1	26.5	26.8	27.2	27.6
157.5 62		20.9	21.2	21.6	21.9	22.3	22.7	23.0	23.4	23.8	24.1	24.5	24.9	25.2	25.6	26.0	26.3	26.7
160.0 63		20.2	20.5	20.9	21.3	21.6	22.0	22.3	22.7	23.0	23.4	23.7	24.1	24.4	24.8	25.2	25.5	25.9
162.6 64		19.6	19.9	20.3	20.6	20.9	21.3	21.6	22.0	22.3	22.7	23.0	23.3	23.7	24.0	24.4	24.7	25.1
165.1 65		19.0	19.3	19.6	20.0	20.3	20.6	21.0	21.3	21.6	22.0	22.3	22.6	23.0	23.3	23.6	24.0	24.3
167.6 66		18.4	18.7	19.0	19.4	19.7	20.0	20.3	20.7	21.0	21.3	21.6	22.0	22.3	22.6	22.9	23.2	23.6
170.2 67		17.9	18.2	18.5	18.8	19.1	19.4	19.7	20.0	20.4	20.7	21.0	21.3	21.6	21.9	22.2	22.6	22.9
172.7 68		17.3	17.6	17.9	18.2	18.5	18.9	19.2	19.5	19.8	20.1	20.4	20.7	21.0	21.3	21.6	21.9	22.2
175.3 69		16.8	17.1	17.4	17.7	18.0	18.3	18.6	18.9	19.2	19.5	19.8	20.1	20.4	20.7	21.0	21.3	21.6
177.8 70		16.4	16.6	16.9	17.2	17.5	17.8	18.1	18.4	18.7	18.9	19.2	19.5	19.8	20.1	20.4	20.7	20.9
180.3 71		15.9	16.2	16.5	16.7	17.0	17.3	17.6	17.9	18.1	18.4	18.7	19.0	19.2	19.5	19.8	20.1	20.4
182.9 72		15.5	15.7	16.0	16.3	16.5	16.8	17.1	17.4	17.6	17.9	18.2	18.4	18.7	19.0	19.3	19.5	19.8
185.4 73		15.0	15.3	15.6	15.8	16.1	16.4	16.6	16.9	17.2	17.4	17.7	17.9	18.2	18.5	18.7	19.0	19.3
188.0 74		14.6 14.2	14.9 14.5	15.2 14.7	15.4 15.0	15.7 15.2	15.9 15.5	16.2 15.7	16.4 16.0	16.7 16.2	16.9 16.5	17.2 16.7	17.5 17.0	17.7 17.2	18.0 17.5	18.2 17.7	18.5 18.0	18.7
190.5 75			_												_			18.2
193.0 76	I	13.9	14.1	14.4	14.6	14.9	15.1	15.3	15.6	15.8	16.1	16.3	16.6	16.8	17.0	17.3	17.5	17.8

	Wei	ght			Wher	never a chi	ild's specifi	ic height o	r weight m	easureme	nt is not lis	sted, round	to the clo	sest numb	er in the ta	able.		
	Kg																65.3	66.2
Height	Lb	114	116	118	120	122	124	126	128	130	132	134	136	138	140	142	144	146
Cm In																		
195.6 77	7	13.5	13.8	14.0	14.2	14.5	14.7	14.9	15.2	15.4	15.7	15.9	16.1	16.4	16.6	16.8	17.1	17.3
198.1 78		13.2	13.4	13.6	13.9	14.1	14.3	14.6	14.8	15.0	15.3	15.5	15.7	15.9	16.2	16.4	16.6	16.9

	We	ight			Wher	never a chi	ld's specifi	ic height o	r weight m	easureme	nt is not lis	sted, round	d to the clo	sest numb	er in the ta	able.		
	Kg	67.1	68.0	68.9	69.9	70.8	71.7	72.6	73.5	74.4	75.3	76.2	77.1	78.0	78.9	79.8	80.7	81.6
Height	Lb	148	150	152	154	156	158	160	162	164	166	168	170	172	174	176	178	180
Cm In																		
139.7 55	7	34.4	34.9															
142.2 56		33.2	33.6	34.1	34.5	35.0												
144.8 57		32.0	32.5	32.9	33.3	33.8	34.2	34.6										
147.3 58		30.9	31.3	31.8	32.2	32.6	33.0	33.4	33.9	34.3	34.7							
149.9 59		29.9	30.3	30.7	31.1	31.5	31.9	32.3	32.7	33.1	33.5	33.9	34.3	34.7				
152.4 60		28.9	29.3	29.7	30.1	30.5	30.9	31.2	31.6	32.0	32.4	32.8	33.2	33.6	34.0	34.4	34.8	
154.9 61		28.0	28.3	28.7	29.1	29.5	29.9	30.2	30.6	31.0	31.4	31.7	32.1	32.5	32.9	33.3	33.6	34.0
157.5 62		27.1	27.4	27.8	28.2	28.5	28.9	29.3	29.6	30.0	30.4	30.7	31.1	31.5	31.8	32.2	32.6	32.9
160.0 63		26.2	26.6	26.9	27.3	27.6	28.0	28.3	28.7	29.1	29.4	29.8	30.1	30.5	30.8	31.2	31.5	31.9
162.6 64		25.4	25.7	26.1	26.4	26.8	27.1	27.5	27.8	28.2	28.5	28.8	29.2	29.5	29.9	30.2	30.6	30.9
165.1 65		24.6	25.0	25.3	25.6	26.0	26.3	26.6	27.0	27.3	27.6	28.0	28.3	28.6	29.0	29.3	29.6	30.0
167.6 66		23.9	24.2	24.5	24.9	25.2	25.5	25.8	26.1	26.5	26.8	27.1	27.4	27.8	28.1	28.4	28.7	29.1
170.2 67		23.2	23.5	23.8	24.1	24.4	24.7	25.1	25.4	25.7	26.0	26.3	26.6	26.9	27.3	27.6	27.9	28.2
172.7 68		22.5	22.8	23.1	23.4	23.7	24.0	24.3	24.6	24.9	25.2	25.5	25.8	26.2	26.5	26.8	27.1	27.4
175.3 69		21.9	22.2	22.4	22.7	23.0	23.3	23.6	23.9	24.2	24.5	24.8	25.1	25.4	25.7	26.0	26.3	26.6
177.8 70		21.2	21.5	21.8	22.1	22.4	22.7	23.0	23.2	23.5	23.8	24.1	24.4	24.7	25.0	25.3	25.5	25.8
180.3 71		20.6	20.9	21.2	21.5	21.8	22.0	22.3	22.6	22.9	23.2	23.4	23.7	24.0	24.3	24.5	24.8	25.1
182.9 72		20.1	20.3	20.6	20.9	21.2	21.4	21.7	22.0	22.2	22.5	22.8	23.1	23.3	23.6	23.9	24.1	24.4
185.4 73		19.5	19.8	20.1	20.3	20.6	20.8	21.1	21.4	21.6	21.9	22.2	22.4	22.7	23.0	23.2	23.5	23.7
188.0 74		19.0	19.3	19.5	19.8	20.0	20.3	20.5	20.8	21.1	21.3	21.6	21.8	22.1	22.3	22.6	22.9	23.1
190.5 75		18.5	18.7	19.0	19.2	19.5	19.7	20.0	20.2	20.5	20.7	21.0	21.2	21.5	21.7	22.0	22.2	22.5
193.0 76		18.0	18.3	18.5	18.7	19.0	19.2	19.5	19.7	20.0	20.2	20.4	20.7	20.9	21.2	21.4	21.7	21.9
195.6 77		17.6	17.8	18.0	18.3	18.5	18.7	19.0	19.2	19.4	19.7	19.9	20.2	20.4	20.6	20.9	21.1	21.3
198.1 78		17.1	17.3	17.6	17.8	18.0	18.3	18.5	18.7	19.0	19.2	19.4	19.6	19.9	20.1	20.3	20.6	20.8

		Wei	ght			When	ever a chi	ld's specifi	ic height oi	weight m	easureme	nt is not lis	ted, round	I to the clo	sest numb	er in the ta	able.		
		Kg	82.6	83.5	84.4	85.3	86.2	87.1	88.0	88.9	89.8	90.7	91.6	92.5	93.4	94.3	95.3	96.2	97.1
Heigh	nt	Lb	182	184	186	188	190	192	194	196	198	200	202	204	206	208	210	212	214
Cm I	ln																		_
154.9 6	61		34.4	34.8															
157.5 6	62		33.3	33.7	34.0	34.4	34.8												
160.0 6	33		32.2	32.6	32.9	33.3	33.7	34.0	34.4	34.7									
162.6	64		31.2	31.6	31.9	32.3	32.6	33.0	33.3	33.6	34.0	34.3	34.7						
165.1 6	65		30.3	30.6	31.0	31.3	31.6	32.0	32.3	32.6	32.9	33.3	33.6	33.9	34.3	34.6	34.9		
167.6	66		29.4	29.7	30.0	30.3	30.7	31.0	31.3	31.6	32.0	32.3	32.6	32.9	33.2	33.6	33.9	34.2	34.5
170.2 6	67		28.5	28.8	29.1	29.4	29.8	30.1	30.4	30.7	31.0	31.3	31.6	32.0	32.3	32.6	32.9	33.2	33.5
172.7 6	86		27.7	28.0	28.3	28.6	28.9	29.2	29.5	29.8	30.1	30.4	30.7	31.0	31.3	31.6	31.9	32.2	32.5
175.3 6	69		26.9	27.2	27.5	27.8	28.1	28.4	28.6	28.9	29.2	29.5	29.8	30.1	30.4	30.7	31.0	31.3	31.6
177.8 7	70		26.1	26.4	26.7	27.0	27.3	27.5	27.8	28.1	28.4	28.7	29.0	29.3	29.6	29.8	30.1	30.4	30.7
180.3 7	71		25.4	25.7	25.9	26.2	26.5	26.8	27.1	27.3	27.6	27.9	28.2	28.5	28.7	29.0	29.3	29.6	29.8
182.9 7	72		24.7	25.0	25.2	25.5	25.8	26.0	26.3	26.6	26.9	27.1	27.4	27.7	27.9	28.2	28.5	28.8	29.0
185.4 7	73		24.0	24.3	24.5	24.8	25.1	25.3	25.6	25.9	26.1	26.4	26.7	26.9	27.2	27.4	27.7	28.0	28.2
188.0 7	74		23.4	23.6	23.9	24.1	24.4	24.7	24.9	25.2	25.4	25.7	25.9	26.2	26.4	26.7	27.0	27.2	27.5
190.5 7	75		22.7	23.0	23.2	23.5	23.7	24.0	24.2	24.5	24.7	25.0	25.2	25.5	25.7	26.0	26.2	26.5	26.7
193.0 7	76		22.2	22.4	22.6	22.9	23.1	23.4	23.6	23.9	24.1	24.3	24.6	24.8	25.1	25.3	25.6	25.8	26.0
195.6 7	77		21.6	21.8	22.1	22.3	22.5	22.8	23.0	23.2	23.5	23.7	24.0	24.2	24.4	24.7	24.9	25.1	25.4
198.1 7	78		21.0	21.3	21.5	21.7	22.0	22.2	22.4	22.6	22.9	23.1	23.3	23.6	23.8	24.0	24.3	24.5	24.7

	'	Weig	ght			V	Vhenever a	a child's sp	ecific heig	ht or weig	ht measure	ement is n	ot listed, ro	ound to the	e closest n	umber in t	he table.			
		Kg	98.0	98.9	99.8	100.7	101.6	102.5	103.4	104.3	105.2	106.1	107.0	108.0	108.9	109.8	110.7	111.6	112.5	113.4
Height	:	Lb	216	218	220	222	224	226	228	230	232	234	236	238	240	242	244	246	248	250
Cm In																				
167.6 66			34.9																	
170.2 67			33.8	34.1	34.5	34.8														
172.7 68			32.8	33.1	33.5	33.8	34.1	34.4	34.7	35.0										
175.3 69			31.9	32.2	32.5	32.8	33.1	33.4	33.7	34.0	34.3	34.6	34.9							
177.8 70			31.0	31.3	31.6	31.9	32.1	32.4	32.7	33.0	33.3	33.6	33.9	34.1	34.4	34.7				
180.3 71			30.1	30.4	30.7	31.0	31.2	31.5	31.8	32.1	32.4	32.6	32.9	33.2	33.5	33.8	34.0	34.3	34.6	34.9
182.9 72			29.3	29.6	29.8	30.1	30.4	30.7	30.9	31.2	31.5	31.7	32.0	32.3	32.5	32.8	33.1	33.4	33.6	33.9
185.4 73			28.5	28.8	29.0	29.3	29.6	29.8	30.1	30.3	30.6	30.9	31.1	31.4	31.7	31.9	32.2	32.5	32.7	33.0
188.0 74			27.7	28.0	28.2	28.5	28.8	29.0	29.3	29.5	29.8	30.0	30.3	30.6	30.8	31.1	31.3	31.6	31.8	32.1
190.5 75			27.0	27.2	27.5	27.7	28.0	28.2	28.5	28.7	29.0	29.2	29.5	29.7	30.0	30.2	30.5	30.7	31.0	31.2
193.0 76			26.3	26.5	26.8	27.0	27.3	27.5	27.8	28.0	28.2	28.5	28.7	29.0	29.2	29.5	29.7	29.9	30.2	30.4
195.6 77			25.6	25.9	26.1	26.3	26.6	26.8	27.0	27.3	27.5	27.7	28.0	28.2	28.5	28.7	28.9	29.2	29.4	29.6
198.1 78			25.0	25.2	25.4	25.7	25.9	26.1	26.3	26.6	26.8	27.0	27.3	27.5	27.7	28.0	28.2	28.4	28.7	28.9