

# Stanford

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## Sun Kim

Associate Professor of Medicine (Endocrinology) at the Stanford University Medical Center

Medicine - Endocrinology, Gerontology, & Metabolism

### CLINICAL OFFICES

- **Medical Specialties Clinic**

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### ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Jane Lhermine - Administrative Associate

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### Bio

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#### BIO

Sun Kim, MD MS, is a board-certified endocrinologist who specializes in the treatment of type 2 diabetes, polycystic ovarian syndrome (PCOS), and obesity. She is particularly devoted to helping individuals change their lifestyles and achieve sustained improvements in their health.

Dr. Kim also works closely with the reproductive endocrinology group to help women improve their health, lose weight, and maximize their chances for a successful pregnancy.

Dr. Kim also conducts research to better understand risk factors for diabetes and to develop better treatments for diabetes.

#### CLINICAL FOCUS

- Endocrinology
- Type 2 Diabetes Mellitus
- Obesity
- Diabetes and Metabolism
- Polycystic Ovarian Syndrome

#### ACADEMIC APPOINTMENTS

- Associate Professor - Med Center Line, Medicine - Endocrinology, Gerontology, & Metabolism

#### ADMINISTRATIVE APPOINTMENTS

- Member, Stanford Diabetes Research Center, (2017- present)

#### HONORS AND AWARDS

- Career Development Award, NIH/NIMH (2007)

## PROFESSIONAL EDUCATION

- Medical Education: UC San Diego Office of the Registrar (1998) CA
- Board Certification: Endocrinology, Diabetes and Metabolism, American Board of Internal Medicine (2006)
- Fellowship: Stanford University Medical Center (2007) CA
- Residency: University of Texas Southwestern Medical Center (2001) TX
- M.S., Stanford University , Epidemiology (2007)
- M.D., U.C. San Diego , Medicine (1998)
- B.A., Stanford University , Psychology (1993)

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

We are interested in studying the pathophysiological processes that contribute to glucose intolerance and type 2 diabetes mellitus. My current research focuses on characterizing pancreatic beta-cell function in populations with significant insulin resistance and vulnerability to developing diabetes: individuals with schizophrenia, morbid obesity, and history of gestational diabetes.

### CLINICAL TRIALS

- Contrasting Ketogenic and Mediterranean Diets in Individuals With Type 2 Diabetes and Prediabetes: The Keto-Med Trial, Recruiting
- Continuous Glucose Monitoring to Aid Weight Loss in Prediabetes, Not Recruiting
- Efficacy of a Structured Weight Loss Program in Overweight Women With a History of Recurrent Pregnancy Loss, Not Recruiting
- Vitamin D and Type 2 Diabetes Study, Not Recruiting

## Teaching

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### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Medicine (Masters Program)

## Publications

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### PUBLICATIONS

- **Antidiabetic medication use in patients with type 2 diabetes and chronic kidney disease** *JOURNAL OF DIABETES AND ITS COMPLICATIONS*  
Rhee, J. J., Han, J., Montez-Rath, M. E., Kim, S. H., Cullen, M. R., Stafford, R. S., Winkelmayr, W. C., Chertow, G. M.  
2019; 33 (11)
- **Longitudinal changes in left ventricular structure and function in patients with type 2 diabetes: Normal weight versus overweight/obesity** *DIABETES & VASCULAR DISEASE RESEARCH*  
Kim, S., Sung, K., Lee, S., Park, J., Kim, N., Kim, S. H., Shin, C.  
2019; 16 (5): 450–57
- **Natural course of fatty liver in 36,195 South Korean adults.** *Scientific reports*  
Sung, K., Lee, M., Lee, J., Lee, S., Kim, Y., Song, W., Huh, J., Park, J., Shin, J., Seo, M. H., Kim, S., Kim, S. H.  
2019; 9 (1): 9062
- **Trends in overall, cardiovascular and cancer-related mortality among individuals with diabetes reported on death certificates in the United States between 2007 and 2017** *DIABETOLOGIA*  
Kim, D., Li, A. A., Cholanteril, G., Kim, S. H., Ingelsson, E., Knowles, J. W., Harrington, R. A., Ahmed, A.  
2019; 62 (7): 1185–94
- **Canagliflozin and Renal Outcomes in Type 2 Diabetes and Nephropathy** *NEW ENGLAND JOURNAL OF MEDICINE*

- Perkovic, V., Jardine, M. J., Neal, B., Bompoint, S., Heerspink, H. L., Charytan, D. M., Edwards, R., Agarwal, R., Bakris, G., Bull, S., Cannon, C. P., Capuano, G., Chu, et al  
2019; 380 (24): 2295–2306
- **Trends in overall, cardiovascular and cancer-related mortality among individuals with diabetes reported on death certificates in the United States between 2007 and 2017.** *Diabetologia*  
Kim, D., Li, A. A., Cholanteril, G., Kim, S. H., Ingelsson, E., Knowles, J. W., Harrington, R. A., Ahmed, A.  
2019
  - **Utility of ALT Concentration in Men and Women with Nonalcoholic Fatty Liver Disease: Cohort Study.** *Journal of clinical medicine*  
Sung, K., Lee, M., Lee, J., Lee, S., Kim, S., Kim, S. H.  
2019; 8 (4)
  - **Impact of race/ethnicity on insulin resistance and hypertriglyceridaemia** *DIABETES & VASCULAR DISEASE RESEARCH*  
Raygor, V., Abbasi, F., Lazzeroni, L. C., Kim, S., Ingelsson, E., Reaven, G. M., Knowles, J. W.  
2019; 16 (2): 153–59
  - **Myths about Insulin Resistance: Tribute to Gerald Reaven.** *Endocrinology and metabolism (Seoul, Korea)*  
Kim, S. H., Abbasi, F.  
2019; 34 (1): 47–52
  - **Myths about Insulin Resistance: Tribute to Gerald Reaven** *ENDOCRINOLOGY AND METABOLISM*  
Kim, S. H., Abbasi, F.  
2019; 34 (1): 47–52
  - **Vitamin D Supplementation and Prevention of Type 2 Diabetes.** *The New England journal of medicine*  
Pittas, A. G., Dawson-Hughes, B., Sheehan, P., Ware, J. H., Knowler, W. C., Aroda, V. R., Brodsky, I., Ceglia, L., Chadha, C., Chatterjee, R., Desouza, C., Dolor, R., Foreyt, et al  
2019
  - **Antidiabetic medication use in patients with type 2 diabetes and chronic kidney disease.** *Journal of diabetes and its complications*  
Rhee, J. J., Han, J., Montez-Rath, M. E., Kim, S. H., Cullen, M. R., Stafford, R. S., Winkelmayer, W. C., Chertow, G. M.  
2019: 107423
  - **Longitudinal changes in left ventricular structure and function in patients with type 2 diabetes: Normal weight versus overweight/obesity.** *Diabetes & vascular disease research*  
Kim, S. H., Sung, K. C., Lee, S. K., Park, J., Kim, N. H., Kim, S. H., Shin, C.  
2019: 1479164119843760
  - **Increasing Mortality Among Patients With Diabetes and Chronic Liver Disease From 2007 Through 2017.** *Clinical gastroenterology and hepatology : the official clinical practice journal of the American Gastroenterological Association*  
Kim, D., Cholanteril, G., Kim, S. H., Abbasi, F., Knowles, J. W., Ahmed, A.  
2019
  - **Baseline Characteristics of the Vitamin D and Type 2 Diabetes (D2d) Study: A Contemporary Prediabetes Cohort That Will Inform Diabetes Prevention Efforts** *DIABETES CARE*  
LeBlanc, E. S., Pratley, R. E., Dawson-Hughes, B., Staten, M. A., Sheehan, P. R., Lewis, M. R., Peters, A., Kim, S. H., Chatterjee, R., Aroda, V. R., Chadha, C., Neff, L. M., Brodsky, et al  
2018; 41 (8): 1590–99
  - **Racial Differences in Insulin Resistance, Secretion, and Clearance**  
Kim, S. H.  
AMER DIABETES ASSOC.2018
  - **Adapting to insulin resistance in obesity: role of insulin secretion and clearance** *DIABETOLOGIA*  
Jung, S., Jung, C., Reaven, G. M., Kim, S. H.  
2018; 61 (3): 681–87
  - **Inflammation in the Prediction of Type 2 Diabetes and Hypertension in Healthy Adults** *ARCHIVES OF MEDICAL RESEARCH*  
Sung, K., Ryu, S., Sung, J., Kim, Y., Won, Y., Cho, D., Kim, S. H., Liu, A.  
2017; 48 (6): 535–45

- **Adapting to Insulin Resistance in Obesity: Role of Insulin Secretion and Clearance**  
Kim, S. H., Reaven, G. M.  
AMER DIABETES ASSOC.2017: LB75
- **Relationship among age, insulin resistance, and blood pressure.** *Journal of the American Society of Hypertension*  
Jung, C., Jung, S. H., Lee, B., Rosenberg, M., Reaven, G. M., Kim, S. H.  
2017
- **Dissecting the relationship between obesity and hyperinsulinemia: Role of insulin secretion and insulin clearance.** *Obesity*  
Kim, M. K., Reaven, G. M., Kim, S. H.  
2017; 25 (2): 378-383
- **Effect of Pioglitazone on Cardiometabolic Risk in Patients With Obstructive Sleep Apnea.** *American journal of cardiology*  
Liu, A., Abbasi, F., Kim, S. H., Ariel, D., Lamendola, C., Cardell, J., Xu, S., Patel, S., Tomasso, V., Mojaddidi, H., Grove, K., Tsao, P. S., Kushida, et al  
2017
- **Insulin clearance: an underappreciated modulator of plasma insulin concentration.** *Journal of investigative medicine*  
Kim, S. H., Reaven, G. M.  
2016; 64 (7): 1162-1165
- **Does enhanced insulin sensitivity improve sleep measures in patients with obstructive sleep apnea: a randomized, placebo-controlled pilot study.** *Sleep medicine*  
Liu, A., Kim, S. H., Ariel, D., Abbasi, F., Lamendola, C., Cardell, J., Xu, S., Patel, S., Tomasso, V., Mojaddidi, H., Grove, K., Tsao, P. S., Kushida, et al  
2016; 22: 57-60
- **Cardiometabolic Effects of Glucagon-Like Peptide-1 Agonists.** *Current atherosclerosis reports*  
Sarraf, A., Kim, S. H., Knowles, J. W.  
2016; 18 (2): 7-?
- **Second-Line Agents for the Treatment of Type 2 Diabetes and Prevention of CKD.** *Clinical journal of the American Society of Nephrology : CJASN*  
Yu, M. K., Kim, S. H.  
2016; 11 (12): 2104-6
- **Hyperinsulinemia in Individuals with Obesity: Role of Insulin Clearance** *OBSITY*  
Kim, M. K., Reaven, G. M., Chen, Y. I., Kim, E., Kim, S. H.  
2015; 23 (12): 2430-2434
- **Comparison of the association with sleep apnoea of obesity versus insulin resistance** *EUROPEAN RESPIRATORY JOURNAL*  
Liu, A., Ariel, D., Lamendola, C., Kim, S. H., Abbasi, F., Cardell, J., Tomasso, V., Mojaddidi, H., Grove, K., Kushida, C. A., Reaven, G. M.  
2015; 46 (6): 1829-32
- **Salsalate-induced changes in lipid, lipoprotein, and apoprotein concentrations in overweight or obese, insulin-resistant, nondiabetic individuals.** *Journal of clinical lipidology*  
Ariel, D., Kim, S. H., Liu, A., Abbasi, F., Lamendola, C. A., Grove, K., Tomasso, V., Reaven, G. M.  
2015; 9 (5): 658-663
- **Salsalate-induced changes in lipid, lipoprotein, and apoprotein concentrations in overweight or obese, insulin-resistant, nondiabetic individuals.** *Journal of clinical lipidology*  
Ariel, D., Kim, S. H., Liu, A., Abbasi, F., Lamendola, C. A., Grove, K., Tomasso, V., Reaven, G. M.  
2015; 9 (5): 658-663
- **Increased body mass index negatively impacts blastocyst formation rate in normal responders undergoing in vitro fertilization** *JOURNAL OF ASSISTED REPRODUCTION AND GENETICS*  
Comstock, I. A., Kim, S., Behr, B., Lathi, R. B.  
2015; 32 (9): 1299-1304
- **Usefulness of Fetuin-A to Predict Risk for Cardiovascular Disease Among Patients With Obstructive Sleep Apnea.** *American journal of cardiology*  
Liu, A., Lamendola, C., Ariel, D., Abbasi, F., Kim, S. H., Cardell, J., Tomasso, V., Xu, S., Patel, S., Mojaddidi, H., Grove, K., Kushida, C. A., Reaven, et al  
2015; 116 (2): 219-224

- **Abnormalities of lipoprotein concentrations in obstructive sleep apnea are related to insulin resistance.** *Sleep*  
Liu, A., Cardell, J., Ariel, D., Lamendola, C., Abbasi, F., Kim, S. H., Holmes, T. H., Tomasso, V., Mojaddidi, H., Grove, K., Kushida, C. A., Reaven, G. M.  
2015; 38 (5): 793-799
- **Abnormalities of Lipoprotein Concentrations in Obstructive Sleep Apnea Are Related to Insulin Resistance** *SLEEP*  
Liu, A., Cardell, J., Ariel, D., Lamendola, C., Abbasi, F., Kim, S. H., Holmes, T. H., Tomasso, V., Mojaddidi, H., Grove, K., Kushida, C. A., Reaven, G. M.  
2015; 38 (5): 793-?
- **Relationship between insulin resistance and amino acids in women and men.** *Physiological reports*  
Seibert, R., Abbasi, F., Hantash, F. M., Caulfield, M. P., Reaven, G., Kim, S. H.  
2015; 3 (5)
- **Hyperinsulinemia in individuals with obesity: Role of insulin clearance.** *Obesity (Silver Spring, Md.)*  
Kim, M. K., Reaven, G. M., Chen, Y. I., Kim, E., Kim, S. H.  
2015; 23 (12): 2430-34
- **Effect of Salsalate on Insulin Action, Secretion, and Clearance in Nondiabetic, Insulin-Resistant Individuals: A Randomized, Placebo-Controlled Study** *DIABETES CARE*  
Kim, S. H., Liu, A., Ariel, D., Abbasi, F., Lamendola, C., Grove, K., Tomasso, V., Ochoa, H., Reaven, G.  
2014; 37 (7): 1944-1950
- **Effect of salsalate on insulin action, secretion, and clearance in nondiabetic, insulin-resistant individuals: a randomized, placebo-controlled study.** *Diabetes care*  
Kim, S. H., Liu, A., Ariel, D., Abbasi, F., Lamendola, C., Grove, K., Tomasso, V., Ochoa, H., Reaven, G.  
2014; 37 (7): 1944-1950
- **C-reactive protein and risk of cardiovascular and all-cause mortality in 268 803 East Asians** *EUROPEAN HEART JOURNAL*  
Sung, K., Ryu, S., Chang, Y., Byrne, C. D., Kim, S. H.  
2014; 35 (27): 1809-1816
- **Ability of the plasma concentration ratio of triglyceride/high-density lipoprotein cholesterol to identify increased cardio-metabolic risk in an east Asian population** *DIABETES RESEARCH AND CLINICAL PRACTICE*  
Sung, K., Reaven, G., Kim, S.  
2014; 105 (1): 96-101
- **Sex Differences Modulate Relationships among Obesity, Insulin Resistance, and Obstructive Sleep Apnea**  
Liu, A., Cardell, J., Ariel, D., Lamendola, C., Abbasi, F., Kim, S. H., Tomasso, V., Mojaddidi, H., Grove, K., Kushida, C., Reaven, G. M.  
AMER DIABETES ASSOC.2014: A446
- **Effect of Salsalate on Insulin Action, Secretion, and Clearance in Non-Diabetic, Insulin-Resistant Individuals: A Randomized, Placebo-Controlled Study**  
Kim, S., Liu, A., Ariel, D., Abbasi, F., Lamendola, C., Grove, K., Tomasso, V., Ochoa, H., Reaven, G. M.  
AMER DIABETES ASSOC.2014: A32
- **A retrospective cohort study to evaluate the impact of meaningful weight loss on fertility outcomes in an overweight population with infertility** *FERTILITY AND STERILITY*  
Kort, J. D., Winget, C., Kim, S. H., Lathi, R. B.  
2014; 101 (5): 1400-1403
- **Pancreatic beta cell function following liraglutide-augmented weight loss in individuals with prediabetes: analysis of a randomised, placebo-controlled study.** *Diabetologia*  
Kim, S. H., Liu, A., Ariel, D., Abbasi, F., Lamendola, C., Grove, K., Tomasso, V., Reaven, G.  
2014; 57 (3): 455-462
- **Sex differences in insulin resistance and cardiovascular disease risk.** *journal of clinical endocrinology and metabolism*  
Kim, S. H., Reaven, G.  
2013; 98 (11): E1716-21
- **Benefits of liraglutide treatment in overweight and obese older individuals with prediabetes.** *Diabetes care*  
Kim, S. H., Abbasi, F., Lamendola, C., Liu, A., Ariel, D., Schaaf, P., Grove, K., Tomasso, V., Ochoa, H., Liu, Y. V., Chen, Y. I., Reaven, G.  
2013; 36 (10): 3276-3282

- **Beyond fasting plasma glucose: The association between coronary heart disease risk and postprandial glucose, postprandial insulin and insulin resistance in healthy, nondiabetic adults.** *Metabolism: clinical and experimental*  
Bhat, S. L., Abbasi, F. A., Blasey, C., Reaven, G. M., Kim, S. H.  
2013; 62 (9): 1223-1226
- **Liraglutide for Overweight, Older Individuals With Prediabetes**  
Kim, S., Abbasi, F., Lamendola, C., Liu, A., Ariel, D., Schaaf, P., Grove, K., Reaven, G.  
AMER DIABETES ASSOC.2013: A260
- **Relationship between Insulin Resistance and Coronary Artery Calcium in Young Men and Women** *PLOS ONE*  
Sung, K., Choi, J., Gwon, H., Choi, S., Kim, B., Kwag, H. J., Kim, S. H.  
2013; 8 (1)
- **Metabolic syndrome, insulin resistance and kidney function in non-diabetic individuals** *NEPHROLOGY DIALYSIS TRANSPLANTATION*  
Johns, B. R., Pao, A. C., Kim, S. H.  
2012; 27 (4): 1410-1415
- **Measurement of insulin action: a tribute to Sir Harold Himsworth** *DIABETIC MEDICINE*  
Kim, S. H.  
2011; 28 (12): 1487-1493
- **Plasma glucose and insulin responses to mixed meals: Impaired fasting glucose re-visited** *DIABETES & VASCULAR DISEASE RESEARCH*  
BHAT, S. L., Abbasi, F., Blasey, C., Reaven, G. M., Kim, S. H.  
2011; 8 (4): 271-275
- **Interrelationship between Fatty Liver and Insulin Resistance in the Development of Type 2 Diabetes** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*  
Sung, K., Kim, S. H.  
2011; 96 (4): 1093-1097
- **METABOLIC SYNDROME, INSULIN RESISTANCE, AND KIDNEY FUNCTION IN NONDIABETIC INDIVIDUALS**  
Johns, B., Pao, A., Kim, S.  
W B SAUNDERS CO-ELSEVIER INC.2011: A76
- **Relationship between insulin resistance and C-reactive protein in a patient population treated with second generation antipsychotic medications** *INTERNATIONAL CLINICAL PSYCHOPHARMACOLOGY*  
Kim, S. H., Reaven, G., Lindley, S.  
2011; 26 (1): 43-47
- **Obesity and Insulin Resistance: An Ongoing Saga** *DIABETES*  
Kim, S. H., Reaven, G.  
2010; 59 (9): 2105-2106
- **Glucose-Stimulated Insulin Secretion in Gastric Bypass Patients with Hypoglycemic Syndrome: No Evidence for Inappropriate Pancreatic beta-cell Function** *OBESITY SURGERY*  
Kim, S. H., Abbasi, F., Lamendola, C., Reaven, G. M., McLaughlin, T.  
2010; 20 (8): 1110-1116
- **Relationship between body mass index and insulin resistance in patients treated with second generation antipsychotic agents** *JOURNAL OF PSYCHIATRIC RESEARCH*  
Kim, S. H., Nikolics, L., Abbasi, F., Lamendola, C., Link, J., Reaven, G. M., Lindley, S.  
2010; 44 (8): 493-498
- **Utility of Homeostasis Model Assessment of beta-Cell Function in Predicting Diabetes in 12,924 Healthy Koreans Response** *DIABETES CARE*  
Kim, S. H., Sung, K., Reaven, G. M.  
2010; 33 (5): E72-E72
- **Utility of Homeostasis Model Assessment of beta-Cell Function in Predicting Diabetes in 12,924 Healthy Koreans** *DIABETES CARE*  
Sung, K., Reaven, G. M., Kim, S. H.  
2010; 33 (1): 200-202

- **Plasma Glucose and Insulin Regulation Is Abnormal Following Gastric Bypass Surgery with or Without Neuroglycopenia** *OBESITY SURGERY*  
Kim, S. H., Liu, T. C., Abbasi, F., Lamendola, C., Morton, J. M., Reaven, G. M., McLaughlin, T. L.  
2009; 19 (11): 1550-1556
- **FACTORS ASSOCIATED WITH IMPAIRMENT OF INSULIN SECRETION IN HCV INFECTION: IMPACT OF LATINO ETHNICITY**  
Kim, S. H., Ayala, C., Maher, J. J., Khalili, M.  
JOHN WILEY & SONS INC.2009: 921A
- **Plasma Glucose and Insulin Regulation Is Abnormal Following Gastric Bypass Surgery with or without Neuroglycopenia**  
Kim, S. H., Liu, T. C., Abbasi, F., Lamendola, C., Morton, J. M., Reaven, G. M., McLaughlin, T.  
AMER DIABETES ASSOC.2009: A10
- **Effect of moderate alcoholic beverage consumption on insulin sensitivity in insulin-resistant, nondiabetic individuals** *METABOLISM-CLINICAL AND EXPERIMENTAL*  
Kim, S. H., Abbasi, F., Lamendola, C., Reaven, G. M.  
2009; 58 (3): 387-392
- **Insulin resistance and hyperinsulinemia - You can't have one without the other** *DIABETES CARE*  
Kim, S. H., Reaven, G. M.  
2008; 31 (7): 1433-1438
- **Insulin resistance and hyperinsulinemia: You can't have one without the other**  
Kim, S. H., Reaven, G. M.  
AMER DIABETES ASSOC.2008: A368
- **Effect of 8 weeks of red wine and vodka on insulin sensitivity in insulin resistant individuals**  
Kim, S. H., Reaven, G. M.  
AMER DIABETES ASSOC.2008: A102
- **Isolated Impaired Fasting Glucose and Peripheral Insulin Sensitivity Not a simple relationship** *DIABETES CARE*  
Kim, S. H., Reaven, G. M.  
2008; 31 (2): 347-352
- **Relationship among alcohol, body weight, and cardiovascular risk factors in 27,030 Korean men** *DIABETES CARE*  
Sung, K., Kim, S. H., Reaven, G. M.  
2007; 30 (10): 2690-2694
- **Metabolic impact of switching antipsychotic therapy to aripiprazole after weight gain - A pilot study** *JOURNAL OF CLINICAL PSYCHOPHARMACOLOGY*  
Kim, S. H., Ivanova, O., Abbasi, F. A., Lamendola, C. A., Reaven, G. M., Glick, I. D.  
2007; 27 (4): 365-368
- **The relationship between insulin resistance and dyslipidaemia in cigarette smokers** *DIABETES OBESITY & METABOLISM*  
Farin, H. M., Abbasi, F., Kim, S. H., Lamendola, C., McLaughlin, T., Reaven, G. M.  
2007; 9 (1): 65-69
- **Comparison of the 1997 and 2003 American Diabetes Association classification of impaired fasting glucose - Impact on prevalence of impaired fasting glucose, coronary heart disease risk factors, and coronary heart disease in a community-based medical practice** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*  
Kim, S. H., Chunawala, L., Linde, R., Reaven, G. M.  
2006; 48 (2): 293-297
- **Rosiglitazone reduces glucose-stimulated insulin secretion rate and increases insulin clearance in nondiabetic, insulin-resistant individuals** *DIABETES*  
Kim, S. H., Abbasi, F., Chu, J. W., McLaughlin, T. L., Lamendola, C., Polonsky, K. S., Reaven, G. M.  
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- **The metabolic syndrome: one step forward, two steps back.** *Diabetes & vascular disease research*  
Kim, S. H., Reaven, G. M.  
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- **Impact of degree of obesity on surrogate estimates of insulin resistance** *DIABETES CARE*

Kim, S. H., Abbasi, F., Reaven, G. M.  
2004; 27 (8): 1998-2002

- **Carbonated beverage consumption and bone mineral density among older women: The Rancho Bernardo study** *AMERICAN JOURNAL OF PUBLIC HEALTH*

Kim, S. H., Morton, D. J., BARRETTCONNOR, E. L.  
1997; 87 (2): 276-279