

**9. References:**

- Acharyya N, Chattopadhyay S, Maiti S. (2014). Chemoprevention against arsenic-induced mutagenic DNA breakage and apoptotic liver damage in rat via antioxidant and SOD1 upregulation by green tea (*Camellia sinensis*) which recovers broken DNA resulted from arsenic-H<sub>2</sub>O<sub>2</sub> related in vitro oxidant stress. *J Environ Sci Health C Environ Carcinog Ecotoxicol Rev.* 32:338-61
- Adeyi O, Smith O, Robles S. (2007). Public policy and the challenge of chronic noncommunicable diseases. Washington, DC: The World Bank
- Adiels M, Olofsson SO, Taskinen MR, Borén J. (2008). Overproduction of very low-density lipoproteins is the hallmark of the dyslipidemia in the metabolic syndrome. *Arterioscler. Thromb. Vasc. Biol.* 28:1225-1236
- Alpert JS, Thygesen K, Antman E, et al. (2000). Myocardial infarction redefined—a consensus document of the Joint European Society of Cardiology/American College of Cardiology committee for the redefinition of myocardial infarction. *J Am Coll Cardiol.* 36:959-69.
- American Diabetes Association. (2003). Peripheral arterial disease in people with diabetes. *Diabetes Care.* 26:3333-41

- 
- Anand SS, Islam S, Rosengren A, Franzosi MG, Steyn K, Yusufali AH, Keltai M, Diaz R, Rangarajan S, Yusuf S. (2008). Risk factors for myocardial infarction in women and men: Insights from the INTERHEART study. *European Heart Journal*. 29:932-940
- Anand SS, Yusuf S. (2010). C-reactive protein is a bystander of cardiovascular disease. *Eur. Heart J*. 31:2092-2096
- Anderson, RM. (1993). *The Gross Physiology of the Cardiovascular System*
- Apostolopoulou, M. et al. (2016). Metabolic flexibility and oxidative capacity independently associate with insulin sensitivity in individuals with newly diagnosed type 2 diabetes. *Diabetologia*. 10, 2203-7
- Aviles RJ, Askari AT, Lindahl B, et al. (2002). Troponin T levels in patients with acute coronary syndromes, with or without renal dysfunction. *N Engl J Med*. 346:2047-52.
- Baltaci D, Kutlucan A, Ozturk S, Karabulut I, AKyildirim H, Celer A, Celbek G and Kara IH. (2012). Evaluation of vitamin B12 level in middle-aged obese women with metabolic and nonmeta-bolic syndrome: case-control study. *Turk J Med Sci*. 42:802-809
- Bank S, Jana P, Mait S, Guha S, Sinha AK. (2014). Dermcidin isoform-2 induced nullification of the effect of acetyl salicylic acid in platelet aggregation in acute myocardial infarction. *Sci Rep*. 4:5804
- Barrett-Connor E & Bush TL. (1991). Estrogen and coronary heart disease in women. *Jama*. 265:1861-1867
-

- 
- Beaglehole R, Bonita R. (2008). Global public health: A scorecard. *Lancet*. 372:1988-1996
- Beckman JA, Creager MA, Libby P. (2000). Diabetes and atherosclerosis. *Epidemiology, pathophysiology and management*. *JAMA*. 287:2570-81
- Bertinchant JP, Robert E, Polge A, Marty-Double C, Fabbro-Peray P, Poirey S, Aya G, Juan JM, Ledermann B, de la Coussaye JE. (2000). Comparison of the diagnostic value of cardiac troponin I and T determinations for detecting early myocardial damage and the relationship with histological findings after isoprenaline-induced cardiac injury in rats. *Clinica chimica acta; international journal of clinical chemistry*. 298:13-28
- Bhardwaj S, Misra A, Khurana L, Gulati S, Shah P, Vikram NK. (2008). Childhood obesity in Asian Indians: A burgeoning cause of insulin resistance, diabetes and subclinical inflammation. *Asia Pacific Journal of Clinical Nutrition*. 17:172-175
- Bhattacharjee KG, Bhattacharyya M, Halder UC, Jana P, Sinha AK. (2012). The Role of Neutrophil Estrogen Receptor Status on Maspin Synthesis via Nitric Oxide Production in Human Breast Cancer. *J Breast Cancer*. 15:181-188
- Bhattacharya A, Wei Q, Shin JN, Abdel Fattah E, Bonilla DL. (2015). Autophagy Is Required for Neutrophil-Mediated Inflammation. *Cell Rep*. 12:1731-1739
- Brun E, Nelson RG, Bennett PH. (2000). Diabetes duration and cause-specific mortality in the Verona Diabetes Study. *Diabetes Care*. 23:1119-23

- 
- Buege JA & Aust SD. (1978). Microsomal lipid peroxidation. *Methods in enzymology* 52:302-310
- Burton E SM, William SE. (1972). Serum enzyme determination in diagnosis and assessment of MI. *Circulation*. 2:1-28
- Busik JV, Mohr S & Grant MB. (2008). Hyperglycemia-induced reactive oxygen species toxicity to endothelial cells is dependent on paracrine mediators. *Diabetes*. 57:1952-65
- Caballero B. (2005). A nutrition paradox underweight and obesity in developing countries. *New England Journal of Medicine*. 352:1514-1516
- Cameron AJ, Shaw JE, Zimmet PZ. (2004). The metabolic syndrome: prevalence in worldwide populations. *Endocrinol Metab Clin North Am*. 33:351-375
- Carr ME. (2000). Diabetes mellitus: a hypercoagulable state. *J Diabetes Complications*. 15:44-54
- Cathcart MK, McNally AK, Morel DW and Chisolm G M. (1989). Superoxide anion participation in human monocyte mediated oxidation of low-density lipoprotein and conversion of low-density lipoprotein to a cytotoxin. *Journal of Immunology* 142:1963-1969
- Cavasin MA, Sankey SS, Yu AL, Menon S & Yang XP. (2003). Estrogen and testosterone have opposing effects on chronic cardiac remodeling and function in mice with myocardial infarction. *American journal of physiology Heart and circulatory physiology*. 284:1560-1569

- Ceriello A, Motz E. (2004). Is oxidative stress the pathogenic mechanism underlying insulin resistance, diabetes, and cardiovascular disease? The common soil hypothesis revisited. *Arterioscler Thromb Vasc Biol.* 24:816-823
- Cermak J, Key NS, Bach RR, Balla J, Jacob HS, Vercellotti GM. (1993). C-reactive protein induces human peripheral blood monocytes to synthesize tissue factor. *Blood.* 82:513-20
- Chakraborty K & Sinha AK. (2004). The role of insulin as an antithrombotic humoral factor. *Bioessays* 1:91-8
- Chapman JM, Goerke LS, Dixon W, Loveland DB, Phillips E. (1957). Measuring the risk of coronary heart disease in adult population groups, IV: clinical status of a population group in Los Angeles under observation for two-three years. *Am J Public Health.* 47:33-42
- Chapman MJ, Sposito AC. (2008). Hypertension and dyslipidaemia in obesity and insulin resistance: pathophysiology, impact on atherosclerotic disease and pharmacotherapy. *Pharmacol. Ther.* 117:354-373
- Chattapadhyay A, Ramanakumar AV. (2005). Burden of disease in rural India: An analysis through cause of death. *The Internet Journal of Third World Medicine*
- Chen J, Jin J, Song M, Dong H, Zhao G, Huang L. (2012). C-reactive protein down-regulates endothelial nitric oxide synthase expression and promotes apoptosis in endothelial progenitor cells through receptor for advanced glycation end-products. *Gene.* 496:128-135

- Clarke R, Emberson J, Fletcher A, Breeze E, Marmot M, Shipley MJ. (2009). Life expectancy in relation to cardiovascular risk factors: 38 year follow-up of 19,000 men in the Whitehall study. *British Medical Journal*. 339:3513
- Colman RW, Walsh PN (1987) Mechanisms of platelet aggregation. In: Colman RW, Hirsh J, Maeder VJ, Salzman EW (eds.) *Haemostasis and thrombosis* JB Lippincott, Philadelphia, PA. 594-605
- Critchley J, Liu J, Zhao D, Wei W, Capewell S. (2004). Explaining the increase in coronary heart disease mortality in Beijing between 1984 and 1999. *Circulation*. 110:1236-1244
- Dandona P, Aljada A, Chaudhuri A, Mohanty P, Garg R. ( 2005). Metabolic syndrome: a comprehensive perspective based on interactions between obesity, diabetes, and inflammation. *Circulation*. 111:1448-1454
- Dangour AD, Uauy R. (2006). Nutrition challenges for the twenty-first century. *British Journal of Nutrition*. 96:5-7
- Danny Eapen, M.D. September 7, 2015
- Dawber TR, Kannel WB. (1958). An epidemiologic study of heart disease: The Framingham Study. *Nutrition Reviews*. 16:1-4
- Dawber TR, Meadors GF, Moore FEJ. (1951). Epidemiological approaches to heart disease: the Framingham Study. *Am J Public Health*. 41:279-86

- Dawber TR, Meadors GF, Moore, Jr FE. (1951). Epidemiological approaches to heart disease: The Framingham Study. *American Journal of Public Health and the Nations Health*. 41:279-281
- Dawber TR, Moore FE, Mann GV. Coronary heart disease in the Framingham Study. (1957). *American Journal of Public Health and the Nations Health*. 47:4-24
- De Vriese AS, Verbeuren TJ, Van de Voorde J, Lameire NH, Vanhoutte PM. (2000). Endothelial dysfunction in diabetes. *Br J Pharmacol*. 130:963-74
- Deichgräber, P. et al. (2016). Soluble CD163, adiponectin, C-reactive protein and progression of dysglycaemia in individuals at high risk of type 2 diabetes mellitus: the ADDITION-PRO cohort. *Diabetologia*. 11:2467-76
- Dent TH. (2010). Predicting the risk of coronary heart disease. The use of conventional risk markers. *Atherosclerosis* 213:345-351
- Dhalla NS, Temsah RM, and Netticadan T. (2000). Role of oxidative stress in cardiovascular diseases. *Journal of Hypertension*. 18:655-673
- Dhalla NS, Temsah RM, Netticadan T. (2000). Role of oxidative stress in cardiovascular diseases. *Journal of hypertension*. 18:655-673
- Doyle JT, Helsin SA, Hilleboe HE, Formel PF, Kornis RF. (1957). A prospective study of cardiovascular disease in Albany: report of three years' experience: ischemic heart disease. *Am J Public Health*. 47:25-32

- 
- Dullaart RP, de Vries R, Dallinga-Thie GM, Sluiter WJ, van Tol A. (2008). Phospholipid transfer protein activity is determined by type 2 diabetes mellitus and metabolic syndrome, and is positively associated with serum transaminases. *Clin. Endocrinol.* 68:375-381
- Dullaart RPF, van Tol A, Dallinga-Thie GM. (2013). Phospholipid transfer protein, an emerging cardiometabolic risk marker. *Atherosclerosis* 228:38-41
- Duncan BB, Schmidt MI, Pankow JI, Ballantyne CM, Couper D, Vigo A, et al. (2003). Low-grade systemic inflammation and the development of type 2 diabetes. The atherosclerosis risk in communities study. *Diabetes.* 52:1799-1805
- Duntas LH. (2002). Thyroid disease and lipids. *Thyroid.* 12:287-293
- Duntas LHM, Wartofsky L. (2007). Cardiovascular risk and subclinical hypothyroidism: Focus on lipids and new emerging risk factors. *Thyroid.* 17:1075-1084
- Elnakish MT, Hassanain HH, Janssen PM, Angelos MG and Khan M. (2013). Emerging role of oxidative stress in metabolic syndrome and cardiovascular diseases: important role of Rac/NADPH oxidase. *Journal of Pathology.* 231:290-300
- Engvall E, Perlmann P. (1972). Enzyme-linked immunosorbent assay, Elisa. 3. Quantitation of specific antibodies by enzymelabeled anti-immunoglobulin in antigen-coated tubes. *J Immunol.* 109: 129-135
- ERC. (2007). World cigarettes 1: The 2007 report. Suffolk, England: ERC Statistics Intl Plc.
-



- 
- Eshraghian A, Hamidian JA. (2014). Non-alcoholic fatty liver disease and thyroid dysfunction, a systematic review. *World J. Gastroenterol* 20:8102–8109
- Espinola-Klein C, Gori T, Blankenberg S, Munzel T. (2011). Inflammatory markers and cardiovascular risk in the metabolic syndrome. *Front. Biosci.* 16:1663-1674
- Farvin KH, Anandan R, Kumar SH, Shiny KS, Mathew S, Sankar TV, Nair PG. (2006). Cardioprotective effect of squalene on lipid profile in isoprenaline-induced myocardial infarction in rats. *Journal of medicinal food.* 9:531-536
- Faxon DP, Fuster V, Libby P (2004). Atherosclerotic vascular disease conference: Writing Group III: Pathophysiology. *Circulation.* 109:2617-25.
- Festa A, D’Agostino R Jr, Howard G, Mykkanen L, Tracy RP, Haffner SM. (2000). Chronic subclinical inflammation as part of the insulin resistance syndrome: the Insulin Resistance Atherosclerosis Study (IRAS). *Circulation.* 102:42-47
- Festa A, D’Agostino R, Howard G, et al. (2000). Chronic subclinical inflammation as part of the insulin resistance syndrome: the Insulin Resistance Atherosclerosis Study (IRAS). *Circulation.* 102:42-47.
- Fleming A. (1953). Twentieth-century changes in the treatment of septic infections. *N Engl J Med.* 248:1037-45

- Fox CS, Evans JC, Larson MG, Kannel WB, Levy D. (2004). Temporal trends in coronary heart disease mortality and sudden cardiac death from 1950 to 1999: The Framingham Heart Study. *Circulation*. 110:522-527
- Fox CS, Sullivan L, D'Agostino RB, Wilson PW. (2004). The significant effect of diabetes duration on coronary heart disease mortality. *Diabetes Care*. 27:704-8
- Fukai T and Ushio-Fukai M. (2011). Superoxide dismutases: role in redox signaling, vascular function, and diseases. *Antioxidants and Redox Signaling*. 15:1583-1606
- Fuster V, Kelly BB and Board for Global Health. (2010). Promoting cardiovascular health in developing world: a critical challenge to achieve global health. Washington: Institute of Medicine.
- Ghiadoni L, Taddei S, and Viridis A. (2012). Hypertension and endothelial dysfunction: therapeutic approach. *Current Vascular Pharmacology*. 10:42-60
- Ghosh R, Bhattacharya R, Bhattacharya G, Sinha AK. (2012). The control of stress induced Type 1 diabetes mellitus in humans through the hepatic synthesis of insulin by the stimulation of nitric oxide production. *Int. J. Biomed Sci*. 3:171-82
- Ghosh R, Karmohapatra SK, Bhattacharyya M, Bhattacharya R, Bhattacharya G. (2011). The appearance of dermcidin isoform 2, a novel platelet aggregating agent in the circulation in acute myocardial infarction that inhibits insulin synthesis and the restoration by acetyl salicylic acid of its effects. *J Thromb Thrombolysis*. 31:13-21.

Ghosh R. et al. (2011). The appearance of dermcidin isoform 2, a novel platelet aggregating agent in the circulation in acute myocardial infarction that inhibits insulin synthesis and the restoration by acetyl salicylic acid of its effects. *J. Thromb Thrombolysis*. 1:13-21

Ghosh R. et al. (2011). The appearance of dermcidin isoform 2, a novel platelet aggregating agent in the circulation in acute myocardial infarction that inhibits insulin synthesis and the restoration by acetyl salicylic acid of its effects. *J. Thromb Thrombolysis*. 1:13-21

Ghosh, R. et al. (2011). The appearance of dermcidin isoform 2, a novel platelet aggregating agent in the circulation in acute myocardial infarction that inhibits insulin synthesis and the restoration by acetyl salicylic acid of its effects. *J. Thromb Thrombolysis*. 1:13-21

Gouva L, Tsatsoulis A. (2004). The role of estrogens in cardiovascular disease in the aftermath of clinical trials. *Hormones (Athens)*. 3:171-18

Grohe C, Kahlert S, Lobbert K & Vetter H. (1998). Expression of oestrogen receptor alpha and beta in rat heart: role of local oestrogen synthesis. *The Journal of endocrinology* 156:1-7

Guindon EG, Boisclair D. (2003). Current and future trends in tobacco use. Geneva: World Health Organization Tobacco Free Initiative

Guo Y, Lip GY, Apostolakis S. (2012). Inflammation in atrial fibrillation . *J. Am. Coll. Cardiol.* 60:2263-2270

Gupta R, Guptha S, Joshi R, Xavier D. (2011). Translating evidence into policy for cardiovascular disease control in India. *Health Res Policy Syst*. 9: 8

---

- Guthrie GJ, Charles KA, Roxburgh CS, Horgan PG, McMillan DC. (2013). The systemic inflammation-based neutrophil-lymphocyte ratio experience in patients with cancer. *Crit Rev Oncol Hematol.* 88:218-230
- Hansson GK.. (2005). Inflammation, atherosclerosis, and coronary artery disease. *N. Engl. J. Med.* 352:1685-1695
- Hauser IA, Johnson DR, Thévenod F, Goppelt-Strübe M. (1997) Effect of mycophenolic acid on TNF alpha-induced expression of cell adhesion molecules in human venous endothelial cells in vitro. *Br J Pharmacol.* 122:1315-1322
- Heimberg M, Olubadewo JO, Wilcox HG. (1985). Plasma lipoproteins and regulation of hepatic metabolism of fatty acids in altered thyroid states. *Endocr. Rev* 6:590-607
- Heinrich J, Schulte H, Schönfeld R, Köhler E, Assmann G. (1995). Association of variables of coagulation, fibrinolysis and acute-phase with atherosclerosis atherosclerosis in coronary and peripheral arteries and those arteries supplying the brain. *Thromb Haemost.* 73:374-378.
- Hennes MM, O'Shaughnessy IM, Kelly TM, LaBelle P, Egan BM, Kissebah AH. (1996). Insulin-resistant lipolysis in abdominally obese hypertensive individuals. *Hypertension.* 28:120-6
- Hotamisligil GS & Spiegelman BM. (1994). Tumor necrosis factor alpha: a key component of the obesity-diabetes link. *Diabetes* 11:1271–8Hotamisligil GS, Murray DL, Choy LN

- 
- & Spiegelman BM. (1994). Tumor necrosis factor alpha inhibits signaling from the insulin receptor. *Proc Natl Acad Sci USA*. 11:4854-8
- Hsueh WA, Quinones MJ. Role of endothelial dysfunction in insulin resistance. (2003). *Am J Cardiol*. 92:10-17
- Hu FB. (2008). Globalization of food patterns and cardiovascular disease risk. *Circulation*. 118:1913-1914.
- Inoguchi T, Li P, Umeda F. (2000). High glucose level and free fatty acid stimulate reactive oxygen species production through protein kinase C-dependent activation of NAD(P)H oxidase in cultured vascular cells. *Diabetes*. 49:1939-45
- International Heart Protection Summit, September (2011). Cardiovascular diseases in India: Challenges and way ahead. India: ASSOCHAM.
- Jim M John, Deepak L Bhatt. (2007). Emerging risk factors for Atherosclerosis. *Indian Heart Journal*. 59:28-37
- Kahn SE, Hull RL, Utzschneider KM. (2006). Mechanisms linking obesity to insulin resistance and type 2 diabetes. *Nature*. 444:840–6.
- Kanda T, Takahashi T. (2004). Interleukin-6 and cardiovascular diseases. *Jpn. Heart J*. 45:183-193
- Kaperonis EA, Liapis CD, Kakisis JD, Dimitroulis D, Papavassiliou VG. (2006). Inflammation and atherosclerosis. *Eur J Vasc Endovasc Surg*. 31:386-393

- 
- Keys A. ( 1953). Atherosclerosis: a problem in newer Public Health. *J Mt Sinai Hosp.* 20:118-39
- Klein I, Ojamaa K. (2001). Thyroid hormone and the cardiovascular system. *N. Engl. J. Med.* 15:501-509
- Kong AP. et al. (2013). Diabetes and its comorbidities-where East meets West. *Nat Rev Endocrinol.* 9:537-47
- Kumar S, Seth S, Jaiswal A, Enjamoori R, Dinda AK, Ray R & Maulik SK.. (2009). Chronic beta-adrenergic activation-induced left ventricular systolic dysfunction is associated with systemic release of TNF-alpha and IL-1-beta in rats. *Pharmacological reports.* 61:870-876
- Lagranha CJ, Deschamps A, Aponte A, Steenbergen C & Murphy E. (2010). Sex differences in the phosphorylation of mitochondrial proteins result in reduced production of reactive oxygen species and cardioprotection in females. *Circulation research.* 106:1681-1691
- Lang CH, Dobrescu C & Bagby GJ. (1992). Tumor necrosis factor impairs insulin action on peripheral glucose disposal and hepatic glucose output. *Endocrinology.* 1:43-52
- Last JM. (1995). *A dictionary of epidemiology.* 3.a ed. New York: Oxford University Press
- Libby P, Ridker PM, Hansson GK (2011). Progress and challenges in translating the biology of atherosclerosis. *Nature.* 47: 317-25.

- Lim E, Park S & Kim H. (1998). Effect of taurine supplementation on the lipid peroxide formation and the activities of glutathione-related enzymes in the liver and islet of type I and II diabetic model mice. *Adv Exp Med Biol.* 442:99-103
- Limb GA, Webster L, Soomro H, Janikoun S, Shilling J. (1999). Platelet expression of tumour necrosis factor-alpha (TNF- $\alpha$ ), TNF receptors and intercellular adhesion molecule-1 (ICAM-1) in patients with proliferative diabetic retinopathy. *Clin Exp Immunol.* 118:213-218
- Lopez-Jaramillo P, Silva SY, Rodriguez-Salamanca N, Duran A, Mosquera W, Castillo V. (2008). Are nutrition-induced epigenetic changes the link between socioeconomic pathology and cardiovascular diseases? *American Journal of Therapeutics.* 15:362-372
- M. F. (1995). Rapid bedside whole blood cardiac specific troponin-T immunoassay for diagnosis of acute MI. *Am Heart J.* 75:842-845
- Maione F, Cicala C, Liverani E (2011) IL-17A increases ADP-induced platelet aggregation. *Biochem Biophys Res Commun* 408: 658-662
- Maiti S CA. (2000). Differential response of cellular antioxidant mechanism of liver and kidney to arsenic exposure and its relation to dietary protein deficiency. *Environ Toxicol Pharmacol.* 8:227-235
- Matsudaira P. (1987). Sequence from picomole quantities of proteins electroblotted onto polyvinylidene difluoride membranes. *J. Biol Chem.* 262:10035-10038

- McLaughlin T, Abbasi F, Lamendola C, Liang L, Reaven G, Schaaf P. (2002). Differentiation between obesity and insulin resistance in the association with C-reactive protein. *Circulation*. 106:2908-2912
- Mirzaei M, Truswell AS, Taylor R, Leeder SR. (2009). Coronary heart disease epidemics: Not all the same. *Heart*. 95:740-746
- Misra A, Khurana L. (2008). Obesity and the metabolic syndrome in developing countries. *Journal of Clinical Endocrinology and Metabolism*. 93:9-30
- Mohamed J, Nazratun Nafizah AH, Zariyantey AH & Budin SB. (2016). Mechanisms of Diabetes-Induced Liver Damage: The role of oxidative stress and inflammation. *Sultan Qaboos Univ Med J*. 2:132-41
- Moon JH, Kim HJ, Kim HM, Choi SH, Lim S, Park YJ, Jang HC, Cha BS. (2013). Decreased expression of hepatic low-density lipoprotein receptor-related protein 1 in hypothyroidism: A novel mechanism of atherogenic dyslipidemia in hypothyroidism. *Thyroid*. 23:1057-1065
- Mountantonakis S, Deo R. (2012). Biomarkers in atrial fibrillation, ventricular arrhythmias, and sudden cardiac death. *Cardiovasc. Ther*. 30:74-80
- Mourouzis I, Giagourta I, Galanopoulos G, Mantzouratou P, Kostakou E, Kokkinos AD, Tentolouris N, Pantos C. (2013). Thyroid hormone improves the mechanical performance



- 
- of the post-infarcted diabetic myocardium: A response associated with up-regulation of Akt/mTOR and AMPK activation. *Metabolism*. 62:1387-1393
- Munger MA, Hawkins DW. (2004). Atherothrombosis: epidemiology, pathophysiology, and prevention. *J Am Pharm Assoc*. 44:5-13
- Naghi JJ PK, DiLibero D, Willix R, Schwarz ER. (2011). Testosterone therapy: treatment of metabolic disturbances in heart failure. *Journal of Cardiovascular Pharmacology and Therapeutics*. 16:14-23
- Nelson HD, Humphrey LL, Nygren P, Teutsch SM, Allan JD. (2002). Postmenopausal hormone replacement therapy scientific review. *JAMA*. 288:872-881
- Ness GC, Dugan RE, Lakshmanan MR, Nepokroeff CM, Porter JW. (1973). Stimulation of hepatic beta-hydroxy-beta-methylglutaryl coenzyme A reductase activity in hypophysectomized rats by L-triiodothyronine. *Proc. Natl. Acad. Sci. USA*. 70:3839-3842
- Nikkilä EA, Kekki M. (1972). Plasma triglyceride metabolism in thyroid disease. *J. Clin. Investig*. 51:2103-2114
- Nutrition Transition in India, 1947-2007. Ministry of Women and Child Development, Government of India. 2008

- 
- Oyinloye BE, Adenowo AF, Kappo AP. (2015). Reactive oxygen species, apoptosis, antimicrobial peptides and human inflammatory diseases. *Pharmaceuticals (Basel)*. 8:151-75
- Pagadala MR, Zein CO, Dasarathy S, Yerian LM, Lopez R, McCullough AJ. (2012). Prevalence of hypothyroidism in nonalcoholic fatty liver disease. *Dig. Dis. Sci.* 57:528-534
- Palmieri D, Perego P, Palombo D. (2014). Estrogen receptor activation protects against TNF- $\alpha$ -induced endothelial dysfunction. *Angiology*. 65:17-21
- Paneth N. (2004). Assessing the contributions of John Snow to epidemiology: 150 years after removal of the broad street pump handle. *Epidemiology*. 15:514-6
- Pearce EN. (2012). Update in lipid alterations in subclinical hypothyroidism. *J. Clin. Endocrinol. Metab.* 97:326-333
- Peroxisomes, oxidative stress, and inflammation. (2012). *World J Biol Chem*. 3:93-7
- Phillips GB, Pinkernell BH, Jing TY. (1997). Relationship between serum sex hormones and coronary artery disease in postmenopausal women. *Arteriosclerosis, thrombosis, and vascular biology*. 17:695-701
- Pishva AA, Akbari M, Farahabadi A, Arabkheradmand A, Beyer C. (2016). Effect of Estrogen Therapy on TNF- $\alpha$  and iNOS Gene Expression in Spinal Cord Injury Model. *Acta Med Iran*. 54:296-301

- Pi-Sunyer FX. (2002). The obesity epidemic: pathophysiology and consequences of obesity. *Obes Res.* 2:97-104
- Pliyev BK. (2013). Anti-adhesive proteins and resolution of neutrophil-mediated inflammation. *Immunobiology.* 218:1085-1092
- Pucci E, Chiovato L, Pinchera A. (2000). Thyroid and lipid metabolism. *Int. J. Obes. Relat. Metab. Disord* 24:109-112
- Raab W. (1932). Alimentäre faktoren in der entstehung von arteriosklerose und hypertonie. *Med Klin.* 28:487-521
- Rana JS, Nieuwdorp M, Jukema JW, Kastelein JJ. (2007). Cardiovascular metabolic syndrome - an interplay of, obesity, inflammation, diabetes and coronary heart disease. *Diabetes Obes. Metab.* 9:218-232
- Reckelhoff JF. (2006). cardiovascular disease, estrogen deficiency, and inflammatory cytokines. *Hypertension.* 48:372-373
- Reddy SP, Panday S, Swart D, Jinabhai CC, Amosun SL, James S, Monyeki KD, Stevens G, Morejele N, Kambaran NS, Omardien RG, Van den Borne HW. (2003). Umthenthe uhlaba usamila: The South African Youth Risk Behavior Survey 2002. Cape Town: South African Medical Research Council

- Renart J, Reiser J, Stark GR. (1979). Transfer of proteins from gels to diazobenzyloxymethyl-paper and detection with antisera: a method for studying antibody specificity and antigen structure. *Proc Natl Acad Sci USA*. 76:3116-3120
- Ridker PM, Cannon CP, Morrow D, Rifai N, Rose LM, McCabe CH. (2005). C-reactive protein levels and outcomes after statin therapy. *N Engl J Med*. 352:20-28
- Ridker PM, Cushman M, Stampfer MJ, Tracy RP, Hennekens CH. (1997). Inflammation, aspirin, and the risk of cardiovascular disease in apparently healthy men. *N Engl J Med*. 336:973-979
- Ridker PM, Rifai N, Pfeffer M. (2000). For the Cholesterol And Recurrent Events (CARE) Investigators. Elevation of tumor necrosis factor-alpha and increased risk of recurrent coronary events after myocardial infarction. *Circulation*. 101:2149-2153
- Ridker PM, Rifai N, Rose L, Buring JE, Cook NR. (2002). Comparison of C-reactive protein and low-density lipoprotein cholesterol levels in the prediction of first cardiovascular events. *N Engl J Med*. 347:1557-1565
- Ridker PM. (2001). High-sensitivity C-reactive protein: Potential adjunct for global risk assessment in the primary prevention of cardiovascular disease. *Circulation*. 103:1813-18
- Rodrigo R, Libuy M, Feliú F, Hasson D. (2013). Oxidative stress-related biomarkers in essential hypertension and ischemia-reperfusion myocardial damage. *Dis Markers*. 35:773-90

- 
- Rodriguez T, Malvezzi M, Chatenoud L, Bosetti C, Levi F, Negri E, La Vecchia C. (2006). Trends in mortality from coronary heart and cerebrovascular diseases in the Americas: 1970–2000. *Heart*. 92:453-460
- Rosengren A, Hawken S, Ounpuu S, Sliwa K, Zubaid M, Almahmeed WA, Blackett KN, Sitthi-amorn C, Sato H, Yusuf S. (2004). Association of psychosocial risk factors with risk of acute myocardial infarction in 11119 cases and 13648 controls from 52 countries (the INTERHEART study): Case-control study. *Lancet*. 364:953-962
- Rutter MK, Meigs JB, Sullivan LM, D'Agostino RB Sr, Wilson PW. (2004). C-reactive protein, the metabolic syndrome, and prediction of cardiovascular events in the Framingham Offspring Study. *Circulation*. 110:380-385
- Salman ZK, Refaat R, Selima E, El Sarha A, Ismail MA. (2013). The combined effect of metformin and L-cysteine on inflammation, oxidative stress and insulin resistance in streptozotocin-induced type 2 diabetes in rats. *Eur J Pharmacol*. 3:448-55
- Sattar N, Gaw A, Scherbakova O, Ford I, O'Reilly DS, Haffner SM. (2003). Metabolic syndrome with and without C-reactive protein as a predictor of coronary heart disease and diabetes in the West of Scotland Coronary Prevention Study. *Circulation*. 108:414-419
- Sedlak J & Lindsay RH. (1968). Estimation of total, protein-bound, and nonprotein sulfhydryl groups in tissue with Ellman's reagent. *Analytical biochemistry*. 25:192-205

- 
- Sesnilo G, Biller BMK, Llevadot J. (2000). Effects of growth hormone administration on inflammatory and other cardiovascular risk markers in men with growth hormone deficiency. *Ann Intern Med.* 133:111-122.
- Shopland DR. (1995). Tobacco use and its contribution to early cancer mortality with a special emphasis on cigarette smoking. *Environmental Health Perspectives.* 103:131-142
- Sluijmer AV, Heineman MJ, De Jong FH, Evers JL. (1995). Endocrine activity of the postmenopausal ovary: the effects of pituitary down-regulation and oophorectomy. *The Journal of clinical endocrinology and metabolism.* 80:2163-2167
- Soler EP & Ruiz VC. (2010). Epidemiology and risk factors of cerebral ischemia and ischemic heart diseases: similarities and differences. *Current cardiology reviews.* 6:138-149
- Sowers JR, Epstein M & Frohlich ED. (2001). Diabetes, hypertension, and cardiovascular disease: an update. *Hypertension.* 4:1053-9
- Spiegelman BM & Hotamisligil GS. (1993). Through thick and thin: wasting, obesity, and TNF alpha. *Cell.* 4:625-7
- Splansky GL, Corey D, Yang Q, Arwood LD, Cupples LA, Benjamin EJ, et al. (2007). The third generation cohort of the National Heart, Lung, and Blood Institute's Framingham Heart Study: Design, Recruitment, and Initial Examination. *Am J Epidemiol.* 165:1328-35

- Goyal A, Yusuf S. (2006). The burden of cardiovascular disease in the Indian subcontinent. *Ind J Med Res.* 124:235-244
- Stanely Mainzen Prince P, Kumar MR & Selvakumari CJ. (2011). Effects of gallic acid on brain lipid peroxide and lipid metabolism in streptozotocin-induced diabetic Wistar rats. *Journal of biochemical and molecular toxicology.* 25:101-107
- Stehouwer CD, Gall M, Twisk JW, Knudsen E, Emeis JJ, Parving H. (2002). Increased urinary albumin excretion, endothelial dysfunction, and chronic low-grade inflammation in type 2 diabetes. Progressive, interrelated, and independently associated with risk of death. *Diabetes.* 51: 1157-1165
- Stein AD, Thompson AM, Waters A. (2005). Childhood growth and chronic disease: Evidence from countries undergoing the nutrition transition. *Maternal & Child Nutrition.* 1:177-184
- Susztak K, Raff AC, Schiffer M & Böttinger EP. (2006). Glucose-induced reactive oxygen species cause apoptosis of podocytes and podocyte depletion at the onset of diabetic nephropathy. *Diabetes.* 55:225-33
- Taskinen MR. (2003). Diabetic dyslipidaemia: From basic research to clinical practice. *Diabetologia* 46:733-749
- Tortora G. & Grabowski S. (2000). Principles of anatomy and physiology. Ninth Edition. Wiley page 733

- 
- Treadwell FH, WT. (1948). Analytical chemistry. Analytical Chemistry: Based on the German Text of John Wiley & Sons; New York, USA 9
- Tulp O, Gambert S, Horton ES. (1979). Adipose tissue development, growth, and food consumption in protein-malnourished rats. *Journal of lipid research*. 20:47-54
- Turer AT, Browning JD, Ayers CR, Das SR, Khera A, Vega GL, Grundy SM, Scherer PE. (2012). Adiponectin as an independent predictor of the presence and degree of hepatic steatosis in the Dallas Heart Study. *J. Clin. Endocrinol. Metab.* 97:982-986
- Vallance P, Collier J & Moncada S. (1989). Effects of endothelium-derived nitric oxide on peripheral arteriolar tone in man. *Lancet (London, England)*. 2:997-1000
- Van De Graaff, Kent M. (2002) .Human Anatomy. McGraw Hill Publishing, Burr Ridge, IL
- van der Vorst EP, Keijbeck AA, de Winther MP, Donners MM. (2012). A disintegrin and metalloproteases: Molecular scissors in angiogenesis, inflammation and atherosclerosis. *Atherosclerosis*
- Van Gaal LF, Mertens IL, De Block CE (2006). Mechanisms linking obesity with cardiovascular disease. *Nature*. 444:875-80.
- Vergeer M, Boekholdt SM, Sandhu MS, Ricketts SL, Wareham NJ, Brown MJ, de Faire U, Leander K, Gigante B, Kavousi M. (2010). Genetic variation at the phospholipid transfer protein locus affects its activity and high-density lipoprotein size and is a novel marker of cardiovascular disease susceptibility. *Circulation*. 122:470-477



- 
- Vinik AI, Erbas T, Park TS, Nolan R, Pittenger GL. (2001). Platelet dysfunction in type 2 diabetes. *Diabetes Care*. 24:1476-85
- Waldron-Lynch F & Herold KC. (2011). Immunomodulatory therapy to preserve pancreatic  $\beta$ - cell function in type 1 diabetes. *Nat. Rev. Drug Discov*. 6:439-452
- Wallace KB, Hausner E, Herman E, Holt GD, MacGregor JT, Metz AL, Murphy E, Rosenblum IY, Sistare FD, York MJ. (2004). Serum troponins as biomarkers of drug-induced cardiac toxicity. *Toxicologic pathology*. 32:106-121
- Walsh JP. (2011). Setpoints and susceptibility: Do small differences in thyroid function really matter? *Clin. Endocrinol*. 75:158-159
- Warnatsch A, Ioannou M, Wang Q, Papayannopoulos V. (2015). Inflammation. Neutrophil extracellular traps license macrophages for cytokine production in atherosclerosis. *Science*. 349: 316-320
- Watson KE, Peters Harmel AL, Matson G. (2003). Atherosclerosis in type 2 diabetes mellitus: the role of insulin resistance. *J Cardiovasc Pharmacol Ther*. 8:253-60
- WHO (World Health Organization). (1995). *Physical Status: The Use and Interpretation of Anthropometry*. Technical Report Series 854. Geneva: World Health Organization.
- WHO. (2004). *The global burden of disease*: Geneva: World Health Organization. 2008b

- WHO. (2005). Department of Child and Adolescent Health and Development. The current evidence for the burden of groups a streptococcal diseases, Discussion papers on child health. Geneva: World Health Organization
- WHO. (2008). WHO report on the global tobacco epidemic: The MPOWER package. Geneva: World Health Organization. 2008c.
- WHO. (2009). World health statistics. Geneva: World Health Organization. 2009e
- Williams SB, Cusco JA, Roddy MA, Johnstone MT, Creager MA. (1996). Impaired nitric oxide-mediated vasodilation in patients with non-insulindependent diabetes mellitus. *J Am Coll Cardiol.* 27:567-74
- World Health Organization. (2011). Global Status Report of NCD (2010). Geneva: World Health Organization
- World Health Organization. (2014). Non-communicable Diseases Country Profiles.
- Xing D, Nozell S, Chen YF, Hage F, Oparil S. (2009). Estrogen and mechanisms of vascular protection. *Arteriosclerosis, thrombosis, and vascular biology.* 29:289-295
- Ye G. et al. (2004). Catalase protects cardiomyocyte function in models of type 1 and type 2 diabetes. *Diabetes.* 5:1336-43
- Yoon JW & Jun HS. (2005). Autoimmune destruction of pancreatic beta cells. *Am. J. Ther.* 6:580-591

- 
- Yudkin JS, Stehouwer CD, Emeis JJ, Coppack SW. (1999). C-reactive protein in healthy subjects: associations with obesity, insulin resistance, and endothelial dysfunction: a potential role for cytokines originating from adipose tissue? *Arterioscler Thromb Vasc Biol.* 19:972-978
- Yudkin JS, Stehouwer CDA, Emeis JJ, et al. (1999). C-reactive protein in healthy subjects: associations with obesity, insulin resistance, and endothelial dysfunction: a potential role for cytokines originating from adipose tissue? *Arterioscler Thromb Vasc Biol.* 19:972-978
- Yusuf PS, Hawken S, Ounpuu S, Dans T, Avezum A, Lanus F, McQueen M, Budaj A, Pais P, Varigos J, Lisheng L. (2004). Effect of potentially modifiable risk factors associated with myocardial infarction in 52 countries (the INTERHEART study): Case-control study. *Lancet.* 364:937-952
- Zhang QG RL, Wang R. (2009). Estrogen attenuates ischemic oxidative damage via an estrogen receptor alphamediated inhibition of NADPH oxidase activation. *J Neurosci.* 29:13823-13836
- Zheng J. et al. (2016). Low Serum Total Bilirubin Concentration was Associated with Increased High Sensitive C Reactive Protein Level in Patients with Impaired Glucose Tolerance and Type 2 Diabetes Mellitus Subjects. *Clin Lab.* 5:901-7