

**Steven B. Heymsfield, M.D.**

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E-mail: [Steven.Heymsfield@pbrc.edu](mailto:Steven.Heymsfield@pbrc.edu)**Birth date:** July 15, 1944**Birthplace:** Brooklyn, New York**Citizenship:** U.S.A.**Education**

Degree	Major/Discipline	School	Date(s) of Attendance	Graduation Year
AB	Chemistry	Hunter College/CUNY, NY, NY	9/1962-6/1966	1966
	Biochemistry	Cornell University, Ithaca, NY	7/1966-3/1967	
	Medicine	University of Tennessee Medical Units, Memphis, TN	4/1967-8/1968	
MD	Medicine	Mount Sinai School of Medicine, NY, NY	9/1968-6/1971	1971

Licensed in GA, 1973

Licensed in NY, 1987

Licensed in LA, 2011

**Professional Experience**

Dates	Position	Institution	Supervisor
7/1971-6/1972	Medical Intern	Emory Univ., Atlanta, GA	J. Willis Hurst, MD
7/1972-6/1973	Medical Resident	Emory Univ., Atlanta, GA	J. Willis Hurst, MD
7/1973-6/1975	Pharmacology Fellow	Emory Univ., Atlanta, GA	John McNay, PhD

<b>Dates</b>	<b>Position</b>	<b>Institution</b>	<b>Supervisor</b>
7/1975-6/1978	Assistant Professor of Medicine	Emory Univ., Atlanta, GA	J. Willis Hurst, MD
7/1975-6/1983	Assistant Director, NIH Clinical Research Facility	Emory Univ., Atlanta, GA	Daniel Rudman, MD
7/1978-6/1986	Associate Professor of Medicine	Emory Univ., Atlanta, GA	J. Willis Hurst, MD
7/1980-6/1984	Director/Division of Nutrition in Medicine	Emory Univ., Atlanta, GA	J. Willis Hurst, MD
7/1986-6/1994	Associate Professor of Medicine	Columbia University, NY, NY	Theodore Van Itallie
7/1986-10/2004	Director, Human Body Composition Laboratory and Weight Control Unit, New York Obesity Research Center, St. Luke's-Roosevelt Hospital	Columbia University, College of Physicians and Surgeons, NY, NY	Theodore VanItallie, MD & Xavier PiSunyer, MD
9/1986-6/1994	Visiting Physician	Rockefeller University, NY, NY	Jules Hirsch, MD
7/1987-10/2004	Research Scientist, Department of Energy	Brookhaven National Laboratory, Upton, NY	Stanton Cohn, PhD
7/1990-6/1997	Associate Professor of Applied Physiology	Teachers College, Columbia Univ., NY	Robert Gutin, PhD
1/1990-10/2004	Deputy Director, New York Obesity Research Center, St. Luke's-Roosevelt Hospital	Columbia University, College of Physicians and Surgeons, NY, NY	Xavier PiSunyer, MD
7/1994-10/2004	Professor of Medicine	Columbia University, College of Physicians and Surgeons, NY, NY	Myron Weisfeldt, MD
1/1998-10/2004	Affiliate Faculty Member, Department of Biomedical Engineering	Columbia University, College of Physicians and Surgeons, NY, NY	Van Mow, PhD
11/2004-12/2007	Executive Director, Clinical Sciences, Metabolism	Merck & Co., Rahway, NJ	John Amatruda, MD
11/2004-5/2010	Visiting Scientist, New York Obesity Research Center, St. Luke's-Roosevelt Hospital Center	Columbia University, College of Physicians and Surgeons, NY, NY	Xavier PiSunyer, MD
1/2008-5/2010	Global Director, Scientific Affairs, Obesity; Merck & Co.	Merck & Co., Rahway, NJ	Richard Pasternak, MD

<b>Dates</b>	<b>Position</b>	<b>Institution</b>	<b>Supervisor</b>
6/2010-5/2013	Executive Director, Pennington Biomedical Research Center, George George A. Bray Chair in Nutrition	Louisiana State University, Baton Rouge, LA	John V. Lombardi, PhD
6/2013-	Professor, Director, Metabolism & Body Composition Laboratory	Louisiana State University, Baton Rouge, LA	John Kirwan, PhD; Eric Ravussin, PhD
4/1/2014-	Consultant in Nutrition	Massachusetts General Hospital, Harvard Medical School, Boston, MA	Anne Klibanski, MD/Steven Grinspoon, MD
12/15/2015-	Chair, Advisory Board	LSU Museum of Art	Stacia Haynie, PhD

### **Professional Organization Memberships**

American Physiological Society  
 American Society of Nutrition (Fellow)  
 Southern Society of Clinical Investigation (inactive)  
 American Society of Parenteral and Enteral Nutrition (Fellow)  
 The Obesity Society (Fellow)  
 Society for the Study of Sarcopenia, Cachexia, and Wasting Disorders (Fellow)  
 IEEE, Engineering in Medicine and Biology Section.

### **Honors and Awards**

Dean's List, 1965, 1966 - Hunter College, City University of New York.  
 Phi Sigma, 1966 - Phi Sigma, Biological Sciences Honor Society; Hunter College  
 Dean's List, 1968, 1969 - Medical Units, University of Tennessee.  
 Mosby Award in Clinical Medicine, 1971 - Mt. Sinai School of Medicine.  
 First Place Award - Annual Emory Univ. Housestaff Research Day, 1972.  
 Crutcher Award - Annual Emory Univ. Housestaff Research Day, 1974.  
 Clinical and Research Scholar, American College of Physicians, 1979-1982.  
 Honorary Member, Latin American & Argentine Medical Associations, 1985.  
 Horowitz Alumni Award, Mount Sinai School of Medicine - Outstanding Medical Investigator, 1987.  
 Burroughs-Welcome Scholar in Basic Science, 1988.  
 Honorary Member, American Dietetic Association, 1996.  
 Honorary Member, Chilean Clinical Nutrition Association, 1997.  
 Honorary Member, New York Dietetic Association, 1997.  
 Fourth Beaudette-Thompson Lectureship, Rutgers University, 1998.  
 Hellenistic Medical Society Lectureship, 1999.  
 Fifth Annual Clinical Nutrition Foundation Lectureship, 1999.

Rhoades Award, American Society of Parenteral and Enteral Nutrition, 2002.  
TOPS Award, North American Association for the Study of Obesity, 2003.  
Mayor's Award for Science and Technology, 2004.  
Gilbert B. Forbes Memorial Lecture, International Society of Body Composition Research, 2005.  
Daniel Rudman Memorial Lecture, Medical College of Wisconsin, 2005.  
Keynote Speaker, Alberta Obesity Summit, 2006.  
Keynote Speaker, Nutrition & Cancer, GANEPAO; Brazil, 2006.  
Keynote Speaker, 11<sup>th</sup> Congresso Portugues de Obesidade, 2007.  
Keynote Speaker, XVII Congresso Brasileiro de Nutricao Parenteral e Enteral, 2007.  
Keynote Speaker, Most Significant Advances in Obesity Research, Pennington Biomedical Research Center, 2008.  
Keynote Speaker, Kieler-Woche, Christian-Albrechts Univ. zu Kiel, Germany, 2009.  
Fellow of the American Society for Nutrition, 2010.  
3<sup>rd</sup> Annual Alfredo Lopez-S Nutrition Lecture, Louisiana State University, 2011.  
Fellow of the American Society for Parental and Enteral Nutrition, 2012.  
SCOPE International Fellowship, 2012.  
Keynote Speaker, SCAN annual meeting, Chicago, 2013.  
Keynote Speaker, Korean Endocrine Society annual meeting, Seoul, 2013.  
Keynote Speaker, Prader-Willi Syndrome annual meeting, 2013.  
Keynote Speaker, Chinese Endocrinology Society annual meeting, Xian, 2013.  
Keynote Speaker, Hippocrates Lecture, Sarcopenia & Cachexia Society Annual Meeting, Kobe, 2013.  
Fellow of the Obesity Society, 2014.  
Keynote Speaker, International Congress on Body Composition Research, Lisbon, 2014.  
Keynote Speaker, Advances and Novel Targets in Energy Balance and Obesity, Harvard, 2014.  
Keynote Speaker, Food & Nutrition Congress Expo, 2014.  
Keynote Speaker, Royal Society of Medicine, 2014.  
Keynote Speaker, American Society of Parenteral and Enteral Nutrition: Dudrick Symposium, 2015.  
Robert H. Herman Award, American Society of Nutrition, 2015.  
McCay Lecture, 150<sup>th</sup> Anniversary/Cornell University, 2015.  
George A. Bray Founders Award, The Obesity Society 2016  
Fellow of the Society on Sarcopenia, Cachexia, and Wasting Disorders, 2017  
Keynote Speaker: American Diabetes Association, 2017  
Keynote Speaker: EMBS/IEEE Biannual Meeting, 2017  
W.O. Atwater Award, American Society of Nutrition/USDA, 2018

## **PUBLICATIONS**

### **Original Peer-Reviewed Articles**

Metzger AL, Heymsfield SB, Grundy SM. The lithogenic index - a numerical expression for the relative lithogenicity of bile. *Gastroenterology* 62:499-501, 1972.

- Metzger AL, Adler R, Heymsfield SB, Grundy SM. Diurnal variation in biliary lipid composition. *N Eng J Med* 288:333-336, 1973.
- Heymsfield SB. Cystic dilation of the intrahepatic biliary tree (Carolis Disease) - a suggested treatment. *Gastroenterology* 64:663, 1973.
- Wenger J, Heymsfield SB. Adsorption of bile by aluminum hydroxide. *J Pharmacol Exp Ther* 14:163-165, 1974.
- Heymsfield SB. Clinical data: the basis of normal and abnormal. In: Walder HK, Hall SD, Hurst JW, eds. *Clinical Methods: the history, physical and laboratory examinations*. Boston: Butterworth Publishers, 1033-1040, 1976.
- Rudman D, Chawla RK, Heymsfield SB, Bethel RA, Shoji M, Vogler WR, Nixon DW. Urinary excretion of the cancer-related glycoprotein EDCI: effect of chemotherapy. *Ann Intern Med* 86:174-179, 1977.
- Chawla RK, Heymsfield SB, Wadsworth AA, Shoji M, Rudman D. Isolation and characterization of a glycoprotein (JBB5) in the urine of a patient with carcinoma of the colon. *Cancer Res* 37:873-878, 1977.
- Heymsfield SB, Bethel RA, Rudman D. Hyperresponsiveness of patients with clinical and premyopathic myotonic dystrophy to human growth hormone. *J Clin Endocrinol Metab* 45:147-158, 1977.
- Schlant RC, Felner JM, Heymsfield SB, Gilbert CA, Shulman NB, Tuttle EP, Blumenstein BA. Echocardiographic studies of left ventricular anatomy and function in essential hypertension. *Cardiovasc Med* 2:477-491, 1977.
- Gilbert CA, Nutter DO, Felner JM, Perkins JV, Heymsfield SB, Schlant RC. Echocardiographic study of cardiac dimensions and function in the endurance-trained athlete. *Am J Cardiol* 40:528-533, 1977.
- Cutter G, Heymsfield SB, Kraus J, Lee ES, McDill M, Stamler T, Watson R. Race, education and prevalence of hypertension. *Am J Epidemiol* 106:351-361, 1977.
- Heymsfield SB, Bethel RA, Hall EC, Mills JB, Moseley MH, Kostyo JL, Rudman D. Anabolic actions of reduced and S-Carbamidomethylated human growth hormone and its plasmin digest in man. *J Clin Invest* 60:563-570, 1977.
- Vincenti FG, Heymsfield SB. Reversible malignant hypertension and azotemia due to urethral stricture. *Arch Intern Med* 137:370-372, 1977.
- Heymsfield SB, Bethel RA, Ansley JD, Gibbs DM, Felner JM, Nutter DO. Cardiac abnormalities in cachectic patients before and during nutritional repletion. *Am Heart J* 95:584-594, 1978.

Heymsfield SB, McNish T, Perkins JV, Felner JM. Sequence of cardiac changes in Duchenne muscular dystrophy. *Am Heart J* 95:283-294, 1978.

Rudman D, Davis GT, Priest JH, Patterson JH, Kutner MH, Heymsfield SB, Bethel RA. Prevalence of growth hormone deficiency in children with cleft lip or palate. *J Pediatr* 93:378-382, 1978.

Bethel RA, Jansen RD, Heymsfield SB, Ansley JD, Hersh T, Rudman D. Nasogastric hyperalimentation through a polyethylene catheter: an alternative to central venous hyperalimentation. *Am J Clin Nutr* 32:1112-1120, 1979.

Heymsfield SB, Olafson RP, Kutner MH, Nixon DW. A radiographic method of quantifying protein-calorie undernutrition. *Am J Clin Nutr* 32:693-702, 1979.

Nutter DO, Murray G, Heymsfield SB, Fuller EO. The effect of chronic protein-calorie undernutrition in the rat on myocardial function and cardiac function. *Circ Res* 45:144-152, 1979.

Heymsfield SB, Fulenwider T, Nordlinger B, Barlow R, Sones P, Kutner M. Accurate measurement of liver, kidney and spleen volume and mass by computerized axial tomography. *Ann Intern Med* 90:185-187, 1979.

Heymsfield SB, Noel R, Lynn M, Kutner M. Accuracy of soft tissue density predicted by CT. *J Comput Assist Tomogr* 3:859-360, 1979.

Heymsfield SB, Bethel RA, Ansley JD, Nixon DW, Rudman D: Enteral hyperalimentation: an alternative to central venous hyperalimentation. *Ann Intern Med* 90:63-71, 1979.

Heymsfield SB, Nutter DO. The heart in protein-calorie undernutrition. In: Hurst JW, ed. *Update 1: The Heart*. New York: McGraw-Hill, 191-209, 1979.

Heymsfield SB, Horowitz J, Lawson D. Enteral hyperalimentation. In: Berk E, ed. *Developments in digestive diseases*. Philadelphia: Lea & Febiger, 59-83, 1980.

Nixon DW, Heymsfield SB, Cohen AE, Kutner MH, Ansley J, Lawson DH, Rudman D. Protein-calorie undernutrition in hospitalized cancer patients. *Am J Med* 68:683-690, 1980.

Horowitz JH, Smith J, Heymsfield SB. Nutritional support of the trauma patient. *J Med Assoc* 69:815-819, 1980.

Heymsfield SB, Smith J, Kasriel S, Barlow J, Lynn MJ, Nixon D, Lawson D. Energy malabsorption: measurement and nutritional consequences. *Am J Clin Nutr* 34:1954-1960, 1981.

Horowitz JH, Rypins EB, Henderson JM, Heymsfield SB, Moffitt SD, Bain RP, Chawla RK, Bleier JC, Rudman D. Evidence for impairment of transsulfuration pathway in cirrhosis. *Gastroenterology* 81:668-675, 1981.

Lawson DH, Nixon DW, Kutner MH, Heymsfield SB, Rudman D, Moffitt S, Ansley J, Chawla R. Enteral versus parenteral nutritional support in cancer patients. *Cancer Treat Rep* 65 (supplement 5): 101-106, 1981.

Nixon DW, Lawson DH, Kutner M, Ansley J, Schwartz M, Heymsfield SB, Chawla R, Cartwright TH, Rudman D. Hyperalimentation of the cancer patient with protein-calorie undernutrition. *Cancer Res* 41:2038-2045, 1981.

Henderson JM, Heymsfield SB, Horowitz J, Kutner MH. Measurement of liver and spleen volume by computed tomography. An assessment of reproducibility, and changes found following a selective distal splenorenal shunt. *Radiology* 141:525-527, 1981.

Nixon DW, Moffitt S, Lawson DH, Ansley J, Lynn MJ, Kutner MH, Heymsfield SB, Wesley M, Chawla R, Rudman D. Total parenteral nutrition as an adjunct to chemotherapy of metastatic colorectal cancer. *Cancer Treat Rep* 65; Supplement 5;121-128, 1981.

Darsee JR, Fulenwider JT, Rikkers LF, Ansley JD, Nordlinger BF, Ivey G, Heymsfield SB. Hemodynamics of LeVeen shunt pulmonary edema. *Ann Surg.* 1981;194:189-92.

Heymsfield SB, Noel R. Radiographic analysis of body composition by computerized axial tomography. In: Ellison N and Newell G, eds. *Nutr Cancer* 17:161-172, 1981.

Nixon DW, Moffitt S, Olkowski Z, Ansley J, Kutner M, Lawson DH, Heymsfield SB, Lynn M, Rudman D. Parenteral nutrition supplementation in cancer. In: Howard, Alan, Baird, McLean, eds. *Recent Advances in Clinical Nutrition*. London: John Libby & Co, 1981.

Heymsfield SB, Smith JL, Redd S, Whitworth HB. Nutritional support in cardiac failure. In: Mullen JL, Crosby LO, Rombeau JL, eds. *Symposium on surgical nutrition*. *Surg Clin North Am* 61:635-652, 1981.

Horowitz J, Smith J, Lawson D, Heymsfield SB. Nutritional management of the surgical patient. In: Walker H and Lubin M, eds. *Management of the Surgical Patient*. Boston: Butterworth Publishers, 1982.

Smith J, Horowitz J, Henderson JM, Heymsfield SB. Enteral hyperalimentation in undernourished patients with cirrhosis and ascites. *Am J Clin Nutr* 35:56-72, 1982.

Heymsfield SB, McManus C, Smith J, Stevens V, Nixon DW. Anthropometric measurement of muscle mass: revised equations for calculating bone-free arm muscle area. *Am J Clin Nutr* 36:680-690, 1982.

Smith JL, Arteaga C, Heymsfield SB. Increased ureagenesis and impaired nitrogen use during infusion of a synthetic amino acid formula. *N Eng J Med* 306:1013-1018, 1982.

Heymsfield SB, McManus C, Stevens V, Smith J. Muscle mass: Reliable indicator of protein-energy malnutrition severity and outcome. *Am J Clin Nutr* 35:1192-1199, 1982.

Heymsfield SB, Stevens V, Noel R, McManus C, Smith J, Nixon D. Biochemical composition of muscle in normal and semistarved human subjects: relevance to anthropometric measurements. *Am J Clin Nutr* 36:131-142, 1982.

Brubaker LH, Prisant ML, Heymsfield SB. Computer-assisted nutritional assessment. *Phys Comp* 1:39-41, 1983.

Heymsfield SB, Arteaga C, McManus C, Smith J, Moffitt S. Measurement of muscle mass in humans: validity of the 24 hour urinary creatinine method. *Am J Clin Nutr* 37:478-494, 1983.

Smith JL, Heymsfield SB. Enteral nutritional support: formula preparation from modular ingredients. *JPEN* 7:280-288, 1983.

Heymsfield SB, Smith- Andrews JL, Hersh T. Home nasoenteric feeding for malabsorption and weight loss refractory to conventional therapy. *Ann Intern Med*. 98:168-170, 1983.

Pilbeam SP, Head A, Grossman GD, Staton GW, Heymsfield SB. Undernutrition and the respiratory system (part 1). Metabolic and physiologic consequences. *Resp Ther* 13:65-69, 1983.

Pilbeam SP, Head A, Grossman GD, Staton GW, Heymsfield SB. Undernutrition and the respiratory system (part 2). Nutritional support. *Resp Ther* 13:72-78, 1983.

Heymsfield SB, Smith-Andrews JL, Hersh T. Home nasoenteric feeding for malabsorption and weight loss refractory to conventional therapy. *Ann Intern Med* 98:168-170, 1983.

Affarah HB, Mars RL, Someren A, Smith III HWB, Heymsfield SB. Myoglobinuria and acute renal failure: association with intravenous infusion. *Southern Med J* 77:918-921, 1984.

Heymsfield SB, Tochilin N, McManus CB, Gerron G. Nitrogen Balance. *Clin Consult* 4(1), 1984.

Heymsfield SB, McManus III C, Seitz S, Nixon D, Smith J. Anthropometric assessment of adult protein-energy malnutrition. In: Wright RA and Heymsfield SB, eds. *Nutritional Assessment of the Hospitalized Patient*. Boston: Blackwell Scientific Publications, Inc, 27-82, 1984.

Bagatell CJ, Heymsfield SB. Effect of meal size on myocardial oxygen requirements: implications for postmyocardial infarction diet. *Am J Clin Nutr*, 39:421-426, 1984.

Heymsfield SB, Bleier J, Whitmire L, McManus C, Smith-Andrews J, Hallenbeck J, Hersh T. Nutrient bioavailability from nasojejunal administered enteral formulas: comparison to solid food. *Am J Clin Nutr* 39:243-250, 1984.



McManus C, Newhouse H, Seitz S, Nixon D, Poppendiek H, Heymsfield S. Human gradient-layer calorimeter: development of an accurate and practical instrument for clinical studies. *JPEN* 8(3):317-320, 1984.

Head CA, McManus CB, Seitz S, Grossman GD, Staton GW, Heymsfield SB. A simple and accurate indirect calorimetry system for assessment of resting energy expenditure. *JPEN* 8(1):45-48, 1984.

Hill JO, Heymsfield SB, McManus III C, DiGirolamo M. Meal size and thermic response to food in male subjects as a function of maximum aerobic capacity. *Metabolism* 33:743-749, 1984.

Heymsfield SB, Head CA, McManus III CB, Seitz S, Staton GW, Grossman GD. Respiratory, cardiovascular, and metabolic effects on enteral hyperalimentation: Influence of formula dose and composition. *Am J Clin Nutr* 40:116-130, 1984.

Daly JM, Heymsfield SB, Head CA, Harvey LP, Nixon DW, Katzeff H, Grossman GD. Human energy requirements: Overestimation by widely used prediction equation. *Am J Clin Nutr* 42:1170-1174, 1985.

Isner JM, Roberts WC, Heymsfield SB, Yager J. Anorexia nervosa and sudden death. *Ann Intern Med* 102:49-52, 1985.

Hill JO, DiGirolamo M, Heymsfield SB. Thermic effect of food after ingested versus tube-delivered meals. *Am J Physiol* 248:370-374, 1985.

Head CA, Grossman GD, Jordan JC, Hepler EL, Heymsfield SB. A valve system for the accurate measurement of energy expenditure during mechanically ventilated patients. *Resp Care* 30:969-973, 1985.

Hill JO, DiGirolamo M, Heymsfield SB. A new approach for studying the thermic response to dietary fuels. *Am J Clin Nutr* 42:1290-1298, 1985.

Lawson DH, Stockton LH, Bleier JC, Acosta PB, Heymsfield SB, Nixon DW. The effect of a phenylalanine and tyrosine restricted diet on elemental balance studies and plasma aminograms of patients with disseminated malignant melanoma. *Am J Clin Nutr* 41:73-84, 1985.

Heymsfield SB, McManus CB. Tissue components of weight loss in cancer patients. *Cancer* 55:238-249, 1985.

Heymsfield SB, McManus C, Hill J, DiGirolamo M, Nixon D, Head A, Grossman G. Bioenergetic studies in adult patients recovering from semi-starvation. *Int J of Obesity* 9(supp. 2): 147-153, 1985.

Heymsfield SB, Andrews JS. Enteral nutritional support. In: Berk JE, ed. *Bockus: Gastroenterology*. Vol 7, 4th edition. Philadelphia: W.B. Saunders Co, 4361-4378, 1985.

Heymsfield SB. Human Body Composition: Analysis by computerized axial tomography and nuclear magnetic resonance. In: Vargan NG, ed. Human Body Composition and Fat Distribution. EURO-NUT report 8; CIP-Gegevens Koninklijke Bibliotheek, Den Haag, 1985.

Heymsfield SB. Clinical Assessment of Lean Tissues: Future Directions. In: Roche, AF, ed. Body-Composition Assessments in Youth and Adults. Ohio: Ross Laboratories, 6th Conference, 53-59, 1985.

Affarah HB, Hall WD, Heymsfield SB, Kutner M, Wells JO, Tuttle EP. High- carbohydrate diet: Antinatriuretic and blood pressure response in normal men. *Am J Clin Nutr* 44:341-348, 1986.

Heymsfield SB, Erbland M, Casper K, Grossman G, Roongpisuthipong C, Hoff J, Head A. Enteral Nutritional Support: Metabolic, Cardiovascular and Pulmonary Interrelations. In: Askanazi J ed. Clinics in Chest Medicine. Vol 7(1), Philadelphia: W.B. Saunders, 41-67, 1986.

Heymsfield SB, Casper K. Anthropometric assessment of the adult hospitalized patient. *JPEN* 11:36S-41S, 1987.

Heymsfield SB, Casper K, Funfar J. Physiologic response and clinical implications of nutrition support. *Am J Cardiol* 60:75G-81G, 1987

Heymsfield SB, Hill JO, Evert M, Casper K, DiGirolamo M. Energy Expenditure during continuous intragastric infusion of fuel: influence of formula infusion rate. *Am J Clin Nutr* 45:526-533, 1987.

Roongpisuthipong C, Heymsfield SB, Casper K, Hill JO. Continuous nasoenteral feeding: inverse relation between infusion rate and serum levels of bilirubin. *JPEN* 11:544-546, 1987.

Heymsfield SB, Rolandelli R, Casper K, Settle RG, Korunda M. Application of electromagnetic and sound waves in nutritional assessment. *JPEN* 11:64S-69S, 1987.

Leff ML, Hill JO, Yates AA, Costonis GA, Heymsfield SB. Resting metabolic rate: measurement reliability. *JPEN* 11(4):354-358, 1987.

Heymsfield SB, Casper K, Grossman GD. Bioenergetic and metabolic response to continuous versus intermittent nasoenteric feeding. *Metabolism* 36(6):570-575, 1987.

Evans WK, Nixon DW, Daly JM, Ellenberg SS, Gardner L, Wolfe E, Shepherd FA, Feld R, Gralla R, Fine S, Kemeny N, Jeejeebhoy KN, Heymsfield S, Hoffman FA. A randomized study of oral nutritional support versus ad lib nutritional intake during chemotherapy for advanced colorectal and non-small-cell lung cancer. *J Clin Oncol* 5(1):113-124, 1987.

Heller PA, Shrouts E, Akrabawi S, Heymsfield SB. Free amino acid formula: nitrogen utilization and metabolic effects in normal subjects. *JPEN* 11(6):533-539, 1987.

Heymsfield SB. Human body composition: analysis by computerized axial tomography and nuclear magnetic resonance. AIN Symposium Proceedings. Nutrition, 1987.

Heymsfield SB, Smith-Andrews J, Hood R, Williams PJ, Bagatell CJ. Nutrition and the heart. In: Grand R and Sutphin D, eds. *The Theory and Practice of Nutrition in Pediatrics*. Boston: Butterworths Publishers, 1987.

Nixon DW, Kutner M, Heymsfield SB, Foltz AT, Carty C, Seitz S, Casper K, Evans WK, Jeejeebhoy KN, Daly JM, Heber D, Poppendiek H, Hoffman FA. Resting energy expenditure in lung and colon cancer. *Metabolism* 37(11):1059-1064, 1988.

Heymsfield SB, Roongpisuthipong C, Evert M, Casper K, Heller P, Akrabawi SS. Fiber supplementation of enteral formulas: effects on the bioavailability of major nutrients and gastrointestinal tolerance. *JPEN* 12:265-73, 1988.

Heymsfield SB, Casper K. Continuous nasoenteric feeding: bioenergetic and metabolic response during recovery from semistarvation. *Am J Clin Nutr* 47:900-910, 1988.

Baumgartner RN, Heymsfield SB, Roche AF, Bernardino M. Abdominal composition quantified by computed tomography. *Am J Clin Nutr* 48:936-945, 1988.

Heymsfield SB, Hoff RD, Gray TF, Galloway J, Casper K. Heart Diseases. In: Kinney JM, ed. *Nutrition and Metabolism in Patient Care*. Philadelphia: W.B. Saunders Co, 1988.

Heymsfield SB, Williams PJ. Nutritional assessment by clinical and biochemical methods. In: Shils ME and Young VR, eds. *Modern Nutrition in Health and Disease*. Philadelphia: Lea & Febiger, Seventh edition, 817-860, 1988.

Horowitz J, Roongpisuthipong C, Hoff J, Heymsfield SB. Nutritional Management of the Surgical Patient; Chapter 1 in *Medical Management of the Surgical Patient*, 1st and 2nd edition. Boston: Butterworth Publishers, 1982 (1st ed), and 1988 (2nd ed).

Horowitz J, Roongpisuthipong C, Hoff J, Heymsfield SB. Methods of Nutritional Support; Chapter 2 in *Medical Management of the Surgical Patient*, 2nd edition. Boston: Butterworth Publishers, 1988.

Heymsfield SB. Anthropometric measurements in acute and chronic illness. In: Lohman TG, Roche AF, Martorell R, eds. *Anthropometric Standardization Reference Manual*. Champaign, III: Human Kinetics Books, 1988.

Heymsfield SB, Christy GW, Bills E, Payne Y. Nutrition and Cardiovascular Disease. *Current Therapy in Nutrition*. K Jeejeebhoy, B.C. Decker, Burlington, Ontario, 245-260, 1988.

Heymsfield SB. Editor of Nutrition Section and author/co-author of nine chapters in *Medicine for the Practicing Physician*. Hurst W, ed. Boston: Butterworth Publishers, 1983. 2nd edition, 1988.

Heymsfield SB, Hoff RD, Gray TF, Galloway J, Casper K. Heart Diseases. In: Kinney JM, Jeejeebhoy KN, Hill GL, Owen OE, eds. *Nutrition and Metabolism in Patient Care*. Philadelphia: W.B. Saunders Co., Ch. 26, 477-509, 1988.

Merritt RJ, Heymsfield SB, Howard L, Rombeau J. Biennial survey of physician clinical nutrition training programs. *Am J Clin Nutr* 47:911-921, 1988.

Heymsfield SB. Postgraduate physician training in nutrition: the 1985 American Society of Clinical Nutrition survey. *J Nutr Educ* 20(1):S20-S24, 1988.

Heymsfield SB, Ferraro R, Mezitis NHE. Parenteral nutrition in adults. In: Rakel R.E. ed. *Conn's Current Therapy*. Philadelphia: W.B. Saunders Co., 537-541, 1989.

Heymsfield SB, Casper K, Hearn J, Guy D. Rate of weight loss during underfeeding: relation to level of physical activity. *Metabolism* 38(3):215-223, 1989.

Heymsfield SB, Casper K. Congestive heart failure: clinical management by use of continuous nasoenteric feeding. *Am J Clin Nutr* 50:539-544, 1989.

Heymsfield SB, Wang J, Heshka S, Kehayias JJ, Pierson RN Jr. Dual-photon absorptiometry: comparison of bone mineral and soft tissue mass measurement in vivo with established methods. *Am J Clin Nutr* 49:1283-1289, 1989.

Heymsfield SB, Wang J, Kehayias J, Heshka S, Lichtman S, Pierson RN Jr. Chemical determination of human body density in vivo: relevance to hydrodensitometry. *Am J Clin Nutr* 50:1282-1289, 1989.

Wang J, Heymsfield SB, Aulet M, Thornton JC, Pierson RN Jr. Body fat from body density: underwater weighing vs. dual photon absorptiometry. *Am J Physiol* E829-E834, 1989.

Heymsfield SB, Wang J, Lichtman S, Kamen Y, Kehayias J, Pierson RN Jr. Body composition in elderly subjects: a critical appraisal of clinical methodology. *Am J Clin Nutr* 50:1167-1175, 1989.

Reinus JF, Heymsfield SB, Wiskind R, Casper K, Galambos JT. Ethanol: relative fuel value and metabolic effects in vivo. *Metabolism* 38:125-135, 1989.

Heymsfield SB, Smith R, Aulet M, Bensen B, Lichtman S, Wang J, Pierson RN Jr. Appendicular skeletal muscle mass: measurement by dual photon absorptiometry. *Am J Clin Nutr* 52:214-218, 1990.

Heymsfield SB, Lichtman S, Baumgartner RN Jr, Wang J, Kamen Y, Aliprantis A, Pierson RN Jr. Body composition of humans: comparison of two improved four-compartment models that differ in expense, technical complexity, and radiation exposure. *Am J Clin Nutr* 52:52-58, 1990.

Devlin MJ, Walsh BT, Kral JG, Heymsfield SB, Pi-Sunyer FX, Dantzig S. Metabolic abnormalities in bulimia nervosa. *Arch Gen Psych* 47:144-148, 1990.

Casper K, Matthews DE, Heymsfield SB. Overfeeding: cardiovascular and metabolic response during continuous formula infusion in adult humans. *Am J Clin Nutr* 52:602-609, 1990.

VanItallie TB, Yang MU, Heymsfield SB, Funk RC, Boileau RA. Height-normalized indices of the body's fat-free mass and fat mass: potentially useful indicators of nutritional status. *Am J Clin Nutr* 52:953-959, 1990.

Heymsfield SB, Wang J, Aulet M, Kehayias J, Lichtman S, Kamen Y, Dilmanian FA, Lindsay R, Pierson RN Jr. Dual photon absorptiometry: validation of mineral and fat measurements. In: Yasumura S, et al, eds. *Advances in Vivo Body Composition Studies*. New York: Plenum Press, 327-337, 1990.

Heymsfield SB. Cardiac cachexia: An overview. In: Tanaka T, Okada, eds. *A Nutritional Support in Organ Failure*. Amsterdam: Excerpta Medica, 1990.

Dilmanian FA, Weber DA, Yasumura S, Kamen Y, Lidofsky L, Heymsfield SB, Pierson RN Jr, Wang J, Kahayias JJ, Ellis KJ. The performance of the BNL delayed-and prompt-gamma neutron activation systems. In: Yasumura S, et al, eds. *Advances in Vivo Body Composition Studies*. New York: Plenum Press, 309-316, 1990.

Kehayias JJ, Heymsfield SB, Dilmanian FA, Wang J, Gunther DM, Pierson RN Jr. Measurement of body fat by neutron inelastic scattering: comments on installation, operation and error analysis. In: Yasumura S, et al, eds. *Advances in Vivo Body Composition Studies*. New York: Plenum Press, 339-346, 1990.

Pierson RN Jr, Wang J, Heymsfield SB, Dilmanian FA, Weber DA. High precision in vivo neutron activation analysis: a new era for compartmental analysis in body composition. In: Yasumura S, et al, eds. *Advances in Vivo Body Composition Studies*. New York: Plenum Press, 317-325, 1990.

Heymsfield SB. Anthropometric measurements: application in hospitalized patients. *Infusionstherapie* 17 (suppl 3):48-51, 1990.

Heymsfield SB, Lichtman SW. New approaches to body composition research: a reexamination of two-compartment model assumptions. *Infusionstherapie* 17(suppl 3): 4-8, 1990.

Heymsfield SB, Waki M. Body composition in humans: advances in the development of multicompartment chemical models. *Nutr Rev* 49:97-108, 1991.

Kotler DP, Tierney AR, Ferraro R, Cuff P, Wang J, Pierson RN Jr, Heymsfield SB. Enteral alimentation and repletion of body cell mass in malnourished patients with acquired immunodeficiency syndrome. *Am J Clin Nutr* 53:1-6, 1991.

Kehayias JJ, Heymsfield SB, LoMonte AF, Wang J, Pierson RN Jr. In vivo determination of body fat by measuring total body carbon. *Am J Clin Nutr* 53:1339-1344, 1991.

Heymsfield SB, Waki M, Kehayias J, Lichtman S, Dilmanian FA, Kamen Y, Wang J, Waki M, Pierson RN Jr. Chemical and elemental analysis of human in vivo using improved body composition models. *Am J Physiol* 261:190-198, 1991.

Pierson RN Jr, Wang J, Heymsfield SB, Aulet M, Mazariegos M, Tierney M, Smith R, Thornton J. Measuring body fat: calibrating the rulers. intermethod comparisons in 389 normal Caucasian subjects. *Am J Physiol* 261:103-108, 1991.

Baumgartner RN, Heymsfield SB, Lichtman S, Wang J, Pierson RN Jr. Body composition in elderly people: effect of criterion estimates on predictive equations in the elderly. *Am J Clin Nutr* 53:1345-1353, 1991.

Geliebter A, Melton PM, McCray RS, Gage D, Heymsfield SB, Abiri M, Hashim SA. Clinical trial of silicone-rubber gastric balloon to treat obesity. *Intern J Obesity* 15:259-266, 1991.

Waki M, Kral JG, Mazariegos M, Wang J, Pierson RN Jr, Heymsfield SB. Relative expansion of extracellular fluid in obese versus nonobese women. *Am J Physiol* 261:199-203, 1991.  
Matthews DE, Heymsfield SB. ASPEN 1990 research workshop on energy metabolism. *JPEN* 15:3-14, 1991.

Heymsfield SB, Baumgartner RN, Dilmanian FA, Lichtman S, Kamen Y. Assessment of body composition: In: Brodoff B, Bjorntorp P, Lippincott JB, eds. *Obesity*. Philadelphia, Pa, 1991.

Heymsfield SB, Cuff P, Kotler DP. Acquired Immunodeficiency Syndrome: Enteral and Parenteral Support. In: Kotler DP, ed. *Nutritional Management of the AIDS Patient*. New York: Raven Press, 1991.

Heymsfield SB. Body composition methodology: advanced methods. In: Fidanza F, ed. *Nutritional Status Assessment: A manual for population studies*. London: Chapman & Hall, 83-96, 1991.

Ortiz O, Russell M, Daley TL, Baumgartner RN, Waki M, Lichtman S, Wang J, Pierson RN Jr, Heymsfield SB. Differences in skeletal muscle and bone mineral mass between black and white females and their relevance to estimates of body composition. *Am J Clin Nutr* 55:8-13, 1992.

Berman WH, Raynes-Berman E, Heymsfield SB, Fauci M, Ackerman S. The incidence and comorbidity of psychiatric disorders in obesity. *J Pers Dis* 6:168-175, 1992.

Wang J, Russell M, Mazariegos M, Burastero S, Thornton J, Lichtman S, Heymsfield SB, Pierson RN Jr. Body fat by dual photon absorptiometry: comparisons with traditional methods in Asians, blacks, and Caucasians. *Am J Hum Biol* 4:501-510, 1992.

Wang ZM, Pierson RN Jr, Heymsfield SB. The five level model: a new approach to organizing body composition research. *Am J Clin Nutr* 56:19-28, 1992.

Lichtman SW, Pisarska K, Berman E, Pestone M, Dowling H, Offenbacher E, Weisel H, Heshka S, Matthews DE, Heymsfield SB. Discrepancy between self-reported and actual caloric intake and exercise in obese subjects. *N Eng J Med* 327:1893-1898, 1992.

Mazariegos M, Kral JG, Wang J, Waki M, Heymsfield SB, Pierson RN Jr, Thornton JC, Yasumura S. Body composition and surgical treatment of obesity: effects of weight loss on fluid distribution. *Ann Surg* 216:69-73, 1992.

Allison DB, Heshka S, Pierson RN Jr, Wang J, Heymsfield SB. The analysis and identification of homologizer/moderator variables when the moderator is continuous: an illustration with anthropometric data. *Am J Human Biol* 4:775-782, 1992.

Albu J, Smolowitz J, Lichtman S, Heymsfield SB, Wang J, Pierson RN Jr., Pi-Sunyer FX. Composition of weight loss in severely obese women: a new look at old methods. *Metabolism* 41(10):1068-1074, 1992.

Heymsfield SB, Wang ZM, Baumgartner RN, Dilmanian FA, Ma R, Yasumura S. Body Composition and aging: a study by in vivo neutron activation analysis. *J Nutr* 123:432-437, 1993.

Harlan LC, Coates RJ, Block G, Greenberg R, Ershow A, Forman M, Austin DF, Chen V, Heymsfield SB. Estrogen receptor status and dietary intakes in breast cancer patients. *Epidemiology* 4:25-31, 1993.

Berman WH, Berman ER, Heymsfield SB, Fauci M, Ackerman S. The effect of psychiatric disorders on weight loss in obesity clinical patients. *Behav Med* 18:167-172, 1993.

Waki M, Heshka S, Heymsfield SB. Long-term lipid lowering, behavior modification, and weight loss in obese women. *Nutrition* 9:23-28, 1993.

Baumgartner RN, Rhyne RL, Garry PJ, Heymsfield SB. Imaging techniques and anatomical body composition in aging. *J Nutr* 123 (Suppl 2):444-8, 1993.

Heshka S, Feld K, Yang M, Allison DB, Heymsfield SB. Resting energy expenditure in the obese: a cross-validation and comparison of prediction equations. *J Am Diet Assoc* 93:1031-6, 1993.

Allison DB, Hoy K, Fournier A, Heymsfield SB. Can ethnic differences in men's preferences for woman's body shapes contribute to ethnic differences in female adiposity? *Obes Res* 1:425-432, 1993.

Allison DB, Heshka S, Heymsfield SB. Evidence of a major gene with pleiotropic action for a cardiovascular disease risk syndrome in children younger than 14 years. *Am J Dis Child* 147:1298-1302, 1993.

Allison DB, Heshka S, Sepulveda D, Heymsfield SB. Counting calories: caveat emptor. *JAMA* 270:1454-1456, 1993.

Allison DB, Heshka S, Gorman BS, Heymsfield SB. Evidence of commingling in human eating behavior. *Obes Res* 1:339-344, 1993.

Roubenoff R, Kehayias JJ, Dawson-Hughes B, Heymsfield SB. Use of dual energy x-ray absorptiometry in body composition studies: not yet a gold standard. *Am J Clin Nutr* 58:589-91, 1993.

Heymsfield SB, Wang ZM. Bioimpedance analysis: modeling approach at the five-levels of body composition and influence of ethnicity. *Age Nutr* 5:106-110, 1994.

Heymsfield SB, Heshka S, Matthews DE. Doubly labeled water measures energy use. *Scientific American; Sci Med* 1: 74-83, 1994.

Zumoff B, Strain GW, Heymsfield SB, Lichtman S. A randomized double-blind crossover study of the antiobesity effects of etiocholanedione. *Obes Res* 2(1):13-18, 1994.

Penn I, Wang ZM, Buhl K, Allison DB, Burastero S, Heymsfield SB. Body composition and two-compartment model assumptions in male long distance runners. *Med Sci Sports Exerc* 26:392-7, 1994.

Heymsfield SB, Allison DB, Pi-Sunyer FX, Sun Y. Columbia respiratory chamber indirect calorimeter: a new approach to air flow modeling. *Med Biol Eng Comp* 32:406-410, 1994.

Allison DB, Neale MC, Heshka S, Heymsfield SB. Race effects in the genetics of adolescent's body mass index. *Int J Obes* 18:363-368, 1994.

Gerace L, Aliprantis A, Russell M, Baumgartner RN, Wang ZM, Wang J, Pierson RN Jr, Heymsfield SB. Skeletal differences between black and white males and their relevance body composition estimates. *Am J Hum Biol* 6:255-62, 1994.

Mazariegos M, Wang ZM, Gallagher D, Baumgartner RN, Wang J, Pierson RN Jr, Heymsfield SB. Aging in females: changes in the five levels of body composition and their relevance to the two-compartment chemical model. *J Gerontol Med Sci* 49:201-208, 1994.

Paccagnella A, Calo M, Caenaro G, Salandin V, Jus P, Simini G, Heymsfield SB. Cardiac cachexia: Pre-operative and post-operative nutritional management. *JPEN* 18:409-416, 1994.

Allison DB, Heshka S, Neale MC, Lykken DT, Heymsfield SB. A genetic analysis of relative weight among 4020 twin pairs with an emphasis of sex effects. *Health Psych* 13(4):362-365, 1994.



Wang J, Thornton JC, Russell M, Burastero S, Heymsfield SB, Pierson RN Jr. Asians have lower body mass index but higher fat % than whites: comparisons of anthropometric measurements. *Am J Clin Nutr* 60:23-8, 1994.

Kanders BS, Ullmann-Joy P, Foreyt JP, Heymsfield SB, Heber D, Elashoff RM, Ashley JM, Reeves RS, Blackburn GL. The black American lifestyle intervention (BALI): the design of a weight loss program for working class African American women. *J Am Diet Assoc* 34(3):310-2, 1994.

Bursztein De Myttenaere S, Gil K, Heymsfield SB, Furst P, Askanazi J, D'Attellis N, Elwyn DH. Gastric emptying in humans: influence of different regimens of parenteral nutrition. *Am J Clin Nutr* 60:244-8, 1994.

Hoy K, Heshka S, Allison D, Grasset E, Blank R, Abiri M, Heymsfield SB. Obesity and hepatobiliary abnormalities: reduced risk of liver function test changes and new gallstone formation with weight loss on low calorie diets. *Am J Clin Nutr* 60:249-54, 1994.

Heymsfield SB, Gallagher D, Poehlman ET, Wolper C, Nonas K, Nelson D, Wang ZM. Menopausal changes in body composition and energy expenditure. *Exp Gerontol* 29:377-389, 1994.

Steinbach G, Heymsfield SB, Olansen NE, Tighe A, Holt PR. Effect of caloric restriction on colonic proliferation in obese persons: implications for colon cancer prevention. *Cancer Res* 54:1194-7, 1994.

Blank DM, Clark RV, Heymsfield SB, Rudman DR, Blank MS. Endogenous opioids and hypogonadism in human obesity. *Brain Res Bulletin* 34:571-574, 1994.

Economos CD, Nelson ME, Fiatarone MA, Dallal G, Kehayias J, Heymsfield SB, Wang J, Zhao M, Yasumura S, Ma RM, Vaswani A, Pierson R. Determination of bone mineral content by Lunar, Hologic, and Norland dual energy x-ray absorptiometers (DXA), delayed gamma neutron activation (DGNA), and chemical analysis. *Am J Clin Nutr* 56:93-98, 1994.

Heymsfield SB, Darby PC, Muhlheim LS, Gallagher D, Wolper C, Allison DB. The calorie: myth, measurement, and reality. *Am J Clin Nutr* 62:1034S-1041S, 1995.

Spitz A, Heymsfield SB, Blank RC. Drug therapy for obesity: clinical considerations. *End Pract* 1(4):274-279, 1995.

Wang J, Thornton JC, Burastero S, Heymsfield SB, Pierson RN Jr. Bio-impedance analysis for estimation of total body potassium, total body water, and fat-free mass in white, black and Asian adults. *Am J Hum Biol* 7: 33-40, 1995.

Allison DB, Kanders BS, Osage GD, Heymsfield SB, Heber D, Foreyt JP, Elashoff RM, Blackburn GL. Weight-related attitudes and beliefs among obese African American Women. *J Nutr Ed* 27(1):18-23, 1995.

Sepulveda D, Allison DB, Gomez JE, Brown RA, Pierson RN Jr, Heymsfield SB. Low spinal and pelvic bone mineral density among individuals with down syndrome. *Am J Ment Retard* 100:109-114, 1995.

Allison DB, Gomez JE, Heshka S, Babbitt RL, Geliebter A, Kreibich K, Heymsfield SB. Decreased resting metabolic rate among persons with down syndrome. *Int J Obes* 19:858-861, 1995.

Allison DB, Paultre F, Heymsfield SB, PiSunyer FX. Is the intra-uterine period really a critical period for the development of adiposity? *Int J Obes* 19:397-402, 1995.

Allison DB, Heshka S, Neale MC, Tishler PV, Heymsfield SB. Genetic, environmental, and phenotypic links between body mass index and blood pressure among women. *Am J Med Gen* 55:335-341, 1995.

Buhl KM, Gallagher D, Hoy K, Matthews DE, Heymsfield SB. Unexplained disturbance in body weight regulation: diagnostic outcome in patients referred for obesity evaluation reporting low energy intakes. *J Am Diet Assoc* 12:1393-1400, 1995.

Allison DB, Paultre F, Goran MI, Poehlman ET, Heymsfield SB. Statistical considerations regarding the use of ratios to adjust data. *Int J Obes* 19:638-643, 1995.

El-Gamal A, Gallagher D, Nawras A, Gandhi P, Gomez J, Allison D, Steinberg JS, Shumacher D, Blank R, Heymsfield SB. Effects of obesity on QT, RR, and QTc intervals. *Am J Cardiol* 75:956-959, 1995.

Gasparino JA, Wang J, Pierson RN Jr, Heymsfield SB. Age-related changes in musculoskeletal mass between black and white women. *Metabolism* 44: 30-34, 1995.

Pierson RN Jr, Wang J, Thornton JC, Kotler DP, Heymsfield SB, Weber DA, Ma RM. Bone mineral and body fat measurements by two absorptiometry systems: comparisons with neutron activation analysis. *Calc Tissue Int* 56:93-98, 1995.

Allison DB, Kreibich K, Heshka S, Heymsfield SB. A randomized placebo-controlled clinical trial of an acupuncture device for weight loss. *Int J Obes* 19:653-658, 1995.

Wang ZM, Heshka S, Pierson R, Heymsfield SB. Systematic organization of body-composition methodology: an overview with emphasis on component-based methods. *Am J Clin Nutr* 61: 457-65, 1995.

Heymsfield SB, Gallagher D, Visser M, Nuñez C, Wang ZM. Measurement of skeletal muscle: laboratory and epidemiological methods. *Journal of Gerontology* 50: A23-A29, 1995.

Heymsfield SB, Wang ZM, Visser M, Gallagher D, Pierson RN Jr. Techniques used in the measurement of body composition: an overview with emphasis on bioelectrical impedance analysis. *Am J Clin Nutr* 64:487S-494S, 1996.

Heshka S, Heymsfield SB, Nuñez C, Fittante AM, Spitz A, Pisunyer FX. Obesity and risk of gallstone development on 1200 kcal/d regular food diet. *Int J Obes* 20:450-454, 1996.

Wang J, Thornton JC, Burastero S, Tanenbaum S, Heymsfield SB, Pierson Jr. R.N. Comparison of body mass index and body fat percent among Puerto Ricans, Blacks, Whites, and Asians living in the New York City area. *Obes Res* 4:377-384, 1996.

Wang ZM, Visser M, Ma R, Baumgartner RN, Kotler D, Gallagher D, Heymsfield SB. Skeletal muscle mass: evaluation by neutron activation and dual energy X-ray absorptiometry methods. *J Appl Physiol* 80(3):824-831, 1996.

Gallagher D, Visser M, Sepulveda D, Pierson RN Jr, Harris T, Heymsfield SB. How useful is body mass index for comparison of body fatness across age, gender, and ethnic groups? *Am J Epidem* 143:228-239, 1996.

Allison DB, Neale MC, Kezis MI, Alfonso VC, Heshka S, Heymsfield SB. Assortative mating for relative weight: genetic implications. *Behav Gen* 26:103-111, 1996.

Rosenbaum M, Ravussin E, Matthews DE, Gilker C, Ferraro R, Heymsfield SB, Hirsch J, Leibel RL. A comparative study of different means of assessing long-term energy expenditure in humans. *Am J Physiol* 270:496-504, 1996.

Wang ZM, Gallagher D, Nelson MG, Matthews DE, Heymsfield SB. Total body skeletal muscle mass: evaluation of 24 hour urinary creatinine excretion method by computerized axial tomography. *Am J Clin Nutr* 63:863-869, 1996.

Gallagher D, Visser M, Wang ZM, Harris T, Pierson RN Jr, Heymsfield SB. Metabolically active component of fat-free body mass: influences of age, adiposity, and gender. *Metabolism* 45:992-997, 1996.

Wang ZM, Sun YG, Heymsfield SB. Urinary creatine skeletal muscle mass method: a prediction equation based on computerized axial tomography. *Biomed Envir Sci* 9: 185-190, 1996.

Rosenbaum M, Nicolson M, Hirsch J, Heymsfield SB, Gallagher D, Chu F, Leibel R. Effects of Gender, Body Composition, and Menopause on Plasma Concentrations of Leptin. *J Clin Endocrinology and Metabolism* 81(9): 3424-3427, 1996.

Pietrobelli A, Formica C, Wang ZM, Heymsfield SB. Dual-energy X-ray absorptiometry body composition model: review of physical concepts. *Am J Physiol* 271:941-51, 1996

- Núñez C, Gallagher D, Visser M, PiSunyer FX, Wang ZM, Heymsfield SB. Bioimpedance analysis: evaluation of leg-to-leg system based on pressure contact foot-pad electrodes. *Med Sci Sports Exerc* 29(4):524-531, 1997.
- Gallagher D, Visser M, De Meersman RE, Sepúlveda D, Baumgartner RN, Pierson RN Jr, Harris T, Heymsfield SB. Appendicular skeletal muscle mass: effects of age, gender, and ethnicity. *J Appl Physiol* 82(1):229-239, 1997.
- Pietrobelli A, Rothacker D, Gallagher D, Heymsfield SB. Electrocardiographic QT<sub>c</sub> interval: short-term weight loss effects. *Int J Obes* 21:110-114, 1997.
- Roubenoff R, Heymsfield SB, Kehayias JJ, Cannon JG, Rosenberg IH. Standardization of nomenclature of body composition in weight loss. *Am J Clin Nutr* 66:192-196, 1997.
- Zamboni M, Arnellini F, Turcato E, Todisco P, Gallagher D, Grave RD, Heymsfield SB, Bosello O. Body fat distribution before and after weight gain in anorexia nervosa. *Int J Obes* 21:33-36, 1997.
- Visser M, Gallagher D, Deurenberg P, Wang J, Pierson RN Jr, Heymsfield SB. Density of fat-free body mass: relationship with race, age, and level of body fatness. *Am J Physiol* 272:781-787, 1997.
- Allison DB, Gallagher D, Heo M, Pi-Sunyer FX, Heymsfield SB. Body mass index and all-cause mortality among people age 70 and over: the longitudinal study of aging. *Int J Obes* 21:424-431, 1997.
- Geliebter A, Maher M, Gerace L, Gutin B, Heymsfield SB, Hashim S. Effects of strength or aerobic training on body composition, resting metabolic rate, and peak oxygen consumption in obese dieting subjects. *Am J Clin Nutr* 66:557-563, 1997.
- Albu J, Shur M, Curi M, Murphy L, Heymsfield SB, Pi-Sunyer FX. Resting metabolic rate in obese, premenopausal black women. *Am J Clin Nutr* 66:531-538, 1997.
- Wang ZM, Deurenberg P, Wang J, Heymsfield SB. Proportion of adipose tissue-free body mass as skeletal muscle: magnitude and constancy in men. *Am J Hum Bio* 9:487-492, 1997.
- Lederman SA, Paxton A, Heymsfield SB, Wang J, Thornton J, Pierson RN Jr. Body fat and water changes during pregnancy in women with different body weight and weight gain. *Obst Gynecol* 90(4):483-488, 1997.
- Economos CD, Nelson ME, Fiatarone MA, Dallal GE, Heymsfield SB, Wang J, Yasumara, Ma R, Vaswani AN, Russell-Aulet M, Pierson RN. A multi-center comparison of dual energy x-ray absorptiometers: in vivo and in vitro soft tissue measurement. *Euro J Clin Nutr* 51:312-317, 1997.

Nagy D, DeMeersman R, Gallagher D, Pietrobelli A, Zion AS, Daly D, Heymsfield SB. QTc interval (cardiac repolarization): lengthening after meals. *Obes Res* 5(6): 531-537, 1997.

Tan YX, Nuñez C, Sun Y, Zhang K, Wang ZM, Heymsfield SB. New electrode system for rapid whole-body and segmental bioimpedance assessment. *Med Sci Sports Exerc* 29:1269-1273, 1997.

Economos CD, Nelson ME, Fiatarone MA, Dallal GE, Heymsfield SB, Wang J, Yasumura S, Ma R, Vaswani AN, Russell-Aulet M, Pierson RN. A multi-center comparison of dual-energy X-ray absorptiometers: in vivo and in vitro soft tissue measurements. *Eur J Clin Nutr* 1997 May; 51(5):312-7.

Baumgartner RN, Koehler K, Ross RR, Romen L, Gallagher D, Heymsfield SB, Garry PJ, Lindeman RD. Epidemiology of sarcopenia in elderly people in New Mexico. *Am J Epidemiol.* 1998 Apr 15; 147(8):755-63.

Baumgartner RN, Ross R, Heymsfield SB. Does adipose tissue influence bioelectrical impedance in obese men and women? *J Appl Physiol* 84(1):257-262, 1998.

Pietrobelli A, Faith MS, Allison DB, Gallagher D, Chiumello G, Heymsfield SB. Body mass index as a measure of adiposity among children and adolescents: a validation study. *J Ped.* 132(2):204-210, 1998.

Wang ZM, Deurenberg P, Guo SS, Pietrobelli A, Wang J, Pierson Jr. R, Heymsfield SB. Six-compartment body composition model: Inter-method comparisons of total body fat measurement. *Int J Obes.* 22:329-337, 1998.

Gallagher D, Heymsfield SB. Muscle distribution: variations with body weight, gender, and age. *Appl Radiat Isot.* 49(5/6):733-734, 1998.

Pietrobelli A, Gallagher D, Baumgartner RN, Ross R, Heymsfield SB. Lean R Value for DXA two-component soft-tissue model: Influence of age and tissue or organ type. *Appl Radiat Isot* 49(5/6):743-744, 1998.

Heymsfield SB, Gallagher D, Grammes J, Nuñez C, Wang ZM, Pietrobelli A. Upper extremity skeletal muscle mass: potential of measurement with single frequency bioimpedance analysis. *Appl Radiat Isot* 49(5/6):473-474, 1998.

Wang ZM, Deurenberg P, Ruimei MA, Kotler D, Heymsfield SB. Total body oxygen: Assessment from body weight and total body water. *Appl Radiat Isot* 49(5/6):603-605, 1998.

Wang ZM, Deurenberg P, Matthews DE, Heymsfield SB. Urinary 3-methylhistidine excretion: association with total body skeletal muscle mass by computerized axial tomography. *JPEN.* 22(2): 82-86, 1998.

Pietrobelli A, Allison D, Faith M, Beccaria L, Bosio L, Chiumello G, Campfield LA, Heymsfield SB. Prader-Willi Syndrome: Relationship of adiposity to plasma leptin levels. *Obes Res* 6(3): 196-201, 1998.

Comizio R, Pietrobelli A, Tan YX, Wang ZM, Withers RT, Heymsfield SB, Boozer CN. Total body lipid and triglyceride response to energy deficit: relevance to body composition model. *Am J Physiol*. 274: E860-E866, 1998.

Pietrobelli A, Wang ZM, Formica C, Heymsfield SB. Dual-energy x-ray absorptiometry: fat estimation errors due to variation in soft tissue hydration. *Am J Physiol* 274: E808-E816, 1998.

Gallagher D, Belmonte D, Deurenberg P, Wang ZM, Krasnow N, Pi-Sunyer FX, Heymsfield SB. Organ-tissue mass measurement allows modeling of REE and metabolically active tissue mass. *Am J Physiol* 275(2): E249-E258, 1998.

Ricci TA, Chowdhury HA, Heymsfield SB, Stahl T, Pierson RN Jr, Shapses SA. Calcium supplementation suppresses bone turnover during weight reduction. *J Bone and Mineral Res* 13(6): 1045-1050, 1998.

Wang ZM, Deurenberg P, Wang W, Pierson RN, Heymsfield SB. Fraction of carbon-free body mass as oxygen is a constant body composition ratio in men. *J. Nutr* 128:1008-1010, 1998.

Pietrobelli A, Morini P, Battistini N, Chiumello G, Nuñez C, Heymsfield SB. Appendicular skeletal muscle mass: prediction from multiple frequency segmental bioimpedance analysis. *Eur J Clin Nutr* 52: 507-511, 1998.

Mitsiopoulos N, Baumgartner RN, Heymsfield SB, Lyons W, Gallagher D, Ross R. Cadaver validation of magnetic resonance imaging and computerized tomography measurement of human skeletal muscle. *J Appl Physiol* 85(1): 115-122, 1998.

Muhlheim LS, Allison DB, Heshka S, Heymsfield SB. Do unsuccessful dieters intentionally underreport food intake? *Int J Eat Disord* 24: 259-266, 1998.

Allison DB, Nathan JS, Albu JB, Heymsfield SB, Duprat LJ, Pi-Sunyer X. Measurement challenges and other practical concerns when studying massively obese individuals. *Int J Eat Disord* 24: 275-284, 1998.

Shapses SA, Heymsfield SB, Ricci TA. Voluntary weight reduction increases bone turnover and loss. *Serono Symposium* 19:180-184, 1998.

Heymsfield SB, Allison DB, Vasselli JR, Greenfield D, Nuñez C. *Garcinia cambogia* (Hydroxycitric Acid) as a potential anti-obesity agent: A randomized-double blind controlled trial. *JAMA* 280 (18): 1596-1600, 1998.

Paxton A, Lederman SA, Heymsfield SB, Wang J, Thornton JC, Pierson RN Jr. Anthropometric equations for studying body fat in pregnant women. *Amer J Clin Nutr* 67:104-10, 1998.

Davidson M, DiGirolamo M, Foreyt J, Halstead C, Hauptman J, Heber D, Heimburger D, Heymsfield SB, Lucas C, Robbins D, Chung J. Long-term weight control and reduction in risk factors in obese subjects receiving orlistat: a lipase inhibitor. *JAMA* 281 (3): 875-883, 1999.

Lederman SA, Paxton A, Heymsfield SB, Wang J, Thornton J, Pierson RN Jr. Maternal fat and water gain during pregnancy: do they raise infant birth weight? *Am J Obstet Gynecol* 180: 235-240, 1999.

Núñez C, Gallagher D, Grammes J, Baumgartner RN, Ross R, Wang ZM, Thornton J, Heymsfield SB. Bioimpedance analysis: potential for measuring lower limb skeletal muscle mass. *J Par Ent Nutr* 23: 96-103, 1999.

Pietrobelli A, Lee RC, Capristo E, Deckelbaum RJ, Heymsfield SB. An independent, inverse association of high-density lipoprotein cholesterol concentration with nonadipose body mass. *Am J Clin Nutr* 69(4): 614-620, 1999.

Gu W, Tu Z, Kleyn PW, Kissebah A, Duprat L, Lee J, Chin W, Maruti S, Deng N, Fisher SL, Franco LS, Burn P, Yagaloff KA, Nathan J, Heymsfield SB, Albu J, Pi-Sunyer X, Allison DB. Identification and functional analysis of novel human melanocortin-4 receptor variant. *Diabetes* 48(3): 635-639, 1999.

Kim J, Wang ZM, Gallagher D, Kotler DP, Ma K, Heymsfield SB. Extracellular water: sodium bromide dilution estimates compared to other markers in patients with acquired immunodeficiency syndrome. *JPEN* 23(2): 61-66, 1999.

Mott JW, Wang J, Thornton JC, Allison DB, Heymsfield SB, Pierson RN. The relationship between body fat and age in 4 ethnic groups. *Am J Clin Nutr* 69: 1007-1013, 1999.

Clasey JL, Kanaley JA, Wideman L, Heymsfield SB, Teates CD, Gutgesell ME, Thorner MO, Hartman ML, Weltman A. Validity of body composition assessment in younger and older males and females. *J Appl Physiol* 86(5): 1728-1738, 1999.

Núñez C, Kovera AJ, Pietrobelli A, Heshka S, Horlick M, Kehayias JJ, Wang ZM, Heymsfield SB. Body composition in children and adults by air displacement plethysmography. *Eur J Clin Nutr* 53: 382-387, 1999.

Allison DB, Zannolli R, Faith MS, Heo M, Pietrobelli A, VanItalie TB, Pi-Sunyer FX, Heymsfield SB. Weight loss increases and fat loss decreases all-cause mortality rate: Results from two independent cohort studies. *Int J Obesity* 23: 603-611, 1999.

Wang ZM, Deurenberg P, Wang W, Pietrobelli A, Baumgartner RN, Heymsfield SB. Hydration of fat-free body mass: new physiological modeling approach. *Am J Physiol* 276: E995-E1003, 1999.

Faith MS, Pietrobelli A, Nuñez C, Heo M, Heymsfield SB, Allison DB. Evidence for independent genetic influences on fat mass and body mass index in a pediatric twin sample. *Pediatrics* 104:61-67, 1999.

Engelson ES, Kotler DP, Tan YX, Agin D, Wang J, Pierson RN, Heymsfield SB. Fat distribution in HIV-infected patients reporting truncal enlargement quantified by whole-body magnetic resonance imaging. *Am J Clin Nutr* 69:1162-1169, 1999.

Heymsfield SB, Greenberg AS, Fujioka D, Dixon RM, Kushner R, Hunt T, Lubina JA, Patane J, Self B, Hunt P, McCamish M. Effect of escalating dose recombinant leptin on weight loss in obese and non-obese adults: a randomized controlled trial. *JAMA* 282:1493-1596, 1999.

Wang W, Wang ZM, Faith Ms, Kotler D, Shih R, Heymsfield SB. Regional skeletal muscle measurement: evaluation of new dual-energy x-ray absorptiometry model. *J Appl Physiol* 87(3): 1568-1575, 1999.

Wang J, Horlick M, Thornton JC, Levine L, Heymsfield SB, Pierson RN Jr. Correlations between Skeletal Muscle Mass and Bone Mass in Children 6-18 Years: Influences of Sex, Ethnicity, and Pubertal Status. *Growth, Development & Aging* 63:99-109, 1999.

Economos CD, Nelson ME, Fiatarone MA, Singh MA, Kehayias JJ, Dallal GE, Heymsfield SB, Wang J, Yasumura S, Ma R, Pierson RN. Bone mineral measurements: a comparison of delayed gamma neutron activation, dual energy X-ray absorptiometry and direct chemical analysis. *Osteoporos Int* 1999; 10(3):200-6.

Zamboni M, Turcato E, Santana H, Maggi S, Harris TB, Pietrobelli A, Heymsfield SB, Micciolo R, Bosello O. The relationship between body composition and physical performance in older women. *J Am Geriatr Soc* 1999; 47:1403-1408.

Heymsfield SB, Greenberg AS, Fujioka K, Dixon R, Kushner R, Hunt T, Patane J, Self B, McCamish M, Hunt P, Lubina J. Preliminary Safety and Efficacy of Leptin in Lean and Obese Subjects. *JAMA* 282:1230-1240, 1999.

Zingaretti G, Nuñez C, Gallagher D, Heymsfield SB. A New Theoretical Model for Predicting Bioelectrical Impedance Analysis. *Annals of The New York Academy of Sciences*. 904:227-228, 2000.

Punyanita M, Nuñez C, Rubiano F, Heymsfield SB. The Assessment of Stature Using an Infrared Technique. *Annals of The NY Academy of Sciences* 904:276-279, 2000.

Heymsfield SB, Gallagher D, Wang ZM. Body Composition Modeling: Application to Exploration of the Resting Energy Expenditure Fat-free Mass Relationship. *Annals of the NY Academy of Sciences* 904:290-298, 2000.



Wang ZM, Deurenberg P, Heymsfield SB. Cellular-Level Body Composition Model: A New Approach to Studying Fat-Free Mass Hydration. *Annals of the NY Academy of Sciences* 904:306-311, 2000.

Kotler DP, Lopes J, Engelson ES, Wang J, Agin D, Heymsfield SB. Interactions among sex, HIV infection, and fat redistribution. *AIDS Read.* 2000;10:589-94.

Wielopolski L, Vartsky D, Pierson R, Goldberg M, Heymsfield S, Yasumura S, Melnychuk ST, Sredniawski J. Gamma resonance absorption. New approach in human body composition studies. *Ann N Y Acad Sci.* 2000;904:229-35.

Nuñez C, Tan Y, Zingaretti G, Puyanita M, Rubiano F, Wang Z, Heymsfield SB. The Best Predictive Model for Estimating Fat-Free Mass. *Annals of the NY Academy of Sciences* 904:333-334, 2000.

Rubiano F, Nuñez C, Heymsfield SB. A Comparison of Body Composition Techniques. *Annals of the NY Academy of Sciences* 904:335-338, 2000.

Gallagher D, Allen A, Wang ZM, Heymsfield SB, Krasnow N. Smaller Organ Tissue Mass in the Elderly Fails to Explain Lower Resting Metabolic Rate. *Annals of the NY Academy of Sciences* 904: 449-455, 2000.

Bedogni G, Pietrobelli A, Heymsfield SB, Rountauroli C, Borghi A, Ferrari F, Battistini N, Salvioli G. Influence of Body Composition on Bone Mineral Content in Elderly Women: A Preliminary Report. *Annals of the NY Academy of Sciences* 904:489-490, 2000.

Leone P, Gallagher D, Wang J, Heymsfield SB. Relative Overhydration of Fat-free Mass in Postobese versus Never-Obese Subjects. *Ann NY Academy of Sciences* 904: 514-519, 2000.

Heymsfield SB, Nuñez C, Testolin C, Gallagher D. Anthropometry and methods of body composition measurement for research and field application in the elderly. *Eur J Clin Nutr* 54(supp 3):S26-S32, 2000.

Gallagher D, Heymsfield SB, Heo M, Jebb SA, Murgatroyd PR, Sakamoto Y. Healthy percent body fat ranges: an approach for developing guidelines based upon body mass index. *Am J Clin Nutr* 72: 694-701, 2000.

Heymsfield SB, Segal KR, Hauptman J, Lucas CP, Boldrin MN, Rissanen A, Wilding JPH, Sjostrom L. Weight loss with orlistat improves glucose tolerance and reduces progression to impaired glucose tolerance and type 2 diabetes in obese adults. *Arch Int Med.*160: 1321-1326, 2000.

Lee RC, Wang ZM, Heo M, Ross R, Janssen I, Heymsfield SB. Total-body skeletal muscle mass: development and cross-validation of anthropometric prediction models. *Am J Clin Nutr* 72: 796-803, 2000. Erratum in: *Am J Clin Nutr* 2001;73:995.

Testolin CG, Gore R, Rivkin T, Horlick M, Arbo J, Wang ZM, Chiumello G, Heymsfield SB. Dual-Energy X-Ray Absorptiometry in Pediatrics: Analysis of Percent Fat Estimated Errors Due to Variation in Soft Tissue Hydration. *J Appl Physiol*, 2000 Dec; 89 (6):2365-72.

Economos CD, Nelson ME, Fiatarone MA, Dallal GE, Heymsfield SB, Wang J, Russell-Aulet M, Yasumura S, Ma R, Vaswani AN, Pierson RN,. A multi-center comparison of dual-energy X-ray absorptiometers: in vivo and in vitro measurements of bone mineral content and density. *Am J Clin Nutr* 2000 Jun; 71 (6):1392-402.

Janssen I, Heymsfield SB, Wang ZM, Ross R. Skeletal mass and distribution in 468 men and women aged 18-88 years. *J Appl Physiol* 89: 81-88, 2000.

Janssen I, Heymsfield SB, Baumgartner R, Ross R. Estimation of skeletal muscle mass by bioelectrical impedance analysis. *J Appl Physiol* 89: 465-471, 2000.

Flancbaum L, Choban PS, Heymsfield SB. Nutrition Support of Critically Ill Obese Patients. From Nutrition Support to Pharmacologic Nutrition in the ICU. *Update in Intensive Care and Emergency Medicine* 34: 327-337, 2000.

Gallagher D, Ruts E, Visser M, Heshka S, Baumgartner RN, Wang J, Pierson RN, Pi-Sunyer FX, Heymsfield SB. Weight stability masks sarcopenia in elderly men and women. *Am J Physiol* 279: E366-E375, 2000.

Gallagher D, Kovera AJ, Clay-William G, Agin D, Leone P, Albu J, Matthews DE, Heymsfield SB. Weight loss in obese post-menopausal women: no evidence of adverse alterations in body composition and protein metabolism. *Am J Physiol Endocrinol Metab* 279: E124-E131, 2000.

Shih R, Wang ZM, Heo M, Wang W, Heymsfield SB. Lower limb skeletal muscle mass: development of dual-energy X-ray absorptiometry prediction model. *J Appl Physiol* 89: 1380-1386, 2000.

Wang ZM, Heshka S, Gallagher D, Boozer C, Kotler D, Heymsfield SB. Resting energy expenditure fat-free mass relationship: new insights provided by body composition modeling. *Am J Physiol*. 279: E539-E545, 2000.

Ricci TA, Heymsfield SB, Schreiber TB, Chowdhury HA, Rosato MT, Shapses SA. Moderate caloric restriction increases bone resorption in obese postmenopausal women. *Am J Clin Nutr*. 2001 Feb; 73(2):347-52.

Lawal A, Engelson E, Wang J, Heymsfield SB, Kotler D. Equivalent osteopenia in HIV-infected individuals studied before and during the era of highly active antiretroviral therapy. *AIDS* 2001 Jan 26; 15(2):278-80.

Lee R, Wang ZM, Heymsfield SB. Skeletal Muscle Mass and Aging: Regional and Whole-Body Measurement Methods. *Can. J. Appl. Physiol*. 26: 102-122, 2001.

Mingrone G, Bertuzzi A, Capristo E, Greco AV, Manco M, Pietrobelli A, Salinari S, Heymsfield SB. Unreliable use of standard muscle hydration value in obesity. *Am J Physiol Endocrinol Metab.* 2001 Feb; 280(2): E365-71.

Boozer CN, Nasser JA, Wang V, Chen G, Soloman JL, Heymsfield SB. An herbal supplement containing Ma Huang-Guarana for weight loss: a randomized, double-blind trial. *Intl J Obesity* 25:316-324, 2001.

Wang ZM, Pi-Sunyer, Kotler DP, Wang J, Pierson RN Jr, Heymsfield SB. Magnitude and variation of total body potassium to fat-free mass ratio: A cellular level modeling study. *Am J Physiol* 281: E1-E7, 2001.

Wang ZM, Heshka S, Zhang K, Boozer C, Heymsfield SB. Resting energy expenditure: Systematic organization and critique of prediction methods. *Obesity Research* 9(5):331-336, 2001.

Pietrobelli A, Heymsfield SB, Wang ZM, Gallagher D. Multi-component body composition models: recent advances and future directions. *European Journal of Clinical Nutrition* 55:69-75, 2001.

Bedogni G, Pietrobelli A, Heymsfield S B., Athos B, Manzieri A M, Morini P, Battistini N, Salvioli G. Is body mass index a measure of adiposity in elderly women? *Obesity Research* 9(1), January 2001.

Rosenbaum M, Pietrobelli A, Vasselli JR, Heymsfield SB, Leibel RL. Sexual dimorphism in circulating leptin concentrations is not accounted for by differences in adipose tissue distribution. *International Journal of Obesity* 25:1365-1371, 2001.

Shapses S, Von Thun N, Ricci T, Ospina M, Pierson R, Stahl T, Heymsfield SB. Bone turnover and density in obese premenopausal women during moderate weight loss and calcium supplementation. *Journal of Bone and Mineral Research* 16(1):1329-1336, 2001.

Wang ZM, O'Connor TP, Heshka S, Heymsfield SB. The reconstruction of Kleiber's law at the organ-tissue level. *J Nutr* 131:2967-2970, 2001.

Park YW, Allison D, Gallagher D, Heymsfield SB. Larger amounts of visceral adipose tissue in Asian-Americans. *Obes Res* 9:381-387, 2001.

Chumlea WC, Guo SS, Zeller CM, Reo NV, Baumgartner RN, Garry PJ, Wang J, Pierson RN Jr, Heymsfield SB, Siervogel RM. Total body water reference values and prediction equations for adults. *Kidney Int* 59:2250-2258, 2001.

Wang ZM, Heo M, Lee R, Kotler D, Withers R, Heymsfield SB. Muscularity in adult humans: proportion of adipose tissue-free body mass as skeletal muscle. *Am J Human Biol* 13(5):612-619, 2001.

Mingrone G, Marino S, DeGaetano A, Capristo E, Heymsfield SB, Gasbarrini G, Greco AV. Different limit to the body's ability of increasing fat-free mass. *Metabolism* 2001; 50(9):1004-7.

Agin D, Gallagher D, Wang J, Heymsfield SB, Pierson RN, Kotler D. Effects of whey protein and resistance exercise on body cell mass, muscle strength, and quality of life in women with HIV. *AIDS* 15(18):2431-2440, 2001.

Heymsfield SB, Gallagher D, Kotler DP, Wang ZM, Allison DB, Heshka S. Body-size dependence of resting energy expenditure can be attributed to nonenergetic homogeneity of fat-free mass. *Amer J Physiol – Endocrinol Metab* 282(1):E132-E138, 2002.

Rosenbaum M, Murphy EM, Heymsfield SB, Matthews DE, Leibel RL. Low dose leptin administration reverses effects of sustained weight-reduction on energy expenditure and circulating concentrations of thyroid hormones. *J Clin Endocrinol Metab* 87:2391-2394, 2002.

Janssen I, Heymsfield SB, Ross R. Low relative skeletal muscle mass (sarcopenia) in older persons is associated with functional impairment and physical disability. *J Am Geriatr Soc* 50:889-896, 2002.

Janssen I, Heymsfield SB, Ross R. Application of simple anthropometry in the assessment of health risk: Implications for the Canadian Physical Activity, Fitness and Lifestyle Appraisal. *Can J Appl Physiol* 27(4):396-414, 2002.

Heymsfield SB, Wang ZM, Shen W. Body composition in pediatrics to geriatrics: a lesson for nutritional monitoring. In: Labadarios D, Pichard C, eds. *Clinical Nutrition: Early Intervention*. Nestlé Nutrition Workshop Series Clinical & Performance Program 7:239-255, 2002.

Park YW, Heymsfield SB, Gallagher D. Are dual-energy X-ray absorptiometry regional estimates associated with visceral adipose tissue mass? *Int J Obes* 26:978-983, 2002.

Kaufman BA, Warren MP, Dominguez JE, Wang J, Heymsfield SB, Pierson RN. Bone density and amenorrhea in ballet dancers are related to a decreased resting metabolic rate and lower leptin levels. *J Clin Endocrinol Metab* 87(6):2777-2783, 2002.

Engelson ES, Glesby M, Mendez D, Albu J, Wang J, Heymsfield SB, Kotler DP. Effect of Recombinant Human Growth Hormone in the Treatment of Visceral Fat Accumulation in HIV Infection. *JAIDS* 30:379-391, 2002.

Kim J, Wang ZM, Heymsfield SB, Baumgartner RN, Gallagher D. Total-body skeletal muscle mass: Estimation by new dual-energy X-ray absorptiometry method. *Am J Clin Nutr* 76:378-383, 2002.

Zhu SK, Wang ZM, Heshka S, Heo M, Faith MS, Heymsfield SB. Waist circumference and obesity-associated risk factors among whites in the third National Health and Nutrition Examination Survey: clinical action thresholds. *Am J Clin Nutr* 76:743-749, 2002.

Pietrobelli A, Nunez C, Zingaretti G, Battistini N, Morini P, Wang Z, Yasumura S, Heymsfield SB. Assessment by bioimpedance of forearm muscle-cell mass: A new approach to calibration. *Eur J Clin Nutr* 56(8):723-728, 2002.

Hayes M, Chustek M, Wang ZM, Gallagher D, Heshka S, Spungen A, Bauman W, Heymsfield SB. DXA: Potential for creating a metabolic map of organ-tissue resting energy expenditure components. *Obes Res* 10(10):969-977, 2002.

Fontaine KR, Gadbury G, Kral J, Albu JB, Heymsfield SB, Allison D. Quantitative prediction of body diameter in severely obese individuals. *Ergonomics* 2002; 45:49-60.

Chumlea WC, Guo SS, Kuczmarski RJ, Flegal KM, Johnson CL, Heymsfield SB, Lukaski HC, Friedl K, Hubbard VS. Body composition estimates from NHANES III bioelectrical impedance data. *Int J Obes* 26:1596-1609, 2002.

Pietrobelli A, Allison DB, Heshka S, Heo M, Wang ZM, Bertkau A, Laferrère B, Rosenbaum M, Aloia JF, Pi-Sunyer FX, Heymsfield SB. Sexual dimorphism in the energy content of weight change. *Int J Obes Relat Metab Disord* 26(10):1339-1348, 2002.

Pietrobelli A, Faith MS, Wang J, Brambilla P, Chiumello G, Heymsfield SB. Association of Lean Tissue and Fat Mass with Bone mineral content and density in Italian children and adolescents. *Obes Res* 10(1):56-60, 2002.

Salinari S, Bertruzzi A, Mingrone G, Capristo E, Pietrobelli A, Campioni P, Greco AV, Heymsfield SB. New bioimpedance analysis model accurately predicts lower limb muscle volume: validation by magnetic resonance imaging. *Am J Physiol Endocrinol Metab* 282(4):E960-E966, 2002.

Wang ZM, Pi-Sunyer FX, Kotler DP, Wielopolski L, Withers RT, Pierson RN Jr, Heymsfield SB. Multicomponent methods: Evaluation of new and traditional soft-tissue mineral models by in vivo neutron activation analysis. *Am J Clin Nutr* 76:968-974, 2002.

Janssen I, Heymsfield SB, Allison DB, Kotler DP, Ross R. Body mass index and waist circumference independently contribute to the prediction of nonabdominal, abdominal subcutaneous, and visceral fat. *Am J Clin Nutr*. 2002; 75(4):683-8.

Faith MS, Keller KL, Matz P, Johnson SL, Lewis R, Jorge MA, Ridley C, Han H, Must S, Heo M, Pietrobelli A, Heymsfield SB, Allison DB. Project Grow-2-Gether: a study of the genetic and environmental influences on child eating and obesity. *Twin Res* 2002 Oct;5(5):472-5.

Andrade S, Lan SJJ, Engelson ES, Agin D, Wang J, Heymsfield SB, Kotler D. Use of a Durnin-Womersley formula to estimate change in subcutaneous fat content in HIV-infected subjects. *Am J Clin Nutr* 75:587-592, 2002.

Fernandez JR, Heo M, Heymsfield SB, Pierson RN Jr, Pi-Sunyer FX, Wang ZM, Wang J, Hayes M, Allison DB, Gallagher D. Is percentage body fat differentially related to body mass index in

Hispanic Americans, African Americans, and European Americans? *Am J Clin Nutr* 77(1):71-75, 2003.

Wang Z, Zhu S, Wang J, Pierson RN Jr, Heymsfield SB. Whole-body skeletal muscle mass: Development and validation of total-body potassium prediction models. *Am J Clin Nutr* 77(1):76-82, 2003.

Sun SS, Chumlea WC, Heymsfield SB, Lukaski HC, Schoeller D, Friedl K, Kuczmarski RJ, Flegal KM, Johnson CL, Hubbard VS. Development of Bioelectrical Impedance Analysis Prediction Equations for Body Composition with the Use of a Multicomponent Model for Use in Epidemiological Surveys. *Am J Clin Nutr* 77:331-340, 2003.

Taylor JE, Poston II WSC, Haddock CK, Blackburn GL, Heber D, Heymsfield SB, Foreyt JP. Psychometric characteristics of the General Well-Being Schedule (GWB) with African-American women. *Qual Life Res* 12:31-39, 2003.

Wang J, Thornton JC, Bari S, Williamson B, Gallagher D, Heymsfield SB, Horlick M, Kotler D, Laferrère, Laurel Mayer, Pi-Sunyer FX, Pierson Jr. RN. Comparisons of waist circumferences measured at 4 sites. *Am J Clin Nutr* 77:379-384, 2003.

Wang ZM, Heshka S, Wang J, Wielopolski L, Heymsfield SB. Magnitude and variation of fat-free mass density: a cellular-level body composition modeling study. *Am J Physiol Endocrinol Metab* 284:E267-E273, 2003.

Park YW, Zhu SK, Palaniappan L, Heshka S, Carnethon MR, Heymsfield SB. The metabolic syndrome: prevalence and associated risk Factor Findings in the US Population From the Third National Health and Nutrition Examination Survey, 1988-1994. *Arch Intern Med* 163:427-436, 2003.

Salinari S, Bertuzzi A, Mingrone G, Capristo E, Scarfone A, Greco AV, Heymsfield SB. Bioimpedance analysis: a useful technique for assessing appendicular lean soft tissue mass and distribution. *J Appl Physiol* 2003 Apr;94(4):1552-1556.

Rosenbaum M, Vandenborne K, Goldsmith R, Simoneau JA, Heymsfield S, Joanise DR, Hirsch J, Murphy E, Matthews D, Segal KR, Leibel RL. Effects Of Experimental Weight Perturbation On Skeletal Muscle Work Efficiency In Human Subjects. *Am J Physiol Regul Integr Comp Physiol* 2003; 285:R183-R192.

Shen W, Wang Z, Tang H, Heshka S, Punyanitya M, Zhu S, Lei J, Heymsfield SB. Volume estimates by imaging methods: model comparisons with visible woman as the reference. *Obes Res* 2003 Feb; 11(2):217-25.

Shen W, Wang Z, Punyanita M, Lei J, Sinav A, Kral JG, Imielinska C, Ross R, Heymsfield SB. Adipose tissue quantification by imaging methods: a proposed classification. *Obes Res* 2003 Jan; 11(1):5-16.

Ettinger MP, Littlejohn TW, Schwartz SL, Weiss SR, McIlwain HH, Heymsfield SB, Bray GA, Roberts WG, Heyman ER, Stambler N, Vicary C, Guler HP. Recombinant variant of ciliary neurotrophic factor for weight loss in obese adults: A randomized, dose-ranging study. *JAMA* 2003;289(14): 1826-1832.

Allison DB, Gadbury G, Schwartz LG, Murugesan R, Kraker JL, Heshka S, Fontaine KR, Heymsfield SB. A novel soy-based meal replacement formula for weight loss among obese individuals: A randomized controlled clinical trial. *Eur J Clin Nutr* 2003;57(4): 514-522.

He Q, Engelson ES, Albu JB, Heymsfield SB, Kotler DP. Preferential loss of omental-mesenteric fat during growth hormone therapy of HIV-associated lipodystrophy. *J Appl Physiol* 2003; 94(5):2051-2057.

Heymsfield SB, van Mierlo CAJ, van der Knaap HCM, Heo M, Frier H. Weight management using a meal replacement strategy: meta and pooling analysis from six studies. *Int J Obes Relat Metab Disord* 2003; 27(5):537-549.

Barbosa-Silva MC, Barros AJ, Post CL, Waitzberg DL, Heymsfield SB. Can bioelectrical impedance analysis identify malnutrition in preoperative nutrition assessment? *Nutr* 2003; 19(5):422-426.

Phillips GB, Jing T, Heymsfield SB. Relationships in men of sex hormones, insulin, adiposity, and risk factors for myocardial infarction. *Metabolism* 2003; 52(6):784-790.

He Q, Heo M, Heshka S, Wang J, Pierson RN Jr, Albu J, Wang ZM, Heymsfield SB, Gallagher D. Total body potassium differs by sex and race across the adult age span. *Am J Clin Nutr* 2003; 78:72-77.

Lee RC, Ramirez LM, Wielopolski L, Heymsfield SB, Wang Z. Ratio of Soft-Tissue Mineral to Total-Body Water: A Stable Body Composition Ratio. *International Journal of Body Composition Research* 2003; 1:77-80.

Zhu SK, Wang ZM, Shen W, Heymsfield SB, Heshka S. Percentage body fat ranges associated with metabolic syndrome risk: Results based upon the third National Health and Nutrition Examination Survey (1988-94). *American Journal of Clinical Nutrition* 2003; 78:228-235.

Cifuentes M, Johnson MA, Lewis RD, Heymsfield SB, Chowdhury HA, Modlesky CM, Shapses S. Bone turnover and body weight relationships differ in normal-weight compared with heavier postmenopausal women. *Osteoporos Int* 2003; 14(2):116-122.

St-Onge MP, Heymsfield SB. Usefulness Of Artificial Sweeteners For Body Weight Control. *Nutr Rev* 2003; 61:219-221.

Gallagher D, Heshka S, Heymsfield SB. Dubious assumptions underlying the adjustment of metabolic rates for changes in fat-free mass. *J Clin Endocrinol Metab* 2003; 88:3454-5.

Nuñez C, Gallagher D, Spungen A, Bauman W, Heymsfield SB. Are Age-Related Bioimpedance Analysis Effects Also Present in Patients with Spinal Cord Injury? Relevance to Clinical Prediction of Skeletal Muscle Mass. *International Journal of Body Composition Research* 2003;1(1):11-16.

Shen W, Mao X, Wang Z, Punyanitya M, Heymsfield SB, Shungu DC. Measurement of Intramyocellular Lipid Levels with 2-D Magnetic Resonance Spectroscopic Imaging at 1.5 T. *Acta Diabetol* 2003; 40(Suppl 1):S51-4.

Ioannidou E, Padilla J, Wang J, Heymsfield SB, Thornton JC, Horlick M, Gallagher D, Pierson RN Jr. Pencil-beam versus Fan-Beam Dual-Energy X-Ray Absorptiometry Comparisons across 4 Systems: Appendicular Lean Soft Tissue. *Acta Diabetol* 2003; 40(Suppl 1):S83-5.

Sun AJ, Heshka S, Heymsfield SB, Wang J, Pierson RN Jr, Gallagher D. Is there an association between skeletal muscle mass and bone mineral density among African-American, Asian-American, and European-American women? *Acta Diabetol* 2003; 40(Suppl. 1):S309-13

Heymsfield SB. Measurements of energy balance. *Acta Diabetologica*. 2003;40:S117-S121

St. Onge MP, Keller KL, Heymsfield SB. Changes in Childhood Food Consumption Patterns: a Cause for Concern in Light of Increasing Body Weights. *Am J Clin Nutr* 2003;78:1068-73

Wielopolski L, Ramirez LM, Coyle P, Heymsfield S, Zimman J. Some aspects of measuring levels of potassium in the brain. *Acta Diabetol*. 2003;40 Suppl 1:S73-5.

Sun AJ, Jing T, Heymsfield SB, Phillips GB. Relationship of leptin and sex hormones to bone mineral density in men. *Acta Diabetol*. 2003;40 Suppl 1:S101-5

Wang Z, Shen W, Kotler DP, Heshka S, Wielopolski L, Aloia JF, Nelson ME, Pierson RN Jr, Heymsfield SB. Total body protein: a new cellular level mass and distribution prediction model. *Am J Clin Nutr*. 2003;78:979-84.

Jones Jr. A, Shen W, Gallagher D, Heshka S, St-Onge MP, Wang ZM, Heymsfield SB. Body composition differences between African-American and Caucasian Women: Relationship to resting energy requirements. *Am J Clin Nutr* 2004;79:780-6.

Shapses SA, Heshka S, Heymsfield SB. Effect of Calcium Supplementation on Weight and Fat Loss in Women. *J Clin Endocrinol Metab* 89:632-637, 2004.

St. Onge MP, Rubiano F, DeNino WF, Jones Jr A, Greenfield D, Fergusun PW, Akrabawi S, Heymsfield SB. Added Thermogenic and Satiety Effects of a Mixed Nutrient vs a Sugar-Only Beverage. *International Journal of Obesity* 2004;28:248-253.

Sopher AB, Thornton JC, Wang J, Pierson RN Jr., Heymsfield SB, Horlick M. Measurement of Percent Body Fat in 411 Children and Adolescents: A Comparison of Dual-Energy X-ray Absorptiometry to a Four-Compartment Model. *Pediatrics* 2004;113:1285-9



Song MY, Ruts E, Kim J, Janumala I, Heymsfield S, Gallagher D. Sarcopenia and increased adipose tissue infiltration of muscle in elderly African American women. *Am J Clin Nutr.* 2004 May;79(5):874-80.

Zhu S, Heshka S, Wang Z, Shen W, Allison DB, Ross R, Heymsfield SB. Combination of BMI and Waist Circumference for Identifying Cardiovascular Risk Factors in Whites. *Obes Res.* 2004 Apr;12(4):633-45.

Faith MS, Keller KL, Johnson SL, Pietrobelli A, Matz PE, Must S, Jorge MA, Cooperberg J, Heymsfield SB, Allison DB. Familial aggregation of energy intake in children. *Am J Clin Nutr.* 2004 May;79(5):844-50.

Silva AM, Shen W, Wang Z, Aloia JF, Nelson ME, Heymsfield SB, Sardinha LB, Heshka S. Three-Compartment Model: Critical Evaluation Based Upon Neutron Activation Analysis. *Am J Physiol Endocrinol Metab.* 2004 Jun 8

Wielopolski L, Ramirez LM, Coyle PK, Wang ZM, Heymsfield SB. Proof-of-Principle to Measure Potassium in the Human Brain: a Feasibility Study. *International Journal of Body Composition Research* 2004;2:37-43.

Schneider B, Wang J, Thornton JC, Arbo J, Horlick M, Heymsfield SB, Pierson RN. Accuracy, Reproducibility, and Normal Total Body Potassium (TBK) Ranges Measured Using the Renovated Whole Body <sup>40</sup>K Counter of St. Luke's-Roosevelt Hospital. *International Journal of Body Composition Research* 2004;2:51-60.

Chua SC Jr, Liu SM, Li Q, Sun A, DeNino WF, Heymsfield SB, Guo XE. Transgenic complementation of leptin receptor deficiency. II. Increased leptin receptor transgene dose effects on obesity/diabetes and fertility/lactation in *lepr-db/db* mice. *Am J Physiol Endocrinol Metab.* 2004 Mar;286(3):E384-92.

St-Onge MP, Rubiano F, Jones A Jr, Heymsfield SB. A new hand-held indirect calorimeter to measure postprandial energy expenditure. *Obes Res.* 2004;12:704-9.

Heymsfield SB. The weight debate: balancing food composition and physical activity. Preface. *Am J Clin Nutr.* 2004;79:897S-898S.

Wang Z, St-Onge MP, Lecumberri B, Pi-Sunyer FX, Heshka S, Wang J, Kotler DP, Gallagher D, Wielopolski L, Pierson RN Jr, Heymsfield SB. Body cell mass: model development and validation at the cellular level of body composition. *Am J Physiol Endocrinol Metab.* 2004;286:E123-128.

He Q, Engelson ES, Wang J, Kenya S, Ionescu G, Heymsfield SB, Kotler DP. Validation of an elliptical anthropometric model to estimate visceral compartment area. *Obes Res.* 2004;12:250-7.

Shen W, Punyanitya M, Wang Z, Gallagher D, St-Onge MP, Albu J, Heymsfield SB, Heshka S. Visceral adipose tissue: relations between single-slice areas and total volume. *Am J Clin Nutr.* 2004;80:271-8.

St-Onge MP, Wang Z, Horlick M, Wang J, Heymsfield SB. Dual-Energy X-Ray Absorptiometry Lean Soft Tissue Hydration: Independent Contributions of Intra- and Extracellular Water. *Am J Physiol Endocrinol Metab.* 2004;287:E842-7

Pietrobelli A, Rubiano F, St-Onge MP, Heymsfield SB. New bioimpedance analysis system: improved phenotyping with whole-body analysis. *Eur J Clin Nutr.* 2004;58:1479-84.

Soriano JM, Ioannidou E, Wang J, Thornton JC, Horlick MN, Gallagher D, Heymsfield SB, Pierson RN. Pencil-beam vs fan-beam dual-energy X-ray absorptiometry comparisons across four systems: body composition and bone mineral. *J Clin Densitom.* 2004 Fall;7(3):281-9

Lee SJ, Janssen I, Heymsfield SB, Ross R. Relation between whole body and regional measures of human skeletal muscle. *Amer J Clin Nutr.* 2004;80:1215-21

Zhu S, St-Onge MP, Heshka S, Heymsfield SB. Lifestyle behaviors associated with lower risk of having the metabolic syndrome. *Metabolism.* 2004;53:1503-11.

Schoeller DA, Tylavsky FA, Baer DJ, Chumlea WC, Earthman CP, Fuerst T, Harris TB, Heymsfield SB, Horlick M, Lohman TG, Lukaski HC, Shepherd J, Siervogel RM, Borrud LG. QDR 4500A dual-energy X-ray absorptiometer underestimates fat mass in comparison with criterion methods in adults. *Am J Clin Nutr.* 2005;81:1018-25.

Vasselli JR, Weindruch R, Heymsfield SB, Pi-Sunyer FX, Boozer CN, Yi N, Wang C, Pietrobelli A, Allison DB. Intentional Weight Loss Reduces Mortality Rate in a Rodent Model of Dietary Obesity. *Obesity Research* 13(4): 693-702, 2005.

Hayes M, Chustek M, Heshka S, Wang Z, Pietrobelli A, Heymsfield SB. Low physical activity levels of modern Homo sapiens among free-ranging mammals. *Int J Obes.* 2005;29:151-6.

Barbosa-Silva MC, Barros AJ, Wang J, Heymsfield SB, Pierson RN Jr. Bioelectrical impedance analysis: population reference values for phase angle by age and sex. *Am J Clin Nutr.* 2005;82:49-52.

Hoffman DJ, Wang Z, Gallagher D, Heymsfield SB. Comparison of visceral adipose tissue mass in adult African Americans and whites. *Obes Res.* 2005;13:66-74.

Shen W, Liu H, Punyanitya M, Chen J, Heymsfield SB. Pediatric obesity phenotyping by magnetic resonance methods. *Curr Opin Clin Nutr Metab Care.* 2005;8:595-601.

Ginde SR, Geliebter A, Rubiano F, Silva AM, Wang J, Heshka S, Heymsfield SB. Air displacement plethysmography: validation in overweight and obese subjects. *Obes Res.* 2005;13:1232-7.

Margulies L, Horlick M, Thornton JC, Wang J, Ioannidou E, Heymsfield SB. Reproducibility of Pediatric Whole Body Bone and Body Composition measures by Dual-Energy X-Ray Absorptiometry Using the GE Lunar Prodigy. *J Clin Densitom.* 2005;8:298-304.

Kuk JL, Lee S, Heymsfield SB, Ross R. Waist circumference and abdominal adipose tissue distribution: influence of age and sex. *Am J Clin Nutr.* 2005; 81(6):1330-4.

Mayer L, Walsh BT, Pierson RN Jr, Heymsfield SB, Gallagher D, Wang J, Parides MK, Leibel RL, Warren MP, Killory E, Glasofer D. Body fat redistribution after weight gain in women with anorexia nervosa. *Am J Clin Nutr.* 2005;81:1286-91.

Wang J, Thornton JC, Ioannidou E, Soriano JM, Gallagher D, Heymsfield SB, Horlick M, Pierson RN, Allen LR. Four Commonly Used Dual-Energy X-Ray Absorptiometry Scanners Do Not Identically Classify Subjects for Osteopenia or Osteoporosis by T-Score in Four Bone Regions. *J Clin Densitom.* 2005;8:191-8.

Sarkar SR, Kuhlmann MK, Khilnani R, Zhu F, Heymsfield SB, Kaysen GA, Levin NW. Assessment of body composition in long-term hemodialysis patients: rationale and methodology. *J Ren Nutr.* 2005;15:152-8.

Gallagher D, Kuznia P, Heshka S, Albu J, Heymsfield SB, Goodpaster B, Visser M, Harris TB. Adipose tissue in muscle: a novel depot similar in size to visceral adipose tissue. *Am J Clin Nutr.* 2005;81:903-10.

St-Onge MP, Sy M, Heymsfield SB, Hirsch J. Human cortical specialization for food: a functional magnetic resonance imaging investigation. *J Nutr.* 2005;135:1014-8.

Wang Z, Heshka S, Heymsfield SB, Shen W, Gallagher D. A cellular-level approach to predicting resting energy expenditure across the adult years. *Am J Clin Nutr.* 2005;81:799-806.

Shen W, St-Onge MP, Pietrobelli A, Wang J, Wang Z, Heshka S, Heymsfield SB. Four-compartment cellular level body composition model: comparison of two approaches. *Obes Res.* 2005; 13:58-65.

Silva AM, Wang J, Pierson RN Jr, Wang Z, Heymsfield SB, Sardinha LB, Heshka. Extracellular water: greater expansion with age in African Americans. *J Appl Physiol.* 2005; 99:261-7.

Vanitallie TB, Nonas C, Di Rocco A, Boyar K, Hyams K, Heymsfield SB. Treatment of Parkinson disease with diet-induced hyperketonemia: a feasibility study. *Neurology.* 2005; 64:728-30.

Zhu S, Heymsfield SB, Toyoshima H, Wang Z, Pietrobelli A, Heshka S. Race-ethnicity-specific waist circumference cutoffs for identifying cardiovascular disease risk factors. *Am J Clin Nutr.* 2005;81:409-15.

Kaysen GA, Zhu F, Sarkar S, Heymsfield SB, Wang J, Kaitwatcharachai C, Kuhlmann MK, W Levine NW. Estimation of total-body and limb muscle mass in hemodialysis patients by using multifrequency bioimpedance spectroscopy. *Am J Clin Nutr* 2005;82:988-95.

Rosenbaum M, Goldsmith R, Bloomfield D, Magnano A, Weimer L, Heymsfield SB, Gallagher D, Mayer L, Murphy E, Leibel RL. Low-dose leptin reverses skeletal muscle, autonomic, and neuroendocrine adaptations to maintenance of reduced weight. *The Journal of Clinical Investigation* 2005; 115(12):3579-86.

Wang Z, Heshka S, Wang J, Heymsfield SB. Body cell mass: validation of total body potassium prediction model in children and adolescents. *Int. J. Body Composition Res.* 2005; 3(4):153-158.

Gangwisch JE, Malaspina D, Boden-Albala B, Heymsfield SB. Inadequate sleep as a risk factor for obesity: analyses of the NHANES I. *Sleep.* 2005;28:1289-96.

Heymsfield SB, Fong TM, Gantz I, Erond N. Fat and energy partitioning: longitudinal observations in leptin-treated adults homozygous for a Lep mutation. *Obesity.* 2006;14:258-65.

Wang Z, Heshka S, Wang J, Heymsfield SB. Total body protein mass: validation of total body potassium prediction model in children and adolescents. *J Nutr.* 2006;136:1032-6.

Lee H, Wang J, Gallagher D, Heshka S, Shen W, Chambers E, Heymsfield SB, Wang Z. Dual-energy X-ray absorptiometry: validity of the Lunar Prodigy fan-beam system for body composition measurement in pediatrics. *Int'l Journal of Body Composition Research* 2006;4:81-86

Kim J, Shen W, Gallagher D, Jones A Jr, Wang Z, Wang J, Heshka S, Heymsfield SB. Total-body skeletal muscle mass: estimation by dual-energy X-ray absorptiometry in children and adolescents. *Am J Clin Nutr.* 2006;84:1014-20.

Shen W, Punyanitya M, Chen J, Gallagher D, Albu J, Pi-Sunyer X, Lewis CE, Grunfeld C, Heshka S, Heymsfield SB. Waist circumference correlates with metabolic syndrome indicators better than percentage fat. *Obesity* 2006;14:727-36.

Gangwisch JE, Heymsfield SB, Boden-Albala B, Buijs RM, Kreier F, Pickering TG, Rundle AG, Zammit GK, Malaspina D. Short sleep duration as a risk factor for hypertension: analyses of the first National Health and Nutrition Examination Survey. *Hypertension.* 2006;47:833-9.

Williams JJ, Lund LH, LaManca J, Kunavarapu C, Cohen DJ, Heshka S, Heymsfield SB, Mancini DM. Excessive weight gain in cardiac transplant recipients. *J Heart Lung Transplant.* 2006;25:36-41.

Wielopolski L, Ramirez LM, Gallagher D, Heymsfield SB, Wang ZM. Measuring partial body potassium in the arm versus total body potassium. *J Appl Physiol.* 2006;101:945-9.

Sarkar SR, Kuhlmann MK, Kotanko P, Zhu F, Heymsfield SB, Wang J, Meisels IS, Gotch FA, Kaysen GA, Levin NW. Metabolic consequences of body size and body composition in hemodialysis patients. *Kidney Int.* 2006;70:1832-9.

Erondu N, Gantz I, Musser B, Suryawanshi S, Mallick M, Addy C, Cote J, Bray G, Fujioka K, Bays H, Hollander P, Sanabria-Bohorquez SM, Eng W, Langstrom B, Hargreaves RJ, Burns HD, Kanatani A, Fukami T, MacNeil DJ, Gottesdiener KM, Amatruda JM, Kaufman KD, Heymsfield SB. Neuropeptide Y5 receptor antagonism does not induce clinically meaningful weight loss in overweight and obese adults. *Cell Metab.* 2006;4:275-82

Zhu F, Kuhlmann MK, Kaysen GA, Sarkar S, Kaitwatcharachai C, Khilnani S, Stevens L, Leonard EF, Wang J, Heymsfield SB, Levin NW. Segment-specific resistivity improves body fluid volume estimates from bioimpedance spectroscopy in hemodialysis patients. *J Appl Physiol* 2006;100:717-724.

Shen W, Punyanitya M, Chen J, Gallagher D, Albu J, Pi-Sunyer XF, Lewis CE, Grunfeld C, Heymsfield SB, Heshka S. Visceral adipose tissue: relationships between single slice areas at different locations and obesity-related health risks. *Int J Obes.* 2007; 31(5): 763-9.

Wang Z, Heshka S, Pietrobelli A, Chen Z, Silva AM, Sardinha LB, Wang J, Gallagher D, Heymsfield SB. A new total body potassium method to estimate total body skeletal muscle mass in children. *J Nutr* 2007;137:1988-91

Erondu N, Addy C, Lu K, Mallick M, Musser B, Gantz I, Proietto J, Astrup A, Toubro S, Rissanen AM, Tonstad S, Haynes WG, Gottesdiener KM, Kaufman KD, Amatruda JM, Heymsfield SB. NPY5R antagonism does not augment the weight loss efficacy of orlistat or sibutramine. *Obesity* 2007;15:2027-42

Grunfeld C, Rimland D, Gibert CL, Powderly WG, Sidney S, Shlipak MG, Bacchetti P, Scherzer R, Haffner SM, Heymsfield SB; for the Study of Fat Redistribution Metabolic Change in HIV Infection. Association of Upper Trunk and Visceral Adipose Tissue. *J Acquir Immune Defic Syndr.* 2007; 46(3): 283-90

Heymsfield SB, Gallagher D, Mayer L, Beetsch J, Pietrobelli A. Scaling of human body composition to stature: new insights into body mass index. *Am J Clin Nutr.* 2007;86:82-91.

Mayer LE, Roberto CA, Glasofer DR, Etu SF, Gallagher D, Wang J, Heymsfield SB, Pierson RN Jr, Attia E, Devlin MJ, Walsh BT. Does percent body fat predict outcome in anorexia nervosa? *Am J Psychiatry.* 2007;164:970-2.

Klein S, Allison DB, Heymsfield SB, Kelley DE, Leibel RL, Nonas C, Kahn R. Waist Circumference and Cardiometabolic Risk: a Consensus Statement from Shaping America's Health: Association for Weight Management and Obesity Prevention; NAASO, the Obesity Society; the American Society for Nutrition; and the American Diabetes Association. *Obesity* 2007;15:1061-7.

Klein S, Allison DB, Heymsfield SB, Kelley DE, Leibel RL, Nonas C, Kahn R; Association for Weight Management and Obesity Prevention; NAASO, The Obesity Society; American Society for Nutrition; American Diabetes Association. Waist circumference and cardiometabolic risk: a consensus statement from Shaping America's Health: Association for Weight Management and Obesity Prevention; NAASO, The Obesity Society; the American Society for Nutrition; and the American Diabetes Association. *Am J Clin Nutr.* 2007;85:1197-202.

Silva AM, Wang J, Pierson RN Jr, Wang Z, Spivack J, Allison DB, Heymsfield SB, Sardinha LB, Heshka S. Extracellular water across the adult lifespan: reference values for adults. *Physiol Meas.* 2007;28:489-502.

Yim JE, Heshka S, Albu J, Heymsfield S, Kuznia P, Harris T, Gallagher D. Intermuscular adipose tissue rivals visceral adipose tissue in independent associations with cardiovascular risk. *Int J Obes.* 2007 31:1400-5.

Wu CH, Heshka S, Wang J, Pierson RN Jr, Heymsfield SB, Laferrere B, Wang Z, Albu JB, Pi-Sunyer X, Gallagher D. Truncal fat in relation to total body fat: influences of age, sex, ethnicity and fatness. *Int J Obes* 2007;31:1384-91.

Erondu N, Wadden T, Gantz I, Musser B, Nguyen AM, Bays H, Bray G, O'Neil PM, Basdevant A, Kaufman KD, Heymsfield SB, Amatruda JM. Effect of NPY5R antagonist MK-0557 on weight regain after very-low-calorie diet-induced weight loss. *Obesity* 2007;15:895-905

Klein S, Allison DB, Heymsfield SB, Kelley DE, Leibel RL, Nonas C, Kahn R; Association for Weight Management and Obesity Prevention; NAASO; Obesity Society; American Society for Nutrition; American Diabetes Association. Waist circumference and cardiometabolic risk: a consensus statement from shaping America's health: Association for Weight Management and Obesity Prevention; NAASO, the Obesity Society; the American Society for Nutrition; and the American Diabetes Association. *Diabetes Care* 2007;30:1647-52.

Gantz I, Erondu N, Mallick M, Musser B, Krishna R, Tanaka WK, Snyder K, Stevens C, Stroh MA, Zhu H, Wagner JA, Macneil DJ, Heymsfield SB, Amatruda JM. Efficacy and safety of intranasal peptide YY3-36 for weight reduction in obese adults. *J Clin Endocrinol Metab.* 2007;92:1754-7.

St-Onge MP, Claps N, Wolper C, Heymsfield SB. Supplementation with soy- protein-rich foods does not enhance weight loss. *J Am Diet Assoc.* 2007;107:500-5.

Levitt DG, Heymsfield SB, Pierson RN Jr, Shapses SA, Kral JG. Physiological models of body composition and human obesity. *Nutr Metab* 2007 20;4:19

Heymsfield SB, Harp JB, Reitman ML, Beetsch JW, Schoeller DA, Erondu N, Pietrobelli A. Why do obese patients not lose more weight when treated with low-calorie diets? A mechanistic perspective. *Am J Clin Nutr.* 2007;85:346-54

Gangwisch JE, Heymsfield SB, Boden-Albala B, Buijs RM, Kreier F, Pickering TG, Rundle AG, Zammit GK, Malaspina D. Sleep duration as a risk factor for diabetes incidence in a large U.S. sample. *Sleep*. 2007;30:1667-73

Saris WH, Heymsfield SB. All metabolic roads lead to mitochondrial (dys)-function. *Curr Opin Clin Nutr Metab Care*. 2007;10:661-3.

Chen Z, Wang Z, Lohman T, Heymsfield SB, Outwater E, Nicholas JS, Bassford T, LaCroix A, Sherrill D, Punyanitya M, Wu G, Going S. Dual-energy X-ray absorptiometry is a valid tool for assessing skeletal muscle mass in older women. *J Nutr*. 2007;137:2775-80.

St-Onge MP, Claps N, Heshka S, Heymsfield SB, Kosteli A. Greater resting energy expenditure and lower respiratory quotient after 1 week of supplementation with milk relative to supplementation with a sugar-only beverage in children. *Metabolism*. 2007;56:1699-707

Heymsfield SB, Childers D, Beetsch J, Allison DB, Pietrobelli A. Body size and human energy requirements: reduced mass-specific resting energy expenditure in tall adults. *J Appl Physiol*. 2007;103:1543-50

Shen W, Chen J, Punyanitya M, Shapses S, Heshka S, Heymsfield SB. MRI-measured bone marrow adipose tissue is inversely related to DXA-measured bone mineral in Caucasian women. *Osteoporosis Int*. 2007;18(5):641-7.

Wang Z, Heshka S, Wang J, Gallagher D, Deurenberg P, Chen Z, Heymsfield SB. Metabolically active portion of fat-free mass: a cellular body composition level modeling analysis. *Am J Physiol Endocrinol Metab*. 2007;292:E49-53.

Shen W, Mao X, Wolper C, Heshka S, Dashnaw S, Hirsch J, Heymsfield SB, Shungu DC. Reproducibility of single- and multi-voxel (1)H MRS measurements of intramyocellular lipid in overweight and lean subjects under conditions of controlled dietary calorie and fat intake. *NMR Biomed*. 2008 21(5): 498-506.

Wohl D, Scherzer R, Heymsfield S, Simberkoff M, Sidney S, Bacchetti P, Grunfeld C; FRAM Study Investigators. The associations of regional adipose tissue with lipid and lipoprotein levels in HIV-infected men. *J Acquir Immune Defic Syndr*. 2008;48:44-52.

Madden E, Lee G, Kotler DP, Wanke C, Lewis CE, Tracy R, Heymsfield S, Shlipak MG, Bacchetti P, Scherzer R, Grunfeld C. Association of antiretroviral therapy with fibrinogen levels in HIV-infection. *AIDS*. 2008;22:707-15.

Freda PU, Shen W, Heymsfield SB, Reyes-Vidal CM, Geer EB, Bruce JN, Gallagher D. Lower Visceral and Subcutaneous but Higher Intermuscular Adipose Tissue Depots in Patients with GH & IGF-I Excess due to Acromegaly. *J Clin Endocrinol Metab*. 2008; 93(6): 2334-43

Wu EX, Tang H, Tong C, Heymsfield SB, Vasselli JR. In vivo MRI quantification of individual muscle and organ volumes for assessment of anabolic steroid growth effects. *Steroids*. 2008;73:430-40.

Currier J, Scherzer R, Bacchetti P, Heymsfield S, Lee D, Sidney S, Tien PC; Fat Redistribution and Metabolic Changes in HIV Infection Study Investigators. Regional adipose tissue and lipid and lipoprotein levels in HIV-infected women. *J Acquir Immune Defic Syndr*. 2008;48:35-43

Addy C, Wright H, Van Laere K, Gantz I, Erondy N, Musser BJ, Lu K, Yuan J, Sanabria-Bohórquez SM, Stoch A, Stevens C, Fong TM, De Lepeleire I, Cilissen C, Cote J, Rosko K, Gendrano IN 3rd, Nguyen AM, Gumbiner B, Rothenberg P, de Hoon J, Bormans G, Depré M, Eng WS, Ravussin E, Klein S, Blundell J, Herman GA, Burns HD, Hargreaves RJ, Wagner J, Gottesdiener K, Amatruda JM, Heymsfield SB. The acyclic CB1R inverse agonist taranabant mediates weight loss by increasing energy expenditure and decreasing caloric intake. *Cell Metab*. 2008;7:68-78

Yim JE, Heshka S, Albu JB, Heymsfield S, Gallagher D. Femoral-gluteal subcutaneous and intermuscular adipose tissues have independent and opposing relationships with CVD risk. *J Appl Physiol*. 2008;104:700-7

Azizian H, Kramer JK, Heymsfield SB, Winsborough S. Fourier transform near infrared spectroscopy: a newly developed, non-invasive method to measure body fat : non-invasive body fat content measurement using FT-NIR. *Lipids*. 2008;43:97-103.

Kosmiski LA, Bacchetti P, Kotler DP, Heymsfield SB, Lewis CE, Shlipak MG, Scherzer R, Grunfeld C. Relationship of fat distribution with adipokines in human immunodeficiency virus infection. *J Clin Endocrinol Metab*. 2008;93:216-24.

Phillips GB, Jing T, Heymsfield SB. Does insulin resistance, visceral adiposity, or a sex hormone alteration underlie the metabolic syndrome? Studies in women. *Metabolism*. 2008;57:838-44

Strain GW, Wang J, Gagner M, Pomp A, Inabnet WB, Heymsfield SB. Bioimpedance for severe obesity: comparing research methods for total body water and resting energy expenditure. *Obesity (Silver Spring)*. 2008;16:1953-6

Scherzer R, Shen W, Bacchetti P, Kotler D, Lewis CE, Shlipak MG, Heymsfield SB, Grunfeld C; Study of Fat Redistribution Metabolic Change in HIV Infection (FRAM). Simple anthropometric measures correlate with metabolic risk indicators as strongly as magnetic resonance imaging-measured adipose tissue depots in both HIV-infected and control subjects. *Am J Clin Nutr*. 2008;87:1809-17.

Silva AM, Heymsfield SB, Gallagher D, Albu J, Pi-Sunyer XF, Pierson RN Jr., Wang J, Heshka S, Sardinha LB, Wang Z. Evaluation of between-methods agreement of extracellular water measurements in adults and children. *Am J Clin Nutr*. 2008:315-23



Gangwisch JE, Heymsfield SB, Boden-Albala B, Buijs RM, Kreier F, Opler MG, Pickering TG, Rundle AG, Zammit GK, Malaspina D. Sleep duration associated with mortality in elderly, but not middle-aged, adults in a larger US sample. *Sleep*. 2008;31:1087-96.

Saris WH, Heymsfield SB, Evans WJ. Human brain evolution: food for thoughts. *Curr Opin Clin Nutr Metab Care*. 2008;11:683-5.

Heymsfield SB, Martin-Nguyen A, Fong TM, Gallagher D, Pietrobelli A. Body circumferences: clinical implications emerging from a new geometric model. *Nutr Metab (Lond.)*. 2008;5:24

Scherzer R, Shen W, Bacchetti P, Kotler D, Lewis CE, Shlipak MG, Punyanitya M, Heymsfield SB, Grunfeld C; Study of Fat Redistribution Metabolic Change in HIV Infection. Comparison of dual-energy x-ray absorptiometry and magnetic resonance imaging-measured adipose tissue depots in HIV-infected and control subjects. *Am J Clin Nutr*. 2008;88:1088-96.

Kaysen GA, Kotanko P, Zhu F, Sarkar SR, Heymsfield SB, Kuhlmann MK, Levin NW. Estimation of adipose pools in hemodialysis patients from anthropometric measures. *J Ren Nutr*. 2008;18:473-8.

Nass R, Pezzoli SS, Oliveri MC, Patrie JT, Harrell FE Jr., Clasey JL, Heymsfield SB, Bach MA, Vance ML, Thorner MO. Effects of an oral ghrelin mimetic on body composition and clinical outcomes in healthy older adults: a randomized trial. *Ann Intern Med*. 2008;149:601-11. PMID:18981485. PMCID:PMC2757071

Shen W, Mao X, Wolper C, Heshka S, Dashnaw S, Hirsch J, Heymsfield SB, Shungu DC. Reproducibility of single- and multi-voxel (1)H MRS measurements of intramyocellular lipid in overweight and lean subjects under conditions of controlled dietary calorie and fat intake. *NMR Biomed*. 2008 21(5): 498-506. PMID:17955571. PMCID:PMC2892914

Tang H, Vasselli JR, Tong C, Heymsfield SB, Wu EX. In vivo MRI evaluation of anabolic steroid precursor growth effects in a guinea pig model. *Steroids*. 2009;74:684-93. PMID:19463691

Fong TM, Heymsfield SB. Cannabinoid-1 receptor inverse agonists: current understanding of mechanism of action and unanswered questions. *Int J Obes* 2009; 33(9): 947-55. PMID:19597516

Kaysen GA, Kotanko P, Zhu F, Sarkar SR, Heymsfield SB, Kuhlmann MK, Dwyer T, Usvyat L, Havel P, Levin NW. Relationship Between Adiposity and Cardiovascular Risk Factors in Prevalent Hemodialysis Patients. *J Ren Nutr*. 2009; 19(5): 357-64. PMID:19596588. PMCID:PMC3038251

Kolotkin RL, Norquist JM, Crosby RD, Suryawanshi S, Teixeira PJ, Heymsfield SB, Erondy N, Nguyen AM. One-year health-related quality of life outcomes in weight loss trial participants: comparison of three measures. *Health Qual Life Outcomes*. 2009;7:53. PMID:19505338. PMCID:PMC2700089

Freda PU, Shen W, Reyes-Vidal CM, Geer EB, Arias-Mendoza F, Gallagher D, Heymsfield SB. Skeletal Muscle Mass in Acromegaly Assessed by Magnetic Resonance Imaging and Dual Photon X-ray Absorptiometry. *J Clin Endocrinol Metab.* 2009; 94(8): 2880-6. PMID:19491226. PMCID:PMC2730874

Heymsfield SB. How large is the energy gap that accounts for the obesity epidemic? *Am J Clin Nutr.* 2009;89:1717-8. PMID:19403628

Fabricatore AN, Wadden TA, Moore RH, Butryn ML, Heymsfield SB, Nguyen AM. Predictors of attrition and weight loss success: Results from a randomized controlled trial. *Behav Res Ther.* 2009; 47(8): 685-91. PMID:19497559. PMCID:PMC2713356

Fabricatore AN, Wadden TA, Moore RH, Butryn ML, Gravalles EA, Erondy NE, Heymsfield SB, Nguyen AM. Attrition from randomized controlled trials of pharmacological weight loss agents: a systematic review and analysis. *Obes Rev.* 2009;10:333-41. PMID:19389060. PMCID:PMC2682632

Shen W, Punyanitya M, Silva AM, Chen J, Gallagher D, Sardinha LB, Allison DB, Heymsfield SB. Sexual dimorphism of adipose tissue distribution across the lifespan: a cross-sectional whole-body magnetic resonance imaging study. *Nutr Metab* 2009;6:17. PMID:19371437. PMCID:PMC2678136

Levitt DG, Heymsfield SB, Pierson RN Jr, Shapses SA, Kral JG. Physiological models of body composition and human obesity. *Nutr Metab (Lond).* 2009;6:7. PMID:19220892. PMCID:PMC2649131

Hall KD, Heymsfield SB. Models use leptin and calculus to count calories. *Cell Metab.* 2009;9:3-4. PMID:19117539

Carter M, Zhu F, Kotanko P, Kuhlmann M, Ramirez L, Heymsfield SB, Handelman G, Levin NW. Assessment of body composition in dialysis patients by arm bioimpedance compared to MRI and 40K measurements. *Blood Purif.* 2009;27:330-7. PMID:19270452. PMCID:PMC2822666

Heymsfield SB, Chirachariyavej T, Rhyu IJ, Roongpisuthipong C, Heo M, Pietrobelli A. Differences between brain mass and body weight scaling to height: potential mechanism of reduced mass-specific resting energy expenditure of taller adults. *J Appl Physiol.* 2009;106:40-8. PMID:19008483

Mika Horie L, González MC, Raslan M, Torrinhas R, Rodrigues NL, Verotti CC, Cecconello I, Heymsfield SB, Waitzberg DL. Resting energy expenditure in white and non-white severely obese women. *Nutr Hosp.* 2009;24:676-81. PMID:20049370

Aleman Mateo H, Lee SY, Javed F, Thornton J, Heymsfield SB, Pierson RN, Pi Sunyer FX, Wang ZM, Wang J, Gallagher D. Elderly Mexicans have less muscle and greater total and

truncal fat compared to African-Americans and Caucasians with the same BMI. *J Nutr Health Aging*. 2009;13:919-23. PMID:19924354. PMCID:PMC2819676

Mayer LE, Klein DA, Black E, Attia E, Shen W, Mao X, Shungu DC, Punyanita M, Gallagher D, Wang J, Heymsfield SB, Hirsch J, Ginsberg HN, Walsh BT. Adipose tissue distribution after weight restoration and weight maintenance in women with anorexia nervosa. *Am J Clin Nutr*. 2009;90:1132-7. PMID:19793856. PMCID:PMC2762154

Heymsfield SB, Scherzer R, Pietrobelli A, Lewis CE, Grunfeld C. Body mass index as a phenotypic expression of adiposity: quantitative contribution of muscularity in a population-based sample. *Int J Obes*. 2009;33:1363-73. PMID:19773739. PMCID:PMC3156622

Elobeid MA, Padilla MA, McVie T, Thomas O, Brock DW, Musser B, Lu K, Coffey CS, Desmond RA, St-Onge MP, Gadde KM, Heymsfield SB, Allison DB. Missing data in randomized clinical trials for weight loss: scope of the problem, state of the field, and performance of statistical methods. *PLoS One*. 2009; 4:e6624. PMID:19675667. PMCID:PMC2720539

Kelly TL, Wilson KE, Heymsfield SB. Dual energy X-Ray absorptiometry body composition reference values from NHANES. *PLoS One*. 2009; 4:e7038. PMID:19753111. PMCID:PMC2737140

Bosy-Westphal A, Kossel E, Goele K, Later W, Hitze B, Settler U, Heller M, Gluer CC, Heymsfield SB, Muller MJ. Contribution of individual organ mass loss to weight loss-associated decline in resting energy expenditure. *Am J Clin Nutr*. 2009; 90:993. PMID:19710198

Krishna R, Gumbiner B, Stevens C, Musser B, Mallick M, Suryawanshi S, Maganti L, Zhu H, Han TH, Scherer L, Simpson B, Cosgrove D, Gottesdiener K, Amatruda J, Rolls BJ, Blundell J, Bray GA, Fujioka K, Heymsfield SB, Wagner JA, Herman GA. Potent and selective agonism of the melanocortin receptor 4 with MK-0493 does not induce weight loss in obese human subjects: energy intake predicts lack of weight loss efficacy. *Clin Pharmacol Ther*. 2009; 86:659-66. PMID:19741604

Thomas D, Das SK, Levine JA, Martin CK, Mayer L, McDougall A, Strauss BJ, Heymsfield SB. New fat free mass - fat mass model for use in physiological energy balance equations. *Nutr Metab (Lond)*. 2010; 7:39. PMID:20459692. PMCID:PMC2879256.

Dorsey KB, Thornton JC, Heymsfield SB, Gallagher D. Greater lean tissue and skeletal muscle mass are associated with higher bone mineral content in children. *Nutr Metab (Lond)*. 2010; 7:41. PMID:20459832. PMCID:PMC2886077

Kipnes MS, Hollander P, Fujioka K, Gantz I, Seck T, Erundu N, Shentu Y, Lu K, Suryawanshi S, Chou M, Johnson-Levonas AO, Heymsfield SB, Shapiro D, Kaufman KD, Amatruda JM. A one-year study to assess the safety and efficacy of the CB1R inverse agonist taranabant in overweight and obese patients with type 2 diabetes. *Diabetes Obes Metab*. 2010; 12:517-31. PMID:20518807

Wadden TA, Fujioka K, Toubro S, Gantz I, Erondy NE, Chen M, Suryawanshi S, Carofano W, Johnson-Levonas AO, Shapiro DR, Kaufman KD, Heymsfield SB, Amatruda JM. A randomized trial of lifestyle modification and taranabant for maintaining weight loss achieved with a low-calorie diet. *Obesity (Silver Spring)*. 2010; 18:2301-10. PMID:20379151

Silva AM, Shen W, Heo M, Gallagher D, Wang Z, Sardinha LB, Heymsfield SB. Ethnicity-related skeletal muscle differences across the lifespan. *Am J Hum Biol*. 2010; 22(1): 76-82. PMID:19533617. PMCID:PMC2795070

Wang Z, Heymsfield SB, Chen Z, Zhu S, Pierson RN. Estimation of percentage body fat by dual-energy x-ray absorptiometry: evaluation by in vivo human elemental composition. *Phys Med Biol*. 2010 May 7; 55:2619-35. PMID:20393230. PMCID:PMC2921899

Zhu S, Kim JE, Ma X, Shih A, Laud PW, Pintar F, Shen W, Heymsfield SB, Allison DB. BMI and risk of serious upper body injury following motor vehicle crashes: concordance of real-world and computer-simulated observations. *PLoS Med*. 2010 30; 7:e1000250. PMID:20361024. PMCID:PMC2846859

Santos DA, Silva AM, Matias CN, Fields DA, Heymsfield SB, Sardinha LB. Accuracy of DXA in estimating body composition changes in elite athletes using a four compartment model as the reference method. *Nutr Metab*. 2010 22;7:22. PMID:20307312. PMCID:PMC2850896

Heymsfield SB. Meal replacements and energy balance. *Physiol Behav*. 2010 26;100:90-4. PMID:20193699

Aronne LJ, Tonstad S, Moreno M, Gantz I, Erondy N, Suryawanshi S, Molony C, Sieberts S, Nayee J, Meehan AG, Shapiro D, Heymsfield SB, Kaufman KD, Amatruda JM. A clinical trial assessing the safety and efficacy of taranabant, a CB1R inverse agonist, in obese and overweight patients: a high-dose study. *Int J Obes* 2010; 34(5):919-35. PMID:20157323

Wang Z, Heymsfield SB, Ying Z, Pierson RN Jr, Gallagher D, Gidwani S. A cellular level approach to predicting resting energy expenditure: Evaluation of applicability in adolescents. *Am J Hum Biol*. 2010; 22(4):476-83. PMID:20058259. PMCID:PMC2883012

Blackburn GL, Wollner S, Heymsfield SB. Lifestyle interventions for the treatment of class III obesity: a primary target for nutrition medicine in the obesity epidemic. *Am J Clin Nutr*. 2010;91:289S-292S. PMID:19906805. PMCID:PMC3131844

Gangwisch JE, Malaspina D, Posner K, Babiss LA, Heymsfield SB, Turner JB, Zammit GK, Pickering TG. Insomnia and sleep duration as mediators of the relationship between depression and hypertension incidence. *Am J Hypertens*. 2010;23:62-9. PMID:19893498

Heymsfield SB, Pietrobelli A. Body size and human energy requirements: Reduced mass-specific total energy expenditure in tall adults. *Am J Hum Biol*. 2010;22:301-9. PMID:19856424

Proietto J, Rissanen A, Harp JB, Erondy N, Yu Q, Suryawanshi S, Jones ME, Johnson-Levonas AO, Heymsfield SB, Kaufman KD, Amatruda JM. A clinical trial assessing the safety and efficacy of the CB1R inverse agonist taranabant in obese and overweight patients: low-dose study. *Int J Obes.* 2010;34:1243-5. PMID:20212496

Heo M, Pietrobelli A, Wang D, Heymsfield SB, Faith MS. Obesity and Functional Impairment: Influence of Comorbidity, Joint Pain, and Mental Health. *Obesity.* 2010; 18(10): 2030-38. PMID:19893503

Gallagher D, Thornton JC, He Q, Wang J, Yu W, Bradstreet TE, Burke J, Heymsfield SB, Rivas VM, Kaufman R. Quantitative Magnetic Resonance Fat Measurements in Humans Correlate with Established Methods but are Biased. *Obesity.* 2010; 18(10): 2047-54. PMID:20448539. PMCID:PMC3312473

Thomas DM, Schoeller DA, Redman LA, Martin CK, Levine JA, Heymsfield SB. A computational model to determine energy intake during weight loss. *Am J Clin Nutr.* 2010; 92:1326-31. PMID:20962159. PMCID:PMC2980958

Wang Z, Ying Z, Bosy-Westphal A, Zhang J, Schatz B, Later W, Heymsfield SB, Muller MJ. Specific metabolic rates of major organs and tissues across adulthood: evaluation by mechanistic model of resting energy expenditure. *Am J Clin Nutr.* 2010; 92:1369-77. PMID:20962155. PMCID:PMC2980962

Sun Q, van Dam RM, Spiegelman D, Heymsfield SB, Willett WC, Hu FB. Comparison of dual energy x-ray absorptiometric and anthropometric measures of adiposity in relation to adiposity related biologic factors. *Am J Epidemiol.* 2010; 172:1442-54. PMID:20952596. PMCID:PMC2998203

Muller MJ, Bosy-Westphal A, Heymsfield SB. Is there evidence for a set point that regulates human body weight? *F1000 Med Rep.* 2010; 2:59. PMID:21173874. PMCID:PMC2990627

Silva AM, Fields DA, Heymsfield SB, Sardinha LB. Body composition and power changes in elite judo athletes. *Int J Sports Med.* 2010; 31:737-41. PMID:20645233

Heymsfield SB, Heo M, Pietrobelli A. Are adult body circumferences associated with height? Relevance to normative ranges and circumferential indexes. *Am J Clin Nutr.* 2011; 93:302-7. PMID:21123461

Scherzer R, Shen W, Heymsfield SB, Lewis CE, Kotler DP, Punyanitya M, Bacchetti P, Shlipak MG, Grunfeld C. Intermuscular Adipose Tissue and Metabolic Associations in HIV Infection. *Obesity.* 2011; 19:283-91. PMID:20539305

Davidson LE, Wang J, Thornton JC, Kaleem Z, Silva-Palacios F, Pierson RN, Heymsfield SB, Gallagher D. Predicting Fat Percent by Skinfolds in Racial Groups: Durnin and Womersley Revisited. *Med Sci Sports Exerc.* 2011; 43:542-9. PMID:20689462. PMCID:PMC3308342

Yarasheski KE, Scherzer R, Kotler DP, Dobs AS, Tien PC, Lewis CE, Kronmal RA, Heymsfield SB, Bacchetti P, Grunfeld C; for the Study of Fat Redistribution and Metabolic Change in HIV Infection (FRAM). Age-Related Skeletal Muscle Decline Is Similar in HIV-Infected and Uninfected Individuals. *J Gerontol A Biol Sci Med Sci*. 2011; 66A:332-340. PMID:21310810. PMCID:PMC3041474

Heymsfield SB, Heo M, Thomas D, Pietrobelli A. Scaling of body composition to height: relevance to height-normalized indexes. *Am J Clin Nutr*. 2011; 93:736-40. PMID:21248190

Wang Z, Ying Z, Bosy-Westphal A, Zhang J, Heller M, Later W, Heymsfield SB, Muller MJ. Evaluation of specific metabolic rates of major organs and tissues: Comparison between men and women. *Am J Hum Biol*. 2011; 23:333-8. PMID:21484913. PMCID:PMC3139779

Heymsfield SB, Thomas D, Nguyen AM, Peng JZ, Martin C, Shen W, Strauss B, Bosy-Westphal A, Muller MJ. Voluntary weight loss: systematic review of early phase body composition changes. *Obes Rev*. 2011; 12:e348-61. PMID:20524998

Faith MS, Butryn M, Wadden TA, Fabricatore A, Nguyen AM, Heymsfield SB. Evidence for prospective associations among depression and obesity in population-based studies. *Obes Rev*. 2011; 12:e438-53. PMID:21414128

Klimentidis YC, Beasley TM, Lin HY, Murati G, Glass GE, Guyton M, Newton W, Jorgensen M, Heymsfield SB, Kemnitz J, Fairbanks L, Allison DB. Canaries in the coal mine: a cross-species analysis of the plurality of obesity epidemics. *Proc Biol Sci*. 2011; 278:1626-32. PMID:21106594. PMCID:PMC3081766

He W, Zhu F, Ma X, Zhao X, Zheng M, Chen Z, Heymsfield SB, Zhu S. Actinic Skin Damage and Mortality - the First National Health and Nutrition Examination Survey Epidemiologic Follow-up Study. *PLoS One*. 2011; 6:e19907. PMID:21603643. PMCID:PMC3094404.

Ma X, Laud PW, Pintar F, Kim JE, Shih A, Shen W, Heymsfield SB, Allison DB, Zhu S. Obesity and non-fatal motor vehicle crash injuries: sex difference effects. *Int J Obes (Lond)*. 2011; 35:1216-24. PMID:21224830. PMCID:PMC3135704

Hsueh H, Kastin AJ, Tu H, Markidakis EN, Stone KP, Wang Y, Heymsfield SB, Chua SS Jr., Magrisso IJ, Pan W. Effects of cell-type specific leptin receptor mutation on leptin transport across the BBB. *Peptides*. 2011; 32:1392-9. PMID:21616110. PMCID:PMC3137692

Shen W, Chen J, Kwak S, Punyanitya M, Heymsfield SB. Between-slice intervals in quantification of adipose tissue and muscle in children. *Int J Pediatr Obes*. 2011; 6:149-56. PMID:20528126. PMCID:PMC3032021

Heymsfield SB, Shen W. Obesity: BAI as a new measure of adiposity-throw away your scale? *Nat Rev Endocrinol*. 2011; 7:321-2. PMID:21556023

Scherzer R, Heymsfield SB, Lee D, Powderly WG, Tien PC, Bacchetti P, Shlipak MG, Grunfeld C; for the Study of Fat Redistribution and Metabolic Change in HIV Infection (FRAM). Decreased limb muscle and increased central adiposity are associated with 5-year all-cause mortality in HIV infection. *AIDS*. 2011; 25:1405-14. PMID:21572308

Greenawalt DM, Dobrin R, Chudin E, Hatoum IJ, Suver C, Beaulaurier J, Zhang B, Castro V, Zhu J, Sieberts SK, Wang S, Molony C, Heymsfield SB, Kemp DM, Reitman ML, Lum PY, Schadt EE, Kaplan LM. A survey of the genetics of stomach, liver, and adipose gene expression from a morbidly obese cohort. *Genome Res*. 2011; 21:1008-16. PMID:21602305. PMCID:PMC3129244

Silva AM, Fields DA, Heymsfield SB, Sardinha LB. Relationship between changes in total-body water and fluid distribution with maximal forearm strength in elite judo athletes. *J Strength Cond Res*. 2011; 25:2488-95. PMID:21869630

Barreira TV, Harrington DM, Staiano AE, Heymsfield SB, Katzmarzyk PT. Body adiposity index, body mass index, and body fat in white and black adults. *JAMA*. 2011; 306:828-30. PMID:21862743

Muller MJ, Langemann D, Gehrke I, Later W, Heller M, Gluer CC, Heymsfield SB, Bosity-Westphal A. Effect of constitution on mass of individual organs and their association with metabolic rate in humans-a detailed view on allometric scaling. *PLoS One*. 2011; 6:e22732. PMID:21818376. PMCID:PMC3144246

Heymsfield SB. Energy intake: reduced as prescribed? *Am J Clin Nutr*. 2011; 94:3-4. PMID:21613552

Kosmiski LA, Scherzer R, Heymsfield SB, Rimland D, Simberkoff MS, Sidney S, Shlipak MG, Bacchetti P, Biggs ML, Grunfeld C; for the Study of Fat Redistribution and Metabolic Change in HIV Infection (FRAM). Association of Increased Upper Trunk and Decreased Leg Fat with 2-h Glucose in Controls and HIV-Infected Persons. *Diabetes Care*. 2011;34:2448-2453. PMID:21926283. PMCID:PMC3198295

Lu H, Fu, X, Ma X, Wu Z, He W, Wang Z, Allison, DB, Heymsfield SB, Zhu S. Relationships of percent body fat and percent trunk fat with bone mineral density among Chinese, black, and white subjects. *Osteoporos Int*. 2011;22:3029-35. PMID:21243336

Fabricatore AN, Wadden TA, Higginbotham AJ, Faulconbridge LF, Nguyen AM, Heymsfield SB, Faith MS. Intentional weight loss and changes in symptoms of depression: a systematic review and meta-analysis. *Int J Obes (Lond)*. 2011;35:1363-76. PMID:21343903. PMCID:PMC3139753

Heymsfield SB, Pietrobelli A. Individual differences in apparent energy digestibility are larger than generally recognized. *Am J Clin Nutr*. 2011;94:1650-1. PMID:22106417

Heo M, Kim RS, Wylie-Rosett J, Allison DB, Heymsfield SB, Faith MS. Inverse Association between Fruit and Vegetable intake and BMI even after Controlling for Demographic, Socioeconomic and Lifestyle Factors. *Obes Facts*. 2011;4:449-55. PMID:22248995. PMCID:PMC3338984

Baracos V, Caserotti P, Earthman CP, Fields D, Gallagher D, Hall KD, Heymsfield SB, Muller MJ, Rosen AN, Pichard C, Redman LM, Shen W, Shepherd JA, Thomas D. Advances in the science and application of body composition measurement. *JPEN*. 2012;36:96-107. PMID:22235108

Thomas DM, Navarro-Barrientos JE, Rivera DE, Heymsfield SB, Bredlau C, Redman LM, Martin CK, Lederman SA, M Collins L, Butte NF. Dynamic energy-based model predicting gestational weight gain. *Am J Clin Nutr*. 2012;95:115-22. PMID:22170365. PMCID:PMC3238455

Sala PC, Torrinhas RS, Heymsfield SB, Waitzberg DL. Type 2 Diabetes Mellitus: A Possible Surgically Reversible Intestinal Dysfunction. *Obes Surg*. 2012;22:167-76. PMID:22094369

Wang Z, Ying Z, Bosty-Westphal A, Zhang J, Heller M, Later W, Heymsfield SB, Muller MJ. Evaluation of Specific Metabolic Rates of Major Organs and Tissues: Comparison Between Nonobese and Obese Women. *Obesity (Silver Spring)*. 2012;20:95-100. PMID:21836642. PMCID:PMC3319030

Katzmarsyk PT, Barreira TV, Harrington DM, Staiano AE, Heymsfield SB, Gimble JM. Relationship between abdominal fat and bone mineral density in white and African American adults. *Bone*. 2012;50:576-9. PMID:21549867

Heo M, Faith MS, Pietobelli A, Heymsfield SB. Percentage of body fat cutoffs by sex, age, and race-ethnicity in the US adult population from NHANES 1999-2004. *Am J Clin Nutr*. 2012;95:594-602. PMID:22301924

Myers MG Jr., Heymsfield SB, Haft C, Kahn BB, Laughlin M, Leibel RL, Tschop MH, Yanovski JA. Challenges and opportunities of defining clinical leptin resistance. *Cell Metab*. 2012;15:150-6. PMID:22326217. PMCID:PMC3281561

Berentzen TL, Anquist L, Kotronen A, Borra R, Yki-Jarvinen H, Iozzo P, Parkkola R, Nuutila P, Ross R, Allison DB, Heymsfield SB, Overvad K, Sorensen TI, Jakobsen MU. Waist circumference adjusted for body mass index and intra-abdominal fat mass. *PLoS One*. 2012;7:e32213. PMID:22384179. PMCID:PMC3286444

Hall KD, Heymsfield SB, Kemnitz JW, Klein S, Schoeller DA, Speakman JR. Energy balance and its components: implications for body weight regulation. *Am J Clin Nutr*. 2012;95:989-94. PMID:22434603. PMCID:PMC3302369

Schoeller DA, Alon A, Manekas D, Mixson LA, Lasseter KC, Noonan GP, Bolognese JA, Heymsfield SB, Beals CR, Nunes I. Segmental Bioimpedance for Measuring Amlodipine-



Induced Pedal Edema: A Placebo-Controlled Study. *Clin Ther.* 2012;34:580-592. PMID:22385927

Strack AM, Nicolich S, Faidley T, Achanfuo-Yeboah J, Cunningham PK, Hora D Jr, Thompson D, Hickey G, Johnson-Levonas AO, Fong TM, Heymsfield SB. Cannabinoid-1 receptor inhibition prevents the reduction of 24-hour energy expenditure with weight loss. *Metabolism.* 2012;61:546-53. PMID: 22001334

Barreira TV, Staiano AE, Harrington DM, Heymsfield SB, Smith SR, Bouchard C, Katzmarzyk PT. Anthropometric correlates of body fat, abdominal adiposity, and cardiovascular disease risk factors in a biracial sample of men and women. *Mayo Clin Proc.* 2012;87:452-60. PMID: 22560524

Muller MJ, Bosity-Westphal A, Lagerpusch M, Heymsfield SB. Use of Balance Methods for Assessment of Short-Term Changes in Body Composition. *Obesity (Silver Spring).* 2012;20:701-7. PMID: 21869755

Finkler E, Heymsfield SB, St-Onge MP. Rate of Weight Loss Can Be Predicted by Patient Characteristics and Intervention Strategies. *J Acad Nutr Diet.* 2012;112:75-80. PMID: 22717178

Faith MS, Pietrobelli A, Heo M, Johnson SL, Keller KL, Heymsfield SB, Allison DB. A twin study of self-regulatory eating in early childhood: estimates of genetic and environmental influence and measurement considerations. *Int J Obes.* 2012;36:931-7. PMID: 22249227

Shen W, Chen J, Gantz M, Punyanitya M, Heymsfield SB, Gallagher D, Albu J, Engelson E, Kotler D, Pi-Sunyer X, Shapses S. Ethnic and sex differences in bone marrow adipose tissue and bone mineral density relationship. *Osteoporos Int.* 2012;23:2293-301. PMID:22173789

Heymsfield SB, Thomas D, Martin CK, Redman LM, Strauss B, Bosity-Westphal A, Muller MJ, Shen W, Martin Nguyen A. Energy content of weight loss: kinetic features during voluntary caloric restriction. *Metabolism.* 2012;61:937-43. PMID: 22257646

Heymsfield SB, Muller MJ, Bosity-Westphal A, Thomas D, Shen W. Human brain mass: Similar body composition associations as observed across mammals. *Am J Hum Biol.* 2012;7:e32213. PMID: 22362729

Wang Z, Zhang J, Ying Z, Heymsfield SB. New insights into scaling of fat-free mass to height across children and adults. *Am J Hum Biol.* 2012;24:648-53. PMID: 22638998

Hu G, Horswell R, Wang Y, Li W, Besse J, Xiao K, Chen H, Keller JN, Heymsfield SB, Ryan DH, Katzmarzyk PT. Body Mass Index and the Risk of Dementia among Louisiana Low Income Diabetic Patients. *PLoS One.* 2012;7:e44537. PMID: 22957079

Shen W, Chen J, Gantz M, Punyanitya M, Heymsfield SB, Gallagher D, Albu J, Engelson E, Kotler D, Pi-Sunyer X, Gilsanz V. MRI-measured pelvic bone marrow adipose tissue is inversely

related to DXA-measured bone mineral in younger and older adults. *Eur J Clin Nutr.* 2012;66:983-8. PMID: 22491495

Heymsfield SB, Thomas D, Bosy-Westphal A, Shen W, Peterson CM, Muller MJ. Evolving concepts on adjusting human resting energy expenditure measurements for body size. *Obes Rev.* 2012;13:1001-14. PMID: 22863371

Thomas DM, Bouchard C, Church T, Slentz C, Kraus WE, Redman LM, Martin CK, Silva AM, Vossen M, Westerterlo K, Heymsfield SB. Why do individuals not lose more weight from an exercise intervention at a defined dose? An energy balance analysis. *Obes Rev.* 2012;13:835-47. PMID: 22681398

Freedman DS, Thornton J, Pi-Sunyer FX, Heymsfield SB, Wang J, Pierson Jr. RN, Blanck HM, Gallagher D. The body adiposity index (hip circumference ÷ height(1.5)) is not a more accurate measure of adiposity than is BMI, waist circumference, or hip circumference. *Obesity.* 2012;20:2438-44. PMID:22484365

Shen W, Chen J, Gantz M, Valeasquez G, Punyanitya M, Heymsfield SB. A single MRI slice does not accurately predict visceral and subcutaneous adipose tissue changes during weight loss. *Obesity.* 2012;20:2458-63. PMID: 22728693

Wang Y, Katzmarzyk PT, Horswell R, Li W, Xiao K, Besse J, Xie W, Johnson J, Heymsfield SB, Ryan DH, Hu G. Racial Disparities in Diabetic Complications in an Underinsured Population. *J Clin Endocrinol Metab.* 2012;97:4446-53/ PMID: 22977274.

He W, Zhang S, Song A, Yang M, Jiao J, Allison DB, Heymsfield SB, Zhu S. Greater abdominal fat accumulation is associated with higher metabolic risk in chinese than in white people: an ethnicity study. *PLoS One.* 2013;8(3):e58688. PMID: 23516538.

Katzmarzyk PT, Heymsfield SB, Bouchard C. Clinical utility of visceral adipose tissue for the identification of cardiometabolic risk in white and African American adults. *Am J Clin Nutr.* 2013;97(3):480-6. PMID: 23364010.

Casazza K, Fonataine KR, Astrup A, Birch LL, Brown AW, Bohan Brown MM, Durant N, Dutton G, Foster EM, Heymsfield SB, McIver K, Mehta T, Menachemi N, Newby PK, Pate R, Rolls BJ, Sen B, Smith DL Jr, Thomas DM, Allison DB. Myths, presumptions, and facts about obesity. *N Engl J Med.* 2013;368(5):446-54. PMID:23363498.

Patel SS, Molnar MZ, Tayek JA, Ix JH, Noori N, Benner D, Heymsfield S, Kopple JD, Kovesdy CP, Kalantar-Zadeh K. Serum creatinine as a marker of muscle mass in chronic kidney disease: results of a cross-sectional study and review of literature. *J Cachexia Sarcopenia Muscle.* 2013;4(1):19-29. PMID: 22777757.

Von Thun NL, Sukumar D, Heymsfield SB, Shapses SA. Does bone loss begin after weight loss ends? Results 2 years after weight loss or regain in postmenopausal women. *Menopause.* 2013. [Epub ahead of print] PubMed PMID: 24149920.

Zhao W, Katzmarzyk PT, Horswell R, Wang Y, Johnson J, Heymsfield SB, Cefalu WT, Ryan DH, Hu G. HbA1c and Lower-Extremity Amputation Risk in Low-Income Patients With Diabetes. *Diabetes Care*. 2013;36(11):3591-8. doi: 10.2337/dc13-0437. Epub 2013. PubMed PMID: 24062322; PubMed Central PMCID: PMC3816880.

Ma X, Griffin R, McGwin G, Allison DB, Heymsfield SB, He W, Zhu S. Effectiveness of booster seats compared with no restraint or seat belt alone for crash injury prevention. *Acad Emerg Med*. 2013;20(9):880-7. doi: 10.1111/acem.12204. PubMed PMID: 24050794; PubMed Central PMCID: PMC3798005.

Hu G, Heymsfield SB. Is Mortality Risk Reduced in Overweight or Obese Diabetics? *J Gen Intern Med*. 2013 Sep 4. [Epub ahead of print] PubMed PMID: 24002636.

Silva AM, Heymsfield SB, Sardinha LB. Assessing body composition in taller or broader individuals using dual-energy X-ray absorptiometry: a systematic review. *Eur J Clin Nutr*. 2013;67(10):1012-21. doi: 10.1038/ejcn.2013.148. Epub 2013 Aug 14. PubMed PMID: 23942178.

Müller MJ, Wang Z, Heymsfield SB, Schautz B, Bosity-Westphal A. Advances in the understanding of specific metabolic rates of major organs and tissues in humans. *Curr Opin Clin Nutr Metab Care*. 2013;16(5):501-8. doi: 10.1097/MCO.0b013e328363bdf9. PubMed PMID: 23924948.

Plachta-Danielzik S, Bosity-Westphal A, Kehden B, Gehrke MI, Kromeyer-Hauschild K, Grillenberger M, Willhöft C, Heymsfield SB, Müller MJ. Adiposity rebound misclassified by BMI rebound. *Eur J Clin Nutr*. 2013;67(9):984-9. doi: 10.1038/ejcn.2013.131. PubMed PMID: 23859998.

Thomas DM, Weedermann M, Fuemmeler BF, Martin CK, Dhurandhar NV, Bredlau C, Heymsfield SB, Ravussin E, Bouchard C. Dynamic model predicting overweight, obesity, and extreme obesity prevalence trends. *Obesity*. 2013. doi: 10.1002/oby.20520. [Epub ahead of print] PubMed PMID: 23804487.

Thomas DM, Martin CK, Lettieri S, Bredlau C, Kaiser K, Church T, Bouchard C, Heymsfield SB. Response to 'why is the 3500 kcal per pound weight loss rule wrong?'. *Int J Obes (Lond)*. 2013 Dec;37(12):1614-5. doi: 10.1038/ijo.2013.113. Epub 2013 Jun 18. PubMed PMID: 23774461.

Katzmarzyk PT, Mire E, Bray GA, Greenway FL, Heymsfield SB, Bouchard C. Anthropometric markers of obesity and mortality in white and African American adults: the pennington center longitudinal study. *Obesity (Silver Spring)*. 2013 May;21(5):1070-5. doi: 10.1002/oby.20151. PubMed PMID: 23784912; PubMed Central PMCID: PMC3695407.

Zhao W, Katzmarzyk PT, Horswell R, Wang Y, Li W, Johnson J, Heymsfield SB, Cefalu WT, Ryan DH, Hu G. Aggressive blood pressure control increases coronary heart disease risk among

diabetic patients. *Diabetes Care*. 2013 Oct;36(10):3287-96. doi: 10.2337/dc13-0189. Epub 2013 May 20. PubMed PMID: 23690530; PubMed Central PMCID: PMC3781514.

Schoeller DA, Thomas D, Archer E, Heymsfield SB, Blair SN, Goran MI, Hill JO, Atkinson RL, Corkey BE, Foreyt J, Dhurandhar NV, Kral JG, Hall KD, Hansen BC, Heitmann BL, Ravussin E, Allison DB. Self-report-based estimates of energy intake offer an inadequate basis for scientific conclusions. *Am J Clin Nutr*. 2013 Jun;97(6):1413-5. doi: 10.3945/ajcn.113.062125. PubMed PMID: 23689494.

Müller MJ, Baracos V, Bosy-Westphal A, Dulloo AG, Eckel J, Fearon KC, Hall KD, Pietrobelli A, Sørensen TI, Speakman J, Trayhurn P, Visser M, Heymsfield SB. Functional body composition and related aspects in research on obesity and cachexia: report on the 12th Stock Conference held on 6 and 7 September 2013 in Hamburg, Germany. *Obes Rev*. 2014 May 18. doi: 10.1111/obr.12187. [Epub ahead of print] PubMed PMID: 24835453.

Prado CM, Siervo M, Mire E, Heymsfield SB, Stephan BC, Broyles S, Smith SR, Wells JC, Katzmarzyk PT. A population-based approach to define body-composition phenotypes. *Am J Clin Nutr*. 2014 Apr 23. [Epub ahead of print] PubMed PMID: 24760978.

Thomas DM, Gonzalez MC, Pereira AZ, Redman LM, Heymsfield SB. Time to Correctly Predict the Amount of Weight Loss with Dieting. *J Acad Nutr Diet*. 2014 Mar 31. pii: S2212-2672(14)00111-7. doi: 10.1016/j.jand.2014.02.003. [Epub ahead of print] PubMed PMID: 24699137.

Zheng J, Greenway FL, Heymsfield SB, Johnson WD, King JF, King MJ, Gao C, Chu YF, Finley JW. Effects of three intense sweeteners on fat storage in the *C. elegans* model. *Chem Biol Interact*. 2014 May 25;215:1-6. doi: 10.1016/j.cbi.2014.02.016. Epub 2014 Mar 13. PubMed PMID: 24632416.

Heymsfield SB, Avena NM, Baier L, Brantley P, Bray GA, Burnett LC, Butler MG, Driscoll DJ, Egli D, Elmquist J, Forster JL, Goldstone AP, Gourash LM, Greenway FL, Han JC, Kane JG, Leibel RL, Loos RJ, Scheimann AO, Roth CL, Seeley RJ, Sheffield V, Tauber M, Vaisse C, Wang L, Waterland RA, Wevrick R, Yanovski JA, Zinn AR. Hyperphagia: current concepts and future directions proceedings of the 2nd international conference on hyperphagia. *Obesity (Silver Spring)*. 2014 Feb;22 Suppl 1:S1-S17. doi: 10.1002/oby.20646. PubMed PMID: 24574081.

Gonzalez MC, Pastore CA, Orlandi SP, Heymsfield SB. Obesity paradox in cancer: new insights provided by body composition. *Am J Clin Nutr*. 2014 May;99(5):999-1005. doi: 10.3945/ajcn.113.071399. Epub 2014 Feb 26. PubMed PMID: 24572565.

Heymsfield SB, Adamek M, Gonzalez MC, Jia G, Thomas DM. Assessing skeletal muscle mass: historical overview and state of the art. *J Cachexia Sarcopenia Muscle*. 2014 Mar;5(1):9-18. doi: 10.1007/s13539-014-0130-5. Epub 2014 Feb 15. PubMed PMID: 24532493; PubMed Central PMCID: PMC3953319.

Heymsfield SB, Gonzalez MC, Shen W, Redman L, Thomas D. Weight loss composition is one-fourth fat-free mass: a critical review and critique of this widely cited rule. *Obes Rev.* 2014 Apr;15(4):310-21. doi: 10.1111/obr.12143. Epub 2014 Jan 22. PubMed PMID: 24447775; PubMed Central PMCID: PMC3970209.

Thomas DM, Martin CK, Redman LM, Heymsfield SB, Lettieri S, Levine JA, Bouchard C, Schoeller DA. Effect of dietary adherence on the body weight plateau: a mathematical model incorporating intermittent compliance with energy intake prescription. *Am J Clin Nutr.* 2014 Sep;100(3):787-95. PMID: 25080458

Dawson JA, Hall KD, Thomas DM, Hardin JW, Allison DB, Heymsfield SB. Novel mathematical models for investigating topics in obesity. *Adv Nutr.* 2014 Sep;5(5):561-2. PMID: 25469395

Brown AW, Hall KD, Thomas D, Dhurandhar NV, Heymsfield SB, Allison DB. Order of magnitude misestimation of weight effects of children's meal policy proposals. *Child Obes.* 2014 Dec;10(6):542-4. PMID: 25496036

Al-Gindan YY, Hankey C, Govan L, Gallagher D, Heymsfield SB, Lean ME. Derivation and validation of simple equations to predict total muscle mass from simple anthropometric and demographic data. *Am J Clin Nutr.* 2014 Oct;100(4):1041-51. PMID: 25240071

Zhao W, Katzmarzyk PT, Horswell R, Wang Y, Li W, Johnson J, Heymsfield SB, Cefalu WT, Ryan DH, Hu G. Body mass index and the risk of all-cause mortality among patients with type 2 diabetes mellitus. *Circulation.* 2014 Dec 9;130(24):2143-51. PMID: 25378546

Heymsfield SB, Peterson CM, Thomas DM, Heo M, Schuna JM Jr, Hong S, Choi W. Scaling of adult body weight to height across sex and race/ethnic groups: relevance to BMI. *Am J Clin Nutr.* 2014 Dec;100(6):1455-61. PMID: 25411280

Allison DB, Thomas DM, Heymsfield SB. Energy intake and weight loss. *JAMA.* 2014 Dec 24-31;312(24):2687-8. PMID: 25536264

Skinner AC, Heymsfield SB, Pietrobelli A, Faith MS, Allison DB. Ignoring regression to the mean leads to unsupported conclusion about obesity. *Int J Behav Nutr Phys Act.* 2015 May 7;12:56. PMID: 25948534

Dhurandhar NV, Schoeller DA, Brown AW, Heymsfield SB, Thomas D, Sørensen TI, Speakman JR, Jeansonne M, Allison DB;Response to 'Energy balance measurement: when something is not better than nothing'. Energy Balance Measurement Working Group. *Int J Obes (Lond).* 2015 Jul;39(7):1175-1176. PMID: 25924713

Gao Y, Zong K, Gao Z, Rubin MR, Chen J, Heymsfield SB, Gallagher D, Shen W.

Magnetic resonance imaging-measured bone marrow adipose tissue area is inversely related to cortical bone area in children and adolescents aged 5-18 years. *J Clin Densitom.* 2015 Apr;18(2):203-8. PMID: 25840474

Thomas DM, Ivanescu AE, Martin CK, Heymsfield SB, Marshall K, Bodrato VE, Williamson DA, Anton SD, Sacks FM, Ryan D, Bray GA. Predicting successful long-term weight loss from short-term weight-loss outcomes: new insights from a dynamic energy balance model (the POUNDS Lost study). *Am J Clin Nutr.* 2015 Mar;101(3):449-54. PMID: 25733628

Heymsfield SB, Ebbeling CB, Zheng J, Pietrobelli A, Strauss BJ, Silva AM, Ludwig DS. Multi-component molecular-level body composition reference methods: evolving concepts and future directions. *Obes Rev.* 2015 Apr;16(4):282-94. PMID: 25645009

He W, Li Q, Yang M, Jiao J, Ma X, Zhou Y, Song A, Heymsfield SB, Zhang S, Zhu S. Lower BMI cutoffs to define overweight and obesity in China. *Obesity (Silver Spring).* 2015 Mar; 23(3):684-91. PMID: 25645003

Shah ZK, Elias SN, Abaza R, Zynger DL, DeRenne LA, Knopp MV, Guo B, Schurr R, Heymsfield SB, Jia G. Performance comparison of 1.5-T endorectal coil MRI with 3.0-T nonendorectal coil MRI in patients with prostate cancer. *Acad Radiol.* 2015 Apr;22(4):467-74. doi: PMID: 25579637

Schoeller D, Archer E, Dawson JA, Heymsfield S. Implausible results from the use of invalid methods. *J Nutr.* 2015 Jan;145(1):150. PMID: 25527670

Myers CA, Slack T, Martin CK, Broyles ST, Heymsfield SB. Regional disparities in obesity prevalence in the United States: A spatial regime analysis. *Obesity (Silver Spring).* 2015 Feb;23(2):481-7. PMID: 25521074

Dhurandhar NV, Schoeller D, Brown AW, Heymsfield SB, Thomas D, Sørensen TI, Speakman JR, Jeansonne M, Allison DB; Energy Balance Measurement Working Group. Energy balance measurement: when something is not better than nothing. *Int J Obes (Lond).* 2015 Jul;39(7):1109-1113. PMID: 25394308

Schuna JM Jr, Peterson CM, Thomas DM, Heo M, Hong S, Choi W, Heymsfield SB. Scaling of adult regional body mass and body composition as a whole to height: Relevance to body shape and body mass index. *Am J Hum Biol.* 2015 May-Jun;27(3):372-9. PMID: 25381999

Siervo M, Prado CM, Mire E, Broyles S, Wells JC, Heymsfield S, Katzmarzyk PT. Body composition indices of a load-capacity model: gender- and BMI-specific reference curves. *Public Health Nutr.* 2015 May;18(7):1245-54. PMID: 25221994

Zhao W, Katzmarzyk PT, Horswell R, Li W, Wang Y, Johnson J, Heymsfield SB, Cefalu WT, Ryan DH, Hu G. Blood pressure and heart failure risk among diabetic patients.

Int J Cardiol. 2014 Sep;176(1):125-32. PMID: 25037690

Casazza K, Brown A, Astrup A, Bertz F, Baum C, Brown MB, Dawson J, Durant N, Dutton G, Fields DA, Fontaine KR, Heymsfield S, Levitsky D, Mehta T, Menachemi N, Newby PK, Pate R, Raynor H, Rolls BJ, Sen B, Smith DL Jr, Thomas D, Wansink B, Allison DB. Weighing the Evidence of Common Beliefs in Obesity Research. *Crit Rev Food Sci Nutr*. 2015 Dec 6;55(14):2014-53. PMID: 24950157

Wong WW, Strizich G, Heo M, Heymsfield SB, Himes JH, Rock CL, Gellman MD, Siega-Riz AM, Sotres-Alvarez D, Davis SM, Arredondo EM, Van Horn L, Wylie-Rosett J, Sanchez-Johnsen L, Kaplan RC, Mossavar-Rahmani Y. Relationship between body fat and BMI in a US hispanic population-based cohort study: Results from HCHS/SOL. *Obesity (Silver Spring)*. 2016 May 17. doi: 10.1002/oby.21495. [Epub ahead of print] PubMed PMID: 27184359.

Shepherd JA, Heymsfield SB, Norris SA, Redman LM, Ward LC, Slater C. Measuring body composition in low-resource settings across the life course. *Obesity (Silver Spring)*. 2016 May;24(5):985-8. doi: 10.1002/oby.21491. Epub 2016 Apr 7. PubMed PMID: 27060932; PubMed Central PMCID: PMC4846565.

Peterson CM, Thomas DM, Blackburn GL, Heymsfield SB. Universal equation for estimating ideal body weight and body weight at any BMI. *Am J Clin Nutr*. 2016 May;103(5):1197-203. doi: 10.3945/ajcn.115.121178. Epub 2016 Mar 30. PubMed PMID: 27030535; PubMed Central PMCID: PMC4841935.

Thomas DM, Heymsfield SB. Exercise: Is More Always Better? *Curr Biol*. 2016 Feb 8;26(3):R102-4. doi: 10.1016/j.cub.2015.12.031. PubMed PMID: 26859262.

Myers CA, Slack T, Martin CK, Broyles ST, Heymsfield SB. Change in Obesity Prevalence across the United States Is Influenced by Recreational and Healthcare Contexts, Food Environments, and Hispanic Populations. *PLoS One*. 2016 Feb 5;11(2):e0148394. doi: 10.1371/journal.pone.0148394. eCollection 2016. PubMed PMID: 26849803; PubMed Central PMCID: PMC4743954.

Belarmino G, Horie LM, Sala PC, Torrinhas RS, Heymsfield SB, Waitzberg DL. Body adiposity index performance in estimating body fat in a sample of severely obese Brazilian patients. *Nutr J*. 2015 Dec 30;14:130. doi: 10.1186/s12937-015-0119-8. PubMed PMID: 26717977; PubMed Central PMCID: PMC4697330.

Thomas DM, Brown A, Dawson JA, Li P, Heymsfield SB, Allison DB. Letter to the Editor: Exceptional Data in Paper on "The effect of meridian massage on BM, BMI, WC and HC in simple obesity patients: a randomized controlled trial". *World J Acupunct Moxibustion*. 2015 Mar 30;25(1):66-67. PubMed PMID: 26726287; PubMed Central PMCID: PMC4696399.

Heymsfield SB, Kim JY, Bhagat YA, Zheng J, Insoo Kim, Ahyoung Choi, Seongwook Jo, Jaegool Cho. Mobile evaluation of human energy balance and weight control: Potential for future

developments. *Conf Proc IEEE Eng Med Biol Soc.* 2015 Aug;2015:8201-4. doi: 10.1109/EMBC.2015.7320298. PubMed PMID: 26738198.

Gonzalez MC, Barbosa-Silva TG, Bielemann RM, Gallagher D, Heymsfield SB. Phase angle and its determinants in healthy subjects: influence of body composition. *Am J Clin Nutr.* 2016 Mar;103(3):712-6. doi: 10.3945/ajcn.115.116772. Epub 2016 Feb 3. PubMed PMID: 26843156.

Heymsfield SB, Peterson CM, Thomas DM, Heo M, Schuna JM Jr. Why are there race/ethnic differences in adult body mass index-adiposity relationships? A quantitative critical review. *Obes Rev.* 2016 Mar;17(3):262-75. doi: 10.1111/obr.12358. Epub 2015 Dec 11. Review. PubMed PMID: 26663309.

Heymsfield SB, Hu HH, Shen W, Carmichael O. Emerging Technologies and their Applications in Lipid Compartment Measurement. *Trends Endocrinol Metab.* 2015 Dec;26(12):688-98. doi: 10.1016/j.tem.2015.10.003. Epub 2015 Nov 17. Review. PubMed PMID: 26596676; PubMed Central PMCID: PMC4673021.

Stevens J, Ou FS, Cai J, Heymsfield SB, Truesdale KP. Prediction of percent body fat measurements in Americans 8 years and older. *Int J Obes (Lond).* 2016 Apr;40(4):587-94. doi: 10.1038/ijo.2015.231. Epub 2015 Nov 5. PubMed PMID:26538187.

Al-Gindan YY, Hankey CR, Govan L, Gallagher D, Heymsfield SB, Lean ME. Derivation and validation of simple anthropometric equations to predict adipose tissue mass and total fat mass with MRI as the reference method. *Br J Nutr.* 2015 Dec 14;114(11):1852-67. doi: 10.1017/S0007114515003670. Epub 2015 Oct 5. PubMed PMID: 26435103.

Soileau L, Bautista D, Johnson C, Gao C, Zhang K, Li X, Heymsfield SB, Thomas D, Zheng J. Automated anthropometric phenotyping with novel Kinect-based three-dimensional imaging method: comparison with a reference laser imaging system. *Eur J Clin Nutr.* 2016 Apr;70(4):475-81. doi: 10.1038/ejcn.2015.132. Epub 2015 Sep 16. PubMed PMID: 26373966.

Choi A, Kim JY, Jo S, Jee JH, Heymsfield SB, Bhagat YA, Kim I, Cho J. Smartphone-Based Bioelectrical Impedance Analysis Devices for Daily Obesity Management. *Sensors (Basel).* 2015 Sep 2;15(9):22151-66. doi: 10.3390/s150922151. PubMed PMID: 26364636; PubMed Central PMCID: PMC4610453.

Prado CM, Gonzalez MC, Heymsfield SB. Body composition phenotypes and obesity paradox. *Curr Opin Clin Nutr Metab Care.* 2015 Nov;18(6):535-51. doi: 10.1097/MCO.0000000000000216. PubMed PMID: 26335310.

Belarmino G, Torrinhas RS, Heymsfield SB, Waitzberg DL. Sarcopenia in liver cirrhosis: the role of computed tomography scan in the assessment of muscle mass compared with dual-energy X-ray absorptiometry and anthropometry. *Eur J Gastroenterol Hepatol.* 2015 Oct;27(10):1228. doi: 10.1097/MEG.0000000000000411. PubMed PMID: 26327499.



Xu W, Chafi H, Guo B, Heymsfield SB, Murray KB, Zheng J, Jia G. Quantitative Comparison of 2 Dual-Energy X-ray Absorptiometry Systems in Assessing Body Composition and Bone Mineral Measurements. *J Clin Densitom.* 2015 Jul 20. pii: S1094-6950(15)00130-4. doi: 10.1016/j.jocd.2015.06.002. [Epub ahead of print] PubMed PMID: 26206525.

Widen EM, Factor-Litvak PR, Gallagher D, Paxton A, Pierson RN Jr, Heymsfield SB, Lederman SA. The Pattern of Gestational Weight Gain is Associated with Changes in Maternal Body Composition and Neonatal Size. *Matern Child Health J.* 2015 Oct;19(10):2286-94. doi: 10.1007/s10995-015-1747-5. PubMed PMID: 26179720; PubMed Central PMCID: PMC4575863.

Skinner AC, Heymsfield SB, Pietrobelli A, Faith MS, Allison DB. Ignoring regression to the mean leads to unsupported conclusion about obesity. *Int J Behav Nutr Phys Act.* 2015 May 7;12:56. doi: 10.1186/s12966-015-0212-6. PubMed PMID: 25948534; PubMed Central PMCID: PMC4427929.

Dhurandhar NV, Schoeller DA, Brown AW, Heymsfield SB, Thomas D, Sørensen TI, Speakman JR, Jeansonne M, Allison DB; Energy Balance Measurement Working Group. Response to 'Energy balance measurement: when something is not better than nothing'. *Int J Obes (Lond).* 2015 Jul;39(7):1175-6. doi: 10.1038/ijo.2015.81. Epub 2015 Apr 30. PubMed PMID: 25924713; PubMed Central PMCID: PMC4496300.

Heymsfield SB, Gonzalez MC, Lu J, Jia G, Zheng J. Skeletal muscle mass and quality: evolution of modern measurement concepts in the context of sarcopenia. *Proc Nutr Soc.* 2015 Nov;74(4):355-66. doi: 10.1017/S0029665115000129. Epub 2015 Apr 8. PubMed PMID: 25851205.

Shah ZK, Elias SN, Abaza R, Zynger DL, DeRenne LA, Knopp MV, Guo B, Schurr R, Heymsfield SB, Jia G. Performance comparison of 1.5-T endorectal coil MRI with 3.0-T nonendorectal coil MRI in patients with prostate cancer. *Acad Radiol.* 2015 Apr;22(4):467-74. doi: 10.1016/j.acra.2014.11.007. Epub 2015 Jan 8. PubMed PMID: 25579637; PubMed Central PMCID: PMC4355101.

Allison DB, Thomas DM, Heymsfield SB. Energy intake and weight loss. *JAMA.* 2014 Dec 24-31;312(24):2687-8. doi: 10.1001/jama.2014.15513. PubMed PMID:25536264.

Myers CA, Slack T, Martin CK, Broyles ST, Heymsfield SB. Regional disparities in obesity prevalence in the United States: A spatial regime analysis. *Obesity (Silver Spring).* 2015 Feb;23(2):481-7. doi: 10.1002/oby.20963. Epub 2014 Dec 17. PubMed PMID: 25521074; PubMed Central PMCID: PMC4310761.

Brown AW, Hall KD, Thomas D, Dhurandhar NV, Heymsfield SB, Allison DB. Order of magnitude misestimation of weight effects of children's meal policy proposals. *Child Obes.* 2014 Dec;10(6):542-4. doi: 10.1089/chi.2014.0081. PubMed PMID: 25496036; PubMed Central PMCID: PMC4442575.

Dawson JA, Hall KD, Thomas DM, Hardin JW, Allison DB, Heymsfield SB. Novel mathematical models for investigating topics in obesity. *Adv Nutr*. 2014 Sep;5(5):561-2. PubMed PMID: 25469395; PubMed Central PMCID: PMC4188233.

Heymsfield SB, Peterson CM, Thomas DM, Heo M, Schuna JM Jr, Hong S, Choi W. Scaling of adult body weight to height across sex and race/ethnic groups: relevance to BMI. *Am J Clin Nutr*. 2014 Dec;100(6):1455-61. doi: 10.3945/ajcn.114.088831. Epub 2014 Oct 8. PubMed PMID: 25411280; PubMed Central PMCID: PMC4232013.

Dhurandhar NV, Schoeller D, Brown AW, Heymsfield SB, Thomas D, Sørensen TI, Speakman JR, Jeanson M, Allison DB; Energy Balance Measurement Working Group. Energy balance measurement: when something is not better than nothing. *Int J Obes (Lond)*. 2015 Jul;39(7):1109-13. doi: 10.1038/ijo.2014.199. Epub 2014 Nov 13. Review. PubMed PMID: 25394308; PubMed Central PMCID: PMC4430460.

Shumilov D, Heymsfield SB, Redman LM, Kalluri K, Dey J. New compartment model analysis of lean-mass and fat-mass growth with overfeeding. *Nutrition*. 2016 May;32(5):590-600. doi: 10.1016/j.nut.2015.10.018. Epub 2015 Dec 7. PubMed PMID: 26740258.

Rundle AG, Heymsfield SB. Can Walkable Urban Design Play a Role in Reducing the Incidence of Obesity-Related Conditions? *JAMA*. 2016 May 24-31;315(20):2175-7. doi: 10.1001/jama.2016.5635. PubMed PMID: 27218628.

Bourgeois B, Ng BK, Latimer D, Stannard CR, Romeo L, Li X, Shepherd JA, Heymsfield SB. Clinically applicable optical imaging technology for body size and shape analysis: comparison of systems differing in design. *Eur J Clin Nutr*. 2017 Sep 6. doi: 10.1038/ejcn.2017.142. [Epub ahead of print] PubMed PMID: 28876331.

Gonzalez MC, Correia MITD, Heymsfield SB. A requiem for BMI in the clinical setting. *Curr Opin Clin Nutr Metab Care*. 2017 Sep;20(5):314-321. doi:10.1097/MCO.0000000000000395. PubMed PMID: 28768291.

Heymsfield SB. In memoriam Alexander Francis Roche (1921-2017). *Am J Hum Biol*. 2017 Aug 11. doi: 10.1002/ajhb.23050. [Epub ahead of print] PubMed PMID: 28799680.

Silva AM, Matias CN, Santos DA, Thomas D, Bosy-Westphal A, Müller MJ, Heymsfield SB, Sardinha LB. Energy Balance over One Athletic Season. *Med Sci Sports Exerc*. 2017 Aug;49(8):1724-1733. doi: 10.1249/MSS.0000000000001280. PubMed PMID: 28514233.

Stevens J, Truesdale KP, Cai J, Ou FS, Reynolds KR, Heymsfield SB. Nationally representative equations that include resistance and reactance for the prediction of percent body fat in Americans. *Int J Obes (Lond)*. 2017 Jul 24. doi: 10.1038/ijo.2017.167. [Epub ahead of print] PubMed PMID: 28736441.

Peterson CM, Su H, Thomas DM, Heo M, Golnabi AH, Pietrobelli A, Heymsfield SB. Tri-Ponderal Mass Index vs Body Mass Index in Estimating Body Fat During Adolescence. *JAMA*

Pediatr. 2017 Jul 1;171(7):629-636. doi: 10.1001/jamapediatrics.2017.0460. PubMed PMID: 28505241.

Heymsfield SB, Peterson CM, Thomas DM, Hirezi M, Zhang B, Smith S, Bray G, Redman L. Establishing energy requirements for body weight maintenance: validation of an intake-balance method. *BMC Res Notes*. 2017 Jun 26;10(1):220. doi: 10.1186/s13104-017-2546-4. PubMed PMID: 28651559; PubMed Central PMCID: PMC5485536.

Shepherd JA, Ng BK, Sommer MJ, Heymsfield SB. Body composition by DXA. *Bone*. 2017 Jun 16. pii: S8756-3282(17)30209-0. doi: 10.1016/j.bone.2017.06.010. [Epub ahead of print] PubMed PMID: 28625918.

Silva AM, Matias CN, Santos DA, Thomas D, Bosity-Westphal A, Müller MJ, Heymsfield SB, Sardinha LB. Compensatory Changes in Energy Balance Regulation over One Athletic Season. *Med Sci Sports Exerc*. 2017 Jun;49(6):1229-1235. doi:10.1249/MSS.0000000000001216. PubMed PMID: 28121799.

Liu J, Wang L, Sun J, Liu G, Yan W, Xi B, Xiong F, Ding W, Huang G, Heymsfield S, Mi J. Bone mineral density reference standards for Chinese children aged 3-18: cross-sectional results of the 2013-2015 China Child and Adolescent Cardiovascular Health (CCACH) Study. *BMJ Open*. 2017 May 29;7(5):e014542. doi: 10.1136/bmjopen-2016-014542. PubMed PMID: 28554916.

Silva AM, Matias CN, Santos DA, Rocha PM, Minderico CS, Thomas D, Heymsfield SB, Sardinha LB. Do Dynamic Fat and Fat-free Mass Changes follow Theoretical Driven Rules in Athletes? *Med Sci Sports Exerc*. 2017 May 23. doi: 10.1249/MSS.0000000000001332. [Epub ahead of print] PubMed PMID: 28542004.

Zheng J, Gao C, Wang M, Tran P, Mai N, Finley JW, Heymsfield SB, Greenway FL, Li Z, Heber D, Burton JH, Johnson WD, Laine RA. Lower Doses of Fructose Extend Lifespan in *Caenorhabditis elegans*. *J Diet Suppl*. 2017 May 4;14(3):264-277. Epub 2016 Sep 28. PubMed PMID: 27680107; PubMed Central PMCID: PMC5225670.

Heymsfield SB, Apovian CM. George Lincoln Blackburn, MD, PhD (1936-2017). *Obesity (Silver Spring)*. 2017 May;25(5):815. doi: 10.1002/oby.21827. Epub 2017 Mar 27. PubMed PMID: 28345799.

Gonzalez MC, Heymsfield SB. Bioelectrical impedance analysis for diagnosing sarcopenia and cachexia: what are we really estimating? *J Cachexia Sarcopenia Muscle*. 2017 Apr;8(2):187-189. doi: 10.1002/jcsm.12159. Epub 2017 Jan 31. PubMed PMID: 28145079; PubMed Central PMCID: PMC5377383.

Belarmino G, Gonzalez MC, Sala P, Torrinhas RS, Andraus W, D'Albuquerque LA, Pereira RM, Caparbo VF, Ferrioli E, Pfrimer K, Damiani L, Heymsfield SB, Waitzberg DL. Diagnosing Sarcopenia in Male Patients With Cirrhosis by Dual-Energy X-Ray Absorptiometry Estimates of Appendicular Skeletal Muscle Mass. *JPEN J Parenter Enteral Nutr*. 2017 Apr

1:148607117701400. doi: 10.1177/0148607117701400. [Epub ahead of print] PubMed PMID: 28402708.

Sala P, Torrinhas RS, Fonseca DC, Heymsfield S, Giannella-Neto D, Waitzberg DL. Type 2 Diabetes Remission After Roux-en-Y Gastric Bypass: Evidence for Increased Expression of Jejunal Genes Encoding Regenerating Pancreatic Islet-Derived Proteins as a Potential Mechanism. *Obes Surg*. 2017 Apr;27(4):1123-1127. doi: 10.1007/s11695-017-2602-0. PubMed PMID: 28213664.

Belarmino G, Gonzalez MC, Torrinhas RS, Sala P, Andraus W, D'Albuquerque LA, Pereira RM, Caparbo VF, Ravacci GR, Damiani L, Heymsfield SB, Waitzberg DL. Phase angle obtained by bioelectrical impedance analysis independently predicts mortality in patients with cirrhosis. *World J Hepatol*. 2017 Mar 8;9(7):401-408. doi: 10.4254/wjh.v9.i7.401. PubMed PMID: 28321276; PubMed Central PMCID: PMC5340995.

Heymsfield SB, Bourgeois B, Thomas DM. Assessment of human energy exchange: historical overview. *Eur J Clin Nutr*. 2017 Mar;71(3):294-300. doi: 10.1038/ejcn.2016.221. Epub 2016 Nov 23. PubMed PMID: 27876807.

Thomas DM, Paynter J, Peterson CM, Heymsfield SB, Nduati A, Apolzan JW, Martin CK. A new universal dynamic model to describe eating rate and cumulative intake curves. *Am J Clin Nutr*. 2017 Feb;105(2):323-331. doi: 10.3945/ajcn.115.127811. Epub 2017 Jan 11. PubMed PMID: 28077377; PubMed Central PMCID: PMC5267295.

Earthman CP, Wolfe RR, Heymsfield SB. Dudrick Research Symposium 2015-Lean Tissue and Protein in Health and Disease. *JPEN J Parenter Enteral Nutr*. 2017 Feb;41(2):226-237. doi: 10.1177/0148607115619599. Epub 2016 Jul 11. PubMed PMID: 26684735.

Myers CA, Slack T, Broyles ST, Heymsfield SB, Church TS, Martin CK. Diabetes prevalence is associated with different community factors in the diabetes belt versus the rest of the United States. *Obesity (Silver Spring)*. 2017 Feb;25(2):452-459. doi: 10.1002/oby.21725. Epub 2016 Dec 23. PubMed PMID: 28009108; PubMed Central PMCID: PMC5269515.

Heymsfield SB, Wadden TA. Mechanisms, Pathophysiology, and Management of Obesity. *N Engl J Med*. 2017 Jan 19;376(3):254-266. doi: 10.1056/NEJMra1514009. PubMed PMID: 28099824.

Sala P, Belarmino G, Torrinhas RS, Machado NM, Fonseca DC, Ravacci GR, Ishida RK, Guarda IF, de Moura EG, Sakai P, Santo MA, da Silva ID, Pereira CC, Logullo AF, Heymsfield S, Giannella-Neto D, Waitzberg DL. Gastrointestinal Transcriptomic Response of Metabolic Vitamin B12 Pathways in Roux-en-Y Gastric Bypass. *Clin Transl Gastroenterol*. 2017 Jan 5;8(1):e212. doi: 10.1038/ctg.2016.67. PubMed PMID: 28055029; PubMed Central PMCID: PMC5288601.

Scherzer R, Heymsfield SB, Rimland D, Powderly WG, Tien PC, Bacchetti P, Shlipak MG, Grunfeld C; Study of Fat Redistribution, Metabolic Change in HIV Infection (FRAM).

Association of serum albumin and aspartate transaminase with 5-year all-cause mortality in HIV/hepatitis C virus coinfection and HIV mono-infection. *AIDS*. 2017 Jan 2;31(1):71-79. PubMed PMID: 27677166; PubMed Central PMCID: PMC5127775.

Heymsfield SB, Stevens J. Anthropometry: continued refinements and new developments of an ancient method. *Am J Clin Nutr*. 2017 Jan;105(1):1-2. doi: 10.3945/ajcn.116.148346. Epub 2016 Dec 21. PubMed PMID: 28003202.

Sala P, Belarmino G, Machado NM, Cardinelli CS, Al Assal K, Silva MM, Fonseca DC, Ishida RK, Santo MA, de Moura EG, Sakai P, Guarda IF, da Silva ID, Rodrigues AS, Pereira CA, Heymsfield S, Doré J, Torrinas RS, Giannella-Neto D, Waitzberg DL. The SURMetaGIT study: Design and rationale for a prospective pan-omics examination of the gastrointestinal response to Roux-en-Y gastric bypass surgery. *J Int Med Res*. 2016 Dec;44(6):1359-1375. doi: 10.1177/0300060516667862. Epub 2016 Nov 11. PubMed PMID: 27834300.

Kuchnia AJ, Teigen LM, Cole AJ, Mulasi U, Gonzalez MC, Heymsfield SB, Vock DM, Earthman CP. Phase Angle and Impedance Ratio: Reference Cut-Points From the United States National Health and Nutrition Examination Survey 1999-2004 From Bioimpedance Spectroscopy Data. *JPEN J Parenter Enteral Nutr*. 2016 Sep 26. pii: 0148607116670378. [Epub ahead of print] PubMed PMID: 27670250.

Belarmino G, Gonzalez MC, Torrinas RS, Sala P, Andraus W, D'Albuquerque LA, Pereira RM, Caparbo VF, Ravacci GR, Damiani L, Heymsfield SB, Waitzberg DL. Phase angle obtained by bioelectrical impedance analysis independently predicts mortality in patients with cirrhosis. *World J Hepatol*. 2017 Mar 8;9(7):401-408. doi: 10.4254/wjh.v9.i7.401. PubMed PMID: 28321276; PubMed Central PMCID: PMC5340995.

Sala P, Torrinas RS, Fonseca DC, Heymsfield S, Giannella-Neto D, Waitzberg DL. Type 2 Diabetes Remission After Roux-en-Y Gastric Bypass: Evidence for Increased Expression of Jejunal Genes Encoding Regenerating Pancreatic Islet-Derived Proteins as a Potential Mechanism. *Obes Surg*. 2017 Apr;27(4):1123-1127. doi: 10.1007/s11695-017-2602-0. PubMed PMID: 28213664.

Silva AM, Matias CN, Santos DA, Thomas D, Bosy-Westphal A, Müller MJ, Heymsfield SB, Sardinha LB. Compensatory Changes in Energy Balance Regulation over One Athletic Season. *Med Sci Sports Exerc*. 2017 Jun;49(6):1229-1235. doi: 10.1249/MSS.0000000000001216. PubMed PMID: 28121799.

Thomas DM, Paynter J, Peterson CM, Heymsfield SB, Nduati A, Apolzan JW, Martin CK. A new universal dynamic model to describe eating rate and cumulative intake curves. *Am J Clin Nutr*. 2017 Feb;105(2):323-331. doi: 10.3945/ajcn.115.127811. Epub 2017 Jan 11. PubMed PMID: 28077377; PubMed Central PMCID: PMC5267295.

Sala P, Belarmino G, Torrinas RS, Machado NM, Fonseca DC, Ravacci GR, Ishida RK, Guarda IF, de Moura EG, Sakai P, Santo MA, da Silva ID, Pereira CC, Logullo AF, Heymsfield S, Giannella-Neto D, Waitzberg DL. Gastrointestinal Transcriptomic Response of Metabolic

Vitamin B12 Pathways in Roux-en-Y Gastric Bypass. *Clin Transl Gastroenterol*. 2017 Jan 5;8(1):e212. doi: 10.1038/ctg.2016.67. PubMed PMID: 28055029; PubMed Central PMCID: PMC5288601.

Myers CA, Slack T, Broyles ST, Heymsfield SB, Church TS, Martin CK. Diabetes prevalence is associated with different community factors in the diabetes belt versus the rest of the United States. *Obesity (Silver Spring)*. 2017 Feb;25(2):452-459. doi: 10.1002/oby.21725. Epub 2016 Dec 23. PubMed PMID: 28009108; PubMed Central PMCID: PMC5269515.

Zheng J, Gao C, Wang M, Tran P, Mai N, Finley JW, Heymsfield SB, Greenway FL, Li Z, Heber D, Burton JH, Johnson WD, Laine RA. Lower Doses of Fructose Extend Lifespan in *Caenorhabditis elegans*. *J Diet Suppl*. 2017 May 4;14(3):264-277. Epub 2016 Sep 28. PubMed PMID: 27680107; PubMed Central PMCID: PMC5225670.

Scherzer R, Heymsfield SB, Rimland D, Powderly WG, Tien PC, Bacchetti P, Shlipak MG, Grunfeld C; Study of Fat Redistribution, Metabolic Change in HIV Infection (FRAM). Association of serum albumin and aspartate transaminase with 5-year all-cause mortality in HIV/hepatitis C virus coinfection and HIV mono-infection. *AIDS*. 2017 Jan 2;31(1):71-79. PubMed PMID: 27677166; PubMed Central PMCID: PMC5127775.

Kuchnia AJ, Teigen LM, Cole AJ, Mulasi U, Gonzalez MC, Heymsfield SB, Vock DM, Earthman CP. Phase Angle and Impedance Ratio: Reference Cut-Points From the United States National Health and Nutrition Examination Survey 1999-2004 From Bioimpedance Spectroscopy Data. *JPEN J Parenter Enteral Nutr*. 2017 Nov;41(8):1310-1315. doi: 10.1177/0148607116670378. Epub 2016 Sep 26. PubMed PMID: 27670250.

Bourgeois B, Ng BK, Latimer D, Stannard CR, Romeo L, Li X, Shepherd JA, Heymsfield SB. Clinically applicable optical imaging technology for body size and shape analysis: comparison of systems differing in design. *Eur J Clin Nutr*. 2017 Nov;71(11):1329-1335. doi: 10.1038/ejcn.2017.142. Epub 2017 Sep 6. PubMed PMID:28876331.

Stevens J, Truesdale KP, Cai J, Ou FS, Reynolds KR, Heymsfield SB. Nationally representative equations that include resistance and reactance for the prediction of percent body fat in Americans. *Int J Obes (Lond)*. 2017 Nov;41(11):1669-1675. doi: 10.1038/ijo.2017.167. Epub 2017 Jul 24. PubMed PMID: 28736441; PubMed Central PMCID: PMC5675766.

Heymsfield SB, Peterson CM, Thomas DM, Hirezi M, Zhang B, Smith S, Bray G, Redman L. Establishing energy requirements for body weight maintenance: validation of an intake-balance method. *BMC Res Notes*. 2017 Jun 26;10(1):220. doi: 10.1186/s13104-017-2546-4. PubMed PMID: 28651559; PubMed Central PMCID: PMC5485536.

Liu J, Wang L, Sun J, Liu G, Yan W, Xi B, Xiong F, Ding W, Huang G, Heymsfield S, Mi J. Bone mineral density reference standards for Chinese children aged 3-18: cross-sectional results of the 2013-2015 China Child and Adolescent Cardiovascular Health (CCACH) Study. *BMJ Open*. 2017 May 29;7(5):e014542. doi: 10.1136/bmjopen-2016-014542. PubMed PMID: 28554916; PubMed Central PMCID: PMC5729998.

Silva AM, Matias CN, Santos DA, Rocha PM, Minderico CS, Thomas D, Heymsfield SB, Sardinha LB. Do Dynamic Fat and Fat-Free Mass Changes follow Theoretical Driven Rules in Athletes? *Med Sci Sports Exerc.* 2017 Oct;49(10):2086-2092. doi: 10.1249/MSS.0000000000001332. PubMed PMID: 28542004.

Silva AM, Matias CN, Santos DA, Thomas D, Bosity-Westphal A, Müller MJ, Heymsfield SB, Sardinha LB. Energy Balance over One Athletic Season. *Med Sci Sports Exerc.* 2017 Aug;49(8):1724-1733. doi: 10.1249/MSS.0000000000001280. PubMed PMID: 28514233.

Peterson CM, Su H, Thomas DM, Heo M, Golnabi AH, Pietrobelli A, Heymsfield SB. Tri-Ponderal Mass Index vs Body Mass Index in Estimating Body Fat During Adolescence. *JAMA Pediatr.* 2017 Jul 1;171(7):629-636. doi: 10.1001/jamapediatrics.2017.0460. PubMed PMID: 28505241; PubMed Central PMCID: PMC5710345.

Belarmino G, Gonzalez MC, Sala P, Torrinhas RS, Andraus W, D'Albuquerque LAC, Pereira RMR, Caparbo VF, Ferrioli E, Pfrimer K, Damiani L, Heymsfield SB, Waitzberg DL. Diagnosing Sarcopenia in Male Patients With Cirrhosis by Dual-Energy X-Ray Absorptiometry Estimates of Appendicular Skeletal Muscle Mass. *JPEN J Parenter Enteral Nutr.* 2018 Jan;42(1):24-36. doi: 10.1177/0148607117701400. Epub 2017 Dec 6. PubMed PMID: 28402708.

Garla P, Sala P, Torrinhas RSM, Machado NM, Fonseca DC, da Silva MM, Ravacci GR, Belarmino G, Ishida RK, Guarda IFMS, de Moura EGH, Sakai P, Santo MA, da Silva IDC, Pereira CCA, Heymsfield S, Corrêa-Giannella MLC, Calder PC, Waitzberg DL. Reduced intestinal FADS1 gene expression and plasma omega-3 fatty acids following Roux-en-Y gastric bypass. *Clin Nutr.* 2018 May 29. pii: S0261-5614(18)30183-3. doi: 10.1016/j.clnu.2018.05.011. [Epub ahead of print] PubMed PMID: 30459098.

Affuso O, Pradhan L, Zhang C, Gao S, Wiener HW, Gower B, Heymsfield SB, Allison DB. A method for measuring human body composition using digital images. *PLoS One.* 2018 Nov 5;13(11):e0206430. doi: 10.1371/journal.pone.0206430. eCollection 2018. PubMed PMID: 30395607; PubMed Central PMCID: PMC6218036.

Bourgeois B, Fan B, Johannsen N, Gonzalez MC, Ng BK, Sommer MJ, Shepherd JA, Heymsfield SB. Improved strength prediction combining clinically available measures of skeletal muscle mass and quality. *J Cachexia Sarcopenia Muscle.* 2018 Oct 29. doi: 10.1002/jcsm.12353. [Epub ahead of print] PubMed PMID: 30371008.

Pleuss JD, Talty K, Morse S, Kuiper P, Scioletti M, Heymsfield SB, Thomas DM. A machine learning approach relating 3D body scans to body composition in humans. *Eur J Clin Nutr.* 2019 Feb;73(2):200-208. doi: 10.1038/s41430-018-0337-1. Epub 2018 Oct 12. Review. PubMed PMID: 30315314.

Belarmino G, Torrinhas RS, Sala P, Horie LM, Damiani L, Lopes NC, Heymsfield SB, Waitzberg DL. A new anthropometric index for body fat estimation in patients with severe

obesity. *BMC Obes.* 2018 Oct 1;5:25. doi: 10.1186/s40608-018-0202-8. eCollection 2018. PubMed PMID: 30288293; PubMed Central PMCID: PMC6166270.

Ng BK, Liu YE, Wang W, Kelly TL, Wilson KE, Schoeller DA, Heymsfield SB, Shepherd JA. Validation of rapid 4-component body composition assessment with the use of dual-energy X-ray absorptiometry and bioelectrical impedance analysis. *Am J Clin Nutr.* 2018 Oct 1;108(4):708-715. doi: 10.1093/ajcn/nqy158. PubMed PMID: 30099474.

Bea JW, Going SB, Wertheim BC, Bassford TL, LaCroix AZ, Wright NC, Nicholas JS, Heymsfield SB, Chen Z. Body composition and physical function in the Women's Health Initiative Observational Study. *Prev Med Rep.* 2018 May 9;11:15-22. doi: 10.1016/j.pmedr.2018.05.007. eCollection 2018 Sep. PubMed PMID: 30065910; PubMed Central PMCID: PMC6066466.

Plucker A, Thomas DM, Broskey N, Martin CK, Schoeller D, Shook R, Heymsfield SB, Levine JA, Redman LA. Adult energy requirements predicted from doubly labeled water. *Int J Obes (Lond).* 2018 Aug;42(8):1515-1523. doi: 10.1038/s41366-018-0168-0. Epub 2018 Jul 19. PubMed PMID: 30026590.

Belarmino G, Singer P, Gonzalez MC, Machado NM, Cardinelli CS, Barcelos S, Andraus W, D'Albuquerque LAC, Damiani L, Costa AC, Pereira RMR, Heymsfield SB, Sala P, Torrinhas RSM, Waitzberg DL. Prognostic value of energy expenditure and respiratory quotient measuring in patients with liver cirrhosis. *Clin Nutr.* 2018 Jul 6. pii: S0261-5614(18)31202-0. doi: 10.1016/j.clnu.2018.07.001. [Epub ahead of print] PubMed PMID: 30007480.

Borga M, West J, Bell JD, Harvey NC, Romu T, Heymsfield SB, Dahlqvist Leinhard O. Advanced body composition assessment: from body mass index to body composition profiling. *J Investig Med.* 2018 Jun;66(5):1-9. doi: 10.1136/jim-2018-000722. Epub 2018 Mar 25. PubMed PMID: 29581385; PubMed Central PMCID: PMC5992366.

Van Aller C, Lara J, Stephan BCM, Donini LM, Heymsfield S, Katzmarzyk PT, Wells JCK, Prado CM, Siervo M. Sarcopenic obesity and overall mortality: Results from the application of novel models of body composition phenotypes to the National Health and Nutrition Examination Survey 1999-2004. *Clin Nutr.* 2019 Feb;38(1):264-270. doi: 10.1016/j.clnu.2018.01.022. Epub 2018 Feb 15. PubMed PMID: 29499977.

Bourgeois B, Watts K, Thomas DM, Carmichael O, Hu FB, Heo M, Hall JE, Heymsfield SB. Associations between height and blood pressure in the United States population. *Medicine (Baltimore).* 2017 Dec;96(50):e9233. doi: 10.1097/MD.0000000000009233. PubMed PMID: 29390353; PubMed Central PMCID: PMC5815765.

Ebbeling CB, Klein GL, Luoto PK, Wong JMW, Bielak L, Eddy RG, Steltz SK, Devlin C, Sandman M, Hron B, Shimy K, Heymsfield SB, Wolfe RR, Wong WW, Feldman HA, Ludwig DS. A randomized study of dietary composition during weight-loss maintenance: Rationale, study design, intervention, and assessment. *Contemp Clin Trials.* 2018 Feb;65:76-86. doi:



10.1016/j.cct.2017.12.004. Epub 2017 Dec 9. PubMed PMID: 29233719; PubMed Central PMCID: PMC6055230.

Hood K, Ashcraft J, Watts K, Hong S, Choi W, Heymsfield SB, Gautam RK, Thomas D. Allometric scaling of weight to height and resulting body mass index thresholds in two Asian populations. *Nutr Diabetes*. 2019 Jan 9;9(1):2. doi: 10.1038/s41387-018-0068-3. PubMed PMID: 30683839; PubMed Central PMCID: PMC6347591.

### **EPubs**

Chafi H, Elias SN, Nguyen HT, Friel HT, Knopp MV, Guo B, Heymsfield SB, Jia G. Effect of parallel radiofrequency transmission on arterial input function selection in dynamic contrast-enhanced 3 Tesla pelvic MRI. *J Magn Reson Imaging*. 2015 Jun 9. doi: 10.1002/jmri.24969. [Epub ahead of print] PMID:26069205

Heymsfield SB, Gonzalez MC, Lu J, Jia G, Zheng J. Skeletal muscle mass and quality: evolution of modern measurement concepts in the context of sarcopenia. *Proc Nutr Soc*. 2015 Apr 8:1-12. [Epub ahead of print] PMID: 25851205

### **Chapters/Reviews/Books/Conference Proceedings**

Heymsfield SB, Jain P, Ortiz O, Waki M. Obesity: Cardiac structure and function in markedly obese patients before and after weight loss. In: Wadden TA and VanItallie TB, eds. *Treatment of the Seriously Obese Patient*. New York: The Guilford Press, 136-162, 1992.

Heymsfield SB, Tighe A, Wang ZM. Nutritional Assessment by Anthropometric and Biochemical Methods. In: Shils ME, Olson JA, Shike M, eds. *Modern Nutrition in Health and Disease*. Philadelphia: Lea and Febiger, Eighth Edition, 1992.

Sun Y, Cai L, Heymsfield SB. Design of a Device for the Mechanical Energy Output Measurement of a Human During Motion. In: El-Ashram and Youssef HA, eds. *Developments in Production Engineering Design and Control, PEDAC' 92 Conference Proceedings*, 583-592, 1992.

Heymsfield SB, Wang ZM. Human body composition: the five-level model and its relation to bioimpedance analysis. *Rivista Italiana Di Nutrizione Parenterale Ed Enterale* 11:71-77, 1993.

Tighe AP, Allison DB, Kral JG, Heymsfield SB. Nutrition support of the obese patient. In: Rombeau JL and Caldwell MD, eds. *Parenteral Nutrition, Vol. I, Second Edition*. Philadelphia: W.B. Saunders, 1993.

Wang ZM, Heshka S, Heymsfield SB. Application of computerized axial tomography in the study of body composition: Evaluation of lipid, water, protein, and mineral in healthy men. In: Ellis KJ and Eastman JD, eds. *Human Body Composition: In Vivo Methods, Models, and Assessment*. New York: Plenum Press, 343-344, 1993.

Baumgartner RN, Stauber PM, McHugh D, Wayne S, Garry PJ, Heymsfield SB. Body composition in the elderly using multicompartmental methods. In: Ellis KJ, Eastman JD eds: Human Body Composition: In Vivo Methods, Models, and Assessment. New York: Plenum Press, 251-4, 1993.

Wang J, Dilmanian FA, Thornton J, Russell M, Burastero S, Mazariegos M, Heymsfield SB, Pierson RN Jr. In vivo neutron activation analysis (IVNA) for body fat: Comparison with seven methods. In: Ellis KJ, Eastman JD eds. Human Body Composition: In Vivo Methods, Models, and Assessment. New York: Plenum Press, 31-34, 1993.

Pierson Jr. RN, Wang J, Thornton JC, Russell MA, Heymsfield SB, Mazariegos M, Ma RM, Weber DA. Biological homogeneity and precision of measurement: The boundary conditions for normal in body composition. In: Ellis KJ and Eastman JD eds. Human Body Composition: In Vivo Methods, Models, and Assessment. New York: Plenum Press, 15-22, 1993.

Lederman SA, Pierson Jr. RN, Wang J, Paxton A, Thornton J, Wendel J, Heymsfield SB. Body composition measures during pregnancy. In: Ellis KJ and Eastman JD eds. Human Body Composition: In Vivo Methods, Models, and Assessment. New York: Plenum Press, 193-196, 1993.

Mazariegos M, Heymsfield SB, Wang ZM, Wang J, Yasumura S, Dilmanian FA, Pierson Jr. RN. Aging affects body composition: Young vs. elder women pair matched on body mass index. In: Ellis KJ and Eastman JD eds. Human Body Composition: In Vivo Methods, Models, and Assessment. New York: Plenum Press, 245-50, 1993.

VanItallie TB, Yang M-U, Boileau RA, Heymsfield SB. Applications of body composition technology in clinical medicine: some issues and problems. In: Kral JG and Van Itallie TB, eds. Great Britain: Smith Gordon, Ch. 8, 87-97, 1993.

Van Itallie TB, Yang M-U, Boileau RA, Heymsfield SB. Applications of body composition technology in clinical medicine: some issues and insights. In: Kral JG and VanItallie TB, eds. Recent Developments in Body Composition Analysis: Methods and Applications. London: Smith-Gordon, 61-74, 1993.

Heymsfield SB, Waki M, Lichtman S, Baumgartner R. Multicompartment chemical models of human body composition: recent advances and potential applications. In: Kral JG and VanItallie TB, eds. Recent Developments in Body Composition Analysis: Methods and Applications. London: Smith-Gordon, 75-86, 1993.

Heymsfield SB, Wang ZM, Withers R. Multicomponent molecular-level models of body composition analysis. In: Roche A, Heymsfield SB, Lohman T, eds. Human Body Composition. Champaign: Human Kinetics, Chap 7:129-147, 1996.

Wang ZM, Ma R, Pierson RN Jr, Heymsfield SB. Five-level model: reconstruction of body weight at atomic, molecular, cellular, and tissue-system levels from neutron activation analysis.

- Human Body Composition: in vivo methods, models, and assessment. New York: Plenum Press, 125-128, 1993.
- Heymsfield SB, Matthews DE. Body composition: research and clinical advances- ASPEN 1993 research workshop. *JPEN* 18:91-103, 1994.
- Heshka S, Buhl K, Heymsfield SB. Obesity: Clinical evaluation of body composition and energy expenditure. In: Blackburn GL and Kanders BS, eds. *Obesity: Pathophysiology, Psychology, and Treatment*. New York: Chapman & Hall, Inc., Ch. 3, 39-79, 1994.
- Heymsfield SB, Wang ZM. The future of body composition research. In: Davies PSW and Cole TJ, eds. *Body Composition Techniques in Health and Disease*. Cambridge UK: Cambridge University Press, 1995.
- Heymsfield SB, Allison DB, Heshka S, Pierson RN Jr. The assessment of body composition. In: Allison DB, ed. *Handbook of Methods for the Assessment of Eating Behaviors and Weight Related Problems*. Newbury Park, CA: Sage Publications, 515-559, 1995.
- Heshka S, Heymsfield SB. Pharmacological treatment of obesity. In: Brownell KD, Fairburn CG, eds. *Eating Disorders and Obesity*. New York: The Guilford Press, Ch. 89, 504-509, 1995.
- Heymsfield SB and Waitzberg DL. Composicao Corporea. In: Waitzberg DL, ed. *Nutricao Enterale Parenteral Na Pratica Clinica*, 2nd edition;. Atheneu, Sao Paulo, Brazil, 1995.
- Faith MS, Pietrobelli A, Allison DB, Heymsfield SB. Prevention of pediatric obesity: Examining the issues and forecasting research directions. In: Bendich A and Deckelbaum R, eds. *Preventive Nutrition*. Totowa, NJ: Human Press, Inc., 467-86, 1996.
- Heymsfield SB, Lowell B. Medical nutrition education in the United States of America. In: Widhalm K, Leibetseder L, Bauernfried M, eds. *Over and Undernutrition in Europe*, 7th European Nutrition Conference. Austrian Nutrition Society Proceedings, Vienna 1996.
- Heymsfield SB, Wang ZM. Human body composition: conceptual advances. In: Angel A, Anderson H, Bouchard C, Lau D, Leiter L, Mendelson R, eds. *Progress in Obesity Research*. John Libbey & Company Ltd., 245-257, 1996.
- Heymsfield SB, Hoy MK. Obesity. In: R.E. Rakel, ed. *Conn's Current Therapy*. Philadelphia: W.B. Saunders Co., 510-517. 1996.
- Withers RT, Laforgia J, Heymsfield SB, Wang ZM, Pillans RK. Two, three and four-compartment chemical models of body composition analysis. In: Norton K and Olds T, eds. *Anthropometrical*. Sydney: University of New South Wales Press, Ch. 8, 199-231, 1996.
- Blackburn GL, Milner JA, Hansen BC, Heymsfield SB, Mason AC, Gaul GE. Nutrition societies presidents' forum: future challenges and opportunities for nutrition societies in the 21st century. *Am J Clin Nutr* 64:813-822, 1996.

Pietrobelli A, Formica C, Wang ZM, Heymsfield SB. Dual-energy x-ray absorptiometry body composition model: review of physical concepts. *Am J Physiol* 271:941-51, 1996.

Heymsfield SB, Wang ZM, Baumgartner RN, Ross R. Human body composition: advances in models and methods. *Ann Rev Nutr* 17:527-558, 1997.

Heymsfield SB. Energy exchange-body weight relations: an overview. *Supp Line* 14(1):3-5, 1997.

Heymsfield SB. Nutrition support at the scientific frontier. *JPEN* 21:252-258, 1997.

Pietrobelli A, Heymsfield SB. Leptin: stator cellaret. *Genes thesis Chirurgic*, III(6):5-7, 1997.

Heymsfield SB, Ross R, Wang ZM, Forager D. Imaging techniques of body composition: Advantages of measurement and new uses. In: *Emerging Technologies for Nutrition Research*. Washington, DC: National Academy Press, Ch.5, pp 127-150, 1997.

Heymsfield SB, Baumgartner RN, Ross R, Allison DB, Wang ZM. Evaluation of total and regional body composition. In: Bray GA, Bouchard C, James WPT, eds. *Handbook of Obesity*. New York: Marcel Decker, Inc., Ch. 3, 41-77, 1998.

WHO Expert Subcommittee on the Use and Interpretation of Anthropometry in the Elderly. *Uses and Interpretation of Anthropometry in the Elderly for the Assessment of Physical Status Report to the Nutrition Unit of the World Health Organization*. *Jour of Nutr Health and Aging* 2: 5-17, 1998.

Pietrobelli A, Wang ZM, Heymsfield SB. Techniques used in measuring human body composition. *Cur Open in Clin Nutr and Metab Care* 1:439-448, 1998.

Heymsfield SB, Baumgartner RN, Pan SF. Nutrition Assessment of Malnutrition by Anthropometric Methods. In: Shils ME et al. *Modern Nutrition in Health and Disease*. Baltimore: Williams and Wilkins. Chap. 56, pp. 903-922, 1999.

Wang ZM, Deurenberg P, Wang W, Pietrobelli A, Baumgartner R, Heymsfield SB. Hydration of fat-free body mass: review and critique of a classic body composition constant. *Am J Clin Nutr* 69: 833-841, 1999.

Wang ZM, Wang ZM, Heymsfield SB. History of the study of human body composition: a brief review. *Amer J Hum Biol* 11: 157-165, 1999.

Gallagher D, Heymsfield SB, Wang ZM. Skeletal muscle markers. In: *The role of protein and amino acids in sustaining and enhancing performance*. Chap 12, pp. 255-277. Nat Acad Press (Washington DC), 1999.

Heymsfield BG, Heymsfield SB. Therapeutic Management of Obesity. *PCSE* 4: 55-58, 2000.

Heymsfield BG, Heymsfield SB. Therapeutic Management of Overweight Patients. OB/GYN Special Edition 51-54, 2000.

Allison D, Fontaine K, Heshka S, Mentore J, Heymsfield SB, Alternative Treatments for Weight Loss: A Critical Review. *Critical Reviews in Food Science and Nutrition*. 41(1): 1-28(2001).

Heymsfield SB, Choban P, Allison D, Flancbaum L. Nutritional Support of the Obese Patient. *Clinical Nutrition Parenteral Nutrition*, 3<sup>rd</sup> ed: Ch 20, 407-428(2001).

Geliebter A, Funkhauser Heymsfield SB. Meal Replacement Products and Fat A, Substitutes in Weight control and Maintenance. *Primary and Secondary Preventive Nutrition* 13: 223-233, 2000.

Heymsfield SB. Obesity. IN: EBM Solutions Guidelines for Health Care Providers and Consumers (online database). Issue 1. Nashville, Tenn: EBM Solutions; 2000.

Heymsfield SB, Arredondo ER, Alva CV, Rodriquez AF. Body composition assessment: from atomic level to patient's bed. *Nutricion Clinica* 2(2): 81-91, 1999.

Withers RT, LaForgia J, Heymsfield SB. Critical appraisal of the estimation of body composition via two, three, and four-compartment models. *Am J Hum Biol* 11:175-185, 1999.

Hoffman D, Heymsfield SB, Waitzberg DL. Composicao Corporea. In: Waitzberg DL, ed. *Nutricao Enterale Parenteral Na Pratica Clinica*, 3rd edtion; Atheneu, Sao Paulo, Brazil.

Heymsfield SB. The development of Osteoporosis Diagnosis, *China Contemporary Medicine*, 7(1) 18-21, 2001.

Heymsfield SB, Heshka S. Measurement of Total Energy Stores. In: Fairburn CG, Brownell KD, eds. *Eating Disorders and Obesity, Second Edition*. New York: The Guilford Press. Chapter 22, 121-125. 2002.

Heshka S, Heymsfield SB. Pharmacological Treatments on the Horizon. In: Fairburn CG, Brownell KD, eds. *Eating Disorders and Obesity, Second Edition*. New York: The Guilford Press. Chapter 100, 557-561. 2002.

Lee R, Wang ZM, Heymsfield S. Skeletal Muscle Mass: Regional and Whole-body Measurement Methods. In: Preedy V, Peters T, eds. *Skeletal Muscle: Pathology, Diagnosis and Management of Disease*. London: Greenwich Medical Media. Chapter 39, 427-439. 2002.

Hoffman D, Huber-Miller RK, Allison DB, Wang Z, Shen W, Heymsfield SB. Human Body Composition. In: Eckel RH, ed. *Obesity: Mechanisms and Clinical Management*. Philadelphia: Lippincott Williams & Wilkins. Chapter 5, 103-127. 2003.

Pietrobelli A, Heymsfield SB. Establishing body composition in obesity. *J Endocrinol Invest.* 2002; 25: 884-892.

Heymsfield SB, Hoffman D, Testolin C, Wang ZM. Evaluation of human adiposity. In: Björntorp P, ed. *International Textbook of Obesity*. Chichester, UK: John Wiley & Sons. Chapter 6, 85-97. 2001.

Heshka S, Heymsfield SB. Obesity and Gallstones. In: Björntorp P, ed. *International Textbook of Obesity*. Chichester, UK: John Wiley & Sons. Chapter 28, 399-409. 2001.

Heymsfield SB, Hoffman DJ. Investigación de la composición corporal. In: de Girolami DH, ed. *Fundamentos de Valoración Nutricional y Composición Corporal*. Buenos Aires: El Ateneo. Chapter 13, 151-168. 2003.

Heymsfield SB. Obesity. In: *EBM Solutions Guidelines for Health Care Providers and Consumers* [online database]. Issue 3. Nashville, TN: EBM Solutions, Inc. May 2003.

Poehlman E, Turturro A, Bodkin N, Cefalu W, Heymsfield SB, Holloszy J, Kemnitz J. Caloric Restriction Mimetics: Physical Activity and Body Composition Changes. *J Gerontol A Biol Sci Med Sci* 2001; 56 Spec no 1:45-54.

Saris WH, Heymsfield S. Meeting summary. *Obes Res* 2001; 9 (Suppl. 4):219S-22S.

Heymsfield SB. Rhoads Lecture: Heat and Life: The Ongoing Scientific Odyssey. *Journal of Parenteral and Enteral Nutrition* 2002; 26(6):319-332.

St-Onge MP, Heymsfield SB. Overweight and obesity status are linked to lower life expectancy. *Nutrition Reviews* 2003; 61(9):313-316.

Restrepo PE, Wang ZM, Shen W, Heymsfield SB. Evaluación y vigilancia de la composición corporal del paciente obeso. In: Barranco JG, ed. *Obesidad*. Mexico City: McGraw Hill. Chapter 11, 103-121. 2004.

Heymsfield SB. Body Composition: an overview. In: Medeiros-Neto G, Halpern A, Bouchard C, ed. *Progress in Obesity Research: 9*. John Libbey Eurotext Ltd. Chapter 206, 997-1001. 2003.

Lee RC, Heymsfield SB, Shen W, Wang ZM. Total-body and regional skeletal muscle mass measurement methods: an overview. *Int J Bod Comp Res* 2003; 1(3).

Heymsfield SB. Stress Factor Effecting Homeostasis: Weight Loss and Mineral Status. Paper in press

Heymsfield SB, Harp JB, Rowell PN, Nguyen AM, Pietrobelli A. How much may I eat? Calorie estimates based upon energy expenditure prediction equations. *Obes Rev.* 2006; 7:361-70.

Halpern A, Heymsfield SB, Van Gaal L. Pharmacologic treatment of obesity. *Journal of Obesity*. 2011

Munzberg H, Heymsfield SB. Leptin, Obesity, and Leptin Resistance. In, *Leptin, Regulation and Clinical Applications*. Ed, Dagogo S. Springer, New York, 2015.

Heymsfield SB, Munzberg H. Leptin Therapy in People With a Normal Leptin Gene. In, *Leptin, Regulation and Clinical Applications*. Ed, Dagogo S. Springer, New York, 2015.

Heymsfield SB, Bourgeois B, Thomas DM. Why is it Difficult to Lose and Maintain Large Amounts of Weight with Lifestyle and Pharmacologic Treatments? *Obesity (Silver Spring)*. 2017 Dec;25(12):2017. doi: 10.1002/oby.22045. Epub 2017 Oct 29. PubMed PMID: 29081067.

Gonzalez MC, Correia MITD, Heymsfield SB. A requiem for BMI in the clinical setting. *Curr Opin Clin Nutr Metab Care*. 2017 Sep;20(5):314-321. doi: 10.1097/MCO.0000000000000395. Review. PubMed PMID: 28768291.

Shepherd JA, Ng BK, Sommer MJ, Heymsfield SB. Body composition by DXA. *Bone*. 2017 Nov;104:101-105. doi: 10.1016/j.bone.2017.06.010. Epub 2017 Jun 16. PubMed PMID: 28625918; PubMed Central PMCID: PMC5659281.

Gonzalez MC, Heymsfield SB. Bioelectrical impedance analysis for diagnosing sarcopenia and cachexia: what are we really estimating? *J Cachexia Sarcopenia Muscle*. 2017 Apr;8(2):187-189. doi: 10.1002/jcsm.12159. Epub 2017 Jan 31. PubMed PMID: 28145079; PubMed Central PMCID: PMC5377383.

Heymsfield SB, Wadden TA. Mechanisms, Pathophysiology, and Management of Obesity. *N Engl J Med*. 2017 Jan 19;376(3):254-266. doi: 10.1056/NEJMra1514009. Review. PubMed PMID: 28099824.

Heymsfield SB, Wadden TA. Mechanisms, Pathophysiology, and Management of Obesity. *N Engl J Med*. 2017 Apr 13;376(15):1492. doi: 10.1056/NEJMc1701944. PubMed PMID: 28402780.

Heymsfield SB, Stevens J. Anthropometry: continued refinements and new developments of an ancient method. *Am J Clin Nutr*. 2017 Jan;105(1):1-2. doi: 10.3945/ajcn.116.148346. Epub 2016 Dec 21. PubMed PMID: 28003202.

Heymsfield SB, Bourgeois B, Thomas DM. Assessment of human energy exchange: historical overview. *Eur J Clin Nutr*. 2017 Mar;71(3):294-300. doi: 10.1038/ejcn.2016.221. Epub 2016 Nov 23. Review. PubMed PMID: 27876807.

Earthman CP, Wolfe RR, Heymsfield SB. Dudrick Research Symposium 2015-Lean Tissue and Protein in Health and Disease. *JPEN J Parenter Enteral Nutr*. 2017 Feb;41(2):226-237. doi: 0.1177/0148607115619599. Epub 2016 Jul 11. PubMed PMID: 26684735.

- Jastreboff AM, Kotz CM, Kahan S, Kelly AS, Heymsfield SB. Obesity as a Disease: The Obesity Society 2018 Position Statement. *Obesity* (Silver Spring). 2019 Jan;27(1):7-9. doi: 10.1002/oby.22378. PubMed PMID: 30569641.
- Heymsfield SB, Thomas DM, Boso-Westphal A, Müller MJ. The anatomy of resting energy expenditure: body composition mechanisms. *Eur J Clin Nutr*. 2019 Feb;73(2):166-171. doi: 10.1038/s41430-018-0319-3. Epub 2018 Sep 25. Review. PubMed PMID: 30254244; PubMed Central PMCID: PMC6410366.
- Heymsfield SB. A child's walk through nature inspires a research career. *Eur J Clin Nutr*. 2018 Sep 12. doi: 10.1038/s41430-018-0301-0. [Epub ahead of print] Review. PubMed PMID: 30209360.
- Heymsfield SB. Energy expenditure-body size associations: molecular coordination. *Eur J Clin Nutr*. 2018 Sep;72(9):1314-1319. doi: 10.1038/s41430-018-0214-y. Epub 2018 Sep 5. Review. PubMed PMID: 30185844; PubMed Central PMCID: PMC6375486.
- Prado CM, Purcell SA, Alish C, Pereira SL, Deutz NE, Heyland DK, Goodpaster BH, Tappenden KA, Heymsfield SB. Implications of low muscle mass across the continuum of care: a narrative review. *Ann Med*. 2018 Dec;50(8):675-693. doi: 10.1080/07853890.2018.1511918. Epub 2018 Sep 12. PubMed PMID: 30169116; PubMed Central PMCID: PMC6370503.
- Heymsfield SB, Peterson CM, Bourgeois B, Thomas DM, Gallagher D, Strauss B, Müller MJ, Boso-Westphal A. Human energy expenditure: advances in organ-tissue prediction models. *Obes Rev*. 2018 Sep;19(9):1177-1188. doi: 10.1111/obr.12718. Epub 2018 Jul 23. Review. PubMed PMID: 30035381; PubMed Central PMCID: PMC6107421.
- Müller MJ, Geisler C, Heymsfield SB, Boso-Westphal A. Recent advances in understanding body weight homeostasis in humans. *F1000Res*. 2018 Jul 9;7. pii: F1000 Faculty Rev-1025. doi: 10.12688/f1000research.14151.1. eCollection 2018. Review. PubMed PMID: 30026913; PubMed Central PMCID: PMC6039924.
- Gonzalez MC, Barbosa-Silva TG, Heymsfield SB. Bioelectrical impedance analysis in the assessment of sarcopenia. *Curr Opin Clin Nutr Metab Care*. 2018 Sep;21(5):366-374. doi: 10.1097/MCO.0000000000000496. PubMed PMID: 29957677.
- Hsia DS, Heymsfield SB. Reducing diabetes risk at an early age. *Nat Med*. 2018 Jun;24(6):708-710. doi: 10.1038/s41591-018-0067-x. PubMed PMID: 29875462.
- Müller MJ, Geisler C, Blundell J, Dulloo A, Schutz Y, Krawczak M, Boso-Westphal A, Enderle J, Heymsfield SB. The case of GWAS of obesity: does body weight control play by the rules? *Int J Obes (Lond)*. 2018 Aug;42(8):1395-1405. doi: 10.1038/s41366-018-0081-6. Epub 2018 May 24. Review. PubMed PMID: 29795468.
- Heymsfield SB, Bourgeois B, Ng BK, Sommer MJ, Li X, Shepherd JA. Digital anthropometry: a critical review. *Eur J Clin Nutr*. 2018 May;72(5):680-687. doi: 10.1038/s41430-018-0145-7.



Epub 2018 May 10. Review. PubMed PMID: 29748657; PubMed Central PMCID: PMC6411053.

Gordon-Larsen P, Heymsfield SB. Obesity as a Disease, Not a Behavior. *Circulation*. 2018 Apr 10;137(15):1543-1545. doi: 10.1161/CIRCULATIONAHA.118.032780. PubMed PMID: 29632150.

DeGregory KW, Kuiper P, DeSilvio T, Pleuss JD, Miller R, Roginski JW, Fisher CB, Harness D, Viswanath S, Heymsfield SB, Dungan I, Thomas DM. A review of machine learning in obesity. *Obes Rev*. 2018 May;19(5):668-685. doi: 10.1111/obr.12667. Epub 2018 Feb 9. Review. PubMed PMID: 29426065.

Gadde KM, Martin CK, Berthoud HR, Heymsfield SB. Obesity: Pathophysiology and Management. *J Am Coll Cardiol*. 2018 Jan 2;71(1):69-84. doi: 10.1016/j.jacc.2017.11.011. Review. PubMed PMID: 29301630.

### **Books**

Wright RA, Heymsfield SB eds. Nutritional assessment of the adult hospitalized patient. Boston: Blackwell Scientific Publications, Inc, 290 pages, 1984.

Kral JG, Heymsfield SB eds. Morbid obesity I and II *Gastroenterology Clinics of North America*, 16, numbers 2 and 3, 1987.

Bell SJ, Matarese LE, Heymsfield SB eds. Nutrition assessment anthology. Silver Spring: ASPEN, 1991.

Roche A, Heymsfield SB, Lohman TE eds. *Body Composition*. Human Kinetics, Champaign, ILL, 1996.

Heymsfield SB, Lohman TG, Wang ZM, Going SB. *Human Body Composition*, 2nd ed. Human Kinetics, Champaign, IL, 2005.

Heymsfield SB, Lohman TG, Wang Z, Going SB. *Composition Corporal*. Second Edition. McGraw Hill, 2007.

### **Editorials/Letters/Book Reviews**

(Editorial) Heymsfield SB, Greenwood T, Roongpisuthipong C. Dietetics and enteral nutrition: past, present and future. *J Am Diet Assoc* 85(6):667-668, 1985.

(Editorial) Heymsfield SB. Nutrition and the Heart: an update. *Nutr Clin Prac* 192:81-82, 1986.

(Editorial) Howard L, Heird W, Heymsfield SB, Rhoads JE. A report of the conference on clinical nutrition training for physicians. *Am J Clin Nutr* 44:135-153, 1986.

(Editorial) Heymsfield SB. The pathogenesis of cardiac cachexia: an overview. *Nutr Int* 3:103, 1987.

(Editorial) Kral JG, Heymsfield SB. Morbid obesity: definitions, epidemiology, and methodological problems. *Gastro Clin N Am* 16(2):197-205, 1987.

(Letter) Seaton TB, Heymsfield SB, Rosenthal W. Ursodioxycholic acid and gallstones during weight loss. *New Engl J Med* 320:1351, 1989.

(Editorial) Heymsfield SB, Waki M, Reinus J. Are patients with chronic liver disease hypermetabolic? *Hepatology* 11(3):502-505, 1990.

(Book Rev.) Allison DB, Heymsfield SB. *Obesity: Theory and Therapy* (2nd Edition). *JPEN* 17(4):396, 1993.

(Letter) Heymsfield SB, Heshka S, Lichtman S. Actual vs. self-reported intake and exercise in obese patients. *New Engl J Med* 328:1495, 1993.

(Editorial) Heymsfield SB, Wang ZM. Measurement of total body fat by underwater weighing: new insights and uses for an old method. *Nutrition* 9:472-3, 1993.

(Book Rev.) Allison DB, Heymsfield SB. *Obesities*. *Vague J*. *JPEN* 18(1):87, 1994.

(Book Rev.) Heymsfield SB, Wang ZM, Lohman TG. *Advances in body composition assessment*. *JPEN* 18(3):283, 1994.

(Editorial) Gallagher D, Heymsfield SB. Obesity is bad for the heart, but is weight loss good? *Obes Res* 2:160-163, 1994.

(Book Rev.) Allison DB, Wolper C, Heymsfield SB. A review of improving the long-term management of obesity, by Michael G. Perri, Arthur M. Nezu, and Barbara J Viegner. *JPEN* 18(1):88, 1994.

(Book Rev.) Allison DB, Heymsfield SB. *A review of the obese child*, Edited by PL Giorgi, RM Suskind, and C Catassi. *JPEN* 18(1):89, 1994.

(Editorial) Heymsfield SB. Enteral solutions: is there a solution? *Nutr Clin Pract* 10:4-7, 1995.

(Book Rev.) Allison DB, Heymsfield SB. *Obesity in Europe 93: Proceedings of the Fifth European Congress on Obesity*, edited by H Ditschuneit, FA Gries, H Hauner, V Schusdziarra, and JG Wechsler. *JPEN* 19:424, 1995.

(Editorial) Baumgartner RN and Heymsfield SB, Roche AF. Human body composition and chronic disease. *Obes Res* 3:73-95, 1995.

(Editorial) Heymsfield SB, Pietrobelli A. Morbid obesity: the price of progress. *End Pract* 3(5):320-323, 1997.

(Editorial) Pietrobelli A, Allison DB, Heymsfield SB. Practical, low-cost body-composition assessments. *Weight Contr Dig* 7(6): 675-677, 1997.

(Editorial) Heymsfield S, Nuñez C, Pietrobelli A. Biompedance analysis: what are the next steps? *Nutr Clin Pract* 12:201-203, 1997.

(Editorial) Roubenoff R, Heymsfield SB, Cannon JG, Kehayias JJ, Rosenberg IH. Standardization of nomenclature of body composition in weight loss. *J Clin Nutr* 66:192-196, 1997.

(Letter to the editor) Heshka S, Heymsfield SB, Pi-Sunyer FX. Reply to Moran et al. *Int J Obes.* 22(3): 283-84, 1998.

(Editorial). Kotler D and Heymsfield SB. HIV infection: a model chronic illness for studying wasting diseases. *Am J Clin Nutr.* 68(3):519-520, 1998.

(Letter to the editor) Heymsfield SB and Kotler DP. Reply to PP Garcia Luna et al. *Am J Clin Nutr.* 70(2): 301, 1999.

(Letter) Wang Z, Deurenberg P, Wang W, Pietrobelli A, Baumgartner R, Heymsfield SB. Hydration of fat-free body mass: new physiological modeling approach. *Am. J. Pysiol. Endocrinol. Metab.* 278: E752-E753, 2000.

(Book Review) Allison D and Heymsfield SB. *Nutrition, Genetics, and Obesity.* *New Eng J Med.* 2000;342:747.

(Book Review) Heymsfield SB. *Fat: Fighting the Obesity Epidemic*, by Robert Pool. 227 pp., illustrated. New York, New Eng J Med. 344 (12): 940-941.

(Letter to the editor) Heymsfield SB. Reply to Christopher Nunez et al. *Am J Clin Nutr.* 73: 845-846, 2001.

Heymsfield SB, Pietrobelli A, Wang Z, Saris WH. The end of body composition methodology research? *Curr Opin Clin Nutr Metab Care.* 2005;8:591-594.

Miller GD, Cohen NL, Fulgoni VL, Heymsfield SB, Wellman NS. From nutrition scientist to nutrition communicator: why you should take the leap. *Am J Clin Nutr.* 2006;83:1272-5.

Heymsfield, SB. The body composition toolkit: 'Fit for Function'. *IJBCR.* 2006;4:51-7.

(Letter to the Editor) Heymsfield SB, Blackburn GL. Comparison of weight-loss diets. *JAMA.* 2007;298:173-4.

(Editorial). Heymsfield SB, Cefalu WT. Does body mass index adequately convey a patient's mortality risk? *JAMA*. 2013;309:87-8. PMID: 23280230.

Schoeller D, Thomas D, Archer E, Heymsfield SB, Blair S, Goran M, Hill J, Atkinson RL, Corkey B, Foreyt J, Dhurandhar NV, Hall K, Kral J, Hansen BC, Heitmann BL, Ravussin E, Allison DB. Self-Report-Based Estimates of Energy Intake Offer an Inadequate Basis for Scientific Conclusions. *Am J Clin Nutr*. 2013;97(6):1413-5. PMID: 23689494

Gonzalez MC, Pastore CA, Orlandi SP, Heymsfield SB. Reply to RM Winkels et al. *Am J Clin Nutr*. 2014 Oct;100(4):1208-9. PMID:25240084

Prado CM, Heymsfield SB. Lean tissue imaging: a new era for nutritional assessment and intervention. *JPEN J Parenter Enteral Nutr*. 2014 Nov;38(8):940-53. Review. PMID: 25239112

Peterson CM, Thomas DM, Heymsfield SB. The Use of Tri-Ponderal Mass Index and Other Indices in Estimating Visceral Body Fat Percentages in Adolescents-Reply. *JAMA Pediatr*. 2017 Dec 1;171(12):1228. doi: 10.1001/jamapediatrics.2017.3447. PubMed PMID: 28973147; PubMed Central PMCID: PMC5968816.

Heymsfield SB, Apovian CM. George Lincoln Blackburn, MD, PhD (1936-2017). *Obesity (Silver Spring)*. 2017 May;25(5):815. doi: 10.1002/oby.21827. Epub 2017 Mar 27. PubMed PMID: 28345799.

Thomas DM, Watts K, Roginski J, Martin CK, Heymsfield S, Redman LM, Schoeller DA. Misrepresentation of the Pennington Biomedical Research Center Weight Loss Predictor. *Am J Clin Nutr*. 2018 Oct 1;108(4):898-901. doi: 10.1093/ajcn/nqy153. PubMed PMID: 30052709.

Ludwig DS, Kushi LH, Heymsfield SB. Conflicts of Interest in Nutrition Research. *JAMA*. 2018 Jul 3;320(1):93. doi: 10.1001/jama.2018.5658. PubMed PMID: 29971389.

Dickinson SL, Brown AW, Mehta T, Heymsfield SB, Ebbeling CB, Ludwig DS, Allison DB. Incorrect analyses were used in "Different enteral nutrition formulas have no effect on glucose homeostasis but on diet-induced thermogenesis in critically ill medical patients: a randomized controlled trial" and corrected analyses are requested. *Eur J Clin Nutr*. 2019 Jan;73(1):152-153. doi: 10.1038/s41430-018-0197-8. Epub 2018 Jun 27. PubMed PMID: 29946116; PubMed Central PMCID: PMC6310101.

Müller MJ, Krawczak M, Heymsfield S, Schutz Y, Dulloo A, Blundell J, Geisler C, Bosy-Westphal A. Thanks for opening an overdue discussion on GWAS of BMI: a reply to Prof. Speakman et al. *Int J Obes (Lond)*. 2019 Jan;43(1):217-218. doi: 10.1038/s41366-018-0264-1. Epub 2018 Nov 27. PubMed PMID: 30482932.

Thomas DM, Watts K, Roginski J, Martin CK, Heymsfield S, Redman LM, Schoeller DA. Misrepresentation of the Pennington Biomedical Research Center Weight Loss Predictor. *Am J Clin Nutr*. 2018 Jul 24. doi: 10.1093/ajcn/nqy153. PubMed PMID: 30052709.

Ludwig DS, Kushi LH, Heymsfield SB. Conflicts of Interest in Nutrition Research. *JAMA*. 2018 Jul 3;320(1):93. doi: 10.1001/jama.2018.5658. PubMed PMID: 29971389.

Dickinson SL, Brown AW, Mehta T, Heymsfield SB, Ebbeling CB, Ludwig DS, Allison DB. Incorrect analyses were used in "Different enteral nutrition formulas have no effect on glucose homeostasis but on diet-induced thermogenesis in critically ill medical patients: a randomized controlled trial" and corrected analyses are requested. Eur J Clin Nutr. 2018 Jun 27. doi: 10.1038/s41430-018-0197-8. [Epub ahead of print] PubMed PMID: 29946116.

Krzysztof Duda, Joanna Majerczak, Zenon Nieckarz, Steven B. Heymsfield and Jerzy A. Zoladz. Human Body Composition and Muscle Mass. In press, JA Zoladz, Skeletal Muscle Mass; Elsevier. 2019

## **Service**

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#### ***Current:***

Cell Metabolism  
Metabolism: Clinical and Experimental  
Obesity

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Journal of Parenteral and Enteral Nutrition  
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- Audit Committee (2007-2009)
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Foundation for the National Institutes of Health, Obesity Board Member

**Commercialization****Patents**

<b>Patent #</b>	<b>Year of Issue</b>	<b>Title</b>
7,089,052	2006	Method and system for estimating visceral fat area
6,480,736	2002	Method for determining basal metabolism
6,477,409	2002	Apparatus for measuring basal metabolism
6,468,209	2002	Method and apparatus for estimating body fat
6,393,317	2002	Living body impedance measuring instrument and body composition measuring instrument
4,832,042	1989	Ventilator hood system for indirect calorimetry
4,257,107	1981	Measuring device