

Nutrition Informatics References

*Compiled by Elaine Ayres, Lindsey Hoggie & Marty Yadrick
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I. PROFESSIONAL DEVELOPMENT 2
 GENERAL NUTRITION INFORMATICS 2
 EDUCATION (PROFESSIONAL) 4

II. PROFESSIONAL USE 6
 CLINICAL PRACTICE..... 6
 STANDARDS, STANDARDIZED LANGUAGE AND NUTRITION CARE PROCESS 14
 EVIDENCE BASED PRACTICE AND OUTCOMES 15
 FOOD SERVICE SYSTEMS..... 16
 ELECTRONIC HEALTH RECORDS 17
 CLINICAL DECISION SUPPORT AND COMPUTER PROVIDER ORDER ENTRY(CPOE) 18
 FOOD AND NUTRITION MANAGEMENT SYSTEMS 18
 NUTRIENT ANALYSIS/FOOD COMPOSITION/NUTRIENT DATABASES..... 24
 NUTRITION RESEARCH 31
 TELEHEALTH & TELEMEDICINE 33
 REIMBURSEMENT FOR NUTRITIONAL CARE 35
 PRIVACY AND SECURITY OF HEALTH INFORMATION 35
 ETHICAL AND LEGAL ISSUES OF PRACTICE 36
 SURVEYS..... 36

III. CONSUMER FACING INFORMATICS 38
 INTERNET & WEBSITE CONTENT..... 38
 NUTRITION EDUCATION FOR CONSUMERS 40
 PERSONAL FOOD AND NUTRITION APPLICATIONS AND TECHNOLOGIES..... 45
 PERSONAL HEALTH RECORDS..... 49
 HEALTH 2.0 AND MOBILE TECHNOLOGIES 49

IV. POPULATION HEALTH 52
 COMMUNITY NUTRITION AND PUBLIC HEALTH..... 52
 FOOD SUPPLY AND SAFETY SURVEILLANCE..... 53
 HEALTH INFORMATION EXCHANGE 54

Nutrition Informatics References

Compiled by Elaine Ayres, Lindsey Hoggle & Marty Yadrick
October 2010 Version 2

I. PROFESSIONAL DEVELOPMENT

GENERAL NUTRITION INFORMATICS

- Aase S. Toward E-Professionalism: Thinking through the Implications of Navigating the Digital World. *J Am Diet Assoc.* 2010;110:1442-1449.
- Anonymous. Case history of a hospital information system. *J Am Diet Assoc.* 1976 Jan;68(1):45-6.
- An S, Lipscomb R. Instant Mentoring: Sharing Wisdom and Getting Advice Online with E-Mentoring. *J Am Diet Assoc.* 2010; 110:1148-1155.
- Ayres, E, Hoggle, L. ADA Nutrition informatics member survey: results and future steps. *J Am Diet Assoc.* 2008;108:1822-1826.
- Babines M. Revitalizing your information Systems Nov-Dec 2008 www.vstech.com/tool_kits.html accessed Oct 6, 2010.
- Clithero WA. The computer as a dietetic tool. *J Am Diet Assoc.* 1964 Jun;44:451-2.
- Coblans H. Keeping up to date in nutrition: the control and communication of information. *Proc Nutr Soc.* 1968 Sep;27(2):113-4.
- Dwyer J. Suitor CW. Caveat emptor: Assessing needs, evaluating computer options. *J Am Diet Assoc.* 1984;84:302-312.
- Eck LS, Forsell G. Computer Use by a District Dietetic Association. *J Am Diet Assoc.* 1999;99:A10.
- Evers WD. Communicating food and nutrition on the information highway. *J Am Diet Assoc. Supplement.* 1994;94:A83.
- Evers, WD. Communications Technology and the Profession. *J Am Diet Assoc.* 1996;96:756-757.
- Evers WD, Linking the World's Nutrition Educators Via Cyberspace. American Dietetic Association Website <http://www.eatright.org/Foundation/content.aspx?id=7161&terms=cyberspace> accessed October 7, 2010.
- Facinoli SL. A nutritionist's field guide to cyberspace. *J Nutr Educ.* 1996;28:26-32.
- Getz, L. Get connected: go high tech to gain that professional edge. *Today's Dietitian* 2009;Nov:46-48.
- Hayes D, Forsell G, Homer-Trobaugh J, Ziemer K. ADA's ramp to the information superhighway: going on-line with dietetics professionals. *J Am Diet Assoc.* 1995;105:853.

Nutrition Informatics References

Compiled by Elaine Ayres, Lindsey Hogle & Marty Yadrick
October 2010 Version 2

- Hogle, L.B., Ayres, E.A. Yadrick, M.M., "A Decade of Work Coming Together: Nutrition Care, Electronic Health Records, and the HITECH Act" *J Am Diet Assoc* 2010 (in press)
- Hogle, LB. "HITECH Update: Meaningful Use Phase I" *J Am Diet Assoc* 2010 (in press)
- Hogle, L, Michael, M, Houston, S, Ayres, E. Nutrition informatics *J Am Diet Assoc.* 2006;106:134-139.
- Homer-Trobaugh J, Forsell G, Zeimer K. Development of an On-Line Professional Group. . *J Am Diet Assoc.* 1995;95:A74.
- Hoover LW. Computers in dietetics: State of the art, 1976. *J Am Diet Assoc.* 1976;68:39-41.
- Horton LE. Preparing for the computer. *J Am Diet Assoc.*1971;58:548.
- Hume S. Generation Next Chief Information officers are bringing foodservice technology use into the 21st century. *Rest and Inst.* 2002; accessed on August 10, 2005 from <http://www.foodservice411.com/rimag/archives/2002/05a/sr.asp>.
- Johnson TE, Borja ME, Loftus MK, McClintock NK. Factors influencing entrepreneurial dietitians in the use of the computer as a professional tool. *J Am Diet Assoc.* 1999;99:1440-1442.
- Kirk SF, Cade JE, Greenhalgh A. Dietitians and the internet: are dietitians embracing the new technology? *J Hum Nutr Diet.* 2001 Dec;14(6):477-84.
- Lewis, K, Burton-Freeman, B. The role of innovation and technology in meeting individual nutrition needs. *J Nutr.* 2010;426S-436S.
- Michalezyk, D. Impact your practice: Communicate effectively online. *J Am Diet Assoc.* 2005;102:778-779.
- Morris D. Locating the information superhighway on-ramp: You can get there from where you are. *J Am Diet Assoc.* 2005;96:14-16.
- Orta J. 1988. Computer Applications in Nutrition and Dietetics: An Annotated Bibliography. New York: Garland Publishing, Inc.
- Parks, SC. Challenging the future: impact of information technology on dietetics practice, education and research. *J Am Diet Assoc.* 1994;94:202-204.
- Peregrin, T. Next on the Menu: Labeling Law Could Mean New Career Opportunities for RDs. *J Am Diet Assoc.* 2010; 110:1144-1147.
- Rochford CC. Youth in action IV. Inquiry into computer applications in dietetics. *J Am Diet Assoc.* 1975 Apr;66(4):374-5.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Sandon L. A System for Designing Effective Online Education. *J Am Dietetic Assoc.*2007; 1305-1306.
- Wallner S, Kendall P, Hillers V, Bradshaw E, Medeiros L. Online Continuing Education Course Enhances Nutrition and Health Professionals' Knowledge of Food Safety Issues of High-Risk Populations. *J Am Diet Assoc.* 2007; 107: 1333-1338.
- Yadrick M. Informatics: A word We Need to Know. *J Am Dietetic Assoc.*2008;108:1976.
- Youngwirth J. The evolution of computers in dietetics: A review. *J Am Dietetic Assoc.* 1983;82:62-67.
- Zabel C, Snyder D, Heslop C, Manusakis L, Aloia D. Planning the Implementation of the Nutrition Care Process and Standardized Language for a Health Care System Using Electronic Documentation. *J Am Dietetic Assoc.*2010;110:1287-1293.

EDUCATION (PROFESSIONAL)

- Balch GI. Employer's perceptions of the roles of dietetics practitioners: Challenges to survive and opportunities to thrive. *J Am Diet Assoc.* 1996;96: 1301-1305.
- Barbrow E, Jeong M, Parks S. Computer experiences and attitudes of students and preceptors in distance education. *J Am Diet Assoc.* 1996;96:1280-1281.
- Cohen NL, Beffa-Negrini P, Sternheim MM, Volpe SL, Laus MJ, Sternheim HR. The internet as a method of continuing education in nutrition. *Top Clin Nutr.* 1997; 12: 21-26.
- Cooksey K, Kohlmeier M, Plaisted C, Adams K, Zeisel SH. Getting nutrition education into medical schools: a computer-based approach. *Am J Clin Nutr (suppl)* 2000;72: 868S-876S.
- Cotugna N, Vickery CE. Perceptions and evaluation of the computerized Registration Examination for Dietitians. *J Am Diet Assoc.* 2005;101: 1453-1455.
- Cotugna N, Vickery CE. Reverse mentoring: A twist to teaching technology. *J Am Diet Assoc.* 1998;98:1166-1168.
- Cotugna N, Vickery CE. Use of computer-based patient records in dietetics supervised practice programs. *J Am Diet Assoc.* 2000;100:95-97.
- Dodds JM, Laraia BA, Carbone ET Development of a master's in public health nutrition degree program using distance education. *J Am Diet Assoc.* 2003;103: 602-607.
- Edwards M, Lasswell A. Integration of Nutrition into the Medical Curriculum: A Web-based Module. *J Nutr Educ Behav* 2006;38:186-187.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Friedman, C., Altman, R, Kohane, I, McCormick, K, Miller, P, Ozbolt, J, Shortliffe, E, Stormo, G, Szczepaniak, M, Tuck, D, Williamson, J. Training the next generation of informaticians: The impact of BISTI and bioinformatics – a report for the American College of Medical Informatics. *J Am Med Inform Assoc.* 2004;11:167-172.
- Green C. Technology in School Nutrition: Challenges in Online Training. *Top Clin Nutr* 2008;23: 187-194.
- Holben, D, Hassell, J. Computers and dietetics education. *J Am Diet Assoc.* 2000;100:1008.
- Hoover LW, Moore AN. "Dietetic Com-Pak": An educational model simulating computer-assisted dietetics. *J Am Diet Assoc.* 1974;64: 500.
- Hutton CW, Davidson SH. Self-instructional learning packages as a teaching tool in dietetic education. *J Am Diet Assoc.* 1979;75: 678-681.
- Keim KS, Johnson CA, Gates GE. Learning needs and continuing professional activities of Professional Development Portfolio participants. *J Am Diet Assoc.* 2001;101:697-702.
- Kohlmeier M, McConathy WJ, Lindell KC, Zeisel SH. Adapting the contents of computer-based instruction based on knowledge tests maintains effectiveness of nutrition education. *Am J Clin Nutr(suppl)* 2003;77: 1025S-7S.
- Litchfield, R, Oakland, M, Anderson, J. Improving Dietetics Education with Interactive Communication Technology. *J Am Diet Assoc.* 2000;100:1191-1194.
- McCarthy M. Computers and the Internet: tools for lifelong learning. *J Ren Nutr.* 2000 Jan;10(1):44-8.
Miller JB, Spears MC. Mastery Learning and Group Study in dietetics curriculum. *J Am Diet Assoc.* 1974 Aug;65(2):151-5.
- Molleson A. "Dietan:" A computer-assisted program on anatomy and nutrition. *J Am Diet Assoc.* 1976;68:46.
- Morris LM, Merrill RM. Use of the dietary analysis plus program in an introductory college nutrition class. *J Nutr Educ Behav.* 2004 Jul-Aug;36(4):213-4.
- Plaisted CS, Kohlmeier M, Cooksey K, Zeisel SH. The development of "Nutrition in Medicine" interactive CD-ROM programs for medical nutrition education. *J Cancer Educ.* 2000 Fall;15(3):140-3.
- Pearson JM. Teaching computer-aided nutrition assessment via self-instructional modules. *J Am Diet Assoc.* 1992 Feb;92(2):223-4.
- Painter, J. The Virtual Classroom: learning on the World Wide Web. *J Am Diet Assoc.* 1996;96:750.

Nutrition Informatics References

Compiled by Elaine Ayres, Lindsey Hoggle & Marty Yadrick
October 2010 Version 2

- Probst, Y, Tapsell, L. Overview of Computerized Dietary Assessment Programs for Research and Practice in Nutrition Education. *J Nutr Educ Behav* 2005;37:20-26.
- Puri R, Bell C, Evers W. Dietetics Students' Ability to Choose Appropriate Communication and Counseling Methods Is Improved by Teaching Behavior-Change Strategies in Computer-Assisted Instruction. *J Am Diet Assoc.* 2010;110: 892-897.
- Raidl, MA, Wood OB, Lehman JD, Evers WD. Computer-assisted instruction improves clinical reasoning skills of dietetics students. *J Am Diet Assoc.* 1995;95: 868-873.
- Ruiz B, Fitz PA, Lewis C, Reidy C. Computer-adaptive testing: A new breed of assessment. *J Am Diet Assoc.* 1995;95:1326-1327.
- Short SH. Media in teaching college level nutrition: Is it effective and efficient? *J Am Diet Assoc.* 1975;66: 581.
- Skipper, A. The history and development of advanced practice nursing: lessons for dietetics. *J Am Diet Assoc.* 2004;104:1007-1012.
- Spangler AA, Spear B, Plavcan PA. Dietetics education by distance: Current endeavors in CAADE-accredited/approved programs. *J Am Diet Assoc;* 1995: 95:925-929.
- The Joint Standards Task Force of the American Dietetic Association Renal Dietitians Dietetic Practice Group and the National Kidney Foundation Council on Renal Nutrition. Standards of Practice and Standards of Professional Performance for Registered Dietitians (Generalist, Specialty, and Advanced) in Nephrology Care. *J Am Diet Assoc.* 2009; 109:1617-1625.
- Turner, R, Evers, W, wood, O, Lehman, J, Peck, L. Computer-based simulations enhance clinical experience of dietetics interns. *J Am Diet Assoc.* 2000;100:183-190.
- Turner-McGrievy GM, Campbell MK. Nutrition information to the Desktop: A Pilot Online Nutrition Course on Saturated Fat for Public Librarians Increases Knowledge, Expectancies, and Self-efficacy. *J Nutr EducBehav;* 2009;41:188-193.
- Weerts S, Miller D, Altice A. "Clicker" Technology Promotes Interactivity in an Undergraduate Nutrition Course. *J Nutr Educ Behav.* 2009; 41:227-228.
- Williams KA, Keim KS, Johnson CA. Patterns of Continuing Professional Education in Registered Dietitians and Dietetic Technicians, Registered. *J Am Diet Assoc.* 2004;104:437-441.

II. PROFESSIONAL USE

CLINICAL PRACTICE

- Agarwal NR, Savino JA, Feldman M, Dawson J, Gupte P, Del Guercio LR. The automated metabolic profile. *Crit Care Med.* 1983 Jul;11(7):546-50.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

American Dietetic Association. Pediatric Nutrition Care Manual Web site
<https://nutritioncaremanual.org> accessed October 6, 2010.

Anderson K, Kennedy B, Acosta PB. Computer-implemented nutrition support of Phenylketonuria. *J Am Diet Assoc.* 1985 Dec;85(12):1623-5.

Argo JK, Watson DR, Lee EC. A computer-managed clinical evaluation system: implications for competency-based dietetic education programs. *J Am Diet Assoc.* 1984 Jan;84(1):36-8, 41.

Aronson, D. It's About Time – Adapt to New Nutrition Assessment Tools to Optimize Care *Today's Dietitian* 2009;11:10

Aronson D. High-Tech Counseling: An Untapped Market for Today's Dietitian? *Today's Dietitian.* 2009;9: 46-48.

Baghurst KI, Record SJ. A computerized dietary analysis system for use with diet diaries or food frequency questionnaires. *Community Health Stud.* 1984;8(1):11-8.

Baker JA, Kirkman H, Woodley C, Eckel FM. Computer assisted pediatric hyperalimentation. *Am J Hosp Pharm.* 1974 Aug;31(8):752-8

Ball PA. Use of computers in long-term/home parenteral nutrition--a missed opportunity? *Curr Opin Clin Nutr Metab Care.* 2000 May;3(3):231-5.

Ball PA, Candy DC, Puntis JW, McNeish AS. Portable bedside microcomputer system for management of parenteral nutrition in all age groups. *Arch Dis Child.* 1985 May;60(5):435-9.

Baumgartner TG. Marriage of clinical pharmacy and clinical nutrition via computer systems. *Nutrition.* 1994 Jul-Aug;10(4):305-12.

Berger M. Impact of a computerized information system on quality of nutritional support in the ICU. *Nutrition* 2006;22:221-9.

Berlin DP, Wilkens K, Cheney C. Computer integration and time spent on direct patient nutritional care activities in an outpatient dialysis setting. *J Ren Nutr.* 2000 Apr;10(2):76-9.

Brouwer D. Neonatal total parenteral nutrition: a program for computer generated profiles. *Hosp Pharm.* 1984 Apr;19(4):271-3.

Bunton PW. Using the computer as a referral source to find the patient at nutritional risk. *J Am Diet Assoc.* 1986;86:1232-1233.

Charney, P. Computer technology and the nutrition support professional: make it work for you! *Nutr Clin Pract.* 2007;22:421-427.

Nutrition Informatics References

Compiled by Elaine Ayres, Lindsey Hoggie & Marty Yadrick
October 2010 Version 2

- Chima C, Famer-Dziak N, Cardwell P, Snow S. Use of Technology to track program outcomes in a diabetes self-management program. *J Am Diet Assoc.* 2005;105:1933-1938.
- Clark M, Ghandour G, Miller NH, Taylor CB, Bandura A, DeBusk RF. Development and evaluation of a computer-based system for dietary management of hyperlipidemia. *J Am Diet Assoc.* 1997;97:146-150.
- Computer applications in clinical nutrition. Underbakke, G. Effective computer management in food and nutrition services / edited by Faisal A Kaud. Rockville, Md. : Aspen Publishers, 1989.. p. 78-103.
- Cook R, Billings D, Hersch R, Back A, Hendrickson A. A field test of a web-based workplace health promotion program to improve dietary practices, reduce stress, and increase physical activity: randomized controlled trial. *J Med Internet Res.* 2007;9:e17.
- Danford DE. Computer applications to medical nutrition problems. *J Parenter Enteral Nutr* 1981;5: 441-446.
- Dasher T. Hyperalimentation order calculations using a computer. *Hosp Pharm.* 1983 May;18(5):239-40, 243-4, 249.
- Davies JG, Leivers B. Role of the Microcomputer in formulating neonatal nutrition regimens. *Arch Dis Child.* 1984 Dec;59(12):1197-8.
- DeLucia JL, Kalodner CR, Horan JJ. The effect of two nutritional software programs used as adjuncts to the behavioral treatment of obesity. *J Subst Abuse.* 1988-1989;1(2):203-8.
- DeLeeuw ER. The effect of two nutritional software programs used as adjuncts to the behavioral treatment of obesity. *Diabetes Educ.* 1987 May;13 Suppl:240-4.
- Dennison D, Frauenheim KA, Izu L. The DINE microcomputer program: an innovative curricular approach. *Health Educ.* 1983 Mar-Apr;14(2):44-7.
- Derr JA, Mitchell DC, Brannon D, Smiciklas-Wright H, Dixon LB, Shannon BM. Time and cost analysis of a computer-assisted telephone interview system to collect dietary recalls. *Am J Epidemiol.* 1992 Dec 1;136(11):1386-92.
- DiDonato LJ. Use of the handheld programmable calculator in the preparation of TPN solutions. *Hosp Pharm.* 1983 Oct;18(10):526-8, 531-3.
- Dorea JG, Horner MR, Johnson NE. Dietary Analysis with a programmable calculator: a simplified method. *J Am Diet Assoc.* 1981 Feb;78(2):161-2.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Driscoll DF, Bacon M, Provost PS, Bistran BR. Automated compounders for parenteral nutrition admixtures. *JPEN J Parenter Enteral Nutr.* 1994 Jul-Aug;18(4):385-6.
- Edwards FH.. Computer assisted planning of parenteral hyperalimentation therapy. *Crit Care Med.* 1982 Aug;10(8):539-43.
- Enteral Nutrition Practice Recommendations Task Force. *J Parental and Enteral Nutr.* 2009;33:122-167.
- Fanelli MT, Samonds K, Earl R. Computerized Dietary Analysis by food groups and by nutrients from food groups. *J Am Diet Assoc.* 1986 Feb;86(2):212-7.
- Feldman MJ, Kizka DP. The use of a hand-held programmable calculator in performing neonatal parenteral solution calculations. *Drug Intell Clin Pharm.* 1981 Jan;15(1):54-5.
- Ford MG. Computers in diabetes nutrition education: a perspective: The computer as an aid in clinical management. *J Am Diet Assoc.* 1987 Apr;87(4):497-500.
- Gale R, Gale J, Branski D, Armon Y, Zelingher J, Roll D. An interactive microcomputer program for calculation of combined parenteral and enteral nutrition in neonates. *J Pediatr Gastroenterol Nutr.* 1983 Nov;2(4):653-8.
- Geller RJ, Blackburn SA, Glendon DH, Henneman WH, Steffee WP. Computer optimization of enteral hyperalimentation. *J Parenter Enteral Nutr.* 1979 Mar-Apr;3(2):79-83.
- Giacoa GP, Chopra R. The use of a computer in parenteral alimentation of low birth weight infants. *J Parenter Enteral Nutr.* 1981 Jul-Aug;5(4):328-31.
- Giacoa GP, Warden LK, Canfield BG. Computerized total parenteral nutrition formulas for newborn infants. *Am J Hosp Pharm.* 1980 Jan;37(1):22, 24.
- Graning HM. The dietitians role in "heads up" patient care. *J Am Diet Assoc.* 1970 Apr;56(4):299-302.
- Ginsberg BH. The role of technology in diabetes therapy. *Diabetes Care.* 1994 Jun;17 Suppl 1:50-5.
- Gower T. Computers in clinical practice: screening renal patients for abnormal biochemistry and malnutrition. *J Ren Nutr.* 2002 Apr;12(2):107-12.
- Goggin MJ. Programmable calculators and parenteral nutrition. *J Hum Nutr.* 1979 Jun;33(3):231.
- Harper RG, Carrera E, Weiss S, Luongo M. A complete computerized program for nutritional management in the neonatal intensive care nursery. *Am J Perinatol.* 1985 Apr;2(2):161-2.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Heetderks-Cox MJ, Alford BB, Bednar CM, Heiss CJ, Tauai LA, Edgren KK. CD-ROM nutrient analysis database assists self-monitoring behavior of active duty Air Force personnel receiving nutrition counseling for weight loss. *J Am Diet Assoc.* 2001 Sep;101(9):1041-6.
- Hermansen MC, Kahler R, Kahler B. Data entry errors in computerized nutritional calculations. *J Pediatr.* 1986 Jul;109(1):91-3.
- Holt S, Guram M, Smith M, Skinner HA. Computer assessment of life-style in a gastroenterology clinic. *Dig Dis Sci.* 1992 Jul;37(7):993-6.
- Holubar S, Harvey-Banchik L. A review of the use of handheld computers in medical nutrition. *Nutr Clin Pract.* 2007 Aug;22(4):428-35.
- Hoover LW, Meylor DJ. Clinical dietitians use computer-generated worksheet. *J Am Diet Assoc.* 1976;69: 404-405.
- Hyman D, Herd J, Ho K, Dunn J, Gregory K. Maintenance of cholesterol reduction using automated telephone calls. *Am J Prev Med.* 1996;12:129-133.
- Kaput J, Rodriguez R. Nutritional genomics: The next frontier in the postgenomic era. *Physiol Genomics.* 2004;16:166-177.
- Katch FI, Katch VL. Computer technology to evaluate body composition, nutrition, and exercise. *Prev Med.* 1983 Sep;12(5):619-31.
- Kohlmeier L, Mendez M, McDuffie J, Miller M. Computer-assisted self-interviewing; a multimedia approach to dietary assessment. *Am J Clin Nutr.* 1997; 65(suppl):1275S-1281S.
- Kolasa KM, Miller M. Using computers in nutrition education. *Agriculture and Consumer Protection.* <http://www.fao.org/docrep/w0795t/w0795t03.htm> accessed October 10, 2010.
- Krasner JB. A technique for optimization of enteral feeding regimens: implementation on a microcomputer. *J Parenter Enteral Nutr.* 1986 Mar-Apr;10(2):208-12.
- Krasner JB, Marino PL. An analytical approach to creation of parenteral feeding solutions: implementation on a computer. *J Parenter Enteral Nutr.* 1985 Mar-Apr;9(2):226-9.
- Krenning LE. Pocket computer program for performing nutritional assessment on hospitalized patients. *Comput Biol Med* 1983;13:303-308.
- Kyle UG, Genton L, Pichard C. Hospital length of stay and nutritional status. *Curr Opin Clin Nutr Metab Care* 2005;8:397-402.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Lee J. Alternate approaches for quantifying aggregate and individual agreements between two methods for assessing dietary intakes. *Am J Clin Nutr.* 1980 May;33(5):956-8.
- Lehmann CU, Conner KG, Cox JM. Preventing provider errors: Online total parenteral nutrition calculator. *Pediatrics* 2004;113:748–53.
- Lie IE, Haugstad S, Holm H. Tailoring of the diet for the individual in maple syrup urine disease: long-term home dietary treatment of an adult patient with MSUD by monitoring of daily intake with a personal computer. A case report. *Hum Nutr Appl Nutr.* 1985 Apr;39(2):130-6.
- Llido L. The impact of computerization of the nutrition support process on the nutrition support program in a tertiary Care Hospital in the Philippines: Report for the years 2000–2003. *Clin Nutr* 2006;25:91–101.
- Lozy M. Computer simulation of the effects of errors in birth registration on age-dependent anthropometric methods. *Am J Clin Nutr.* 1976 May;29(5):585-90.
- MacMahon P. Prescribing and formulating neonatal intravenous feeding solutions by microcomputer. *Arch Dis Child.* 1984 Jun;59(6):548-52.
- May F, Robbins G. A computer program for parenteral nutrition solution preparation. *J Parenter Enteral Nutr.* 1978 Nov;2(5):646-51.
- McLellan N. Microcomputer organization of parenteral nutrition in the neonate. *J Clin Hosp Pharm.* 1983 Jun;8(2):147-51.
- Micco N, Gold B, Buzzell P, Leonard H, Pintauro S, Harvey-Berino J. Minimal in-person support as an adjunct to internet obesity treatment. *Ann Behav Med* 2007; 33:49-56.
- Millen BE. Dietary Behavior Assessment: Historical and Recent Innovations. *J Am Diet Assoc.* 2010;110: 1166-1169.
- Minekus M, Smeets-Peeters M, Bernalier A, Marol-Bonnin S, Havenaar R, Marteau P, Alric M, Fonty G, Huis in't Veld JH. A computer-controlled system to simulate conditions of the large intestine with peristaltic mixing, water absorption and absorption of fermentation products. *Appl Microbiol Biotechnol.* 1999 Dec;53(1):108-14.
- Mirtallo, J, Hawksworth, K, Payne, B. A Nutrition support Service Web Application to Manage Patients Receiving Parenteral Nutrition. *Nutr Clin Pract.* 2009;24:447-458.
- Neu J, Crim W, Kien CL, Kelly K. Calculated assisted monitoring of fluids, nutrients and electrolytes. *Crit Care Med.* 1982 Jul;10(7):461-2.
- Norman K, Pichard C, Lochs H, Pirlich M. Prognostic impact of disease-related malnutrition. *Clin Nutr* 2008;27:5–15.

Nutrition Informatics References

Compiled by Elaine Ayres, Lindsey Hoggle & Marty Yadrick
October 2010 Version 2

Nutrition Information Software available online

http://www.filetransit.com/files.php?name=Restaurant_Nutrition_Information

Orta J. Training food service supervisors using hand-held computers to conduct nutritional screening of institutionalized elderly patients. *J Nutr Elder*. 1995;14(2-3):69-84.

Orta J, Reinarts C. Comparison of handheld computers for nutrition assessment and support. *J Am Diet Assoc*. 1994;94: 1409-1414.

Paschidi M, Skouroliahou M, Archontovasilis F, Papassarantopoulos P, Markantonis SL. Development of a program tool for computation of parenteral nutrition in adults, and its potential role in improving nutritional care. *Pharm World Sci* 2006; 28:265-73.

Pronsky, Z, Crowe, J, Young, V, Elbe, E, Epstein, S, Roberts, W. *Food-Medication Interactions*, 15th Ed. Published by Food Medication Interactions; 2008

Puangco M, Nguyen H, Sheridan M. Computerized PN ordering optimizes timely nutrition therapy in a neonatal intensive care unit. *J Am Diet Assoc*. 1997;97: 258-261.

Raats M, Sparks P, Geekie M, Shepherd R. The effects of providing personalized dietary feedback: a semi-computerized approach. *Patient Educ Couns* 1999;37:177-189.

Raetz KG, Walker PC. Computer assisted TPN Calculations: time savings and improved accuracy associated with a minicomputer. *Hosp Pharm*. 1988 Sep;23(9):800-4.

Rich DS, Karnack CM, Jeffrey LP. An evolution of a microcomputer in reducing the preparation time of parenteral nutrition solutions. *J Parenter Enteral Nutr*. 1982 Jan-Feb;6(1):71-5.

Rich AJ. A programmable calculator system for the estimation of nutritional intake of hospital patients. *Am J Clin Nutr*. 1981 Oct;34(10):2276-9.

Schiller MR. Current Hospital practices in clinical dietetics. *J Am Diet Assoc*. 1984 Oct;84(10):1194-7

Schloerb PR. Electronic parenteral and enteral nutrition. *J Parenter Enteral Nutr* 2000;24:23-9.

Skouroliahou M, Kakavelaki C, Diamantopoulos K, Stathopoulou M, Vourvouhaki E, Souliotis K. The Development and Implementation of a Software Tool and its Effect on the Quality of Provided Nutritional Therapy in Hospitalized Patients. *J Am Med Inform Assoc*. 2009;16:802-805.

Skouroliahou M, Konstantinou D, Papassarantopoulos P, Matthaïou C. Computer assisted total PN for pre-term and sick term neonates. *Pharm World Sci* 2005;27:305-10.

Sharp DS, German JC. Computer utilization for intravenous nutrition in surgical neonates: preliminary report. *J Pediatr Surg*. 1977 Apr;12(2):189-93.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Skaredoff MN, Westerman C, Hoffman D, Hayes EM, Tomkiel S, Perkes D. Hyperalimentation Worksheet. *Crit Care Med.* 1986 Jan;14(1):65-6.
- Smith AE, Lloyd-Still JD. Value of computerized dietary analysis in pediatric nutrition: an analysis of 147 patients. *J Pediatr.* 1983 Nov;103(5):820-4.
- Sykstus PC. Computerized nutrition screening and clinical nutrition management increases clinical productivity. *J Am Diet Assoc.* 1996;89:A13.
- Thomas LW. Computerized order calculation and label generation for neonatal parenteral nutrient solutions. *Am J Hosp Pharm.* 1987 Feb;44(2):361-2.
- Thompson DA. Monitoring total parenteral nutrition with the pocket calculator. *Comput Nurs.* 1984 Sep-Oct;2(5):183-8.
- Thompson EM, Tucker H. Computers in Dietary Studies. *J Am Diet Assoc.* 1962 Apr;40:308-12.
- Thorp JW, Robbins S. Diet analysis for intensive care nursery patients with a programmable calculator. *J Pediatr Gastroenterol Nutr.* 1983 May;2(2):268-70.
- Turnin MC, Tauber MT, Couvaras O, Jouret B, Bolzonella C, Bourgeois O, Buisson JC, Fabre D, Cance-Rouzaud A, Tauber JP, Hanaire-BROUTIN H. Evaluation of microcomputer nutritional teaching games in 1,876 children at school. *Diabetes Metab.* 2001 Sep;27(4 Pt 1):459-64.
- Vanderveen TW, Groves WE. Computerized system for a nutritional support service. *Methods and Programs in Biomedicine* 1986;22: 189-197.
- Van Horn L, March Marks Finale in DeBusk Nutrigenomics Series. *J Am Diet Assoc.* 2009; 109: 381. (Complete listing of 11 different publications on Nutrigenomics.)
- Wahl E, Scanlon MA. Using your personal computer to calculate renal diets. *J Am Diet Assoc.* 1995;95:487-488.
- Wearner R. Web-based Nutrition Education for Low-income Hispanics. *J Nutr Educ Behav* 2010;42: S98.
- Williamson D, Martin P, White M, Newton R, Walden H, York-Crowe E, et al. Efficacy of an internet-based behavioral weight loss program for overweight adolescent African-American girls. *Eat Weight Disord* 2005;10:193-203.
- Wylie-Rosett J, Swencionis C, Ginsberg M, Cimino C, Wassertheil-Smoller S, Caban A, Segal-Isaacson CJ, Martin T, Lewis J. Computerized weight loss intervention optimizes staff time: the clinical and cost results of a controlled clinical trial conducted in a managed care setting. *J Am Diet Assoc.* 2001 Oct;101(10):1155-62.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

Weathers BJ, Hoover LW, Warriner WJ, Dillon JD. Computerized clinical dietetics management system. *J Am Diet Assoc.* 1986;86: 1217-1223.

Williams CS, Burnet LW. Future applications of the microcomputer in dietetics. *Hum Nutr Appl Nutr.* 1984 Apr;38(2):99-109.

Wright PD, Shearing G, Rich AJ, Johnston ID. The role of a computer in the management of clinical parenteral nutrition. *J Parenter Enteral Nutr.* 1978 Nov;2(5):652-7.

Yamamoto LG, Gainsley GJ, Witek JE. Pediatric parenteral nutrition management using a comprehensive user-friendly computer program designed for personal computers. *J Parenter Enteral Nutr.* 1986 Sep-Oct;10(5):535-9.

Yamamoto LG. Daily calorie and fluid calculations in the intensive care nursery using a pocket computer. *Clin Pediatr (Phila).* 1985 Oct;24(10):562-4.

STANDARDS, STANDARDIZED LANGUAGE AND NUTRITION CARE PROCESS

Crane N, Nalubola R, Schneeman B. The Role and Relevance of Codex Nutrition Standards. *J Am. Diet Assoc.* 2010; 110: 672-682.

FAO:Infood – Standards for Food Nomenclature, Food Component Identifiers, International Interchange of Food Composition Data and Data Quality. 2010
http://www.fao.org/infoods/projects_en.stm Accessed February 7, 2010.

Hakel-Smith N, Lewis N. A Standardized Nutrition Care Process and Language Are Essential Components of a Conceptual Model to Guide and Document Nutrition Care and Patient Outcomes. *J Am. Diet Assoc.* 2004; 104: 1878-1884.

Health Level Seven, Version 2.6 Chapter 4: Order Entry, Section 4.7 Diet Trigger Events & Message Definitions. Pages 4/73-4/79. 2007

Heubusch, K. IT Standards for PHRs: Are PHRs Ready for Standards? Are Standards Ready for PHRs? *Journal of AHIMA.* 2008;79: 31-26.

International Dietetics and Nutrition Terminology (IDNT) Reference Manual. 2nd Ed. Chicago, IL: American Dietetic Association, 2009.

J White, GL Blackburn, A Kahn, E Myers, M Ohlson, S Sharkey. Electronic Medical Records & Personal Health Records: A Call for the Creation and Inclusion of a Nutrition Data Set, American Dietetic Association & Abbott Laboratories 2009

Kight, M, Gammon, M. Start-up Characterizations/diagnostic Criteria for Using Dietetic-specific Nutritional Diagnostic Codes (D-S NDC's) in Adult Care Situations. *Diagn Nutr Network* 1994;3;2-6

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Kight, M. A Dietetic-Specific Diagnostic Reasoning Approach to Communicating in Code. *Diagn Nutr Network* 1993;2;2-5
- Kight, M. Notice of Change of Nutritional Diagnostic Classification System Title. *Diagn Nutr Network* 2003;12:7.
- Kren, K. Referral Systems in Ambulatory Care—Providing Access to the Nutrition Care Process. *J Am Diet Assoc.* 2008;108:1375-1379.
- Lacey K, Pritchett E. Nutrition care process and model: ADA adopts road map to quality care and outcomes management. *J. Am Diet Assoc.* 2003; 103:1061-1072.
- Matthieu J, Foust M, Ouellette P. Implementing Nutrition Diagnosis, Step Two in the Nutrition Care Process and Model: Challenges and Lessons Learned in Two Health Care Facilities. *J. Am Diet Assoc.* 2005; 105:1636-1640.
- Nutrition Care Process Part II: Using the International Dietetics and Nutrition Terminology to Document the Nutrition Care Process. *J Am Diet Assoc.* 2008;108: 1287-1293.
- Ritter-Gooder P, Lewis N. Validation of Nutrition Standardized Language—Next Steps. *J Am Diet Assoc.* 2010;110: 832-835.
- Skipper, A, Jones, S. ADA Webinar – Applying the Nutrition Care Process: A Hands-on Approach. Part I – January 2008, Part II, February 2008. Available through www.eatright.org
- Skipper, A. Applying the Nutrition Care Process: Nutrition Diagnosis and Intervention. *Support Line.* December 2007, Vol. 29, No. 6.
- Slimani, N, Deharveng, G, Charrondiere, Kappel, A, Ocke, Mr, Welch, A, Lagiou, A, Liere, M, Agudao, A, Pala, V, Brandstetter, B, Andren, C, Stripp, C, Staveren, W, Riboli, E. Structure of the standardized computerized 24-h diet recall interview used as reference method in the 22 centers participating in the EPIC project. *Comp Meth Prog Biomed.* 1999;58:251-266.
- Writing Group of the Nutrition Care Process/Standardized Language Committee. Nutrition Care Process and Model Part I: The 2008 Update. *J Am. Diet Assoc.* 2008;108:1113-1117.
- Writing Group of the Nutrition Care Process/Standardized Language Committee. Nutrition Care Process Part II: Using the International Dietetics and Nutrition Terminology to Document the Nutrition Care Process. *J Am. Diet Assoc.* 2008;108: 1287-1293.

EVIDENCE BASED PRACTICE AND OUTCOMES

Agency for Healthcare Research and Quality, US Preventive Services Task Force. *Counseling to Promote a Healthy Diet.* Available at: <http://www.ahrq.gov/clinic/uspstf/uspsttopics.htm>. Accessed May 5, 2005.

Nutrition Informatics References

Compiled by Elaine Ayres, Lindsey Hoggle & Marty Yadrick
October 2010 Version 2

Agency for Healthcare Research and Quality. EPC Evidence Reports. Topic Areas: Dietary Supplements and Metabolic, Nutritional, and Endocrine Conditions. Available at: <http://www.ahrq.gov/clinic/epcquick.htm>. Accessed May 5, 2005

Agency for Healthcare Research and Quality. Technology Assessments. *Obesity in the Elderly*. Available at: <http://www.ahrq.gov/clinic/techix.htm>. CDC, *Overweight and Obesity*. Available at www.cdc.gov/nccdphp/dnpa/obesity/index.htm. Accessed October 2008.

Franz, M, Boucher, J, Green-Pastors, J, Powers, M. Evidence-Based Nutrition Practice Guidelines for Diabetes and Scope and Standards of Practice *J Am Diet Assoc*. 2008;104:S7-S11.

Johnson, B, Chambers, J. Expert Panel Identifies Activities and Performance Measures for Foodservice Benchmarking. *J Am Diet Assoc*. 2000;100:692-695.

McCaffree J. Techno-tools for tracking outcomes. *J Am Diet Assoc*. 2001;101:1310-1311.

Medical Nutrition Therapy effectiveness for specific disease conditions. American Dietetic Association Evidence Analysis Library Web Site: www.evidenceanalysislibrary.com/topic.cfm.?cat=3586. Accessed January 4, 2010.

Urbanski, P, Wolf, A, Herman, W. Cost-Effectiveness of Diabetes Education *J Am Diet Assoc*. 2008;104:S52-S58.

Voorham, J, Deng, P. Computerized Extraction of Information on the Quality of Diabetes Care from Free text in Electronic Patient Records of General Practitioners. *J Am Med Informatics Assoc*. 2007;14:349-354.

FOOD SERVICE SYSTEMS

Andrews J, Dougherty D. Computer plans fat-modified menus for winter, east. *Hospitals* 1972;46: 99.

Ball MJ, Jacobs SE. Computerized hospital information systems and the department of dietetics. *J Am Diet Assoc*. 1976;68:42-44.

Balintfy JL, Nebel EC 3rd. Experiments with computer-assisted menu planning. *Hospitals*. 1966 Jun 16;40(12):88-96.

Barak Sheree, Laird Donald T., Brennan Pat, Orr B., Chambers, Jim. Foodservice & Computer Technology White Paper. 1998 Vision Software Technologies, Inc. 1-17.

Casbergue JP. Medical Dietetics Students Plan Menus with Computer Assistance. *Hospitals*. 1966 Jun 16;40(12):96-7.

Chrysomilides S, Harmer E, Bernstein M. Computerized Wizardry in Food Services. *Dimens Health Serv*. 1983 Oct;60(10):10-1.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Dannelke L. Five Challenges Facing Hospital Foodservice. *Today's Dietitian* 2010: August; 14-15.
- Gelphi JG. Computer plans fat-modified menus for winter, north-northwest. *Hospitals* 1972;46: 80.
- Hartman J. Computers can cut menu-planning costs. *Mod Hosp.* 1964 Feb;102:134.
- Kaud FA. 1989. Effective Computer Management in Food and Nutrition Services. Rockville, MD: Aspen Publishers, Inc.
- Miller JL. Survey of computer technology in foodservice management education. *J Am Diet Assoc.* 1989 Sep;89(9):1279-81.
- Pellegreno TW. 1988. Selecting a Computer Assisted System for Volume Food Service, Chicago, Ill. American Hospital Publishing Inc.
- Position of the American Dietetic Association: Management of health care food and nutrition services. *J Am Diet Assoc.* 1997;97: 1427-1430.
- Ralston CE, Matthews ME, Schaefer D. 1988. Comparison of two software programs for school foodservice management for MS/DOS compatible computers. *School Food Serv Res Rev* 12:69.
- Rothbard, KB, Parris ES. A selection procedure for purchasing foodservice computer software. *Annual J. Dietet Software:* 11.
- Sifferman CK, Hoover LW. In-basket exercise to teach computer-assisted food systems management. *J Am Diet Assoc.* 1981 Feb;78(2):165-8.
- Tuthill BH. Dietitians use computer assistance to contain costs. *J Am Diet Assoc.* 1980 May;76(5):479-82.

ELECTRONIC HEALTH RECORDS

- Biesemeier, C, Chima, C. Computerized patient record: are we prepared for our future practice? *J Am Diet Assoc.* 1997;97:1099-104.
- Dean J. Use of computerized medical records by dietary staff and students. *J Am Diet Assoc.* 1977;71:533.
- Haws, R., Olsen, M, Randall, M. Applications of the ADA's Nutrition Care Process and Model in an Electronic Health Record. *Future Dimensions in Clinical Management* Fall 2007, Vol XXVI, No. 4.
- Hoggle, L, Michael, M, Houston, S, Ayres, E. Electronic Health Record: Where Does Nutrition Fit In? *J Am Diet Assoc.* 2006;106:1688-1695.

Nutrition Informatics References

Compiled by Elaine Ayres, Lindsey Hoggle & Marty Yadrick
October 2010 Version 2

Peregrin, T. Personal and electronic health records: sharing nutrition information across the health care community. *J Am Diet Assoc.* 2009;109:1988.

Jones, S. Electronic Health Record: Considerations for Clinical Nutrition Managers.

American Dietetic Association Website: EHR toolkit

<http://www.eatright.org/Shop/Product.aspx?id=11305> accessed October 10, 2010.

CLINICAL DECISION SUPPORT AND COMPUTER PROVIDER ORDER ENTRY(CPOE)

Gregoire MB, Nettles MF. Is it time for computer-assisted decision making to improve the quality of nutrition services? *J Am Diet Assoc.* 1371-1374.

Hicks ZR, Matthews ME, Norback JP. A computer-based decision support system aids distribution in planning and control of foodservices. *J Am Diet Assoc.* Sept 1986;86: 1182-1188.

Lyman J, Cohn W, Bloomrosen M, Detmer D. Clinical Decision Support: Progress and opportunities. *J Am Med Inform Assoc.* 2010;17:487-492.

Mekhjian HS, Kumar RR, Kuehn L, Bentley TD, Teater P, Thomas A, Payne B, Ahmad A. Immediate Benefits Realized Following Implementation of Physician Order Entry at an Academic Medical Center. *J Am Med Inform Assoc* 2002;9: 529-539.

Osheroff JA, Teich JM, Middleton B, Steen EB, Wright A, Detmer DE . A roadmap for national action on clinical decision support. *J Am Med Inform Assoc.* 2007; 14: 141-5.

Payne TH, Hoey PJ, Nichol P, Lovis C. Preparation and Use of Preconstructed Orders, Order Sets, and Order Menus in a Computerized Provider Order Entry System. *J Am Med Inform Assoc.* 2003;10: 322-329.

Schnipper J, Linder J, Palchuk M, Einbider J, Li Q, Postilnik A, Middleton B. "Smart Forms" in an Electronic Medical Record: Documentation-based Clinical Decision Support to Improve Disease Management. *J AM Med Inform Assoc.* 2008; 15:513-523.

FOOD AND NUTRITION MANAGEMENT SYSTEMS

Anonymous. An introduction to the systems approach in the dietary department. *Hospitals.* 1969;43: 100.

Aldrich DS, Helbig LC. A sequential procedure for implementing a computer-based information system. *J Am Diet Assoc.* 1986;86:1228-1231.

Anderson AL, Moore AN, Hoover LW. Development of an automated form generating system for menu item data. *J Am Diet Assoc.* 1977;71:124.

Andrews J, Dougherty D. Computer plans fat-modified menus for winter, midwest. *Hospitals* 1972;46: 95.

Nutrition Informatics References

Compiled by Elaine Ayres, Lindsey Hoggle & Marty Yadrick
October 2010 Version 2

- Andrews JT. Inventory control in the dietary department. *Hospitals*.1969;43:96.
- Andrews JT. Estimating Food Costs by Computer *Hospitals* Oct 16 1969;43: 107
- Andrews, JT, Moore An, Tuthill BH. Electronic data process in intradepartmental food cost accounting. *J Am Diet Assoc.* 1967;51: 333.
- Andrews, JT, Tuthill BH. Computer-based management of dietary departments. *Hospitals* 1968;42: 117.
- Anonymous. Dietitians work with 'Mr. C' (C is for computer) in planning menus. *Hospitals* 1966;40: 132-134.
- Balintfy JL, Nebel EC. Experiments with computer-assisted menu planning. *Hospitals.* 1966; 40:88.
- Balintfy J. Computerizing your menu selection. *Food Management* 1975;10:15.
- Bassham S, Fletcher LR. Computer Appreciation Training for Dietitians. *Hum Nutr Appl Nutr.* 1985 Dec;39(6):400-6.
- Bennett AC. Systems approach is needed for data processing function. *Hospitals.* 1979;53:47.
Ford MG, Wesley NW. Dietitians improve patient care with computerized selective menu. *Hospitals* 1979;53:76.
- Bergaila JS, Pope JE. Computerized menu printing system reduces clerical tasks. *Hospitals* 1977;51:185.
- Blaker GG. Annual administrative reviews: Food Service *Hospitals* 1973; 47: 127.
- Bor-nian JL, Brennan EM. Computer-assisted menu planning provides control of food service. *Hospitals.* 1969; 43:107 113.
- Bowman JL, Brennan EM Computer-assisted menu planning provides control of food service. *Hospitals.* 1966;43:107
- Bowman JL, Lawrence D. New computerized menu planning service cuts food costs at Kansas City center. *Modern Hosp.* 1968; 111: 126.
- Breslin J. Mandate to control food service costs evokes specific responses. *Hospitals* April 16, 1976;50: 105.
- Brisbane HM. Building a computer-assisted nutrient file. *Hospitals* Nov 1969;43:92.
- Brisbane HM. Computing menu nutrients by data processing *J Am Diet Assoc.* 1964;44:453.

Nutrition Informatics References

Compiled by Elaine Ayres, Lindsey Hoggle & Marty Yadrick
October 2010 Version 2

- Brown RM. Estimating dietary labor by use of work modules. *Hospitals* Oct 16 1969;43: 103.
- Brown RM. Computer Assisted Cost Accounting in the Dietary Department *Hospitals* Oct 1 1969;43: 99.
- Brown DM, Hoover LW. Total factor productivity modeling in hospital foodservice operations. *J Am Diet Assoc.* 1991; 91:1088-1092.
- Brown DM, Hoover LW. Productivity measurement, in foodservice: past accomplishment-a future alternative. *J Am Diet Assoc.* 1990:190:973-981.
- Casbergue JP. Medical dietetic students plan menus with computer assistance. *Hospitals* 1966;40: 96.
- Cullen KO, Hoover LW, Moore AN. Menu item forecasting systems in hospital foodservice: A cost comparison of two- and three-echelon systems. *J Am Diet Assoc.* 1978; 73: 640.
- DeMarco MR. Planning a computer program for a food service department. *Hospitals* May 16, 1968;42:102.
- DeMarco MR, Mann SL, Mason HA. Computer recipes in quantity food production. *Hospitals* 1967;41:88.
- Duffy KM, Fromm BA, Sorensen DA. A computer-assisted management information system for nutrition services. *J Am Diet Assoc* 1989;89: 1296-300.
- Dunphy MK, Bratton BD. A computerized dietary order entry system. *J Am Diet Assoc.* 1983;82:68-71.
- Eckstein EF, Wakefield LM. Using the computer for menu planning. *Hospitals* 1972;46:92.
- Eckstein EF. Menu planning by computer: The random approach. *J Am Diet Assoc.* 1967;51: 529-533.
- Editor. Computer provides instant updating of perpetual inventory at Missouri medical center. *Hospitals* 1966;40:158-160.
- Findorff IK, Gelpi MJ. Computer plans fat-modified menus for winter, south-southwest. *Hospitals* 1972;46:137.
- Flook MG, Alford BB. Cost comparison of systems for nutrient analysis-computer vs. manual calculation. *J. Am Dietetic Assoc.* 1974;64: 62-64.
- Fowler KD. Evaluating foodservice software: a suggested approach. *J Am Diet Assoc.* 1986;86: 1224-1227.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Frank GC, Pelican S. Guidelines for selecting a dietary analysis system. *J Am Diet Assoc.* 1986;86:72-75.
- Fromm B, Moore AN, Hoover LW. Computer-generated fiscal reports for food cost accounting. *J Am Diet Assoc.* 1980;77: 170-178.
- Geeley HM, Stinson JP. Computer simulation for production scheduling in a ready food system. *J Am Diet Assoc.* 1980;76:482.
- Gelpi MJG, FindorffIK. Computer plans modified diets. *Hospitals.* 1977; 47:62-67.
- Gelpi MJ, Balintfy JL, Dennis LC, Findorff IK. Integrated Nutrition and Food Cost Control by Computer. *J Am Diet Assoc.* 1972;61: 637.
- Gue RL. Mathematical basis for computer-planned nonselective menus. *Hospitals.* 1969; 43:102-104.
- Hart PE. Computerized systems cut dietary department costs. *Hospitals* 1978;52: 123.
- Hertzler AA, Hoover LW. Development of food tables and use with computers. *J Am Diet Assoc.* 1977;70:20.
- Irwin ER, Keller FN. A Meal Pattern System Coordinated for different institutions. *Hospitals* Nov 1 1969;43: 104.
- Jackson R. Information technology: High-tech solutions improve care, reduce cost. *Health Care Food Nutr Focus* 2003;20:1-8.
- Jamison J, Bednar C, Alford B, Hsueh A. A computerized interactive menu selector system for hospitals. *J Am Diet Assoc.* 1996;96:1046-1047.
- Johanson CR, Walch DT, Eastman J. Menu Forms Cheaper by Computer. *Hospitals* Feb 16 1973;47: 74.
- Johnson RA, Moore AN. Inventory and Cost Control by Computer. *J Am Diet Assoc.* 1966;49:413.
- Keller, M. That's Progress – Advancements in Hospital Foodservice. *Today's Dietitian* 2009;11:28
Grossbauer S. Foodservice & Computer Technology accessed August 9, 2005 from <http://www.foodservice.com/technology/fst.cfm>.
- Kim SA, Matthews ME. Needs for Computer Systems and Software Available for School Food Services. *School Food Service Research Review* 14.1 1990: 38-41.
- Knickrehm ME. Digital computers simulation in determining dining room seating capacity. *J Am Diet Assoc.* 1966;48:199-203.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Knickrehm ME. Digital computers simulations of a cafeteria service line. *J Am Diet Assoc.* 1963;43: 203-208.
- Lambert CU, Beach BL. Computerized scheduling for cook/freeze food production plans. *J Am Diet Assoc.* 1980;77:174-178.
- Manchester KE, Sager JF. The proposed Army hospital food service data processing system. *J Am Diet Assoc.* 1970;56:114.
- Matthews ME, Norback JP. A new approach to the design of information systems for foodservice management in health care facilities. *J Am Diet Assoc.* 1984;84:675-681.
- McCool AC, Garand MM. Computer technology in institutional foodservice. *J Am Diet Assoc.* 1986;86:48-56.
- McLaren, A. High Tech in Indianapolis. *Food Manag.* 1982;17:46-49,76, 88.
- McLaren A. The computer in nutrition. *Food Manage.* 1986 Feb;21(2):28.
- McLaren, A. Systematic management of food service; case study: A computerized information system. *Hospitals* 1972;46:103.
- McNabb ME. Ninety-day nonselective menus by computer. *Hospitals* 1971;45:88.
- Messersmith AM, Moore AN, Hoover LW. A Multi-echelon Menu Item Forecasting System for Hospitals. *J Am Diet Assoc.* 1978;72:509.
- Moe GR, Hoover LW, Moore AN. A computer-assisted personnel data system for a hospital department of dietetics: Labor accounting reports. *J Am Diet Assoc.* 1979;74: 454-458.
- Noah SA, Abdullah SN, Shahar S, et al. DietPal: A web-based dietary menu-generating and management system. *J Med Internet Res.* 2004; 6:e4.
- NuConnexions: Software and Services for Nutrition Professions www.nuconnexions.com Accessed February 7, 2010
- Nutrition Software: 101 Questions to Ask Before you Buy *Today's Dietitian* <http://www.nutribase.com/101.shtml>, accessed October 4, 2010.
- Orser J, Mutschler M. A computer-tallied menu system. *J Am Diet Assoc.* 1975;67: 570.
- Oyarzun VE, Lafferty L, Gregoire MB, Sowa D, Dowling R, Shott S. Evaluation of Efficiency and Effectiveness Measurements of a Foodservice System that Included a Spoken Menu. *J Am Diet Assoc* 2000; 100:4600-463.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Petot GJ, Marling C, Sterling L. An artificial intelligence system for computer-assisted menu planning. *J Am Diet Assoc.* 1998;98: 1009-1014.
- Raskin R. Straight from the computer's mouth: 33,000 low-cost, balanced meals. *Modern Hosp.* 1970;115:102.
- Sager JF. Recipe and ingredient control by computer. *Hospitals* 1969;43:87.
- Sager JF, Ostenso GL. Computerized recipe adjustment and food ordering. *J Am Diet Assoc.* 1968;52: 498.
- Saucier SJ. Group purchasing of food items maintains quality, cuts costs. *Hospitals* 1978;52: 95-96,98.
- Schaum KD, Mason M, Sharp JL Patient-oriented dietetic information system: Compiling a computerized nutrient data bank. *J Am Diet Assoc.* 1973;63:39-45.
- Schaum KD, Sharp JL. Patient-oriented dietetic information system: A computerized menu print and diet order system. *J Am Diet Assoc.* 1973;63:35-39.
- Shick GL, Hoover LW, Moore AN. A computer-assisted personnel data system for a hospital department of dietetics: Development of the database. *J Am Diet Assoc.* 1979;74: 448-453.
- Tienor CA, David BD A dietary department applies procedure for developing a demand forecasting system. *J Am Diet Assoc.* 1976;68:460.
- Tuthill BH. Dietitians use Computer Assistance to contain costs. *J Am Diet Assoc.* March 1980;80: 479-487.
- Tullis IF, Lawson V, Williams R. The digital computer in calculating dietary data. *J Am Diet Assoc.* 1965;65: 384-386.
- USDA Nutrient Standard Menu Planning for School Food Service: Approved Software Programs
http://healthymeals.nal.usda.gov/nal_display/index.php?info_center=14&tax_level=1&tax_subject=234 Accessed February 7, 2010
- Waller A. Introduction. *Computers Food and Nutrition. Report of the Tenth Ross Roundtable on Medical Issues.* Columbus, Ohio: Ross Laboratories; 1990.
- Waller A. The Use of computer technology in nutrition and food services. *Hosp Mater Manage Q.* 1986 Feb;7(3):50-60.
- Weathers BJ, Hoover LW, Warriner WJ, Dillon JD. Computerized clinical dietetics management system. *J Am Diet Assoc.* 1986;86: 1217-1223.

Nutrition Informatics References

Compiled by Elaine Ayres, Lindsey Hoggle & Marty Yadrick
October 2010 Version 2

Wilcox MM, Moore AN, Hoover LW. Automated purchasing: Forecasts to determine stock levels and print orders. *J Am Diet Assoc.* 1978;73:400.

NUTRIENT ANALYSIS/FOOD COMPOSITION/NUTRIENT DATABASES

Adelman MO, Dwyer JT, Woods M, Bohn E, Otradovec CL. Computerized dietary analysis systems: A comparative view. *J Am Diet Assoc.* 1983;83: 421-429.

Aguilera J, Lillford, P. (Eds). *Food Materials Science: Principles and Practice.* Springer; 2007

Aronson D. Before You Buy, Get the Lowdown on Nutrition Software. *ADA Times.* 2008:1, 22.

Anonymous. Dental application of computer-facilitated dietary evaluations. *Nutr Rev.* 1978 Nov;36(11):332-3.

Braithwaite E, Burlingame B, Chenard C, Selley B, Stumbo P. International Nutrient Databank Directory. 2006. Available at: <http://www.nutrientdataconf.org/> accessed October 13, 2010.

Byrd-Bredbenner C. How Should Nutrient Databases be evaluated? *J Am Diet Assoc.* 1996;96: 120.

Blanton CA, Moshfegh AJ, Baer DJ, Kretsch MJ. The USDA Automated Multiple-Pass Method accurately estimates group total energy and nutrient intake. *J Nutr.* 2006 Oct;136(10):2594-9.

Bowman S, Friday J, Moshfegh A. MyPyramid Equivalents Database, 2.- for USDA Survey Foods, 2003-2004 [Online] Food Surveys Research Group. Beltsville MD: Beltsville Human Nutrition Research Center, Agricultural Research Service, US Department of Agriculture. <http://www.ars.usda.gov/ba/bhnrc/farg>. Accessed November 10, 2009.

Carol R. Computer programming for calculating nutrients. *Am J Clin Nutr.* 1972;25: 969.

Case History of hospital information system. *J Am Diet Assoc.* 1979;68: 45-46.

Champagne CM. Food composition databases: Important tools for improving national health. *J Food Comp Anal.* 2003;16: 251-253.

Day KC. Recipe, a computer program for calculating the nutrient content of foods. *J. Hum. Nutr.* 1980;34:181.

Dixon LB, Zimmerman TP, Kahle LL, Subar AF. Adding carotenoids to the NCI Diet History Questionnaire Database. *J Food Comp Anal.* 2003; 16:269-280.

Doyle-Lucas, A, Davy, B. A Guide to indirect calorimetry. *Today's Dietitian* 2009;11:50

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Dowell SA, Welch JL. Use of electronic self-monitoring for food and fluid intake: A pilot study. *Nephrol Nurs J.* 2006 May-Jun;33(3):271-7.
- Dwyer J, Picciano M, Betz J, Fisher K, Saldanha L, Yetley E, Coates P, Radimer K, Bindwald B, Sharpless K, Holden J, Andrews K, Zhao C, Harnly J, Wolf W, Perry C. Progress in development of an integrated dietary supplement ingredient database at the NIH Office of Dietary Supplements. *J Food Comp Anal.* 2006; 19(suppl):S108-S114.
- Engle A, Lynn L, Koury K, Boyar A. Reproducibility and compatiability of a computerized, self-administered food frequency questionnaire. *Nutr Cancer.* 1990.13: 281-292.
- Ershow AG. Research science, regulatory science, and nutrient databases: Achieving an optimal convergence. *J Food Comp Anal.* 2003;16:269-280.
- European Food Information Resources (EuroFIR). Food Composition: Quality of food composition databases. <http://www.eurofir.net/public>. Accessed February 10, 2010.
- FAO:Infod – Links to food composition and dietary assessment software and related products. 2010 http://www.fao.org/infoods/software_en.stm Accessed October 4, 2010.
- Feskanich D, Sielaff BH, Chong K, Buzzard IM. Computerized Collection and Analysis of dietary intake information. *Comput Methods Programs Biomed.* 1989 Sep;30(1):47-57.
- Feskanich D, Buzzard IM, Welch BT, Asp EH, Dieleman LS, Chong KR, Bartsch GE. Comparison of a computerized and a manual method of food coding for nutrient intake studies. *J Am Diet Assoc.* 1988 Oct;88(10):1263-7.
- Fiske H. 2002 Nutrition Software Review. *Today's Dietitian* 2002;22-28.
- Food and Nutrition Information Center (FNIC) Interactive DRI for Healthcare Professionals 2009. <http://fnic.nal.usda.gov/interactiveDRI> Accessed February 7, 2010.
- Fong AK, Kretsch MJ. Nutrition Evaluation Scale System reduces time and labor in recording quantitative dietary intake. *J Am Diet Assoc.* 1990 May;90(5):664-70.
- Gaal B, Vassanyi I, Kozmann G. A novel artificial intelligence method for weekly dietary menu planning. *Methods Inf Med.* 2005;44:655-664.
- Goodson JM, Sproat R, Silverstein SJ. Computer facilitated nutrient analysis. *J Dent Res.* 1975 Mar-Apr;54(2):407-12.
- Graziado-Marques B, Kennedy B, Anderson K. Cost justifying computerization of diet analysis. *J Am Diet Assoc.* 1991 Apr;91(4):469-70.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Harrison GG. Fostering data quality in food composition databases. *Appl Implic Public Health*. 2004; 17:259-265.
- Hart RA, Kolas K, McFadden J. Computerized nutrient analysis for foodservice. *J Am Diet Assoc*. 1985;85: 1337-1339.
- Haytowitz, D, Pehrsson, P, Holden, J. The identification of key foods for food composition research. *J Food Comp Anal*. 2002;15:183-194.
- Hjortland MC, Duddleson WG, Porter C, French AB. Using the computer to calculate nutrients in metabolic diets. *J Am Diet Assoc*. 1966;49: 316.
- Hoover LW. Computerized nutrient data bases: 1. Comparison of nutrient analysis systems. *J Am Diet Assoc*. 1983;82:501-505.
- Hoover LW, Pelican S. Nutrient Data Bases-Considerations for educators. *J Nutr Educ*. 1984;16:58-64.
- Hunt IF, Luke LS, Murphy NJ, Clark VA, Coulson AH. Nutrient estimates from computerized questionnaires vs. 24-hour recall interviews. *J Am Diet Assoc*. 1979 Jun;74(6):656-9.
- Jakszyn P, Agudo A, Ibanez R, Garcia-Closas R, Pera G, Amiano P, Gonzalez C. Development of a food database of nitrosamines, heterocyclic amines, and polycyclic aromatic hydrocarbons. *J Nutr*. 2004; 134: 2011-2014.
- Juni, RP. How Should Nutrient Databases be evaluated? *J Am Diet Assoc*. 1996;96: 120-122.
- Kee BL, Kilby ME. Use of a programmable calculator for nutrient analysis. *J Am Diet Assoc*. 1978;72: 629.
- Kretsch MJ, Fong AK. Validation of a new computerized technique for quantitating individual dietary intake: the Nutrition Evaluation Scale System (NESSy) vs the weighed food record. *Am J Clin Nutr*. 1990 Mar;51(3):477-84.
- Kubena, KS. Accuracy in dietary assessment: On the road to good science. *J Am Diet Assoc*. 2000;100: 775-776.
- LaComb RP, Taylor ML, Noble JM. Comparative evaluation of four microcomputer nutrient analysis software packages using 24-hour dietary recalls of homeless children. *J Am Diet Assoc*. 1992 Nov;92(11):1391-2.
- Lee RD, Nieman DC, Rainwater M. Comparison of eight microcomputer dietary analysis programs with the USDA Nutrient Data Base for Standard Reference. *J Am Diet Assoc*. 1995;95: 858-867.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Long JD, Littlefield LA, Estep G, Martin H, Rogers TJ, Boswell C, Shriver BJ, Roman-Shriver
Evidence Review of Technology and Dietary Assessment.
CR.Worldviews *Evid Based Nurs*. 2009 Oct 5.
- McCabe-Sellers B. Advancing the art and science of dietary assessment through technology. *J Am Diet Assoc*. 2010;110:52-54.
- McCabe-Sellers BJ, Chenard CA. Meeting the needs of US dietitians for food composition data. *J Food Comp Anal*. 2008;21(suppl):S27-S34.
- McCabe-Sellers BJ, Chanard CA, Lovera D, Champagne CM, Bogle MI. Readiness of food composition databases and food component analysis systems for nutrigenomics. *J Food Comp Anal*. 2009. Doi:10.1016/j.jfca.2009.02.004.
- McConnell FG, Wilson A. Computerized nutritional analysis in the dietetic department of a teaching hospital. *J Hum Nutr*. 1976;30: 405.
- McCullough M, Karanja N, Lin P, Obarzanek E, Phillips K, Laws R, Vollmer W, O'Connor E, Champagne C, Windhauser M. Comparison of 4 nutrient databases with chemical composition data from the Dietary Approaches to Stop Hypertension trial. *J Am Diet Assoc*. 1999;99: S45-S53.
- McNutt S. Incorporation of data into dietary assessment systems. *J Food Comp Anal*. 2008;21(suppl 1):S20-S26.
- McNutt S, Zimmerman TP, Hull SG. Development of food composition databases for food frequency questionnaires (FFQ). *J Food Comp Anal*. 2008;21(suppl):S20-S26.
- Murphy SP. Changes in dietary guidance: Implications for food and nutrient databases. *J Food Comp Anal*. 2001;14:269-278.
- Murphy SP. Dietary Reference Intakes for the US and Canada: Update on Implications for nutrient databases. *J Food Comp Anal*. 2002;15:411-417.
- Ngo J, Engelen A, Molag M, Roesle J, García-Segovia P, Serra-Majem L.
A review of the use of information and communication technologies for dietary assessment. *Br J Nutr*. 2009 Jul;101 Suppl 2:S102-12.
- Nelson M, Haraldsdottir J. Food photographs: practical guidelines II. Development and use of photographic atlases for assessing food portion size. *Pub Health Nutr* 1998;1:231-237.
- NutritionQuest [homepage on the Internet]. Version 98.2 Available from
<http://www.nutritionquest.com>. Accessed on October 10,2010.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Panagiotakos DB, Miliadis GA, Pitsavos C, Stefanadis C. MedDietScore: a computer program that evaluates the adherence to the Mediterranean dietary pattern and its relation to cardiovascular disease risk. *Comput Methods Programs Biomed.* 2006 Jul;83(1):73-7.
- Pao EM, Burk MC. A computer assisted approach to meal patterning. *J Am Diet Assoc.* 1974 Aug;65(2):144-50.
- Pennington JAT. Applications of food composition data. Data sources and considerations for use. *J Food Comp Anal.* 2008;21(suppl 1): S3-S12.
- Pennington JAT. Food composition databases for bioactive food components. *J Food Comp Anal.* 2002;15:419-434.
- Pennington JA. Associations between diet and health: the use of food consumption measurements, nutrient databases, and dietary guidelines. *J Am Diet Assoc.* 1988 Oct;88(10):1221-4.
- Pennington JA, Hendricks TC, Douglass JS, Petersen B, Kidwell J. International Interface Standard for Food Databases. *Food Addit Contam.* 1995 Nov-Dec;12(6):809-20.
- Pennington J, Stumbo P. US National Nutrient Databank Conference—A look to the past and the future National Institutes of Health (NIH), 6707 Democracy Boulevard, Room 629, Bethesda, MD 20892, USA General Clinical Research Center, Medical Research Facility, University of Iowa, Iowa City, IA 52242, USA Available online 16 March 2008.
- Pennington J, Stumbo P, Murphy S, McNutt S, Eldridge A, McCabe-Sellers B, Chenard C. Food Composition Data: The Foundation of Dietetics Practice and Research. *J Am Diet Assoc.* 2007; 107: 2105-2113.
- Powers, C, Hess, M, Kimbrough, M. How accurate are your nutrient calculations? Why culinary expertise makes a difference. *J Am Diet Assoc.* 2008;108:1418-1422.
- Powers PM, Hoover LW. Calculating the nutrient composition of recipes with computers. *J Am Diet Assoc.* 1989 Feb;89(2):224-32.
- Puwastien P. Issues in the development and use of food composition databases. *Public Health Nutr.* 2002 Dec;5(6A):991-9.
- Rand WM, Young VR. Report of a planning conference concerning an international network of food data systems. (INFOODS) *Am J Clin Nutr.* 1984 Jan;39(1):144-51.
- Rand WM, Pennington JA, Murphy SP, Klensin JC. *Compiling Data for Food Composition Data Bases.* Hong Kong: United Nations Press; 1991.

Nutrition Informatics References

Compiled by Elaine Ayres, Lindsey Hoggle & Marty Yadrick
October 2010 Version 2

- Raper N, Perloff B, Ingwersen L, Steinfeldt L, Anand J. An overview of USDA's Dietary Intake Data System. *J Food Compos Anal.* 2004; 17:545-555.
- Rafferty, J, Roderick, P, Stevens, A. Potetial use of routine databases in health technology assessment. *Health Technology Assess.* 2005;9:1-466.
- Roseland J, Holden J, Andrews K, Ahzo C, Schweitzer A, Harnly J, Wolf W, Perry C, Dwyer J, Picciano MF, Betz JM, Saldanha LG, Yetley E, Fisher K, Sharpless K. Dietary supplement ingredient database (DSID): Preliminary USDA studies on composition of adult multivitamin-mineral supplements. *J Food Comp Anal.* 2008;21(suppl 1):S69-S77.
- Saldanha L, Dwyer J, Andrews K et al. Online Dietary Supplement Resources. *J Am Diet Assoc.* 2010; 110:1426-1431.
- Schauer RR. Schakel SF, Harnack LJ. Working with a glycemic index database: Recognizing its uses and limitations in dietetic practice and nutrition research. *J Am Diet Assoc.* 2006;106:A58.
- Schaum KD. Patient-oriented dietetic information system. 3. A computer-assisted instruction program for calculating nutrient intakes. *J Am Diet Assoc.* 1973 Aug;63(2):154-6.
- Schulz AR. Computer-based method for calculation of the available energy of proteins. *J Nutr.* 1975 Feb;105(2):200-7.
- Seay R. Spreadsheet for calculating nutritional intake in pediatric patients. *Am J Health-Syst Pharm* 1996;53: 663-667.
- Sheehan ET, Kight MA, Focier JI. Computerized dietary analysis. *J Am Diet Assoc.* 1972;71: 530.
- Sheehan ET, Kight MA, Forcier JI. Computerized dietary analysis: percent animal, plant and mixed items. *J Am Diet Assoc.* 1977 Nov;71(5):530-2.
- Slimani, N etal. The EPIC nutrient database project (ENDB): a first attempt to standardize nutrient databases across the 10 European countries participating in the EPIC study. *Euro J Clin Nutr.* 2007;61:1037-1056.
- Smith BA, Morgan SL, Vaughn WH, Fox L, Canfield GJ, Baronlucci AA. Comparison of a computer-based food frequency questionnaire for calcium intake with 2 other assessment tools. *J Am Diet Assoc.* 1999;12: 1579-1581.
- Smucker R, Block G, Coyle L, Harvin A, Kessler L. A dietary and risk factor questionnaire and analysis system for personal computers. *Am J Epidemiol.* 1989 Feb;129(2):445-9.
- Souci, S, Fachmann, W, Kraut, H. *Food Composition and Nutrition Tables.* 7th Ed. MedPharma; 2008.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Stumbo P. Novel software applications using nutrient databases. *J Food Comp Anal.* 2003;16:293-297.
- Stumbo P. Selection of dietary assessment systems. *J Food Comp Anal.* 2008;21(suppl):S13-S19.
- Subar A, Crafts J, Zimmerman TP, Wilson M, Mittl B, Islam NG, McNutt S, Potischman N, Buday R, Hull S, Baranowski T, Guenther PM, Willis G, Tapia R, Thompson F. Assessment of the Accuracy of Portion Size Reports Using Computer-Based Food Photographs Aids in the Development of an Automated Self-Administered 24-Hour Recall. *J Am Diet Assoc.* 2010;110:55-64.
- Subar A, Thompson F, Potischman N, Forsyth B, Buday R, Richards D, McNutt S, Hull S, Guenther P, Schatzkin A, Baranowski, T. Formative Research of a Quick List for an Automated Self-Administered 24-Hour Dietary Recall. *J Am Diet Assoc.* 2007; 107:1002-1007.
- Thompson F, Subar A, Loria C, Reedy J, Baranowski T. Need for technological innovation in dietary assessment. *J Am Diet Assoc.* 2010;110:48-51.
- US Department of Agriculture. MyPyramid Tracker. Available at: <http://www.MyPyramidTracker.gov>. Accessed October 12, 2010.
- University of Minnesota Nutrition Coordinating Center. Nutrient Data System for Research. Available at: <http://www.uth.tmc.edu/otm/available-technologies/neds/Food-Intake-Analysis-System.html> Accessed October 12, 2010.
- US Department of Agriculture, Agricultural Research Service. USDA National Fluoride Database of Selected Beverages and Foods. Release 2. Available at: <http://www.ars.usda.gov/Services/docs.htm?docid=6312>. Accessed October 12, 2010.
- US Department of Agriculture, Agricultural Research Service and the NIH Office of Dietary Supplements. Dietary Supplement Ingredient Database. 2009 <http://dietarysupplementdatabase.usda.nih.gov> Accessed February 7, 2010.
- US Department of Agriculture, Agriculture Research Service Nutrient Data Laboratory Home Page. Search the USDA National Nutrient Database for Standard Reference, Release 23. Available at: <http://www.ars.usda.gov/Services/docs.htm?docid=8964> Accessed October 12, 2010.
- US Department of Agriculture, Agricultural Research Service, USDA Food and Nutrient Database for Dietary Studies. Available at: <http://www.ars.usda.gov/services/docs.htm?docid=12089> Accessed October 12, 2010.
- Vicol C, Dobre I, Ionescu-Tirgoviste C. Five steps from a simple data base to an expert system in nutrition. *Stud Health Technol Inform.* 1997;43 Pt A:373-6.
- Viocare. ProNutra. Available at: <http://www.viocare.com/pronutra.aspx>. Accessed October 12, 2010.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Vozenilek GP. Choosing the best nutrient analysis software for your needs. *J Am Diet Assoc.* 1999;99:1356-1358.
- Walsh KA. Computerized dietary calculations: An interactive approach. *J Hum Nutr.* 1976;30: 395.
- Wang DH, Kogashiwa M, Kira S. Development of a new instrument for evaluating individuals' dietary intakes. *J Am Diet Assoc.* 2006 Oct;106(10):1588-93.
- Watt BK, Gebhardt SE, Murphy EW, Butrum RR. Food Composition tables for the 70's. *J Am Diet Assoc.* 1974;64: 257.
- Watt BK, Murphy EW. Bridging the nutrient knowledge gap requires your concern and aid in updating tables of food composition: Scope and needed research. *Food Technol* 1970;24: 674.
- Winter J, Boushey CJ. Workshop 1: Use of technology in dietary assessment. *Eur J Clin Nutr.* 2009 Feb;63 Suppl 1:S75-7.
- Witschi J, Kowaloff H, Bloom S, Slack W. Analysis of dietary data: An interactive computer method for storage and retrieval. *J Am Diet Assoc.* 1981; 78: 609.
- Wolongevicz D, Brown L, Millen B. Nutrient Database Development: A Historical Perspective from the Framingham Nutrition Studies. *J Am Diet Assoc.* 2010;110: 898-903.
- Wong S, Boushey C, Novotny R, Gustafson D. Evaluation of a Computerized Food Frequency Questionnaire to Estimate Calcium Intake of Asian, Hispanic, and Non-Hispanic White Youth. *J Am Diet Assoc.* 2008;539-543.
- Zhu F, Mariappan A, Boushey CJ, Kerr D, Lutes KD, Ebert DS, et al. Technology-assisted dietary assessment. Proceedings of the IS&T/SPIE Conference on Computational Imaging VI 2008;6814:1-10.

NUTRITION RESEARCH

- Arab L, Wesseling-Perry K, Jardack P, Henry J, Winter A. Eight Self-Administered 24-Hour Dietary Recalls Using the Internet Are Feasible in African Americans and Whites: The Energetics Study *J Am Diet Assoc.* 2010; 110: 857-864.
- Bullock S, Craypo L, Clark S, Barry J, Samuels S. Food and Beverage Environment Analysis and Monitoring System: A Reliability Study in the School Food and Beverage Environment. *J Am Diet Assoc.* 2010; 110:1084-1088.
- Childs L, Enelow R, Simonsen L, Heintzelman N, Kowalski K, Taylor R. Description of a Rule-based System for the i2b2 Challenge in Natural Language Processing for Clinical Data. *J Am Med Inform Assoc.* 2009; 16:571-579.

Nutrition Informatics References

Compiled by Elaine Ayres, Lindsey Hoggle & Marty Yadrick
October 2010 Version 2

- Cotton PA, Subar AF, Friday JE, Cook A. Dietary Sources of Nutrients among US Adults, 1994 to 1996. *J Am Diet Assoc.* 2004;104: 921-930.
- De St.Jeor Sachiko T, Millar Roger, Tyler Frank. The Digital Computer in Research Dietetics. *J Am Diet Assoc.* 1970;56: 404-408.
- Goldstein I, Uzuner O. Specializing for predicting obesity and its co-morbidities. *J Biomedical Informatics.* 2008; 42: 873-886.
- Hankins GJ, Eccles TJ, Judlin BC, Moore MC. Data Processing of dietary survey data--old and new. *J Am Diet Assoc.* 1965;46: 387.
- Hayes O, Abraham S, Caceres C. Computers in epidemiologic dietary studies. *J Am Diet Assoc.* 1964 Jun;44:456-60.
- Holmes ZA, Osterman D, McNaughton R. Computer-simulated laboratory experiments in food science. I. The Model. *J Am Diet Assoc.* 1980;76: 471-473.
- Holmes ZA, Osterman D, Marshall M, Barrett J. Computer-simulated laboratory experiments in food science. II. Evaluation of The model in use. *J Am Diet Assoc.* 1980;76: 474-476.
- Houser HB, Sorensen AI, Littell AS, Vandervort JC. Dietary intake of non-hospitalized persons with multiple sclerosis. I Food diary and coding methods. *J Am Diet Assoc.* 1969 May;54(5):391-7.
- Mishra N, Cummo D, Arnzen J, Bonander J. A Rule-based Approach for Identifying Obesity and Its Comorbidities in Medical Discharge Summaries. *J Am Med Inform Assoc.* 2009;16: 576-579.
- Mo A, Peckos PS, Glatky CB. Computers in a dietary study. Methodology of a Longitudinal Growth Research Project. *J Am Diet Assoc.* 1971;59:111-115.
- Moore E. It's Child's Play: Advergaming and the Online Marketing of Food to Children. Menlo Park, CA: The Henry J. Kaiser Family Foundation; 2006.
- Murphy, S, Martin, C, Davison, N, Cheung, L, Au, D, Novotny, R. A comparison of two systems for entering and assessing dietary data for a research study. *J Am Diet Assoc.* 2009;109:905-908.
- Probst YC, Tapsell LC. Overview of computerized dietary assessment programs for research and practice in nutrition education. *J Am Diet Assoc.* 2005;37:20-6.
- Solt I, Tikk D, Gal V, Kardkovacs Z. Semantic Classification of Diseases in Discharge Summaries Using a Context-aware Rule-based Classifier. *J Am Med Inform Assoc.* 2009; 16:580-584.
- Stumbo Phyllis J. Using Computers in Nutrition Research accessed on August 9, 2005 from <http://gcr.c.swmed.edu/nagb/orient/chapt7.htm>.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggie & Marty Yadrick*
October 2010 Version 2

- Trostler, N, Myers, E, Snetselaar, L. Description of practice characteristics and professional activities of dietetics practice-based research network members. *J Am Diet Assoc.* 2008;108:1060-1067.
- Uzuner O. Recognizing obesity and co-morbidities in sparse data. *J Am Med Inform Assoc.* 2009;16:561-70.
- Wallin BD, Mather F. Classification and retrieval of nutrition information. *J Am Diet Assoc.* 1969 Mar;54(3):194-7.
- Winett RA, Moore JF, Wagner JL, Hite LA, Leahy M, Newbauer TE, Walberg JL, Walker WB, Lombard D, Geller ES, Munday LL. Altering shoppers' supermarket purchases to fit nutritional guidelines: An interactive information system. *J Appl Behav Anal.* 1991; 24:95-105.
- Wheeler ML, Wheeler LA. Nutrient menu planning for clinical research centers: Control by computer. *J Am Diet Assoc.* 1975;67: 356.
- Wheeler LA, Wheeler ML, Ours P. Computer selected exchange lists approximations for recipes. *J Am Diet Assoc.* 1985 Jun;85(6):700-3.

TELEHEALTH & TELEMEDICINE

- Alison Chambers, Enid Hennessy, Jeremy Powell-Tuck Longitudinal trends in quality of life after starting home parenteral nutrition: A randomised controlled study of telemedicine. *Clinical Nutrition.* 2006;3: Pages 505-514.
- American Dietetic Association Website.
<http://www.eatright.org/search.aspx?search=licensure&type=Site> See Telehealth Frequently Asked Questions accessed February 2, 2010.
- American Dietetic Association Website.
http://www.eatright.org/ada/files/STATE_LICENSE_SUMMARY_7_07PDF.pdf accessed February 2, 2010.
- Anderson M. Enteral Tube feedings in school setting: Teaching school nurses via telemedicine. *J Am Diet Assoc.* 2001; 101: A-34.
- Anderson M, Hersey M, Bachmeier-Conner. Nutrition Assessment and Feeding Evaluation of Chronically Ill Children Using Telemedicine. *J Am Diet Assoc.* 1998; 98:A73.
- Ashley RC. Telemedicine: Legal, ethical, and liability considerations. *J Am Diet Assoc.* 2002;102: 267-269.
- Beasley J, Schenk J, Ludman E, Lampe J, Reed S, Grothaus L, Newton K. Brief Telephone Intervention Increases Soy Intake in Peri- and Postmenopausal US Women: The Herbal Alternatives Trial (HALT) *J Am Diet Assoc.* 2010; 110: 1189-1197.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggie & Marty Yadrick*
October 2010 Version 2

- Busey J, Michael P. Telehealth—Opportunities and Pitfalls. *J Am Diet Assoc* 2008; 108: 1296-1301.
- Chambers A, Hennessy E, Powell-Tuck J. Longitudinal trends in quality of life after starting home parenteral nutrition: A randomised controlled study of telemedicine. *Clinical Nutrition*. 2006;3: Pages 505-514.
- Cline AD, Wong M. New frontiers in using telemedicine for nutrition intervention. *J Am Diet Assoc* 1999; 11:1442-1444.
- Eakin EG, Lawler S, Vandelanotte C, Owen N. Telephone intervention for physical activity and dietary behavior change: A systematic review. *Am J Prev Med*. 2007; 32:419-434.
- Hager M. Centers for Medicare & Medicaid Services Telehealth Coverage of MNT-What ADA Members Need to Know. *J Am Diet Assoc*. 2006;106: 513-516.
- Izquierdo R, Laguna CT, Meyer S, Ploutz-Snyder RJ, Palmas W, Eimicke JP, Kong J, Teresi JA, Shea S, Weinstock RS. Telemedicine Intervention effects on waist circumference and body mass index in the IDEALel project. *Diabetes Technol Ther*. 2010 Mar;12(3):213-20.
- Johnson A, Gorman M, Lewis C, Baker F, Coulehan N, Rader J. Interactive Videoconferencing Improves Nutrition Intervention in a Rural Population *J Am Diet Assoc*. 2001; 2:173-174.
- Johnson A, Rader J, Coulehan N, Baker F. The Use of Interactive Videoconferencing to Provide Nutrition Counseling to a Rural Population. *J Am Diet Assoc*. 1997;97:A37
- Lehoux P. Patient's perspectives on high-tech home care: A qualitative inquiry into the user-friendliness of four technologies. *BMC Health Serv Res*. 2004; 4:28-36.
- McBride C, Rimer B. Using the telephone to improve health behavior and health service delivery. *Patient Educ Couns*. 1999;37:3-18.
- McCabe B, Copeland N, Shull C, Dictson K. The Use of Interactive Compressed Video for Nutrition Counseling of Rural Elderly. *J Nutr for Elderly*. 2001; 21: 73-84.
- Myers E, Spence L, Leslie B, Brauer P, Spahn J, Snetselaar L. Nutrition and Telephone Counseling: Future Implications for Dietitians and Teledietetics. *Top Clin Nutr*. 2010;25: 88-108.
- Newman V, Flatt S, Pierce J. Telephone Counseling Promotes Dietary Change in Healthy Adults: Results of a Pilot Trial. *J Am Diet Assoc*. 2008; 108:1350-1354.
- Palumbo C. Using new technology for nutrition counseling. *J Am Diet Assoc*. 1999;99:1363-1364.
- Pierce J, Newman V, Natarajan L, Flatt S, Al-Delaimy W, Cann B, Emond J, Faerber S, Gold E, Hajek R, Hollenback K, Jones L, Karanja N, Kealey S, Madlensky L, Marshall J, Ritenbaugh C, Rock C, Stefanick M, Thomson C, Wasserman L, Parker B. Telephone counseling helps maintain long-term adherence to a high-vegetable dietary pattern. *J Nutr*. 2007;137: 2291-2296.

Nutrition Informatics References

Compiled by Elaine Ayres, Lindsey Hoggle & Marty Yadrick
October 2010 Version 2

Pierce J, Newman V, Flatt S, Faerber S, Rock C, Natarajan L, Caan B, Gold E, Hollenback K, Wasserman L, Jones L, Ritenbaugh C, Stefanick M, Thomson C, Kealey S. Telephone counseling intervention increases intakes of micronutrient- and phytochemical-rich vegetables, fruit and fiber in breast cancer survivors. *J Nutr.* 2004;134;452-458.

Vanwormer JJ, Boucher J, Pronk N. Telephone-based counseling improves dietary fat, fruit, and vegetable consumption: A best-evidence synthesis. *J Am Diet Assoc.* 2006; 1066: 1434-1444.

WR Hersh, DH Hickam, SM Severance, TL Dana, KP Krages, MHelfand. Diagnosis, access and outcomes: update of a systematic review of telemedicine services. *Journal of Telemedicine and Telecare* 2006: 12 (suppl. 2): S2: 3-31.

REIMBURSEMENT FOR NUTRITIONAL CARE

Baranoski, C, King, S. Insurance companies are reimbursing for medical nutrition therapy. *J Am Diet Assoc.* 2000;100:1530-1532.

Blackburn, K. Dietetics professionals' role in the changing face of America's health care: The Chronic Care Model. *J Am Diet Assoc.* 2005;105: 346-347.

Hodorowicz MA. Medicare MNT Reimbursement Update. *Today's Dietitian.* 2007. Aug; 16-18.

Kaiser Family Foundation and the National Governors Association Center for Best Practices. Elements of State Health Care Reform: Prevention and Wellness as Covered Benefits. Menlo Park CA: Kaiser Family Foundation; 2007. http://www.kaisernetwork.org/health_cast/uploaded/files/060707_kff_nga_transcript.pdf.

Michael, P. The Three C's of MNT: coverage, codes and compensation. *J Am Diet Assoc.* 2000;100:1140-1141.

McCulley J, Myers E. Dietitians take the lead in diagnosis-related group coding. *J Am Diet Assoc.* 1994;94:648-649.

Pangan T, Bednar C. Dietitian business Web sites: A survey of their profitability and how you can make yours profitable. *J Am Diet Assoc.* 2005;101: 399-402.

White J, Ayoob K, Benedict M, Chynoweth M, Gregoire M, Howard R, McCool A, Parrott S, Ramsey S, Thiessen C, Thomsen K, Bender T, Myers E, Michael P. Registered Dietitians' Coding Practices and Patterns of Code Use. *J Am Diet Assoc.* 2008; 108: 1242-1248.

PRIVACY AND SECURITY OF HEALTH INFORMATION

Castle D. The Electronic Health Record, Genetic Information and Patient Privacy. *J Am Diet Assoc.* 2008; 108:1372-1374.

Nutrition Informatics References

Compiled by Elaine Ayres, Lindsey Hoggle & Marty Yadrick
October 2010 Version 2

Michael P, Pritchett E. The impact of HIPAA electronic transmissions and health information privacy standards. *J Am Diet Assoc.* 2001;101:524-528.

Ness R. Influence of the HIPAA privacy rule on health research. *J Amer Med Assoc.* 2007;298:2164-2170.

ETHICAL AND LEGAL ISSUES OF PRACTICE

Derelian, D. Dietetics: legalities, ethics and eccentricities. *J Am Diet Assoc.* 2000;100:519-523.

Ethics in Action: A review of the American Dietetic Association's guidelines for medical and health information sites on the Internet. *J Am Diet Assoc* 2000; 100:1003.

Hagland M. Reduced Errors Ahead. *Healthcare Informatics* 2003 accessed on August 10, 2005 from http://www.healthcare-informatics.com/issues/2003/08_03/cover.htm.

Holler H. Resources for Ethical Dilemmas in Dietetics. *J Am Diet Assoc.*2002; 102 1817-1818.

Rodriguez JC. Legal, ethical, and professional issues to consider when communicating via the internet: A suggested response model and policy. *J Am Diet Assoc.* 1999;99: 1438-1432.

SURVEYS

Cok P, de Bernard B, Francescato MP. A new EDP assisted dietary survey employing a simple and concise data collection method. *Comput Biol Med.* 1985;15(5):337-51.

Copeland W, Keckley P. 2008 Survey of Health Care Consumers. Deloitte Center for Health Solutions. http://www.deloitte.com/view/en_US/us/Industries/health-care-providers/center-for-health-solutions/6ca7f42c8d1fb110VgnVCM100000ba42f00aRCRD.htm accessed October 9, 2010.

Edwards JU, Magel R. Use of the youth risk behavior survey to monitor trends for nutrition and physical activity in a Midwest city school district. *J Sch Health.* 2007 Sep;77(7):351-8.

Food and Drug Administration. Total Diet Study. Available at: <http://www.fda.gov/Food/FoodSafety/FoodContaminantsAdulteration/TotalDietStudy/default.htm> Accessed October 12, 2010.

Fox TA, Heimendinger J, Block G. Telephone surveys as a method for obtaining dietary information: a review. *J Am Diet Assoc.* 1992 Jun;92(6):729-32.

Goodloe M, Waters G, Quinlan C, Barrow J. Studies in Atherosclerosis: Electronic Computers in the Processing of Dietary Data. *Am J Clin Nutr.* 1963 Nov;13:304-11.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

Hoffman CJ. A survey of pocket computer use for nutrition services. *J Am Diet Assoc.* 1991 Feb;91(2):225-7.

Koerber LG, Dray J. A computerized diet survey for dental patients. *J Indiana Dent Assoc.* 1979 Sep-Oct;58(5):26-9.

McBride J. Was it a slab, a slice, or a sliver? High-tech innovations take food survey to a new level. *Agric Res.* 2001;49: 4-7.

National Center for Health Statistics, National Health and Nutrition Examination Survey. Available at: <http://www.cdc.gov/nchs/nhanes.htm>. Accessed October 12, 2010.

Perloff, B, Rizek, R, Haytowitz, D, Reid, P. Dietary intake methodology II. USDA's nutrient data base for nationwide dietary intake surveys. *J Nutr* 1990;120:1530-1534.

Schucker RE. Alternative approaches to classic food consumption measurement methods: telephone interviewing and market databases. *Am J Clin Nutr.* 1982 May;35(5 Suppl):1306-9.

Taylor EC. The impact of computer analysis on the design of dietary surveys. *Proc Nutr Soc.* 1970 May;29(1):135-41.

The School Food Environment, Children's Diets, and Obesity: Findings from the Third School Nutrition Dietary Assessment Study. Robert Wood Johnson Foundation. *J Am Diet Assoc.* 2009;(Suppl): S1-S138. Available at: http://www.mathematica-mpr.com/nutrition/SNDAIII_JournalADA2009.asp. Accessed October 12, 2010.

US Department of Agriculture, Agricultural Research Service, Food Surveys Research Group and US Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics. What We Eat in America. NHANES Homepage NHANES 2005-2006. Nutrient Intakes from Food. <http://www.ars.usda.gov/Services/docs.htm?docid=8964> Accessed on October 12, 2010.

Wharton, CM, Hampf JS, Hall R, Winham DM. PCs or paper-and-pencil: Online surveys for data collection. *J Am Diet Assoc.* 2003; 11: 1458-1459.

What We Eat in America [homepage in the Internet]. Available from www.ars.usda.gov/Services/docs.htm?docid=9098.

Ziffer H, Frank O, Christakis G, Talkington L, Baker H. Data analysis strategy for nutritional survey of 642 New York City schoolchildren. *Am J Clin Nutr.* 1967 Aug;20(8):858-65

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

III. CONSUMER FACING INFORMATICS

INTERNET & WEBSITE CONTENT

- Aase S. Showcasing Your Expertise: Creating Video for the Web. *J Am Diet Assoc.* 2008;4: 609-610.
- Alvy LM, Calvert SL Food Marketing on Popular Children's Web Sites: A Content Analysis. *J Am Diet Assoc.* 2008;4: 710-713.
- Baranowski T, Beltran A, Martin S, Watson K, Islam N, Robertson S, Berno S, Dadabhoy H, Thompson D, Cullen K, Buday R, Subar A, Baranowski J. Tests of the Accuracy and Speed of Categorizing Foods into Child vs Professional Categories using Two Methods of Browsing with Children. *J Am Diet Assoc.* 2010;1:91-94.
- Barriers and Drivers of Health Information Technology Use for the Elderly, Chronically Ill, and Underserved, *Structured Abstract. November 2008. Agency for Healthcare Research and Quality, Rockville, MD.* <http://www.ahrq.gov/clinic/tp/hitbartp.htm> accessed October 8, 2010.
- Chidley E. The next generation internet: A new age for healthcare. *Today's Dietitian* 1999;1: 40-41.
- Davison K. Finding nutrition information on the Net. *J Am Diet Assoc.* 1996;96: 749-750.
- DiSogra L, Glanz K. The 5 a day virtual classroom: An online strategy to promote healthful eating. *J Am Diet Assoc.* 2000;100:349-352.
- Fox, S. Online Health Search 2006. 2006. Pew Internet American Life Project, Washington DC. www.pewinternet.org.
- Hansen K, Hayes D. Dietetics professionals online: the way of the Web is the wave of the future. *J Am Diet Assoc.* 1999;99: 1349-1350.
- Harvey-Berino J, Pintauro SJ, Gold EC. The feasibility of using Internet support for the maintenance of weight loss. *Behav Modif.* 2002;26: 103-116.
- Kirk, S, Cade, J, Greenhalgh, A. Dietitians and the Internet: Are Dietitians Embracing the New Technology? *J Hum Nutr Diet* 2001;14:477-484.
- Laurent M, Vickers T. Seeking Health Information Online: Does Wikipedia Matter? *J Am Med Inform Assoc.* 2009; 16:471-479.
- Leyshock A S, Lipscomb R. Instant Mentoring: Sharing Wisdom and Getting Advice Online with E-Mentoring. *J Am Diet Assoc.* 2010; 110: 1148-1155.
- Matthys C, Pynaert I, De Keyzer W, De Henauw S. Validity and reproducibility of an adolescent Web-

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

based food frequency questionnaire. *J Am Diet Assoc.* 2009; 109:1896-1902.

Michalczyk D. Impact your practice: Communicate effectively online. *J Am Diet Assoc.* 2002; 102:778-779.

Moore TJ, Alsabeeh N, Apovian CM, Murphy M, Coffman G, Cullum-Dugan D, Jenkins M, Cabral H. Weight, Blood Pressure, and Dietary Benefits After 12 Months of a Web-based Nutrition Education Program (DASH for Health): Longitudinal Observational Study. *J Med Internet Res.* 2008;10(4):e52 <http://www.jmir.org/2008/4/e52>.

Nutrition Business Journal Website: <http://nutritionbusinessjournal.com/>

Peregrin T. Business Plan 2.0: Putting Technology to Work. *J Am Diet Assoc.* 2008; 2: 212-214.

Press Release The American Dietetic Association Website. Survey Says Consumers Hungry for Accurate Nutrition Information. Jan 15, 2010
www.eatright.org/Media/content.aspx?id=4294967816. Accessed January 22, 2010.

Reed D, Bielamowicz MK, Frantz C, Rodriguez F. Clueless in the Mall: A Web Site for Calcium for teens. *J Am Diet Assoc.* 2003S; 102:S73-78.

Saperstein SL, Atkinson NL, Gold RS. The impact of Internet use for weight loss. *Obes Rev.* 2007;8:459-465.

Switt J. Drawing Attention to Your Web Site. *J Am Diet Assoc.* 2008;S: S19.

Tate DF, Jackvony EH, Wing RR. A randomized trial comparing human E-mail counseling, computer-animated tailored counseling and no counseling in an Internet weight loss program. *Arch Intern Med.* 2006; 166:1620-1625.

Tate DF, Jackvony EH, Wing RR. Effects of Internet behavioral counseling on weight loss in adults at risk for type 2 diabetes: A randomized trial. *JAMA.* 2003; 289:1833-1836.

Vereecken CA, Covents M, Haynie D, Maes L. Feasibility of the Young Children's Nutrition Assessment of the Web. *J Am Diet Assoc.* 2009; 109:1896-1902.

Vozenilek G. The wheat from the chaff: Sorting out nutrition information on the Internet. *J Am Diet Assoc.* 1998;98:1270-1272.

Webber KH, Tate DF, Quintiliani LM. Motivational Interviewing in Internet Groups: A Pilot Study for Weight Loss. *J Am Diet Assoc.* 2008; 6: 1029-1032.

Nutrition Informatics References

Compiled by Elaine Ayres, Lindsey Hoggle & Marty Yadrick
October 2010 Version 2

NUTRITION EDUCATION FOR CONSUMERS

- Aldridge DK. Interactive Computer-Tailored Nutrition Education. Office of Analysis, Nutrition and Evaluation. Food and Nutrition Service, USDA. 2006.
http://www.fns.usda.gov/ora/menu/Published/NutritionEducation/Files/LitReview_Tailoring.pdf
Accessed on October 6, 2010.
- Atkinson N, Desmond S, Saperstein S, Billing A, Gold R, Tournas-Hardt A. Assets, Challenges, and the Potential of Technology for Nutrition Education in Rural Communities *J Nutr Educ Behav*. 2010; 2:
- Baranowski T, Islam N, Baranowski J, Cullen K, Myres D, Marsh T, deMoor C. The Food Intake Recording Software System is valid among fourth-grade children. *J Am Diet Assoc*. 2005; 102: 380-385.
- Barbusca A. Customizing mainframe computer software to improve the productivity of clinical dietetics. *J Am Diet Assoc*. 1993;93: 682-683.
- BitWine Nutrition Advisors Network – Online nutrition counseling services
<http://nutrition.bitwine.com/search> Accessed February 7, 2010
- Block G, Miller M, Harnack L, Kayman S, Mandel S, Cristofar S. An interactive CD-ROM for nutrition screening and counseling. *Am J Public Health* 2000;90(5):781–5.
- Breese MS, Welch AC, Schimpfhauser F. Computer-simulated Clinical Encounters: Development, utilization, and evaluation of a program. *J Am Diet Assoc*. 1977;70: 382-385.
- Brown D. New Web site fights childhood obesity with fun. *J Am Diet Assoc*. 2003;103: 671-672.
- Brug J, Campbell M, van Assema P. The application and impact of computer-generated personalized nutrition education: a review of the literature. *Patient Educ Couns*. 1999;36(2):145–56.
- Brug J, Glanz K, Van Assema P, Kok G, van Breukelen GJP. The impact of computer-tailored feedback and iterative feedback on fat, fruit, and vegetable intake. *Health Educ Behav* 1998; 25:517-531.
- Brug J, Steenhuis I, van Assema P, de Vries H. The impact of a computer-tailored nutrition intervention. *Prev Med*. 1996 May-Jun;25(3):236-42.
- Brug J, Steenhuis I, van Assema P, Glanz K, De Vries H. Computer-tailored nutrition education: differences between two interventions. *Health Educ Res*. 1999;14:249–56.
- Brug J, Oenema A, Campgell M. Past, present, and future of computer-tailored nutrition education: a review of the literature. *Am J Clin Nutr(suppl)* 2003;77: 1028S-34S.

Nutrition Informatics References

Compiled by Elaine Ayres, Lindsey Hoggle & Marty Yadrick
October 2010 Version 2

- Carlton DJ, Kicklighter JR, Jonnalagadda SS, Shoffner MB. Design, Development, and formative evaluation of "Put Nutrition Into Practice," a multimedia nutrition education program for adults. *J Am Diet Assoc.* 2000;100: 555-563.
- Campbell MK, Bernhardt JM, Waldmiller M, et al. Varying the message source in computer-tailored nutrition education. *Patient Educ Couns.* 1999;36:157-69.
- Campbell M, Honess-Morreale L, Farrell D, Carbone E and Brasure M. A Tailored Multimedia Nutrition Education Pilot Program for Low-Income Women Receiving Food Assistance." *Health Education Research.* 1999; 14:257-267.
- Carroll JM, Stein C, Byron M, dutram K. Using interactive multimedia to deliver nutrition education to Maine's WIC clients. *J Nutr Educ.* 1996;28:19-25.
- Castaldini M, Saltmarch M, Luck S, Sucher K. The development and pilot testing of a multimedia CD-ROM for diabetes education. *Diabetes Educ.* 1998 May-Jun;24(3):285-6, 291-2, 295-6.
- Celio A, Winzelberg A, Winfley D, Eppstein-Herald D, Springer E, Dev P, Taylor C. Reducing risk factors for eating disorders: Comparison of an internet- and a classroom-delivered psychoeducational program. *J Consult Clin Psychol.* 2000; 68: 650-657.
- Dickerson S, Reinhart A, Feeley T. Patient Internet Use for Health Information at Three Urban Primary Care Clinics. *J Am Med Inform Assoc* 2004; 11:499-504.
- DiSogra L, Glanz K. The 5 a day virtual classroom: An on-line strategy to promote healthful eating. *J Am Diet Assoc.* 2000;100: 349-352.
- Dunn C, Thomas C, Greene C, Pegram L. SyberShop: digital solutions for eating healthy and being active. *J Nutr Educ Behav.* 2004 Nov-Dec;36(6):331-2.
- Fox S, Jones S. The Social Life of Health Information. Pew Internet and American Life Project 2009.
- Fox S, Purcell K. Chronic Disease and the Internet. Pew Internet and American Life Project. 2010 <http://pewinternet.org/Reports/2010/Chronic-Disease.aspx> accessed October 7, 2010.
- Fuhrman MP. Issues facing dietetics professionals: Challenges and opportunities. *J Am Diet Assoc.* 2002;102: 1618-1620.
- Glanz K, Shigaki D, Farzanfar R, Pinto B, Kaplan B, Friedman RH. Participant reactions to a computerized telephone system for nutrition and exercise counseling. *Patient Educ Couns.* 2003 Feb;49(2):157-63.
- Goodman J, Blake J. *Nutrition Education: A Computer-Based Education Program* Journal of Health Care for the Poor and Underserved - Volume 16, Number 4 Supplement A, November 2005, pp. 118-127

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Gould SM, Anderson J. Economic Analysis of bilingual interactive multimedia nutrition education. *J Nutr Educ Behav.* 2002; 34:273-278.
- Gould SM, Anderson J. Using interactive multimedia nutrition education to reach low-income persons: An effectiveness evaluation. *J Nutr Educ* 2000; 32: 204-213.
- Henry A, Story M. Food and Beverage Brands That Market to Children and Adolescents on the Internet: A Content Analysis of Branded Web Sites. *J Nutr Educ Behav.* 2009; 41: 353-359.
- Henning, Michael. Nursing Role in Nutrition. CIN: Computers, Informatics, Nursing: September/October 2009 - Volume 27 - Issue 5 - pp 301-306
http://journals.lww.com/cinjournal/Abstract/2009/09000/Nursing_s_Role_in_Nutrition.8.aspx
- Hoelscher DM, Evans A, Parcel GS, Kelder SH. Designing effective nutrition interventions for adolescents. *J Am Diet Assoc.* 2002;102(suppl 3):S52-S61.
- Jantz C, Anderson J, Gould SM. Using computer-based assessments to evaluate interactive multimedia nutrition education among low-income predominantly Hispanic participants. *J Nutr Educ Behav.* 2002 Sep-Oct;34(5):252-60.
- Jayasuriya R. Determinants of microcomputer technology use: implications for education and training of health staff. *Int J Med Inform.* 1998 Jun;50(1-3):187-94.
- Jimison HB, Sher PP. Advances in health information technology for patients. *J AHIMA.* 1998 Sep;69(8):42-6.
- Keselman A, Logan R, Smith C, Leroy G, Zeng-Treitler Q. Developing Informatics Tools and Strategies for Consumer-centered Health Communication. *J Am Med Inform Assoc.* 2008;15:473-483.
- Kolasa KM, Jobe AC, Miller MG. Using computer technology for nutrition education and cancer prevention. *Acad Med.* 1996 May;71(5):525-6.
- Lakness JA, Doyle MK. Computer-Assisted revision of a community diet manual. *J Am Diet Assoc.* 1980;76: 477-479.
- Landig J, Erhardt JG, Bode JC, Bode C. Validation and comparison of two computerized methods of obtaining a diet history. *Clin Nutr.* 1998 Jun;17(3):113-7.
- Laron Z, Galatzer A, Fainmesser P, Albag Y, Ofan R, Flexer Z, Faiman G, Rapaport M. Four years experience with the microcomputer system "Diacon" in the treatment and education of diabetes. *Horm Metab Res Suppl.* 1990;24:129-40.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggie & Marty Yadrick*
October 2010 Version 2

- Lindell KC, Adams KM, Kohlmeier M, Zeisel SH. The evolution of Nutrition in Medicine, a computer-assisted nutrition curriculum. *Am J Clin Nutr* 2006;83(suppl):956S– 62S.
- Miller LG. Computerized interviewing systems for the obese. *J. Nutr. Educ.* 1976;8:169.
- Millette RA, Maier A, Krause RE. Computerized food shopping. *J Am Diet Assoc.* 1973;63: 646.
- Neighbors-Dembereckyj L, Painter JE. Online diet analysis tools: A functional comparison. *J Am Diet Assoc.* 2002;102: 1738-1742.
- Norman GJ, Zabinski MF, Adams MA, Rosenberg DE, Yaroch AL, Atienza AA. A Review of eHealth Interventions for Physical Activity and Dietary Behavior Change. *Am Journal of Preventive Medicine* 2007; 4: 336-345.
- Oenema A, Brug, Lechner L. Web-based tailored nutrition education; Results of a randomized controlled trial. *Health Educ Res.* 2001;16:647-660.
- Oh Y, Kim, D. “Nutrition Exploration” with Food Characters: Interactive Multimedia Nutrition Software for Preschoolers *J Nutr Educ Behav.* 2007;39:173-174.
- Painter, J. The Business of Dietetics: Virtual estimation: Internet program helps users determine nutrient intake and needs. *J Am Diet Assoc.* 2000;100;1002.
- Papakonstantinou E, Hargrove J, Huang C, Crawley C, Canolty N. Assessment of perceptions of nutrition knowledge and disease using a group interactive system: The Perception Analyzer. *J Am Diet Assoc.* 2002; 102: 1663-1668.
- Peregrin T. Picture This: Visual Cues Enhance Health Education Messages for People with Low Literacy Skills. *Am Diet Assoc.* 2010 110: 500.
- Revere D, Dunbar P. Review of Computer-generated Outpatient Health Behavior Interventions. *JAMIA.* 2001; 8: 62-79
- Riley W, Beasley J, Sowell A, Behar A. Effects of a Web-based Food Portion Training Program on Food Portion Estimation. *J Nutr Educ Behav* 2007;39:70-76.
- Rochford CC. Youth in action: Inquiry into computer applications in dietetics. *J Am Diet Assoc.* 1975;66: 374.
- Rockett HR, Berkey CS, Colditz GA. Evaluation of dietary assessment instruments in adolescents. *Curr Opin Clin Nutr Metab Care.* 2003 Sep;6(5):557-62.
- Rourke KM, Hern M, Cicciarello L. NetWellness: Utilizing a consumer health information Web site to access nutrition professionals. *J Am Diet Assoc.* 2000;100: 757-759.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Rydell S, French S, Fulkerson J, Neumark-Sztainer D, Gerlach A, Story M, Christopherson K. Use of a Web-Based Component of a Nutrition and Physical Activity Behavioral Intervention with Girl Scouts. *J Am Diet Assoc.* 2005;105:1447-1450.
- Sacks N, Cabral H, Kazis L, Jarrett K, Vetter D, Richmond R, Moore T. A Web-based Nutrition Program Reduces Health Care Costs in Employees With Cardiac Risk Factors: Before and After Cost Analysis. *J Med Internet Res* 2009 <http://www.jmir.org/2009/4/e43/>
- Skinner H, Biscope S, Poland B, Goldberg E. How adolescents use technology for health information: implications for health professionals from focus group studies. *J Med Internet Res.* 2003 Dec 18;5(4):e32.
- Slack W, Porter D, Witschi J, Sullivan M, Buxbaum R, Stare FJ. Dietary interviewing by computer: An experimental approach to counseling. *J Am Diet Assoc.* 1976;69: 514.
- Slattery ML, Caan BJ, Duncan D, Berry TD, Coates A, Kerber R. A computerized diet history questionnaire for epidemiologic studies. *J Am Diet Assoc.* 1994;94: 761-766.
- Tate D, Wing R, Winett R. Using Internet technology to deliver a behavioral weight loss program. *J Am Med Assoc.* 2001; 285: 1172-1177.
- Trepka, J. Interactive multimedia can be used effectively in food safety education. *J Am Diet Assoc.* 2008;108:985
- Trepka MJ, Newman FL, Davila EP, Matthew KJ, Dixon Z, Huffman F. Randomized Controlled Trial to Determine the Effectiveness of an Interactive Multimedia Food Safety Education Program for Clients of the Special Supplemental Nutrition Program for Women, Infants, and Children. *J Am Diet Assoc.* 2008; 6: 978-984.
- U.S. Department of Agriculture, Agricultural Research Service. 2010. USDA MyPyramid.gov Home Page <http://www.mypyramid.gov/> Accessed February 7, 2010.
- Weber K, Story M, Harnack L. Internet food marketing strategies aimed at children and adolescents: A content analysis of food and beverage brand web sites. *J Am Diet Assoc.* 2006;106:1463-1466.
- Weinberg AD, Scott LW. The use of the computer in education: focusing on nutrition. *Health Values.* 1983 Mar-Apr;7(2):22-8.
- Welch AC, Breese MS. Computer-simulated clinical encounter: Caseflow and program content. *J Am Diet Assoc.* 1977;70: 385.
- Winzelberg Aj, Eppstein D, Eldredge K, Wilfley D, Dasmahapatra R, Dev P, Taylor C. Effectiveness of an Internet-based program for reducing risk factors for eating disorders. *J Consult Clin Psychol.* 2000;68: 346-350.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggie & Marty Yadrick*
October 2010 Version 2

- Witschi J, Porter D, Vogel S, Buxbaum R, Stare FJ, Slack W. A computer-based dietary counseling system. *J Am Diet Assoc.* 1976;69: 385-389.
- Zabinski M, Wilfey D, Pung M, Winzelberg A, Eldredge K, Taylor C. An interactive Internet-based intervention for women at risk of eating disorders: A pilot study. *Int J Eat Disord.* 2001; 30: 129-137.
- Zabinski M, Pung M, Wilfley D, Eppstein D, Winzelberg A, Celio A, Taylor C. Reducing risk factors for eating disorders: Targeting at-risk women with a computerized psychoeducational program. *Int J Eat Disord.* 2001;29:401-408.
- Zeisel SH, Plaisted CS. CD-ROMs for nutrition education. *J Am Coll Nutr.* 1999 Jun;18(3):287.

PERSONAL FOOD AND NUTRITION APPLICATIONS AND TECHNOLOGIES

- Ahn Y, Kim KW. Study on utilization status of internet and needs assessment for developing nutrition education programs among elementary school children. *Nutr Res Pract.* 2007 Winter;1(4):341-8.
- Anderson ES, Winett RA, Bickley PG, Walberg-Rankin J, Moore JF, Harris CE, Gerkin RE. The effects of a multimedia system in supermarkets to alter shopper's food purchases. *J Health Psych* 1997;2:209-223.
- Ancker J, Kaufman D. Rethinking health Numeracy: A Multidisciplinary Literature Review. *JAMIA* 2007 14: 713-721
- Beasley JM, Riley WT, Davis A, Singh J. Evaluation of a PDA-based dietary assessment and intervention program: A randomized controlled trial. *J Am Coll Nutr.* 2008;27:280-286.
- Beasley JM, Riley WT, Jean-Mary J. Accuracy of a PDA-based dietary assessment program. *Nutrition.* 2005;21:672.277.
- Burke LE, Warziski M, Starrett T, Choo J, Music E, Sereika S, Stark S, Sevick MA. Self-monitoring dietary intake: Current and future practices. *J Ren Nutr.* 2005;15:281-290.
- Chatterjee S, Price A. Healthy Living with Persuasive Technologies: Framework, Issues and Challenges. *J Am Med Informatics Assoc* 2009 16: 171-178
- De Bourdeaudhuij I, Stevens V, Vandelanotte C, Brug J. Evaluation of an interactive computer-tailored nutrition intervention in a real-life setting. *Ann Behav Med.* 2007 Feb;33(1):39-48.
- Delichatsios HK, Friedman RH, Glanz K, Tennstedt S, Smigelski C and Pinto BM. Randomized Trial of a "talking computer" to improve adults' eating habits. *American Journal of Health Promotion.* 2001; 15:215-24.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggie & Marty Yadrick*
October 2010 Version 2

- Dennison KF, Dennison D, Ward JY. Computerized nutrition program: effect on nutrient intake of senior citizens. *J Am Diet Assoc.* 1991 Nov;91(11):1431-3.
- De Vries H, Brug J. Computer-tailored interventions motivating people to adopt health promoting behaviors: introduction to a new approach. *Patient Educ Counsel.* 1999; 99-105.
- Fukuo, W, Yoshiuchi, K, Ohashi, K, Togashi, H, Sekine, R, Kikuchi, H, Sakamoto, N, Inada, S, Sato, F, Kalowaki, T, Akabayashi, A. Development of a Hand-Held Personal digital Assistant-Based Food Diary with Food Photographs for Japanese Subjects *J Am Dietetic Assoc.* 2009;109:1232-1236.
- Glanz K, Murphy S, Moylan J, Evensen D, Curb JD. Improving dietary self-monitoring and adherence with hand-held computers: a pilot study. *Am J Health Promot.* 2006;20:165-170.
- Hagler AS, Norman GJ, Radick LR, Calfas KJ, Sallis JF. Comparability and reliability of paper- and computer-based measures of psychosocial constructs for adolescent fruit and vegetable and dietary fat intake. *J Am Diet Assoc.* 2005 Nov;105(11):1758-64.
- Heetderks-Cos JE, Alford BB, Bednar CM, Heiss CJ, Tauai LA, Edgren KK. CD-ROM nutrient analysis database assists self-monitoring behavior of active duty Air Force personnel receiving nutrition counseling for weight loss. *J Am Diet Assoc.* 2005;101: 1041-1046.
- Horowitz M, Shilts MK, Townsend MS. Adapting a diet analysis program for an adolescent audience. *J Nutr Educ Behav.* 2005 Jan-Feb;37(1):43-44.
- Irvine AB, Ary DV, Grove DA, Gilfillan-Morton L. The effectiveness of an interactive multimedia program to influence eating habits. *Health Educ Res* 2004;19:290-305.
- Kato M, Tajika M, Miwa Y, Moriwaki H. Validation of a portable indirect calorimeter (Metavine) for measuring energy expenditure in an elderly population. *Clin Exp Pharmacol Physiol Suppl.* 2002:S9-S12.
- Kroeze W, Oenema A, Campbell M, Brug J. The efficacy of Web-based and print-delivered computer-tailored interventions to reduce fat intake: results of a randomized, controlled trial. *J Nutr Educ Behav.* 2008 Jul-Aug;40(4):226-36.
- Kroeze W, Werkman A, Brug J. A systematic review of randomized trials on the effectiveness of computer-tailored education on physical activity and dietary behaviors. *Ann Behav Med* 2006;31:205-23.
- McClung, H, Sisgrig, L, Smith, T, Karl, J, Rood, J, Young, A, Bathalon, G. Monitoring Energy Intake: A Hand-Held Personal Digital Assistant Provides Accuracy Comparable to Written Records. *J Am Dietetic Assoc.* 2009;109:1241-1235.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

Mossavar-Rahmani Y, Henry H, Rodabough R, Bragg C, Brewer A, Freed T, Kinzel L, Pedersen M, Soule O, Vosburg S. Additional Self-Monitoring Tools in the Dietary Modification Component of the Women's Health Initiative. *J Am Diet Assoc.* 2004; 104: 76-85.

Neiman DC, Trone GA, Austin MD. A new handheld device for measuring resting metabolic rate and oxygen consumption. *J Am Diet Assoc.* 2003; 103:588-592.

Nieman DC, Austin MD, Chilcote SM, Benezra L. Validation of a new handheld device for measuring resting metabolic rate and oxygen consumption in children. *Int J Sport Nutr Exerc Metab.* 2005; 15:186-194.

NuConnexions: Fitness and Weight Management Products for Consumers www.nuconnexions.com
Accessed February 7, 2010

O'Donnell MG, Nelson M, Wise PH, Walker DM. A computerized diet questionnaire for use in diet health education. 1. Development and validation. *Br J Nutr.* 1991 Jul;66(1):3-15.

Online Calorie Counters (Examples): (Accessed 2/6/10)

Nutrition Data <http://www.nutritiondata.com/>

My Food Diary

http://www.myfooddiary.com/?source=g_cs_calculator&OVKEY=food%20calorie%20calculator&gclid=CN_akJmv4J8CFaAO5QodFV7rHw

Calories Count

http://www.caloriescount.com/free_FoodCalculator.aspx?AspxAutoDetectCookieSupport=1

The Calorie Counter <http://www.thecaloriecounter.com/>

Calorie Count <http://caloriecount.about.com/>

My-Calorie-Counter: Free Online Diet Journal <http://caloriecount.about.com/>

Portnoy DB, Scott-Sheldon LA, Johnson BT, Carey MP. Computer-delivered interventions for health promotion and behavioral risk reduction: a meta-analysis of 75 randomized controlled trials, 1988-2007. *Prev Med.* 2008 Jul;47(1):3-16.

Rubenbauer JR, Johannsen DL, Baier SM, Litchfield R, Flakoll PJ. The use of a handheld calorimeter unit to estimate energy expenditure during different physiological conditions. *J Parenter Enteral Nutr.* 2006;30:246-250.

Roche P, Ciccarelli M, Gupta S, Hayes B, Molleston J. Multi-School Collaboration to Develop and Test Nutrition Computer Modules for Pediatric Residents. *J Am Diet Assoc.* 2007;107:1586-1589.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Silk KJ, Sherry J, Winn B, Keesecker N, Horodynski M, Sayir A. Increasing Nutrition Literacy: Testing the Effectiveness of Print, Web site, and Game Modalities. *J Nutr Educ Behav.* 2008;40:3-10.
- Six B, Schap T, Fengqing M, Zhu M, Mariappan A, Bosch M, Delp E, Ebert D, Kerr D, Boushey C. Evidence-Based Development of a Mobile Telephone Food Record. *J Am Diet Assoc.* 2010; 110:74-79.
- Spears KE, Hyunsook K, Behall KM, Conway JM. Hand-held Indirect Calorimeter Offers Advantages Compared with Prediction Equations, in a Group of Overweight Women, to Determine Resting Energy Expenditures and Estimated Total Energy Expenditures during Research Screening. *J Am Diet Assoc.* 2009;5: 836-845.
- St-Onge MP, Rubiano F, Jones A Jr, Heymsfield SB. A new hand-held indirect calorimeter to measure postprandial energy expenditure. *Obes Res.* 2004;12:704-709.
- Suber AF, Thompson FE, Potischman N, Forsyth BH, Buday R, Richards D, McNutt S, Hull SG, Guenther PM, Schatzkin A, Baranowski T. Formative Research of a quick list for an automated self-administered 24-hour dietary recall. *J Am Diet Assoc.* 2007; 107:1002-1007.
- Swanson M. Digital Photography as a tool to measure school cafeteria consumption. *J Sch Health.* 2008;78:432-437.
- Tinker LF, Patterson RE, Kristal AR, Bowen DJ, Kuniyuki A, Henry H, Shattuck A. Measurement characteristics of two different self-monitoring tools used in a dietary intervention study. *J Am Dietetic Assoc.* 2001; 101:1031-140.
- Tufano JT, Karras BT. Mobile eHealth interventions for obesity: A timely opportunity to leverage convergence trends. *J Med Internet Res* 2005;7.
- Winett RA, Moore JF, Wagner JL, Hite LA, Leahy M, Neubauer TE, Walberg JL, Walker WB, Lombard D, Geller ES, et al. Altering shoppers' supermarket purchases to fit nutritional guidelines: an interactive information system. *J Appl Behav Anal.* 1991 Spring;24(1):95-105.
- Weiss R, Stumbo P, Dlvakaran A. Automatic Food Documentation and Volume Computation Using Digital Imaging and Electronic Transmission. *J Am Diet Assoc.* 2010; 110: 42-44.
- Weiss R, Fong AK, Kretsch MJ. Adapting Pro Nutra to interactively track food weights from an electronic scale using ProNESSy. *J Food Compos Anal.* 2003;16:305-11.
- Yon BA, Johnson RK, Harvey-Berino J, Gold BC, Howard AB. Personal digital assistants are comparable to traditional diaries for self-monitoring during a weight loss program. *J Behav Med.* 2007; 30: 165-175.
- Yon BA Jonson R, Harvey-Berino J, Gold B. The use of a personal digital assistant for dietary self-monitoring does not improve the validity of self-reports of energy intake. *J Am Diet Assoc.* 2006;106:1256-1259.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggie & Marty Yadrick*
October 2010 Version 2

PERSONAL HEALTH RECORDS

- Civan A, Skeels M, Stolyar A, Pratt W. Personal health information management: Consumer's perspectives. *AMIA Symposium Proceedings AMIA 2006*:156-160.
- Detmer D, Bloomrosen M, Raymond B, Tang P. Integrated Personal Health Records: Transformative Tools for Consumer-Centric Care. *BMC Medical Informatics and Decision Making* 2008. 8: 45.
- Halamka J, Mandl K, Tang P. Early experiences with personal health records. *J Am Med Inform Assoc.* 2008;15:1-7.
- Kaelber DC, Jha AK, Johnston D, Middleton B, Bates D. A Research Agenda for Personal Health Records (PHRs) *J Am Med Inform Assoc.* 2008; 6: 729-736.
- Lecker R, Armijo D, Chin S, Christensen J, Desper J, Hong A, Kneale L. Review of Personal Health Record (PHR) Service Provider Market Privacy and Security. 2007 available at <http://www.altarum.org>
- Markle Foundation. Connecting Americans to Their Health Care: A Common Framework for Networked Personal Health Information. 2008 Available at <http://connectingforhealth.org> Accessed February 7, 2010
- US Department of Health and Human Services. *Personal Health Records and Personal Health Record Systems – A Report Recommendation for the national Committee on Vital and Health Statistics.* 2006 Available at <http://www.ncvhs.hhs.gov>
- US Department of Health and Human Services. Personalized Health Care: Opportunities, Pathways, Resources. 2007 Available at <http://www.hhs.gov/myhealthcare/>

HEALTH 2.0 AND MOBILE TECHNOLOGIES

- Arab L, Winter A. Automated Camera-Phone Experience with the Frequency of Imaging Necessary to Capture Diet. *J Am Diet Assoc.* 2010;110:1238-1241.
- Atienza AA, King AC, Oliveira BM, Ahn DK, Gardner CD. Using hand-held computer technologies to improve dietary intake. *Am J Prev Med.* 2008 Jun;34(6):514-8.
- Baranowski T, Baranowski J, Cullen K, Marsh T, Islam N, Zakeri I, Hones-Morreale L, and Demoor C. Squire's Quest! Dietary outcome evaluation of a multimedia game. *American J Prev Med* 2003;24:52–61.15
- Beasley J, Riley WT, Jean-Mary J. Accuracy of a PDA-based dietary assessment program. *Nutrition.* 2005 Jun;21(6):672-7.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Beasley J. The pros and cons of using PDAs for dietary self-monitoring. *J Am Diet Assoc.* 2007 May;107(5):739; author reply 739-40.
- Brown D. Networking Moves Online. *J Am Diet Assoc.* 2009;Suppl: S11-S12.
- Carter b, Birnbaum A, Hark L, Vickery B, Potter C, Osborne M. Using media messaging to promote healthful eating and physical activity among urban youth. *J Nutr Educ Behav.* 2005;37:98-99.
- e-patients: how they can help us heal healthcare. Tom Ferguson. 2007. Robert Wood Johnson Foundation.
- Executive Summary: Seeking, Sharing, Selecting. 2009 KruResearch. Available at: www.KruResearch.com. Accessed October 14, 2010.
- Friedman R, Stollerman J, Mahoney D, Rozenblyum L. The virtual visit: using telecommunications technology to take care of patients. *J Am Med Infor Assoc* 1997;(4)413-425.
- Fukuo W, Yoshiuchi K, Ohashi K, Togashi H, Sekine R, Kikuchi H, Sakamoto N, Inada S, Sato F, Kadowaki T, Akabayashi A. Development of a hand-held personal digital assistant-based food diary with food photographs for Japanese subjects. *J Am Diet Assoc.* 2009 Jul;109(7):1232-6.
- Fowles ER, Gentry B. The feasibility of personal digital assistants (PDAs) to collect dietary intake data in low-income pregnant women. *J Nutr Educ Behav.* 2008 Nov-Dec;40(6):374-7.
- Hassan T. A Mobile Context-Aware Behavior Modification System for Healthy Lifestyle Management School of Information Systems and Technology, Claremont. vol 156, Claremont Graduate University, 2007.
- Hurling R, Catt M, de boni M, Fairly B, Hurst T, Murray P, Richardson A, Sodhi J. Using Internet and Mobile phone technology to deliver an Automated Physical Activity Program. *J Med Internet Res* 2007;9(2):e7
- Irvine AB, Ary DV, Grove DA, Gilfillan-Morton L. The effectiveness of an interactive multimedia program to influence eating habits. *Health Educ Res* 2004;19:290-305.
- Lambert N, Plumb J, Looise B, Johnson I, Harvey I, Wheeler C, Robinson M, Rolfe P. Using smart card technology to monitor the eating habits of children in a school cafeteria; 1. Developing and validating the methodology. *J Hum Nutr Diet.* 2005;18:243-254.
- Mathieu J. Blogs, Podcasts, and Wikis: The New Names in Information Dissemination. *J Am Diet Assoc.* 2009; 109:S6-S8.

Nutrition Informatics References

Compiled by Elaine Ayres, Lindsey Hoggie & Marty Yadrick
October 2010 Version 2

- McClung HL, Sigrist LD, Smith TJ, Karl JP, Rood JC, Young AJ, Bathalon GP.
Monitoring energy intake: a hand-held personal digital assistant provides accuracy comparable to written records. *J Am Diet Assoc.* 2009 Jul;109(7):1241-5.
- McDoniel SO, Wolskee P, Shen J. Treating obesity with a novel hand-held device, computer software program, and Internet technology in primary care: the SMART motivational trial. *Patient Educ Couns.* 2010 May;79(2):185-91.
- Olson AL, Gaffney CA, Hedberg VA, Gladstone GR. Use of inexpensive technology to enhance adolescent health screening and counseling. *Arch Pediatr Adolesc Med.* 2009 Feb;163(2):172-7.
- Peregrin, T. Self-monitoring technology still requires the services of an RD. *J Am Diet Assoc.* 2005;101:1046.
- Shapiro J, Bauer S, Hamer R, Kordy H, Ward D, Bulik C. Use of Text Messaging for Monitoring Sugar-sweetened Beverages, Physical Activity, and Screen Time in Children: A Pilot Study. *J Nutr Educ Behav.* 2008; 40:385-391.
- Stone AA, Shiffman S, Schwartz J, Broderick J, Hufford M. Patient compliance with paper and electronic diaries. *Control Clin Trials.* 2003;24:182-199.
- Stone J. Communication between physicians and patients in the era of e-medicine. *N Engl J Med.* 2007;356:2451-2454.
- Sun M, Fernstrom J, Jia W, Hackworth S, Yao N, Li Y, Li C, Fernstrom M, Sclabassi R. A wearable electronic system for objective dietary assessment. *J Am Diet Assoc.* 2010;110:45-47.
- Tsang M, Mok M, Kam G, Jung M, Tang A, Chan U, Chu C, Li I, Chan J. Improvement in diabetes control with a monitoring system based upon a hand-held, touch-screen electronic diary. *J Telemed Telecare.* 2001;7: 47-50.
- Turner PR, Burgin C, Funderburg KM, Van Grevenhof J, Knehans AW. Use of personal digital assistants among dietitians and dietetic students in Oklahoma: should programs incorporate PDA training into their curricula? *J Allied Health.* 2008 Winter;37(4):196-202.
- Woodall W, Buller, D, Saba, L, Zimmerman, D, Waters, E, Hines, J, Cutter, G, Starling. Effect of e-mailed messages on return use of a nutrition education website and subsequent changes in dietary behavior. *J Med Internet Res.* 2007;9(3):E27.
- Yon BA, Johnson RK, Harvey-Berino J, Gold BC, Howard AB. Personal digital assistants are comparable to traditional diaries for dietary self-monitoring during a weight loss program. *J Behav Med.* 2007 Apr;30(2):165-75.

Nutrition Informatics References

Compiled by Elaine Ayres, Lindsey Hoggle & Marty Yadrick
October 2010 Version 2

SOCIAL MEDIA

- Eysenback G, Medicine 2.0: Social Networking, Collaboration, Participation, Apomediation, and Openness. *J Med Internet Res*. 2008; 10: 5-6.
- Graham L. What is Social Networking? And How Do I Get Clued in to LinkedIn? *J Am Diet Assoc*. 2009; 109:184.
- Hess M. Bytes of Life: for every move, mood and bodily function, there's a web site to help you keep track. *The Washington Post* 2008.
<http://www.washingtonpost.com/wpdyn/content/article/2008/09/08/AR2008090802681.html>.
- Sarasohn-Kahn, J. The Wisdom of Patients: Health Care Meets Online Social Media. California Healthcare Foundation. 2008.
- Swan M. Emerging Patient-Driven Health Care Models: An Examination of Health Social Networks, Consumer Personalized Medicine and Quantified Self-Tracking. *Int J Environ Res Public Health*. 2009;6: 492-525.
- Terry M. Twittering Healthcare: Social Media and Medicine. *Telemedicine and e-Health* 2009;15:507-509.

IV. POPULATION HEALTH

COMMUNITY NUTRITION AND PUBLIC HEALTH

- Atkinson NL, Billing AS, Desmond SM, Gold RS, Tournas-Hardt A. Assessment of the nutrition and physical activity education needs of low-income, rural mothers: can technology play a role? *J Community Health*. 2007 Aug;32(4):245-67.
- Bryant O, Van Soni A, Davis P, Segal C. Computerized surveillance of diabetic patient/health care delivery system interfaces. *Diabetes Care* 1978;1: 141-145.
- Eyles H, Jiang Y, Mhurchu. Use of Household Supermarket Sales Data to Estimate Nutrient Intakes: A Comparison with Repeat 24-Hour Dietary Recalls. *J Am Diet Assoc*. 2010; 110: 106-110.
- Fulton JE, Wang X, Yore MM, Carlson SA, Galuska DA, Caspersen CJ.
Television viewing, computer use, and BMI among U.S. children and adolescents.
J Phys Act Health. 2009;6 Suppl 1:S28-35.
- Discher DP, Palmer A, Hibdon G, Drizd TA. Computer-assisted spirometry analysis for the National Health and Nutrition Examination Survey 1971-80. *Vital Health Stat* 2. 1980 Oct;(86):1-48.
- Gareau SE. The development of guidelines for implementing information technology to promote food security. *Ag Hum Values*. 2004; 21:273-285.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

- Hong SM, Kim G. Web expert system for nutrition counseling and menu management. *J Community Nutrition* 2005;7:107–13.
- Houghton, B, George, A. The public health nutrition workforce and its future challenges: the US experience. *Pub Hlth Nutr* 2008;11:782-791.
- Kaplan, LM. Informatics for Integrating the Biology and the Bedside: Phenotypic Stratification of Obesity <https://www.i2b2.org/disease/obesity.html> accessed on February 10, 2010.
- Laraia, B, Dodds, J, Benjamin, S, Jones, S, Carbone, E. Can distance education prepare future public health nutritionists? A case study. *J Nutr Educ Behav* 2008;40:34-38.
- Litjeh Lim J, Yih Y, Gichunge C, Tierney W, Le T, Zhang J, Lawley M, Petersen TJ, Mamlin J. The AMPATH Nutritional Information System: Designing a Food Distribution Electronic Record System in Rural Kenya. *J Am Med Inform Assoc.* 2009;16:882– 888.
- Mark AE, Janssen I. Relationship between screen time and metabolic syndrome in adolescents. *J Public Health (Oxf).* 2008 Jun;30(2):153-60.
- Rifkin R, Lohse B, Bagdonis J, Stotts J. Digital Photo Receivers are a Viable Technology for Nutrition Education of Low-Income Persons. *J Nutr Educ Behav.* 2006;38:326-328.
- Sorensen G, Linnan L, Hunt M. Worksite-based research and initiatives to increase fruit and vegetable consumption. *Prev Med.* 2004;39:94-100.
- Wright JD, Borrud LG, McDowell MA, Wang C, Radimer K, Johnson C J. Nutrition Assessment in the National Health and Examination Survey. *J Am Diet Assoc.* 2007; 107:822-829.

FOOD SUPPLY AND SAFETY SURVEILLANCE

- Hripcsak G, Soulakis N, Morrison F, Lai A, Friedman C, Calman N, Mostashari F. Syndromic Surveillance Using Ambulatory Electronic Health Records. *J Am Med Inform Assoc.* 2009; 16:354-361.
- Jaghab D, Kostner L, Davis E, Halliday A. Using a Distance-Learning Program to Educate Staff on the Joint Commission National Patient Safety Goals. *Joint Commission Journal on Quality and Safety.* 2004. 30:671-675.
- Mann J. HACCP Hands: Hands-On Implementation Manual. Handwashingforlife Web Site. http://www.handwashingforlife.com/hands_on_manual. Accessed February 3, 2010.
- Michael S. Software to predict food dangers. Federal Computer Week. 2003. August 11, 2003.

Nutrition Informatics References

Compiled by *Elaine Ayres, Lindsey Hoggle & Marty Yadrick*
October 2010 Version 2

Porter C. A New Emphasis on Health Care Safety, Quality, and Cost Containment: How Will This Affect Dietetics Practice? *J Am Diet Assoc.* 2004; 104: 1667-1670.

Sneed J, Strohbehm CH. Trends Impacting Food Safety in Retail Foodservice: Implications for Dietetics Practice. *J Am Diet Assoc.* 2008; 108: 1170-1177.

Trepka MJ, Newman FL, Huffman FG, Dixon Z. Food safety education using an interactive multimedia kiosk in a WIC setting: correlates of client satisfaction and practical issues. *J Nutr Educ Behav.* 2010 May-Jun;42(3):202-7.

USDA, Food Safety On-line Resources <http://www.foodsafety.gov> Accessed 2/7/2010

US Food and Drug Administration. Food Defense and Terrorism, ALERT: The Basics. US Food and Drug Administration Center for Food Safety and Applied Nutrition Web site. <http://www.cfsan.fda.gov/~dms/alert.html>. Posted July 17, 2006. Accessed February 10, 2010.

HEALTH INFORMATION EXCHANGE

2009 Survey of Health Information Exchange: Available at <http://www.ehealthinitiative.org/ehealth-initiative-releases-results-2009-survey-health-information-exchange.html>
Accessed February 9, 2010.