

Curriculum Vitae

Roya Sherafat-Kazemzadeh

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Education

February 2005- March 2010	Nutritional Sciences (Ph.D.) Iran University of Medical Sciences Tehran, Iran
December 1993- September 2001	Doctor of Medicine (M.D.) Tehran University of Medical Sciences School of Medicine Tehran, Iran

Professional History

Apr 2015-Present	Senior Research Associate Schneider Institutes for Health Policy Heller School for Social Policy and Management Brandeis University
Aug 2013-Apr 2015	Post-doctoral Associate Schneider Institutes for Health Policy Heller School for Social Policy and Management Brandeis University
July 2011-July 2013	Post-doctoral Visiting Fellow Section on Growth and Obesity Program on Developmental Endocrinology and Genetics National Institutes of Child Health and Human Development National Institutes of Health
April 2010- July 2011	Visiting Scholar Section on Growth and Obesity Program on Developmental Endocrinology and Genetics

National Institutes of Child Health and Human Development
National Institutes of Health

September 2005-
March 2010

Researcher
Nutrition Department
Obesity Research Center
Research Institute for Endocrine Sciences
Shaheed Beheshti University of Medical Sciences
Tehran, Iran

December 2002-
March 2005

Researcher
Bioethics Research Group
Research Center for Gastroenterology and Liver Diseases
Shaheed Beheshti University of Medical Sciences
Tehran, Iran

November 2001-
December 2002

Research Assistant
Research Committee
Deputy of Health
Tehran University of Medical Sciences
Tehran, Iran

Research Experience

Current projects (Brandeis University):

1. **Health care analytical service.** Sponsored by: State of Vermont Department of Financial Regulation.
 - a. **Health service area population profiling -identifying and validating appropriate metrics;** defining hospital service areas based on preference fraction method using administrative data, validating and profiling new combined areas based on service mix and consumer characteristics
 - b. **Determining social determinants of health in the State of Vermont** using health surveys, hospital discharge, and other administrative data
 - c. **Health Spending Growth Drivers in Vermont: Medicaid and Commercial Insured, 2008-2012**

2. **Episode grouper for Medicare.** (PI, Christopher P. Tompkins)
 - a. **Developing medical service specifications for episode construction**
 - b. **Analytic support for validation of grouper software**
 - c. **Development of risk adjustment models for use in the context of the Episodes Grouper for Medicare**

Previous Projects:

1. **Fat Metabolism and Function-Altering Polymorphisms in MC3R.** Section of Growth and Obesity. National Institute of Health. NIH BTB-194892: Bench-to-Bedside Award – NIMHD, (Co-lead Investigator; PI, J Yanovski 2011 – 2013)
2. **Obesity phenotype and leptin resistance in Bardet-Biedl syndrome.** Section of Growth and Obesity. National Institute of Health.
3. Secondary analysis of the **clinical trial of the effects of metformin on body weight in adolescents.** National Institute of Health. (PI, J Yanovski)
4. Secondary analysis of the **clinical trial of the effects of orlistat on body weight in adolescents.** National Institute of Health. (PI, J Yanovski)
5. **Body fat and its relationship with metabolic syndrome indicators in overweight pre-adolescents and adolescents.** (Co-lead Investigator; PI: Parvin Mirmiran, Grant No: E4.30.19. / RC-1016.3 from International Atomic Agency, Nutritional and Health Related Environmental Studies Section 2008-2009).
6. **The prevalence of Metabolic Syndrome and anthropometric and biomarkers of obesity among 10-18 years old children and adolescents in Tehran.** Co-lead Investigator; PI: Parvin Mirmiran, 2005.
7. **Investigating the 6-year Model for Changes in the Components of Metabolic Syndrome among Tehranian Adults Based on Dietary Patterns and Common Genetic Polymorphisms in Adiponectin and Resistin Genes.** (Lead investigator;

co-funding from the Ministry of Health, IRI, and Iran University of Medical Sciences, 2008-2010).

8. **Attitude of Iranian Scholars and theologians towards bioethical considerations of cloning, genetic screening, patent and confidentiality.** Grant No: TSA 03/99 from the Eastern Mediterranean Regional Office of the World Health Organization (Investigator, PI: MohammadReza Zali, 2003).
9. **Knowledge, Attitude and Practice Study of the Reproductive Health among Iranian and Afghan men in South Tehran.** Tehran University of Medical Sciences, Deputy of Health, (Investigator, PI: HamidReza Sadeghipour, 2001).
10. **Expansion of Client Oriented Monitoring Tools in all health services at district level.** Grant No: 2000/008 from the United Nations Children's Fund (Investigator, PI: Reza Madjzadeh, 2001).

Publications

1. Ejtahed HS, Asghari G, Mirmiran P, Hosseinpour-Niazi S, **Sherafat-Kazemzadeh R**, Azizi F. Body mass index as a measure of percentage body fat prediction and excess adiposity diagnosis among Iranian adolescents. *Arch Iran Med.* 2014; 17(6): 400-5.
2. **Sherafat-Kazemzadeh R**, Ivey L, Kahn SR, Hicks MD, Kim RC, Sapp JC, Biesecker LG, Han JC, Yanovski JA. Hyperphagia in Patients with Bardet-Biedl Syndrome. *Pediatr Obes.* 2013; 8 (5): e64-7.
3. **Sherafat-Kazemzadeh R**, Yanovski SZ, Yanovski JA. Pharmacotherapy for childhood obesity: present and future prospects. *Int J Obes (Lond).* 2012 Aug 28.
4. **Sherafat-Kazemzadeh R**, Egtesadi S, Gohari M, Mirmiran P, Jalali Farahani S, Hosseini Esfahani F, Vafa MR, Azizi F. Dietary Patterns by Reduced Rank Regression Predicting Changes in Obesity indices in a Cohort Study: Tehran Lipid and Glucose Study. *Asian Pacific Journal of Clinical Nutrition* 2010; 19 (1): 22-32.
5. Mirmiran P, **Sherafat-Kazemzadeh R**, Jalali Farahani S, Asghari G, Niroomand M, Momenan AA, Azizi F. Performance of Different Definitions of Metabolic Syndrome for Children and Adolescents in a 6-Year Follow-up: Tehran Lipid and Glucose Study (TLGS). *Diabetes Research and Clinical Practice* 2010; 89(3): 327-33.
6. Mirmiran P, **Sherafat-Kazemzadeh R**, Azizi F. Childhood obesity in the Middle East: a review. *Eastern Mediterranean Health Journal* 2010; 16 (9): 812-20.

7. Shidfar F, Keshvar Doust N, Hosseini S, Safavi M, **Sherafat Kazemzadeh R**. Comparison Of Serum Vitamin C And Calcium Between Preeclamptic And Normotensive Pregnant Women. *Journal of Isfahan Medical School* 2007; 25(Suppl. 9):22-28.
8. Saniei M, Mehr EJ, Shahraz S, Zahedi LN, Rad AM, Sayar S, **Sherafat Kazemzade R**, Shekarchi A, Zali MR. Prenatal screening and counseling in Iran and ethical dilemmas. *Community Genet* 2008; 11(5): 267-72.
9. Azizi F, Mirmiran P, **Sherafat-Kazemzadeh R**. Pediatric obesity: an impending catastrophe. *Arch Iranian Med* 2008; 11 (2): 242 – 245.
10. Sadeghipour Roudsari HR, **Sherafat-Kazemzadeh R**, Rezaeie M, Derakhshan M. An Assessment of Men's Knowledge, Attitude and Practice of Reproductive Health in South Tehran. *Eastern Mediterranean Health Journal* 2006; 12(2): 863-74.
11. **Sherafat-Kazemzadeh R**, Shahraz S, Mohaghegh Shalmani H, Ghaziani T, Faghahati L, Zali MR. Iranian Persons Living with HIV/AIDS Unveil the Epidemic of Stigma (An Overview of patients' Attitudes towards the Disease and community in First GIPA Gathering in Tehran). *Archives of Iranian medicine* 2003; 6(2):77-80.
12. Sadeghipour Roudsari HR, **Sherafat-Kazemzadeh R**, Sendi H, Rezaeie R, Derakhshan M, Zonoobian V, Hoseini N. Assessment of Urine Iodine in School Children from Urban and Rural Areas of Tehran. *Pakistan Journal of Medical sciences* 2004; 20: 131-136.
13. Shahraz S, **Sherafat-Kazemzadeh R**, Zali MR. The Boundaries of Health system: A Proposed Model. *Archives of Iranian Medicine* 2003; 6(4): 243-250.
14. **Sherafat-Kazemzadeh R**, Shahraz S. Ethical Analysis in Public Health. *Archives of Iranian Medicine* 2003; 6(4): 318-320.

Presentations

1. **Sherafat-Kazemzadeh R**, Shahraz S, Londhe SA. Do hospitals discriminate against uninsured for major cardiac procedures? Evidence from Nationwide Inpatient Sample. *Academy Health Annual Meeting, San Diego, June 2014*
2. Okai LA, **Sherafat-Kazemzadeh R**, Adeyemo M, McDuffie JR, Krause A, Brady S, Condarco T, Demidowich A, Yanovski JA. Adolescents with Melanocortin 3 Receptor (MC3R) 17C>A+241G>A Genotype Have High Ratings for Fatty Foods that Suggest a Mechanism for their Greater Adiposity. *Pediatric Academic Societies 2014, Vancouver, Canada*

3. Condarco TA, **Sherafat-Kazemzadeh R**, McDuffie JR, Brady SM, Salaita C, Sebring NG, Tanofsky-Kraff M, Young-Hyman D, Yanoff LB, Keil M, Savastano DM, Shomaker LB, Adler-Wailes DC, Reynolds J, Hubbard VS, Calis KA, Yanovski JA. Long-Term Follow-up of a Randomized, Placebo-Controlled Trial of Orlistat in African-American and Caucasian Adolescents with Obesity-Related Comorbid Conditions. Endocrine Society Meeting, San Francisco, June 2013.
4. **Sherafat-Kazemzadeh R**, Ivey L, Kahn S, Sapp JC, Hicks MD, Kim RC, Biesecker LG, Han JC, Yanovski JA. Hyperphagia in patients with Bardet Biedl syndrome. Hyperphagia Conference, Baton Rouge, LA, October 17-20 2012.
5. Hicks MD, Marshall JD, Maffei P, Hanish AE, Hunter LA, Brady SM, Sedaka NM, **Sherafat-Kazemzadeh R**, Tsao JW, Milan G, Naggert J, Yanovski JA, Han JC. Hyperphagia, leptin, and brain-derived neurotrophic factor in subjects with Alström syndrome and BMI-Z matched controls. Accepted for American Society of Human Genetics Annual Meeting in San Francisco, CA. November 6-10, 2012 (POSTER).
6. **Sherafat-Kazemzadeh R**, Biesecker LG, Yanovski JA. Targeted Pharmacotherapy for the Leptin Resistance of Bardet-Biedl Syndrome. Workshop on Rare Syndromic Body Fat Disorders: What Can They Teach Us? National Institutes of Health Campus, Bethesda, Maryland. March 1-2, 2012.
7. **Sherafat-Kazemzadeh R**, Targeted Pharmacotherapy for the Leptin Resistance of Bardet-Biedl Syndrome. Diabetes and Metabolism Interest Group. National Institutes of Diabetes and Digestive and Kidney Diseases, NIH campus January 2012.
8. **Sherafat-Kazemzadeh R**, Targeted Pharmacotherapy for the Leptin Resistance of Bardet-Biedl Syndrome. Program in Developmental Endocrinology and Genetics Friday morning conferences. National Institutes of Child Health and Human Development, NIH. December 2011.
9. **Sherafat-Kazemzadeh R**, Ali AH, Cushman SW, Yanovski JA. Function-Altering Polymorphisms in MC3R and Fat Metabolism. NICHD fellows retreat May 2012 (poster).
10. **Sherafat-Kazemzadeh R**, Han JC, DellaValle D, Courville A, Biesecker LG, Yanovski JA. Targeted Pharmacotherapy for the Leptin Resistance of Bardet-Biedl Syndrome. NICHD fellows retreat May 2011 (poster).
11. **Sherafat-Kazemzadeh R**, Egtesadi S, Gohari M, Mirmiran P, Jalali Farahani S, Hosseini Esfahani F, Vafa MR, Azizi F. Investigating the 6-year Model for Changes in the Components of Metabolic Syndrome among Tehranian Adults Based on Dietary Patterns and Common Genetic Polymorphisms in Adiponectin and Resistin Genes. 6th International Congress of Pathophysiology (Gene-environment interaction in health and disease). Montreal, Canada. 22 th - 25 th September 2010.

12. Mirmiran P, **Sherafat-Kazemzadeh R**, Jalali Farahani S, Hosseini Esfahani F, Azizi F. Contribution of Dietary Patterns in Variation of Cardiovascular Risk Factors among 10-18 Year Old Adolescents: Tehran Lipid and Glucose Study. Symposium on Lipids in Children. Obesity, Familial Hypercholesterolemia. Vienna, Austria. 28th-29th November 2008.
13. Rambod M, **Sherafat-Kazemzadeh R**, Noori N, Hosseinpanah F. Are CKD Individuals Based on Modification of Diet in Renal Disease or Cockcroft-Gault Equations Different in Terms of Cardiometabolic Risk? Results from Tehran Lipid and Glucose Study (TLGS). XIV International Congress on Nutrition and Metabolism in Renal Diseases, Marseille, France. 11th-15th June 2008. (POSTER)
14. **Sherafat-Kazemzadeh R**, Rambod M, Nassiri AA, Hosseinpanah F. Different Performance of the Cockcroft-Gault and Modification of Diet in Renal Disease Equations in Estimating GFR across Spectrum of Body Mass Index: Tehran Lipid and Glucose Study. XIV International Congress on Nutrition and Metabolism in Renal Diseases, Marseille, France. 11th-15th June 2008.
15. Mirmiran P, **Sherafat-Kazemzadeh R**, Saadati N, Azizi F. Utility of the Modified ATP III Definition of the Metabolic Syndrome for prediction of Cardiovascular Risks in Tehranian Adolescents in a 3-Year Follow-up: Tehran Lipid and Glucose Study (TLGS). 16th European Congress on Obesity, Geneva, Switzerland. 14th-17th May 2008.
16. **Sherafat-Kazemzadeh R**, Mirmiran P, Azizi F. Comparison of five different definitions of metabolic syndrome in Tehranian adolescents: Tehran Lipid and Glucose Study. 14th Congress of ASEAN Federation of Endocrine Societies, Kuala Lumpur, Malaysia. 29th November-2nd December 2007.
17. Mirmiran P, **Sherafat-Kazemzadeh R**, Azizi F. Prevalence of Childhood Overweight and Obesity in the Middle East. 4th Asia-Oceania Conference on Obesity, Seoul, Korea. 9-11th February 2007. (POSTER)
18. Saniei M, Zahedi LN, Shahraz S, Jafarimehr E, Melati-Rad A, **Sherafat-Kazemzadeh R**, Sayar S, Shekarchi A, Zali MR. Biotechnology and intellectual property rights: bioethical aspects of biomedical and theological scientists in Iran. Global Forum for Health Research. Cairo 2006. (POSTER)
19. Melati-Rad A, Shahraz S, Saniee M, Zahedi L, **Sherafat-Kazemzadeh R**, Zali MR. Attitudes of Iranian professionals towards human cloning. International Congress of Bioethics (UNESCO-NIGEB). Tehran 2005.
20. Saniee M, Zahedi L, Shahraz S, Melati-Rad A, **Sherafat-Kazemzadeh R**, Jafarimehr E, Sayar S, Zali MR. Biotechnology & Intellectual Property Rights: The Aspects in the World and Iran at a Glance. International Congress of Bioethics (UNESCO-NIGEB). Tehran 2005.

21. Zahedi L, Melati-Rad A, Saniee M, **Sherafat-Kazemzadeh R**, Jafarimehr E, Shahraz S, Zali MR. Ethical Considerations on Genetic Tests. International Congress of Bioethics, (UNESCO-NIGEB). 2005 (in Persian).
22. Zahedi L, Melati-Rad A, Saniee M, **Sherafat-Kazemzadeh R**, Jafarimehr E, Shahraz S, Zali MR. Relinquish the Life Sustaining Supporting Measures: Right or Wrong. International Congress of Bioethics, (UNESCO-NIGEB). 2005 (in Persian).
23. Zali MR, Noori Nayer B, Shahraz S, **Sherafat R**, Mohammad K, Noorbala M, Mohraz M. Rate of HBS AG positivity in Iran following hepatitis B mass vaccination. 38th Annual Meeting of the European Association for the Study of the Liver, Geneva, Switzerland, 3-6 July, 2003. Published in: J Hepatol 2003; 38 (Suppl. 2): 184.
24. **Sherafat-Kazemzadeh R**, Shahraz S, Mohaghegh H, Noorinayer B, Ansari Sh, Ghaziani M, Ghotbi H, Mohagheghi MA, Mousavi-Jarrahi A, Gooya MM, Moghaddam J, Zali MR. Primary Liver Cancer in Iran; an overview on nationwide data registry from 1986 to 1996. 14th Iranian Internal Medicine Congress. Tehran 2003.
25. Shahraz S, **Sherafat-Kazemzadeh R**, Mohaghegh H, Noorinayer B, Ansari Sh, Ghaziani M, Ghotbi H, Mohagheghi MA, Mousavi-Jarrahi A, Gooya MM, Moghaddam J, Zali MR. Gastric Cancer in Iran; an overview on nationwide data registry from 1986 to 1996. 14th Iranian Internal Medicine Congress. Tehran 2003.
26. Mohaghegh H, Shahraz S, **Sherafat-Kazemzadeh R**, Noorinayer B, Ansari Sh, Ghaziani M, Ghotbi H, Mohagheghi MA, Mousavi-Jarrahi A, Gooya MM, Moghaddam J, Zali MR. Pancreatic Cancer in Iran; an overview on nationwide data registry from 1986 to 1996. 14th Iranian Internal Medicine Congress. Tehran 2003.
27. Shahraz S, **Sherafat-Kazemzadeh R**, Mohaghegh H, Noorinayer B, Samavat A, Asgari F, Mohagheghi MA, Mousavi-Jarrahi A, Ansari Sh, Ghaziani M, Moghaddam J, Zali MR. Gastrointestinal Cancers in Iran; epidemiologic data from 5 most common GI cancers. 1st From Bed to Bench in Gastrointestinal and Hepatic Diseases Congress. Tehran 2003.
28. Shahraz S, **Sherafat-Kazemzadeh R**, Saniei M, Zahedi LN, Jafari Mehr E, Melati Rad A. Ethics in Medical Research. 1st From Bed to Bench in Gastrointestinal and Hepatic Diseases Congress. Tehran 2003.

Future Publications (preparation stage)

1. Krause AJ, Cines B, Pogrebniak E, Sherafat-Kazemzadeh R, Demidowich AP, Galescu OA, Brady SM, Reynolds JC, Hubbard VS, Yanovski JA. Associations

between adiposity and indicators of thyroid status in children and adolescents.
(SUBMITTED TO: Obes Res)

2. Sedaka NM, Olsen C, Yannai L, Stutzman W, Krause AJ, **Sherafat-Kazemzadeh R**, Condarco T, Brady S, Demidowich A, Reynolds J, Yanovski SZ, Hubbard VS, Yanovski JA. A longitudinal study of serum insulin concentrations and insulin resistance as predictors of weight and body fat gain in African American and Caucasian children. (SUBMITTED TO: JCEM)
3. **Sherafat-Kazemzadeh R**, Shahraz S, Londhe SA. Do hospitals discriminate against uninsured for major cardiac procedures? Evidence from Nationwide Inpatient Sample. (PAPER IN PREPARATION FOR: Health Affairs)
4. Lee B, Koo J, Gavrilova O, Lee Y, Adler-Wailes DC, Chen F, Gardner R, Taylor-Douglas D, Koutzoumis D, **Sherafat-Kazemzadeh R**, Roberson R, Yanovski JA. A mouse model for a partially-inactive, obesity-associated human MC3R variant. (IN PREPARATION FOR: Journal of Clinical Investigation)
5. Trans-fatty acids in food; policy and outcome. (IN PREPARATION FOR: Archives of Iranian Medicine)
6. Sugar sweetened beverages: facts, fiction and policy practice. (IN PREPARATION FOR: Archives of Iranian Medicine)

Teaching Experience

1. Lecturer for Sport Nutrition Course for Master of Science students in Sport Medicine. Iran University of Medical Sciences, Tehran, Iran. Spring 2007.
2. Lecturer for Clinical Nutrition Workshop for General Practitioners. Iranian Medical Council, Tehran, Iran. Spring 2007.
3. Lecturer for Cardiovascular Nutrition Workshop for dietitians at Iran University of Medical Sciences, Tehran, Iran. Winter 2007.
4. Lecturer for Clinical Nutrition Course for Master of Science students in Nursing. Iran University of Medical Sciences, Tehran, Iran. Winter 2006.
5. Chemoprevention of cancer; Sulforaphane. Seminars in Nutrition Series. Iran University of Medical Sciences 2006.
6. Lipid peroxidation in pathogenesis of atherosclerosis. Seminars in Nutrition Series. Iran University of Medical Sciences 2005.

Awards and Certificates

1. Travel Award to the 2nd Hyperphagia Conference. Baton Rouge, LA, **2012**.
2. Clinical Research Curriculum Certificate, NIH, **2011**.
3. Iran University of Medical Sciences, Distinguished Researcher Award, Research Festival **2009**.
4. Iranian Medical Council License, **2001**.
5. Ranked 38th among 300,000 participants in Iran's nationwide university entrance exam, **1995**.
6. Honor certificate in the 1st National Olympiad of Computer Science, Tehran, Iran **1994**.

Areas of Expertise

Population studies, Social Science and Health Policy

Population-Based Study Design, Healthcare datasets, Questionnaire design, and validation, Claims-based data analytics, Sensitivity and Specificity Analysis, population profiling, preference fraction in healthcare market analysis, outcome measures, Comorbidity Index (Elixhauser), Episode of Care

Quantitative Skills, Biostatistics and Epidemiology

Clinical Trial, Cohort and Case-Control Methodology, Study Design, Power and Sample Size Calculation, Randomization and Matching Techniques, Descriptive Analyses, Student t-test, χ^2 test, ANOVA, ANCOVA, Repeated Measures, Mann-Whitney, Kruskal-Wallis, McNemar, Bivariate and Partial Correlations, Linear Regression, Logistic Regression, Multivariate Regression, Hierarchical Linear Model, Kappa statistic, Bland-Altman - agreement- Plot, data reduction techniques (Factor Analysis, Reduced-Rank Regression, Latent Class Analysis), Propensity Score Matching, use of Instrumental Variables, Imputation techniques (multiple imputation), missing data analysis, secondary analysis of clinical interventions, Ethics of biomedical research on human subjects and animal studies, IRB application, FDA IND application, Systematic Reviews

Statistical Softwares

SAS –intermediate
STATA –advanced
SPSS –advanced

Professional Affiliation

Academy Health-2014

Scientific Association for Public Health in Iran (SAPHIR) fellowship-2013

The Obesity Society-2011

Iranian Nutrition Society-2009

Iranian Medical Council-2002