

# Literature Review

## Papers

- 3M Health Information Systems. All Patient Refined DRGs (APR-DRGs), 1995. (<http://www.3mhis.com>)
- Abdallah MH, Arnaout S, Karrowni W, Dakik HA. The management of acute myocardial infarction in developing countries. *Int J Cardiol.* 2006 Aug 10;111(2):189-94. Epub 2005 Dec 20.
- Abildstrom SZ, Rasmussen S, Madsen M. Significant decline in case fatality after acute myocardial infarction in Denmark--a population-based study from 1994 to 2001. *Scand Cardiovasc J.* 2002 Sep;36(5):287-91.
- ACC/AHA clinical performance measures for adults with ST-elevation and non-ST-elevation myocardial infarction: a report of the American College of Cardiology/American Heart Association Task Force on Performance Measures (Writing Committee to Develop Performance Measures on ST-Elevation and Non-ST-Elevation Myocardial Infarction). *Circulation.* 2006 Feb 7;113(5):732-61. Epub 2006 Jan 3. *J Am Coll Cardiol.* 2006 Jan 3;47(1):236-65.
- Agabiti N, Ancona C, Forestiere F, Arcà M, Perucci CA. Evaluating outcomes of hospital care following coronary artery bypass surgery in Roma, Italy, *European Journal of Cardio-thoracic Surgery* 2003 23: 599-60.
- Agabiti N, Ancona C, Tancioni V, Papini et al. La valutazione degli esiti dell'assistenza ospedaliera in relazione ad infarto acuto del miocardio nel Lazio, *Ann Ig* 2002; 14: 211-221.
- Agency for Healthcare Research and Quality (AHRQ) Quality Indicators: Guide to Inpatient Quality Indicators: Quality of Care in Hospitals – Volume, Mortality, and Utilization.
- Agency for Healthcare Research and Quality (AHRQ) Quality Indicators: Definitions of Quality Indicators, Version 1.3.
- AHRQ quality indicators. Guide to inpatient quality indicators: quality of care in hospitals - volume, mortality, and utilization [revision 3]. Rockville (MD): Agency for Healthcare Research and Quality (AHRQ); 2004 Jul 21. 172 p. (AHRQ Pub; no. 02-RO204). <http://www.qualityindicators.ahrq.gov>.
- Alfredsson J, Stenestrand U, Wallentin L, Swahn E. Gender differences in management and outcome in Non-ST-Elevation Acute Coronary Syndrome. *Heart.* 2006 Nov 3; [Epub ahead of print]
- Almagro P, Calbo E, Achoa de Echaguen A et al. Mortality after hospitalization for COPD. *Chest* 2002; 121: 1441-1448.
- Altman DG. Categorising continuous variables. *Br J Cancer* 1991; 64:975.
- Alvarez-Leon EE, Elosua R, Zamora A, Aldasoro E, Galcera J, Vanaclocha H, Segura A, Fiol M, Turumbay J, Perez G, Arteagoitia JM, Tormo MJ, Cabades A, Vega G, Ayestaran JI, Garcia V, Hurtado-de-Saracho I, Navarro C, Zurriaga O, Muniz J, Sala J, Marrugat J; IBERICA Study. Hospital resources and myocardial infarction case fatality. The IBERICA study. *Rev Esp Cardiol.* 2004 Jun;57(6):514-23.
- Amadio PC. Outcomes measurements. *J Bone Joint Surg Am* 1993; 75: 1583-1584
- Anand SS, Xie CC, Mehta S, Franzosi MG, Joyner C, Chrolavicius S, Fox KA, Yusuf S; CURE Investigators. Differences in the management and prognosis of women and men who suffer from acute coronary syndromes. *J Am Coll Cardiol.* 2005 Nov 15;46(10):1845-51. Epub 2005 Oct 24.
- Andersson G. Hip assessment: a comparison of nine different methods. *J Bone Joint Surg Br* 1982; 54b, 621
- Antman EM et al. ACC/AHA Guidelines for the Management of Patients With ST-Elevation Myocardial Infarction. A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Committee to Revise the 1999 Guidelines for the Management of Patients With Acute Myocardial Infarction) *J Am Coll Cardiol* 2004; 44(3): 1-211. [www.acc.org](http://www.acc.org).

- Antman EM, Anbe DT, Armstrong PW, Bates ER, Green LA, Hand M, Hochman JS, Krumholz HM, Kushner FG, Lamas GA, Mullany CJ, Ornato JP, Pearle DL, Sloan MA, Smith SC Jr; American College of Cardiology; American Heart Association; Canadian Cardiovascular Society. ACC/AHA guidelines for the management of patients with ST-elevation myocardial infarction--executive summary. A report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Writing Committee to revise the 1999 guidelines for the management of patients with acute myocardial infarction). *J Am Coll Cardiol*. 2004 Aug 4;44(3):671-719. *Circulation*. 2004 Aug 31;110(9):e82-292. *Circulation*. 2004 Aug 3;110(5):588-636.
- Antonelli Incalzi R, Fuso L, De Rosa M et al. Co-morbidity contributes to predict mortality of patients with chronic obstructive pulmonary disease. *Eur Respir J* 1997; 10: 2794-2800.
- Antonucci D, Valenti R, Migliorini A et al. Relation of time to treatment and mortality in patients with acute myocardial infarction undergoing primary angioplasty. *Am J Cardiol* 2002; 89: 1248.
- Apolone G, Mosconi P, Ware JE Jr. Questionario sullo stato di salute SF36. 1997, Guerini e Associati, Milano
- Arcà M, Fusco D, Barone AP, Perucci CA. Risk adjustment and outcome research. Part I. *J Cardiovasc Med (Hagerstown)*. 2006;7(9):682-90
- Armstrong A, Duncan B, Oliver MF et al. Natural history of acute coronary heart attacks. A community study. *Br Heart J* 1972;34:67-80.
- Arom KV, Petersen RJ, Orszulak TA, Bolman RM, III, Wickstrom PH, Joyce LD et al. Establishing and using a local/regional cardiac surgery database. *Ann Thorac Surg* 1997; 64:1245-9.
- Aron DC, Harper DL, Shepardson LB, Rosenthal GE. Impact of risk-adjusting cesarean delivery rates when reporting hospital performance. *JAMA* 1998; 279:1968-73
- Assez N, Adriansen C, Charpentier S, Baixas C, Ducasse JL, Goldstein P. Management of acute coronary syndromes without ST elevation: the TOSCANE registry *Arch Mal Coeur Vaiss*. 2005 Nov;98(11):1123-9.
- Babaev A, Frederick PD, Pasta DJ, Every N, Sichrovsky T, Hochman JS; NRMI Investigators. Trends in management and outcomes of patients with acute myocardial infarction complicated by cardiogenic shock. *JAMA*. 2005 Jul 27;294(4):448-54.
- Bailit J, Garrett J. Comparison of risk-adjustment methodologies for cesarean delivery rates. *Obstet Gynecol*. 2003;102(1): 45-51
- Bailit JL, Love TE, Mercer B. Rising cesarean rates: are patients sicker? *Am J Obstet Gynecol* 2004; 191(3):800-3
- Balit JL, Dooley SL, Peaceman AN. Risk adjustment for interhospital comparison of primary cesarean rates. *Obstet Gynecol* 1999; 93(6):1025-30
- Balmes JR. Occupational contribution to the burden of Chronic Obstructive Pulmonary Disease. *J Occup Environ Med* 2005; 47:154-160.
- Barkun A, Sabbah S, Enns R, Armstrong D, Gregor J, Fedorak RN, Rahme E, Toubouti Y, Martel M, Chiba N, Fallone CA; RUGBE Investigators. The Canadian Registry on Nonvariceal Upper Gastrointestinal Bleeding and Endoscopy (RUGBE): Endoscopic Hemostasis and Proton Pump Inhibition are Associated with Improved Outcomes in a Real-Life Setting. *Am J Gastroenterol*. 2004;99(7):1238-46.
- Barr JD, Connors JJ III, Sacks D, Wojak JC, Becker GJ, Cardella JF, et al. Quality improvement guidelines for the performance of cervical carotid angioplasty and stent placement. *Am J Neuroradiol* 2003;24:2020-34.
- Bellamy N, Buchanan WW, Goldsmith CH et al. Validation study of WOMAC: a health status instrument for measuring clinically important patient relevant outcomes to antirheumatic drug therapy in patients with osteoarthritis of the hip or knee. *J Rheumatol* 1988; 15 (12): 1833-40
- Benesch C, Witter DM, Wilder AL, Duncan PW, Samsa GP, Matchar DB. Inaccuracy of the International Classification of Diseases. (ICD-9-CM) in identifying the diagnosis of ischemic cerebrovascular disease. *Neurology*. 1997;49:660-664.

- Benson K, Hartz AJ. A comparison of observational studies and randomized, controlled trials. *N Engl J Med.* 2000; 342(25):1878-86
- Berger PB, Ellis SG, Holmes DR Jr et al. Relationship between delay in performing direct coronary angioplasty and early clinical outcome in patients with acute myocardial infarction: results from the global use of strategies to open occluded arteries in Acute Coronary Syndromes (GUSTO-IIb) trial. *Circulation* 1999; 100 (1): 14-20.
- Berjano P, Bianco E, Bianconi M, Bozzolan M, Iovine R, Jefferson T, Lo Monaco A, Padua R, Romanini E, Testa M, Torre M, Traina F, Tucci G, Zagra L, Zanolì G. Revisione sistematica sulle protesi d'anca: affidabilità dell'impianto. Milano: Zadig; 2004. (PNLG 8). Disponibile all'indirizzo <http://www.pnlg.it/LG/012/> ; ultima consultazione 10/03/06.
- Berkowitz GS, Fiarman GS, Mojica MA, et al. Effect of physician characteristics on the cesarean birth rate. *Am J Obstet Gynecol* 1989;161(1):146-9
- Bernstein AD, Parsonnet V. Bedside estimation of risk as an aid for decision-making in cardiac surgery. *Ann Thorac Surg* 2000; 69:823-8.
- Bertrand ME, Simoons ML, Fox KA, Wallentin LC, Hamm CW, McFadden E, De Feyter PJ, Specchia G, Ruzyllo W; Task Force on the Management of Acute Coronary Syndromes of the European Society of Cardiology. Management of acute coronary syndromes in patients presenting without persistent ST-segment elevation. *Eur Heart J.* 2002 Dec;23(23):1809-40.
- Birrell F, Johnell O, Silman A Projecting the need for hip replacement over the next three decades: influence of changing demography and threshold for surgery. *Ann Rheum Dis* 1999 Sep;58(9):569-72
- Blackledge HM, Tomlinson J, Squire IB. Prognosis for patients newly admitted to hospital with heart failure: survival trends in 12 220 index admissions in Leicestershire 1993–2001. *Heart* 2003;89:615-620.
- Blackstone EH. Breaking down barriers: helpful breakthrough statistical methods you need to understand better. *J Thorac Cardiovasc Surg* 2001; 122:430-9.
- Blackstone EH. Comparing apples and oranges. *J Thorac Cardiovasc Surg* 2002; 123:8-15.
- Blanton C, Thompson PL. Role of coronary interventional procedures in improved postinfarction survival in the 1990s. *Am J Cardiol.* 2001 Apr 1;87(7):832-7.
- Block P, Peterson E, Krone R, et al. Identification of variables needed to risk adjust outcome of coronary interventions: evidence-based guidelines for efficient data collection. *J Am Coll Cardiol* 1998;32: 275–82.
- *BMJ.* 2005 May 7;330(7499):1046.
- Boardman DL, Dorey F, Thomas BJ, Lieberman JR The accuracy of assessing total hip arthroplasty outcomes: a prospective correlation study of walking ability and 2 validated measurement devices. *J Arthroplasty* 2000 Feb;15(2):200-4
- Bourne RB, Rorabeck CH Assessing the outcomes: what really works? *Orthopedics* 1999 Sep;22(9):823-5
- Braunwald E, Antman EM, Beasley JW, Califf RM, Cheitlin MD, Hochman JS, Jones RH, Kereiakes D, Kupersmith J, Levin TN, Pepine CJ, Schaeffer JW, Smith EE 3rd, Steward DE, Theroux P, Gibbons RJ, Alpert JS, Faxon DP, Fuster V, Gregoratos G, Hiratzka LF, Jacobs AK, Smith SC Jr; American College of Cardiology; American Heart Association. Committee on the Management of Patients With Unstable Angina. ACC/AHA 2002 guideline update for the management of patients with unstable angina and non-ST-segment elevation myocardial infarction--summary article: a report of the American College of Cardiology/American Heart Association task force on practice guidelines (Committee on the Management of Patients With Unstable Angina). *J Am Coll Cardiol.* 2002 Oct 2;40(7):1366-74. *Circulation.* 2002 Oct 1;106(14):1893-900.
- Brazier JE, Harper R, Munro J, et al. Generic and condition-specific outcome measures for people with osteoarthritis of the knee. *Rheumatology* 1999 Sep;38(9):870-7
- Breeman A, Hordijk-Trion M, Lenzen M, Hoeks S, Ottervanger JP, Bertrand ME, Sechtem U, Zaliunas R, Legrand V, de Boer MJ, Stahle E, Mercado N, Wijns W, Boersma E; Euro Heart Survey on Coronary Revascularization. Treatment decisions in stable coronary artery disease: insights from

the Euro Heart Survey on Coronary Revascularization. *J Thorac Cardiovasc Surg.* 2006 Nov;132(5):1001-9.

- Breiman L. Bagging predictors. *Machine Learning* 1996; 24:123-40.
- Breiman L. Statistical modeling: the two cultures. *Statistical Science* 2001; 16:199-231.
- Briggs A, Sculpher M, Britton A, Murray D, Fitzpatrick R The costs and benefits of primary total hip replacement. How likely are new prostheses to be cost-effective? *Int J Technol Assess Health Care* 1998 Fall;14(4):743-61
- Brinker MR, Lund PJ, Cox DD, Barrack RL. Demographic biases found in scoring instruments of total hip arthroplasty. *J Arthroplasty* 1996; 11(7) 820-830
- British Cardiac Society Guidelines and Medical Practice Committee and Royal College of Physicians Clinical Effectiveness and Evaluation Unit.. Guideline for the management of patients with acute coronary syndromes without persistent ECG ST segment elevation. *British Cardiac Society Guidelines and Medical Practice Committee and Royal College of Physicians Clinical Effectiveness and Evaluation Unit. Heart.* 2001 Feb;85(2):133-42.
- Broderick J, Brott T, Kothari R, Miller R, Khoury J, Pancioli R, Gebel J, Minneci L, Shukla R. The Greater Cincinnati/Northern Kentucky Stroke Study: preliminary first-ever and total incidence rates of strokes among blacks. *Stroke.* 1998;29:415–421.
- Brown H, Prescott R. *Applied mixed models in medicine.* John Wiley & Sons, Ltd, 2003
- Bryant MJ, Kernohan WG, Nixon JR, Mollan RA A statistical analysis of hip scores. *J Bone Joint Surg Br* 1993 Sep;75(5):705-9
- California Hospital Outcomes Project. *Heart Attack Outcomes 1996-1998. Volume 2: Technical Guide.* OSHPD 2002.
- Callaghan JJ, Johnston RC, Pedersen DR The John Charnley Award. Practice surveillance: a practical method to assess outcome and to perform clinical research. *Clin Orthop* 1999 Dec;(369):25-38
- Cannon CP, Gibson CM, Lambrew CT, et al. Relationship of symptom-onset-to-balloon time and door-to-balloon time with mortality in patients undergoing angioplasty for acute myocardial infarction. *JAMA* 2000;283:2941-7.
- Canto JG, Every NR, Magid DJ, et al. The volume of primary angioplasty procedures and survival after acute myocardial infarction. National Registry of Myocardial Infarction 2 Investigators. *N Engl J Med.* 2000;342 (21):1573–1580.
- Capewell S, Murphy NF, MacIntyre K, Frame S, Stewart S, Chalmers JW, Boyd J, Finlayson A, Redpath A, McMurray JJ. Short-term and long-term outcomes in 133,429 emergency patients admitted with angina or myocardial infarction in Scotland, 1990-2000: population-based cohort study. *Heart.* 2006 Nov;92(11):1563-70. Epub 2006 Jun 14.
- CARESS Steering Committee. Carotid revascularization using endarterectomy or stenting systems (CARESS). *J Endovasc Ther* 2003;10:1021-30
- CCORT/CCS Acute Myocardial Infarction Canadian Quality Indicator Panel. [www.ccort.ca/CCORTCCSAMICHFQualityIndicators.asp](http://www.ccort.ca/CCORTCCSAMICHFQualityIndicators.asp).
- Cesana G, Ferrario M, Gigante S, Segar R, Toso C, Achilli F. Socio-occupational differences in acute myocardial infarction case-fatality and coronary care in a northern Italian population. *Int J Epidemiol.* 2001 Oct;30 Suppl 1:S53-8.
- Chaix B, Rosvall M, Merlo J. Neighborhood socioeconomic deprivation and residential instability: effects on incidence of ischemic heart disease and survival after myocardial infarction. *Epidemiology.* 2007 Jan;18(1):104-11.
- Charlson ME, Pompei P, Ales KL, MacKenzie CR. A new method of classifying prognostic comorbidity in longitudinal studies: development and validation. *Journal of Chronic Diseases* 1987; 40(5): 373-83
- Charnley J. The long-term results of low-friction arthroplasty of the hip performed as a primary intervention. *J Bone Joint Surg Br* 1972 Feb;54(1):61-76

- Clark DA, Mason KT, Belmont P. Incidence and outcomes of total hip arthroplasty among US Army aviators. *Mil Med* 2001;166(2):132-4.
- Clark RE. Outcome as a function of annual coronary artery bypass graft volume. The Ad Hoc Committee on Cardiac Surgery Credentialing of The Society of Thoracic Surgeons. *Ann Thorac Surg* 1996; 61:21-6.
- Clark RE. The development of The Society of Thoracic Surgeons voluntary national database system: genesis, issues, growth, and status. *Best Pract Benchmarking Healthc* 1996; 1:62-9.
- Clayton D, Hills M. *Statistical Models in Epidemiology*. Oxford University Press, New York, 1993
- Cleveland JC, Jr., Shroyer AL, Chen AY, Peterson E, Grover FL. Off-pump coronary artery bypass grafting decreases risk-adjusted mortality and morbidity. *Ann Thorac Surg* 2001; 72:1282-8.
- Clinical Indicators: A Users' Manual. Australian Council on Healthcare Standards, Melbourne 1991,1993.
- Clinical Outcomes Working Group (1998). *Clinical Outcomes Indicators May 2002*. Edinburgh: The Scottish Office.
- Clinical Quality Improvement Network Investigators. Mortality risk and patterns of practice in 4606 acute care patients with congestive heart failure: the relative importance of age, sex, and medical therapy. *Arch Intern Med*. 1996;156:1669-1673.
- Commission for health improvement – NHS - 2002. Clinical Indicator 1026: Emergency readmissions to hospital following treatment for a fractured hip. Web site: <http://www.chi.nhs.uk/Ratings/downloads/1028c.pdf>
- Commission for health improvement – NHS - 2002. Clinical Indicator 1026: Emergency readmissions to hospital within 28 days of discharge, as a percentage of live discharges for patients aged 16 years and over. Web site: <http://www.chi.nhs.uk/Ratings/downloads/1026c.pdf>
- Cooper GS, Chak A, Way LE, et al. Early endoscopy in upper gastrointestinal haemorrhage: associations with recurrent bleeding, surgery, and length of hospital stay. *Gastrointest Endosc* 1999; 49(2):145-52.
- Cowie MR, Jourdain P, Maisel A, et al. Clinical applications of B-type natriuretic peptide (BNP) testing. *Eur Heart J*. 2003;24:1710-1718.
- Crawford FA, Jr., Anderson RP, Clark RE, Grover FL, Kouchoukos NT, Waldhausen JA et al. Volume requirements for cardiac surgery credentialing: a critical examination. The Ad Hoc Committee on Cardiac Surgery Credentialing of The Society of Thoracic Surgeons. *Ann Thorac Surg* 1996; 61:12-6.
- Crea F, Galvani M, Canonico A, Cirrincione V, Di Pasquale G, Mauri F, Penco M, Zardini P, Vassanelli C, Barsotti A, Mazzotta G; Commissione per le Linee Guida ANMCO-SIC. Guideline for the diagnosis and treatment of unstable angina. Update 2000 *Ital Heart J Suppl*. 2000 Dec;1(12):1597-631.
- Daley J, Forbes MG, Young GJ, Charns MP, Gibbs JO, Hur K et al. Validating risk-adjusted surgical outcomes: site visit assessment of process and structure. National VA Surgical Risk Study. *J Am Coll Surg* 1997; 185:341-51.
- Daly C, Clemens F, Lopez Sendon JL, Tavazzi L, Boersma E, Danchin N, Delahaye F, Gitt A, Julian D, Mulcahy D, Ruzyllo W, Thygesen K, Verheugt F, Fox KM; Euro Heart Survey Investigators. Gender differences in the management and clinical outcome of stable angina. *Circulation*. 2006 Jan 31;113(4):490-8.
- Daly C, Clemens F, Lopez-Sendon JL, Tavazzi L, Boersma E, Danchin N, Delahaye F, Gitt A, Julian D, Mulcahy D, Ruzyllo W, Thygesen K, Verheugt F, Fox KM; Euro Heart Survey Investigators. The impact of guideline compliant medical therapy on clinical outcome in patients with stable angina: findings from the Euro Heart Survey of stable angina. *Eur Heart J*. 2006 Jun;27(11):1298-304. Epub 2006 May 16.
- Daly CA, Clemens F, Sendon JL, Tavazzi L, Boersma E, Danchin N, Delahaye F, Gitt A, Julian D, Mulcahy D, Ruzyllo W, Thygesen K, Verheugt F, Fox KM; Euro Heart Survey Investigators. The initial management of stable angina in Europe, from the Euro Heart Survey: a description of

pharmacological management and revascularization strategies initiated within the first month of presentation to a cardiologist in the Euro Heart Survey of Stable Angina. *Eur Heart J*. 2005 May;26(10):1011-22. Epub 2005 Feb 16.

- Daly CA, De Stavola B, Sendon JL, Tavazzi L, Boersma E, Clemens F, Danchin N, Delahaye F, Gitt A, Julian D, Mulcahy D, Ruzyllo W, Thygesen K, Verheugt F, Fox KM; Euro Heart Survey Investigators. Predicting prognosis in stable angina--results from the Euro heart survey of stable angina: prospective observational study. *BMJ*. 2006 Feb 4;332(7536):262-7. Epub 2006 Jan 13.
- Danchin N, Kadri Z, Cambou JP, Hanania G, Humbert R, Clerson P, Vaur L, Gueret P, Blanchard D, Genes N, Lablanche JM; investigateurs USIK 1995 et USIC 2000. Management of patients admitted for acute myocardial infarction in France from 1995 to 2000: time to admission dependent improvement in outcome. *Arch Mal Coeur Vaiss*. 2005 Nov;98(11):1149-54.
- Dawson J, Fitzpatrick R, Murray D, Carr A. Comparison of measures to assess outcomes in total hip replacement surgery. *Qual Health Care*. 1996 Jun;5(2):81-8.
- Dawson J, Fitzpatrick R, Murray D, Carr A. Questionnaire on the perceptions of patients about total hip replacement. *J Bone Joint Surg Br*. 1996 Mar;78(2):185-90.
- Dawson J, Fitzpatrick R, Murray D, Carr A. The problem of 'noise' in monitoring patient-based outcomes: generic, disease-specific and site-specific instruments for total hip replacement. *J Health Serv Res Policy*. 1996 Oct;1(4):224-31
- De Luca G, Suriyapranata H, Zijsta F et al. for Zolle Miocardial Infarction Study Group. Symptom onset to balloon time and mortality in patients with acute myocardial infarction treated by primary angioplasty. *J Am Coll Cardiol* 2003; 42: 991.
- De Santis E, Gasparini G, Romanini E, De Santis V. Il ruolo dell'idrossiapatite nell'osteointegrazione. Risultati preliminari di uno studio prospettico randomizzato. *Minerva Ortopedica* 2000, in stampa
- De Vreede JJ, Gorgels AP, Verstraaten GM et al. Did prognosis after acute myocardial infarction change during the past 30 years? A meta-analysis. *J Am Coll Cardiol* 1991; 18:698-706.
- De Winter RJ, Windhausen F, Cornel JH, Dunselman PH, Janus CL, Bendermacher PE, Michels HR, Sanders GT, Tijssen JG, Verheugt FW; Invasive versus Conservative Treatment in Unstable Coronary Syndromes (ICTUS) Investigators. Early invasive versus selectively invasive management for acute coronary syndromes. *N Engl J Med*. 2005 Sep 15;353(11):1095-104.
- DeBuono BA et al., Cardiac Surgery Reporting System Analysis Workgroup. Coronary Artery ByPass Surgery in New York State 1994-1996, New York State Department of Health 1998.
- Deeks JJ, Dinnes J, D'Amico R, Sowden AJ et al. Evaluating non-randomised intervention studies. *Health Technology Assessment* 2003; 7(27): 1-186
- Delahaye F, Bory M, Cohen A, Danchin N, de Gevigney G, Dellinger A, Fraboulet JY, Gayet JL, Guize L, Iung B, Mabo P, Monpere C, Steg PG, Thomas D; Groupe epidemiologie et prevention. Recommendations of the French Society of Cardiology concerning the treatment of myocardial infarction after the acute phase. *Epidemiology and Prevention Group Arch Mal Coeur Vaiss*. 2001 Jul;94(7):697-738.
- DeLong E. Hierarchical modeling: its time has come. *Am Heart J* 2003; 145:16-8.
- DeLong ER, DeLong DM, Clarke-Pearson DL. Comparing the areas under two or more correlated receiver operating characteristic curves: a nonparametric approach. *Biometrics* 1988; 44: 837-845
- DeLong ER, Peterson ED, DeLong DM, Muhlbaier LH, Hackett S, Mark DB. Comparing risk-adjustment methods for provider profiling. *Statistics in Medicine* 1997;16(23): 2645-64
- Department of Health – National Health Service. [www.performance.doh.gov.uk/nhsperformanceindicators/hlpi2000/downloads/spec2000\\_ci3.doc](http://www.performance.doh.gov.uk/nhsperformanceindicators/hlpi2000/downloads/spec2000_ci3.doc).
- Deyo RA, Cherkin DC, Ciol MA. Adapting a clinical comorbidity index for use with ICD-9-CM administrative databases. *Journal of Clinical Epidemiology* 1992; 45(6): 613-9
- Di Chiara A, Chiarella F, Savonitto S, Lucci D, Bolognese L, De Servi S, Greco C, Boccanelli A, Zoncin P, Coccolini S, Maggioni AP; BLIT Investigators. Epidemiology of acute myocardial infarction in the Italian CCU network: the BLITZ study. *Eur Heart J*. 2003 Sep;24(18):1616-29.

- Di Lallo D, Perucci CA, Bertollini R, et al. Cesarean section rates by type of maternity unit and level of obstetric care: an area-based study in central Italy. *Prev Med* 1996; 25:178-85.
- Di Lenarda A, Goliani P, Grella M, Sabbadini G, Driussi M, Sinagra G. Le statistiche ospedaliere come strumento di studio epidemiologico: lo scompenso cardiaco a Trieste. *Ital Heart J Suppl* 2002; 3 (1): 58-70.
- Dosa L. Cesarean section delivery, an increasingly popular option. *Bull World Health Organ.* 2001; 79:1173
- Drake BG, Callahan CM, Dittus RS, Wright JG Global rating systems used in assessing knee arthroplasty outcomes. *J Arthroplasty* 1994 Aug;9(4):409-17
- Dziuban SW, Jr. Using information from databases to improve clinical practice: lessons learned under fire. *Ann Thorac Surg* 1997; 64:S64-S67.
- Eagle KA, Guyton RA, Davidoff R, Ewy GA, Fonger J, Gardner TJ et al. ACC/AHA Guidelines for Coronary Artery Bypass Graft Surgery: A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Committee to Revise the 1991 Guidelines for Coronary Artery Bypass Graft Surgery). American College of Cardiology/American Heart Association. *J Am Coll Cardiol* 1999; 34:1262-347.
- Edwards FH, Bero J, Schwartz M, Shroyer AL, Grover FL, The Society of Thoracic Surgeons National Cardiac Surgery Database current risk assessment, *Ann Thorac Surg* 1997; 63: 903-908.
- Edwards FH, Carey JS, Grover FL, Bero JW, Hartz RS. Impact of gender on coronary bypass operative mortality. *Ann Thorac Surg* 1998; 66:125-31.
- Edwards FH, Clark RE, Schwartz M. Impact of internal mammary artery conduits on operative mortality in coronary revascularization. *Ann Thorac Surg* 1994; 57:27-32.
- Edwards FH, Clark RE, Schwartz M: Coronary artery bypass grafting: the Society of Thoracic Surgeons National Database experience. *Ann Thorac Surg* 1994; 57:12-19
- Edwards FH, Grover FL, Shroyer AL, et al: The Society of Thoracic Surgeons National Cardiac Surgery Database: current risk assessment. *Ann Thorac Surg* 1997; 63: 903-908
- Edwards FH, Peterson ED, Coombs LP, DeLong ER, Jamieson WR, Shroyer ALW et al. Prediction of operative mortality after valve replacement surgery. *J Am Coll Cardiol* 2001; 37:885-92.
- Edwards FH. Evolution of the Society of Thoracic Surgeons National Cardiac Surgery Database. *J Invasive Cardiol* 1998; 10:485-8.
- Edwards N, Honemann D, Burley D, Navarro M. Refinement of the Medicare diagnosis-related groups to incorporate a measure of severity. *Health Care Financing Review* 1994; 16(2): 45-64
- Ellis SG, Roubin GS, King SB, III, et al. Angiographic and clinical predictors of acute closure after native vessel coronary angioplasty. *Circulation* 1988;77:372-9.
- Ellis SG, Vandormael MG, Cowley MJ, et al. Coronary morphologic and clinical determinants of procedural outcome with angioplasty for multivessel coronary disease: implications for patient selection. Multivessel Angioplasty Prognosis Study Group. *Circulation* 1990;82: 1193-202.
- Ethgen O, Bruyere O, Richy F, et al. Health-related quality of life in total hip and total knee arthroplasty. A qualitative and systematic review of the literature. *J Bone Joint*
- EUROASPIRE II Study Group. Lifestyle and risk factor management and use of drug therapies in coronary patients from 15 countries; principal results from EUROASPIRE II Euro Heart Survey Programme. *Eur Heart J.* 2001 Apr;22(7):554-72.
- Ezekowitz JA, McAlister FA, Armstrong PW. Anemia is common in heart failure and is associated with poor outcomes: insights from a cohort of 12 065 patients with new-onset heart failure. *Circulation* 2003; 107:223-225.
- Fairbank J, Goldacre M, Mason A, Wilkinson E, Fletcher J, Amess M, Eastwood A, Cleary R (eds). "Health Outcome Indicators: Fractured Proximal Femur. Report of a working group to the Department of Health." Oxford: National Centre for Health Outcomes Development, 1999: <http://www.caspe.co.uk/publications.htm#1999>

- Fantini MP, Stivanello E, Frammartino B, Barone AP, Fusco D, Dallolio L, Cacciari, Perucci CA. Risk adjustment for inter-hospital comparison of primary cesarean section rates: need, validity and parsimony. *BMC Health Services Research* 2006; 6(1):100
- Faulkner A, Kennedy LG, Baxter K, Donovan J, Wilkinson M, Bevan G. Effectiveness of hip prostheses in primary total hip replacement: a critical review of evidence and an economic model. *Health Technol Assess* 1998;2(6):1-133
- Felker GM, Benza RL, Chandler AB, et al; OPTIME-CHF Investigators. Heart failure etiology and response to milrinone in decompensated heart failure: results from the OPTIME-CHF study. *J Am Coll Cardiol.* 2003;41:997-1003.
- Fender D, Harper WM, Gregg PJ. The Trent regional arthroplasty study. Experiences with a hip register. *J Bone Joint Surg Br* 2000;82(7):944-7.
- Ferguson TB Jr, Dziuban SW Jr, Edwards FH, Eiken MC, Shroyer AL, Pairolero PC, Anderson RP, Grover FL.. The STS National Database: current changes and challenges for the new millennium. Committee to Establish a National Database in Cardiothoracic Surgery, The Society of Thoracic Surgeons. *Ann Thorac Surg* 2000;69(3):680-91.
- Ferguson TB, Bradley GH, Peterson ED, DeLong ER, Grover FL. A decade of change – risk profile and outcomes for isolated coronary artery bypass grafting procedures, 1990-1999: a report from the STS National Database Committee and the Duke Clinical Research Institute, *Annals of Thoracic Surgery* 2002; 73: 480-90.
- Ferguson TB, Jr., Coombs LP, Peterson ED. Preoperative beta-blocker use and mortality and morbidity following CABG surgery in North America. *JAMA* 2002; 287:2221-7.
- Ferguson TB, Jr., Peterson ED, Coombs LP, Eiken MC, Carey ML, Grover FL et al. Use of continuous quality improvement to increase use of process measures in patients undergoing coronary artery bypass graft surgery: a randomized controlled trial. *JAMA* 2003; 290:49-56.
- Ferraris VA, Ferraris SP Risk Stratification and Comorbidity. In: Cohn LH, Edmunds LH Jr, eds. *Cardiac Surgery in the Adult*. New York: McGraw-Hill 2003:187224
- Finlayson EV, Birkmeyer JD, Stukel TA, Siewers AE, Lucas FL, Wennberg DE. Adjusting surgical mortality rates for patient comorbidities: more harm than good? *Surgery* 2002; 132:787-94.
- Fitzpatrick R, Shortall E, Sculpher M, Murray D, Morris R, Lodge M, Dawson J, Carr A, Britton A, Briggs A Primary total hip replacement surgery: a systematic review of outcomes and modelling of costeffectiveness associated with different prostheses. *Health Technol Assess* 1998;2(20):1-64
- Fonarow, GC, Adams KF Jr, Abraham WT, Yancy CW, Boscardin WJ; ADHERE Scientific Advisory Committee, Study Group, and Investigators. Risk Stratification for In-Hospital Mortality in Acutely Decompensated Heart Failure: Classification and Regression Tree Analysis. *JAMA* 2005;293:572-580.
- Furman MI, Dauerman HL, Goldberg RJ, Yarzebski J, Lessard D, Gore JM. Twenty-two year (1975 to 1997) trends in the incidence, in-hospital and long-term case fatality rates from initial Q-wave and non-Q-wave myocardial infarction: a multi-hospital, community-wide perspective. *J Am Coll Cardiol.* 2001 May;37(6):1571-80.
- Galante JO. Evaluation of results of total hip replacement. *J Bone Joint Surg Am* 1990; 72: 159
- Galante JO. The need for a standardized system for evaluating results of total hip surgery. *J Bone Joint Surg Am.* 1985 Apr;67(4):511-2
- Gandek B, Ware JE, Aaronson NK et al. Cross-validation of item selection and scoring for the SF-12
- Garellick G, Herberts P, Malchau H The value of clinical data scoring systems: are traditional hip scoring systems adequate to use in evaluation after total hip surgery? *J Arthroplasty* 1999 Dec;14(8):1024-9
- Gartland JJ: Orthopaedic clinical research: Deficiencies in experimental design and determinations of outcome. *J Bone Joint Surg Am* 1988; 70:1357-1364.
- Geraci JM, Johnson ML, Gordon HS, Mortality After Cardiac Bypass Surgery. Prediction from administrative versus clinical data, *Medical Care* 2005;43 (2): 149-158.

- Giacometti Ceroni R, Pace A. La documentazione nella chirurgia protesica dell'anca. GIOT Vol. XXII, f. 2: 543-553, 1996
- Gibler WB, Cannon CP, Blomkalns AL, Char DM, Drew BJ, Hollander JE, Jaffe AS, Jesse RL, Newby LK, Ohman EM, Peterson ED, Pollack CV; American Heart Association Council on Clinical Cardiology (Subcommittee on Acute Cardiac Care); Council on Cardiovascular Nursing, and Quality of Care and Outcomes Research Interdisciplinary Working Group; Society of Chest Pain Centers. Practical implementation of the guidelines for unstable angina/non-ST-segment elevation myocardial infarction in the emergency department: a scientific statement from the American Heart Association Council on Clinical Cardiology (Subcommittee on Acute Cardiac Care), Council on Cardiovascular Nursing, and Quality of Care and Outcomes Research Interdisciplinary Working Group, in Collaboration With the Society of Chest Pain Centers. *Circulation*. 2005 May 24;111(20):2699-710.
- Givon U, Ginsberg GM, Horoszowski H, Shemer J Cost-utility analysis of total hip arthroplasties. Technology assessment of surgical procedures by mailed questionnaires. *Int J Technol Assess Health Care* 1998 Fall;14(4):735-42
- Glantz JC. Cesarean delivery risk adjustment for regional interhospital comparisons. *Am J Obstet Gynecol* 1999; 181( 6): 1425-31
- Global Initiative for Chronic Obstructive Lung Disease (GOLD). Global strategy for the diagnosis, management, and prevention of chronic obstructive pulmonary disease. Bethesda (MD): GOLD, National Heart, Lung and Blood Institute (NHLBI), World Health Organization (WHO); 2005.
- GLOBE, Gruppo di Lavoro Ortopedia Basata su prove di Efficacia. [www.globeweb.org](http://www.globeweb.org)
- Goldstein H, Browne W, Rasbash J. Multilevel modelling of medical data. *Stat Med* 2002; 21:3291-315.
- Goldstein H, Spiegelhalter DJ. League tables and their limitations: statistical issues in comparisons of institutional performance. *J R Stat Soc (Series A)* 1996; 159:385-443.
- Gonnella JS, Hornbrook MC, Louis DZ. Staging of disease: A case-mix measurement. *JAMA* 1984; 251 (5): 637-44
- Gottlieb S, Behar S, Hod H, Zahger D, Leor J, Hasdai D, Hammerman H, Wagner S, Sandach A, Schwartz R, Green MS, Adunsky A; Intensive Cardiac Care Working Group of the Israel Heart Society. Trends in management, hospital and long-term outcomes of elderly patients with acute myocardial infarction. *Am J Med*. 2007 Jan;120(1):90-7.
- Government of western Australia. Department of Health. Annual report 1997/98. Unplanned hospital readmission. [Web site: http://www.health.wa.gov.au/publications/documents/AnnualReports/AnnualReport\\_9798/quality.htm#pi28](http://www.health.wa.gov.au/publications/documents/AnnualReports/AnnualReport_9798/quality.htm#pi28)
- Goyert GL, Bottoms FS, Treadwell MC, et al. The physician factor in cesarean birth rates. *N Engl J Med* 1989; 320(11):706-9
- Greco D, Seccareccia F, D'Errigo P, Tosti ME, Badoni G et al.. Esiti a breve termine di interventi di Bypass Aortocoronarico nelle Cardiocirurgie italiane, *Ital Heart J* 2004; 5 (Suppl 3): 38S-48S
- Green J, Wintfeld N. Report cards on cardiac surgeons. Assessing New York State's approach. *N Engl J Med* 1995; 332:1229-32.
- Greenland S, Brumback B. An overview of relations among causal modelling methods. *International Journal of Epidemiology* 2002; 31:1030-1037
- Greenland S. Modeling and variable selection in epidemiologic analysis. *American Journal of Public Health* 1989; 79(3): 340-349
- Griffith BP, Hattler BG, Hardesty RL, Kormos RL, Pham SM, Bahnson HT. The need for accurate risk-adjusted measures of outcome in surgery. Lessons learned through coronary artery bypass. *Ann Surg* 1995; 222:593-8.
- Gross M. A critique of the methodologies used in clinical studies of hip-joint arthroplasty published in the English-language orthopaedic literature. *J Bone Joint Surg Am*. 1988 Oct;70(9):1364-71
- Grover FL, Hammermeister KE, Shroyer AL. Quality initiatives and the power of the database: what they are and how they run. *Ann Thorac Surg* 1995; 60:1514-21.

- Grover FL, Johnson RR, Shroyer AL, Marshall G, Hammermeister KE. The Veterans Affairs Continuous Improvement in Cardiac Surgery Study. *Ann Thorac Surg* 1994; 58:1845-51.
- Grover FL, Shroyer AL, Hammermeister K, Edwards FH, Ferguson TB, Jr., Dziuban SW, Jr. et al. A decade's experience with quality improvement in cardiac surgery using the Veterans Affairs and Society of Thoracic Surgeons national databases. *Ann Surg* 2001; 234:464-72.
- Grover FL, Shroyer AL, Hammermeister KE. Calculating risk and outcome: the Veterans Affairs database. *Ann Thorac Surg* 1996; 62(5 Suppl): S6-11; discussion S31-2
- Grunkemeier GL, Jin R. Receiver operating characteristic curve analysis of clinical risk models. *Ann Thorac Surg* 2001; 72:323-6.
- Grunkemeier GL, Payne N, Jin R, Handy JR, Jr. Propensity score analysis of stroke after off-pump coronary artery bypass grafting. *Ann Thorac Surg* 2002; 74:301-5.
- Grunkemeier GL, Zerr KJ, Jin R. Cardiac surgery report cards: making the grade. *Ann Thorac Surg* 2001; 72:1845-8.
- Grunkemeier GL, Zerr KJ, Jin R. Reply. *Ann Thorac Surg* 2002; 74:1749.
- Gudmundsson G, Gislason T, Lindberg E, Hallin R, Ulrik CS, Brondum E, Nieminen MM, Aine T, Bakke P, Janson C. Mortality in COPD patients discharged from hospital: the role of treatment and comorbidity. *Respir Res.* 2006;7:109.
- Guglielmi A, Ruzzenente A, Sandri M, Kind R, Lombardo F, Rodella L, Catalano F, de Manzoni G, Cordiano C. Risk assessment and prediction of rebleeding in bleeding gastroduodenal ulcer Endoscopy. 2002;34(10):778-86.
- Guillemin F, Bombardier C, Beaton D Cross-cultural adaptation of health-related quality of life measures: literature review and proposed guidelines. *J Clin Epidemiol* 1993 Dec;46(12):1417-32
- Guru V, Gong Y, Rothwell DM, Tu JV. Report on Cardiac Surgery in Ontario Fiscal Years 2000 & 2001. The Institute for Clinical Evaluative Sciences, Toronto Ontario, Canada in collaboration with the Steering Committee of the Cardiac Care Network of Ontario, 2003
- Gustafsson F, Torp-Pedersen C, Seibæk M et al. for the DIAMOND study group. Effect of age on short and long-term mortality in patients admitted to hospital with congestive heart failure. *European Heart Journal* 2004; 25:1711–1717.
- Haas JS, Udvarhelyi S, Epstein AM. The effect of health coverage for uninsured pregnant women on maternal health and the use of cesarean section. *JAMA* 1993; 270(1):61-4.
- Hammermeister KE, Johnson R, Marshall G, Grover FL. Continuous assessment and improvement in quality of care: a model from the Department of Veterans Affairs Cardiac Surgery. *Ann Surg* 1994; 219(3): 281-90
- Hammermeister KE. Participatory continuous improvement. *Ann Thorac Surg* 1994; 58:1815-21.
- Hanley JA, McNeil BJ. The meaning and use of the area under a receiver operating characteristic (ROC) curve. *Radiology* 1982; 143(1): 29-36
- Hannan EL, Kilburn H, Jr., Lindsey ML, Lewis R. Clinical versus administrative data bases for CABG surgery. Does it matter? *Med Care* 1992; 30:892-907.
- Hannan EL, Kilburn H, Jr., O'Donnell JF, Lukacik G, Shields EP. Adult open heart surgery in New York State. An analysis of risk factors and hospital mortality rates. *JAMA* 1990; 264:2768-74.
- Hannan EL, Kilburn H, Jr., Racz M, Shields E, Chassin MR. Improving the outcomes of coronary artery bypass surgery in New York State. *JAMA* 1994; 271:761-6.
- Hannan EL, Kumar D, Racz M, Siu AL, Chassin MR. New York State's Cardiac Surgery Reporting System: four years later. *Ann Thorac Surg* 1994; 58(6):1852-1857
- Hannan EL, Racz M, Ryan TJ, et al. Coronary angioplasty volume outcome relationships for hospitals and cardiologists. *JAMA* 1997;277: 892–898.
- Hannan EL, Racz MJ, Jollis JG, Peterson ED. Using Medicare claims data to assess provider quality for CABG surgery: does it work well enough? *Health Serv Res* 1997; 31:659-78.

- Hannan EL, Racz MJ, Walford G, Ryan TJ, Isom OW, Bennett E et al. Predictors of readmission for complications of coronary artery bypass graft surgery. *JAMA* 2003; 290:773-80.
- Hansell AL, Walk JA, Soriano JB. What do chronic obstructive pulmonary disease patients die from? A multiple cause coding analysis. *Eur Respir J* 2003; 22:809-14.
- Harrell FE, Jr. Regression modeling strategies with applications to linear models, logistic regression, and survival analysis. New York: Springer-Verlag; 2001.
- Harrell FE Jr, Lee KL, Mark DB. Multivariable prognostic models: issues in developing models, evaluating assumptions and adequacy, and measuring and reducing errors. *Stat Med* 1996; 15:361-87.
- Harris WH. Traumatic arthritis of the hip after dislocation and acetabular fractures: treatment by mold arthroplasty. An end-result study using a new method of result evaluation. *J Bone Joint Surg Am* 1969 Jun;51(4):737-55
- Hartz RS, Rao AV, Plomondon ME, Grover FL, Shroyer AL. Effects of race, with or without gender, on operative mortality after coronary artery bypass grafting: a study using The Society of Thoracic Surgeons national database. *Ann Thorac Surg* 2001; 71:512-20.
- Hasdai D, Behar S, Wallentin L, Danchin N, Gitt AK, Boersma E, Fioretti PM, Simoons ML, Battler A. A prospective survey of the characteristics, treatments and outcomes of patients with acute coronary syndromes in Europe and the Mediterranean basin; the Euro Heart Survey of Acute Coronary Syndromes (Euro Heart Survey ACS). *Eur Heart J*. 2002 Aug;23(15):1190-201.
- Hattler BG, Madia C, Johnson C, et al: Risk stratification using the Society of Thoracic Surgeons Program. *Ann Thorac Surg* 1994; 58:1348-52
- Hawker GA, Wright JG, Coyte PC, Williams JI, Harvey B, Glazier R, Badley EM Differences between men and women in the rate of use of hip and knee arthroplasty. *N Engl J Med* 2000 Apr 6;342(14):1016-22
- Hay JA, Lyubashevsky E, Elashoff J, et al. Upper gastrointestinal haemorrhage clinical guideline determining the optimal hospital length of stay. *Am J Med* 1996; 1000 (3):313-22.
- Health Commission. 2005 Performance Indicators. Clinical Indicator AS 403: Emergency readmissions to hospital within 28 days of discharge, as a percentage of live discharges for patients aged 16 years and over. Web site: [http://ratings.healthcarecommission.org.uk/Indicators\\_2005/Trust/Indicator/indicatorDescriptionShort.asp?indicatorId=1403](http://ratings.healthcarecommission.org.uk/Indicators_2005/Trust/Indicator/indicatorDescriptionShort.asp?indicatorId=1403)
- Health Grades. The Third Annual HealthGrades Hospital Quality and Clinical Excellence Study. Lakewood, CO: Health Grades; January 2005. <http://www.qualityindicators.ahrq.gov>
- Health Survey in nine countries: results from the IQOLA Project. *J Clin Epidemiol*. 1998Nov;51(11):1171-8
- Henderson J, Goldacre MJ, Graveny MJ and Simmons HM (1989). Use of medical record linkage to study readmission rates. *BMJ* 299:709-13
- Henry T. Contemporary challenges in the management of acute myocardial infarction: ST-elevation myocardial infarction guidelines and the real world. *Am Heart J*. 2006 Jun;151(6 Suppl):S11-6.
- Higgins TL, Estafanous FG, Loop FD, et al. Stratification of morbidity and mortality outcome by preoperative risk factors in coronary artery bypass patients: a clinical severity score. *JAMA* 1992; 267(17): 2344-8
- Hirsch HS. Total joint replacement: a cost-effective procedure for the 1990s. *Med Health R I* 1998 May;81(5):162-4
- Hobson II RW, Howard VJ, Roubin GS, Ferguson RD, Brott TG, Howard G, Sheffet AJ,
- Holguin F, Folch E, C. Redd S and D. Mannino. Comorbidity and Mortality in COPD related hospitalizations in the United States, 1979 to 2001. *Chest* 2005; 128: 2005-2011
- Hordijk-Trion M, Lenzen M, Wijns W, de Jaegere P, Simoons ML, Scholte op Reimer WJ, Bertrand ME, Mercado N, Boersma E; EHS-CR Investigators. Patients enrolled in coronary intervention trials are not representative of patients in clinical practice: results from the Euro Heart Survey on Coronary Revascularization. *Eur Heart J*. 2006 Mar;27(6):671-8. Epub 2006 Jan 19.

- Hosmer DW, Lemeshow S. Applied Logistic Regression. New York: John Wiley & Sons; 1989.
- Hozack WJ, Rothman RH, Albert TJ et al. Relationship of total hip arthroplasty outcomes to other orthopaedic procedures. Clin Orthop 1997 Nov;(344):88-93 [http://www.jcaho.org/pms/core+measures/aligned\\_manual.htm](http://www.jcaho.org/pms/core+measures/aligned_manual.htm)
- Iezzoni LI, Ash AS, Shwartz M, Daley J et al. Predicting Who Dies Depends on How Severity Is Measured. Implications for Evaluating Patient Outcomes. Ann Intern Med 1995; 123(10): 763-770
- Iezzoni LI, Ash AS, Shwartz M, Daley J, Hughes JS, Mackierman YD. Judging hospitals by severity-adjusted mortality rates: the influence of the severity-adjustment method, American Journal of Public Health 1996; 86: 1379-87.
- Iezzoni LI, Shwartz M, Ash AS, Hughes JS, Daley J, Mackiernan YD, et al. Evaluating severity adjustors for patient outcome studies. Final report. Prepared for the Agency for Health Care Policy and Research under grant no. RO1-HS06742. Boston: Beth Israel Hospital, 1995
- Iezzoni LI. Risk Adjustment for Measuring Health Care Outcomes (2nd edition). Michigan: Health Administration Press Ann Arbor; 1997.
- Iezzoni LI. Risk adjustment for measuring healthcare outcomes. Chicago: Health Administration Press; 1997.
- Iezzoni LI. The risks of risk adjustment. JAMA 1997; 278:1600-7.
- Ishii J, Cui W, Kitagawa F, et al. Prognostic value of combination of cardiac troponin T and B-type natriuretic peptide after initiation of treatment in patients with chronic heart failure. Clin Chem. 2003;49: 2020-2026.
- Israel RA, Rosenberg HM, Curtin LR. Analytical potential for multiple cause-of-death data. Am J Epidemiol 1986; 124:161-179.
- Ivanov J, Tu JV, Naylor CD. Ready-made, recalibrated, or remodeled? Issues in the use of risk indexes for assessing mortality after coronary artery bypass graft surgery. Circulation 1999; 99:2098-104.
- J J W Roche, R T Wenn, O Sahota and C G Moran Effect of comorbidities and postoperative complications on mortality after hip fracture in elderly people: prospective observational cohort study. BMJ 2005;331;1374.
- Jamieson WR, Edwards FH, Schwartz M, Bero JW, Clark RE, Grover FL. Risk stratification for cardiac valve replacement. National Cardiac Surgery Database. Database Committee of The Society of Thoracic Surgeons. Ann Thorac Surg 1999; 67:943-51.
- Johanson NA, Charlson ME, Szatrowski TP, Ranawat CS A self-administered hip-rating questionnaire for the assessment of outcome after total hip replacement. J Bone Joint Surg Am 1992 Apr;74(4):587-97
- Johnston RC, Fitzgerald RH Jr, Harris WH et al. Clinical and radiographic evaluation of total hip replacement. J Bone Joint Surg Am 1990; 72, 161-169
- Jollis JG, Peterson ED, DeLong ER, et al. The relation between the volume of coronary angioplasty procedures at hospitals treating Medicare beneficiaries and short-term mortality. N Engl J Med. 1994;331: 1625–1629.
- Jones RH, Hannan EL, Hammermeister KE, DeLong ER, O'Connor GT, Luepker RV et al. Identification of preoperative variables needed for risk adjustment of short-term mortality after coronary artery bypass graft surgery. The Working Group Panel on the Cooperative CABG Database Project. J Am Coll Cardiol 1996; 28:1478-87.
- Jones RH. In search of the optimal surgical mortality. Circulation 1989; 79:I132-I136.
- Juliard JM, Feldman LJ, Golmard JL et al. Relation of mortality of primary angioplasty during acute myocardial infarction to door-to-Thrombolysis In Myocardial Infarction (TIMI) time. Am J Cardiol. 2003 Jun 15;91(12):1401-5.
- Kaegi L. Medical Outcomes Trust Conference presents dramatic advances in patient-based outcomes assessment and potential applications in accreditation. Jt Comm J Qual Improv 1999 Apr;25(4):207-18

- Kalla K, Christ G, Karnik R, Malzer R, Norman G, Prachar H, Schreiber W, Unger G, Glogar HD, Kaff A, Laggner AN, Maurer G, Mlczoch J, Slany J, Weber HS, Huber K; Vienna STEMI Registry Group. Implementation of guidelines improves the standard of care: the Viennese registry on reperfusion strategies in ST-elevation myocardial infarction (Vienna STEMI registry). *Circulation*. 2006 May 23;113(20):2398-405. Epub 2006 May 15.
- Kantz ME, Harris WJ, Levitsky K, Ware JE Jr, Davies AR. Methods for assessing condition-specific and generic functional status outcomes after total knee replacement. *Med Care* 1992 May;30(5S):MS240-52
- Karciogcaron;lu O, Unal Aslan B, Aslan O. Gender differences in the management and survival of patients with acute myocardial infarction. *Eur J Intern Med*. 2002 Dec;13(8):474-479.
- Karolinska Institutet, Sweden Daley J. Criteria by which to evaluate risk-adjusted outcomes programs in cardiac surgery. *Ann Thorac Surg* 1994; 58:1827-35.
- Katz JN, Wright EA, Guadagnoli E, Liang MH, Karlson EW, Cleary PD Differences between men and women undergoing major orthopedic surgery for degenerative arthritis. *Arthritis Rheum* 1994 May;37(5):687-94
- Katzen BT, Ohki T, Gray WA, Smith JAM, Murphy KP. CAS accreditation roundtable. *Endovasc Today* 2004;3:47-60.
- Keller RB, Soule DN, Wennberg JE, Hanley DF. Dealing with geographic variations in the use of hospitals. The experience of the Maine Medical Assessment Foundation Orthopaedic Study Group. *J Bone Joint Surg Am*. 1990 Oct;72(9):1286-93.
- Kent KM, Bentivoglio LG, Block PC, et al. Percutaneous transluminal coronary angioplasty: report from the Registry of the National Heart, Lung, and Blood Institute. *Am J Cardiol* 1982;49:2011–20.
- Kerzner R, Gage BF, Freedland KE, Rich MW. Predictors of mortality in younger and older patients with heart failure and preserved or reduced left ventricular ejection fraction. *Am Heart J*. 2003;146:286-290.
- Kimmel SE, Berlin JA, Strom BL, Laskey WK. Development and validation of simplified predictive index for major complications in contemporary percutaneous transluminal coronary angioplasty practice: the Registry Committee of the Society for Cardiac Angiography and Interventions. *J Am Coll Cardiol* 1995;26:931– 8.
- Kleinbaum DG, Kupper LL, Morgenstern H. *Epidemiologic Research. Principles and quantitative methods*. New York: Van Nostrand Reinhold Company Inc., 1982
- Kleinbaum DG, Kupper LL, Muller KE, Nizam A. *Applied Regression Analysis and other multivariable methods*. Duxbury Press by Brooks/Cole Publishing Company 3rd ed., 1998
- Kleinbaum DG. *Epidemiologic methods: the “art” in the state of the art*. *J Clin Epidemiol*. 2002; 55(12):1196-1200
- Knaus WA, Wagner DP, Draper EA, Zimmerman JE, Bergner M, Bastos PG, et al. The APACHE III prognostic system. Risk prediction of hospital mortality for critically ill hospitalized adults. *Chest* 1991;100:1619-36
- Knaus WA, Wagner DP, Zimmerman JE., Draper EA. Variations in Mortality and Length of Stay in Intensive Care Units. *Annals of Internal Medicine* 1993; 118(10): 753-761
- Kosiborod M, Smith GL, Radford MJ, Foody JM, Krumholz HM. The prognostic importance of anemia in patients with heart failure. *Am J Med*. 2003;114:112- 119.
- Kouchoukos NT, Ebert PA, Grover FL, Lindesmith GG. Report of the Ad Hoc Committee on Risk Factors for Coronary Artery Bypass Surgery. *Ann Thorac Surg* 1988; 45:348-9.
- Kritchevsky SB, Braun BI, Gross PA, Newcom CS, Kelleher CA, Simmons BP. Definition and adjustment of caesarean section rates and assessments of hospital performance. *International Journal for Quality of Health Care* 1999; 11(4):283-291
- Krumholz HM, Anderson JL, Brooks NH, Fesmire FM, Lambrew CT, Landrum MB, Weaver WD, Whyte J, Bonow RO, Bennett SJ, Burke G, Eagle KA, Linderbaum J, Masoudi FA, Normand SL, Pina IL, Radford MJ, Rumsfeld JS, Ritchie JL, Spertus JA; American College of Cardiology/American

Heart Association Task Force on Performance Measures; Writing Committee to Develop Performance Measures on ST-Elevation and Non-ST-Elevation Myocardial Infarction.

- Krumholz HM. Mathematical models and the assessment of performance in cardiology. *Circulation* 1999; 99:2067-9.
- Kuch B, Bolte HD, Hoermann A, Meisinger C, Loewel H. What is the real hospital mortality from acute myocardial infarction? Epidemiological vs clinical view. *Eur Heart J*. 2002 May;23(9):714-20.
- Lampe FC, Morris RW, Walker M, Shaper AG, Whincup PH. Trends in rates of different forms of diagnosed coronary heart disease, 1978 to 2000: prospective, population based study of British men.
- Landon B, Iezzoni LI, Ash AS, Shwartz M, Daley J, Hughes JS et al. Judging hospitals by severity-adjusted mortality rates: the case of CABG surgery. *Inquiry* 1996; 33:155-66.
- Lang I, Willert HG. Experiences with the German Endoprosthesis Register (in German). *Z Arztl Fortbild Qualitatssich*2001;95(3):203-8.
- Lapandry C, Laperche T, Lambert Y, Sauval P, Zurek M, Fosse S. Pre-hospital management of acute coronary syndromes with ST elevation in the Ile-de-France Region: the E-MUST registry. *Arch Mal Coeur Vaiss*. 2005 Nov;98(11):1137-42.
- Laupacis A, Bourne R, Rorabeck C, Feeny D, Wong C, Tugwell P, Leslie K, Bullas R The effect of elective total hip replacement on health-related quality of life. *J Bone Joint Surg Am* 1993 Nov;75(11):1619-26
- Lee DS, Austin PC, Rouleau JL, Liu PP, Naimark D, Tu JV. Predicting mortality among patients hospitalized for heart failure: derivation and validation of a clinical model. *JAMA* 2003;290:2581-2587.
- Leibson CL, Naessens JM, Brown RD, Whisnant JP. Accuracy of hospital discharge abstracts for identifying stroke. *Stroke*. 1994;25:2348–2355.
- Lenzen M, Scholte op Reimer W, Norekval TM, De Geest S, Fridlund B, Heikkila J, Jaarsma T, Martensson J, Moons P, Smith K, Stewart S, Stromberg A, Thompson DR, Wijns W. Pharmacological treatment and perceived health status during 1-year follow up in patients diagnosed with coronary artery disease, but ineligible for revascularization. Results from the Euro Heart Survey on Coronary Revascularization. *Eur J Cardiovasc Nurs*. 2006 Jun;5(2):115-21. Epub 2006 Mar 10.
- Lenzen MJ, Boersma E, Bertrand ME, Maier W, Moris C, Piscione F, Sechtem U, Stahle E, Widimsky P, de Jaegere P, Scholte op Reimer WJ, Mercado N, Wijns W; European Society of Cardiology. Management and outcome of patients with established coronary artery disease: the Euro Heart Survey on coronary revascularization. *Eur Heart J*. 2005 Jun;26(12):1169-79. Epub 2005 Mar 31.
- Lester DK, Linn LS. Variation in hospital charges for total joint arthroplasty: an investigation of physician efficiency. *Orthopedics*. 2000 Feb;23(2):137-40
- Liang MH, Cullen K, Larson M, Thompson MS, Schwartz JA, Fossel AH, Roberts WN, Sledge CB. Costeffectiveness of total joint arthroplasty in osteoarthritis. *Arthritis Rheum* 1986;29(8):937–943
- Liberati A. *La Medicina delle Prove di Efficacia. Potenzialità e limiti della Evidence Based Medicine*. Il Pensiero Scientifico ed., Roma 1997
- Lieberman JR, Dorey F, Shekelle P et al. Differences between patient's and physician's evaluations of outcome after total hip arthroplasty. *J Bone Joint Surg* 1996; 78A: 835-838.
- Lieberman JR, Dorey F, Shekelle P, Schumacher L, Kilgus DJ, Thomas BJ, Finerman GA Outcome after total hip arthroplasty. Comparison of a traditional disease-specific and a quality-of-life measurement of outcome. *J Arthroplasty* 1997 Sep;12(6):639-45
- Linton A, Peterson MR. Effect of Preexisting Chronic Disease on Primary Cesarean Delivery Rates by Race for Births in U.S. Military Hospitals, 1999–2002. *Birth* 2004; 31(3): 165-175
- Lippmann RP, Shahian DM. Coronary artery bypass risk prediction using neural networks. *Ann Thorac Surg* 1997; 63:1635-43.
- Little RJA, Rubin DB. *Statistical analysis with missing data*. Hoboken: Wiley-Interscience; 2002.
- Luepker RV, Apple FS, Christenson RH, Crow RS, Fortmann SP, Goff D, Goldberg RJ, Hand MM, Jaffe AS, Julian DG, Levy D, Manolio T, Mendis S, Mensah G, Pajak A, Prineas RJ, Reddy KS,

Roger VL, Rosamond WD, Shahar E, Sharrett AR, Sorlie P, Tunstall-Pedoe H; AHA Council on Epidemiology and Prevention; AHA Statistics Committee; World Heart Federation Council on Epidemiology and Prevention; European Society of Cardiology Working Group on Epidemiology and Prevention; Centers for Disease Control and Prevention; National Heart, Lung, and Blood Institute. Case definitions for acute coronary heart disease in epidemiology and clinical research studies: a statement from the AHA Council on Epidemiology and Prevention; AHA Statistics Committee; World Heart Federation Council on Epidemiology and Prevention; the European Society of Cardiology Working Group on Epidemiology and Prevention; Centers for Disease Control and Prevention; and the National Heart, Lung, and Blood Institute. *Circulation*. 2003 Nov 18;108(20):2543-9. Epub 2003 Nov 10.

- Luft HS, Romano PS. Chance, continuity, and change in hospital mortality rates. Coronary artery bypass graft patients in California hospitals, 1983 to 1989. *JAMA* 1993; 270:331-7.
- Macellari V, Bendandi A, Maroccia Z, Frustagli G, Chistolini P, Palmieri S, Torre M. Progetto EIPA: valutazione degli esiti di intervento di artroprotesi di anca. Rapporto finale. Roma: Istituto Superiore di Sanità; 2005. (Rapporti ISTISAN 05/32). Disponibile all'indirizzo <http://www.iss.it/publ/rapp/cont.php?id=1819&lang=1&tipo=5&anno=2005>; ultima consultazione 10/03/06.
- MacIntyre K, Capewell S, Stewart S et al. Evidence of Improving Prognosis in Heart Failure. Trends in Case Fatality in 66 547 Patients Hospitalized Between 1986 and 1995. *Circulation* 2000;102:1126-1131.
- Malacrida R, Genoni M, Maggioni AP. A comparison of the early outcome of acute myocardial infarction in women and men. *N Engl J Med* 1998;338:8-14.
- Mandelzweig L, Battler A, Boyko V, Bueno H, Danchin N, Filippatos G, Gitt A, Hasdai D, Hasin Y, Marrugat J, Van de Werf F, Wallentin L, Behar S; Euro Heart Survey Investigators. The second Euro Heart Survey on acute coronary syndromes: Characteristics, treatment, and outcome of patients with ACS in Europe and the Mediterranean Basin in 2004. *Eur Heart J*. 2006 Oct;27(19):2285-93. Epub 2006 Aug 14.
- Mannino DM, Brown C, Giovino GA. Obstructive lung disease deaths in the United States from 1979 through 1993. *Am J Respir Crit Care Med* 1997; 156: 814-818.
- Mannino DM, Buist AS, Petty TL, Enright PL and Redd SC. Lung function and mortality in the United States: data from the first National Health and Nutrition Examination Survey follow up study. *Thorax* 2003; 58; 388-393
- March LM, Cross MJ, Lapsley H, Brnabic AJ, Tribe KL, Bachmeier CJ, Courtenay BG, Brooks PM. Outcomes after hip or knee replacement surgery for osteoarthritis. A prospective cohort study comparing patients' quality of life before and after surgery with age-related population norms. *Med J Aust* 1999 Sep 6;171(5):235-8
- Mariotti R, Mauri F, Barsotti A, Mazzotta G; Commissioni per le Linee Guida ANMCO-SIC. Revision and update of guidelines on acute ischemic cardiopathy. *Acute myocardial infarction Ital Heart J Suppl*. 2001 May;2(5):510-52.
- Markson LE, Nash DB, Louis DZ, Gonnella JS. Clinical outcomes management and disease staging. *Evaluation and the Health Professions* 1991; 14(2): 201-27
- Marrugat J, Elosua R, Aldasoro E, Tormo MJ, Vanaclocha H, Segura A, Fiol M, Moreno-Iribas C, Perez G, Arteagoitia JM, Cirera L, Cabades A, Vega G, Ayestaran JI, Garcia V, Hurtado-de-Saracho I, Garcia J, Zurriaga O, Muniz J, Sala J; Investigacion Busqueda Especifica y Registro de; Isquemia Coronaria Aguda Investigators. Regional variability in population acute myocardial infarction cumulative incidence and mortality rates in Spain 1997 and 1998. *Eur J Epidemiol*. 2004;19(9):831-9.
- Marrugat J, Sala J, Aboal J. Epidemiology of cardiovascular disease in women. *Rev Esp Cardiol*. 2006 Mar;59(3):264-74.
- Marshall G, Grover FL, Henderson WG, Hammermeister KE. Assessment of predictive models for binary outcomes: an empirical approach using operative death from cardiac surgery. *Stat Med* 1994; 13:1501-11.

- Marshall G, Henderson WG, Moritz TE, Shroyer AL, Grover FL, Hammermeister KE. Statistical methods and strategies for working with large data bases. *Medical Care* 1995; 33(10 Suppl):OS35-42
- Marti H, Perez-Barcena J, Fiol M, Marrugat J, Navarro C, Aldasoro E, Cabades A, Segura A, Masia R, Turumbay J, Cirera L, Arteagoitia JM, Tomas CA, Vega G, Sala J, de Los Arcos E, Tormo MJ, Hurtado-de-Saracho I, Frances-Sempere M, Elosua R; Investigadores del estudio IBERICA. Analysis with the propensity score of the association between likelihood of treatment and event of interest in observational studies. An example with myocardial reperfusion *Rev Esp Cardiol*. 2005 Feb;58(2):126-36.
- Martinez-Alario J, Tuesta ID, Plasencia E, et al. Mortality prediction in cardiac surgery patients: comparative performance of Parsonnet and general severity systems. *Circulation* 1999; 99: 2378-2382
- Mavroudis C, Gevitz M, Ring WS, McIntosh CL, Schwartz M. The Society of Thoracic Surgeons National Congenital Heart Surgery Database Report: analysis of the first harvest (1994-1997). *Ann Thorac Surg* 1999; 68:601-24.
- McNamee R. Confounding and confounders. *Occupational and Environmental Medicine* 2003; 60: 227-23
- Meehan TP, Hennen J, Radford MJ, et al. Process and outcome of care for acute myocardial infarction among Medicare beneficiaries in Connecticut: a quality improvement demonstration project. *Ann Intern Med* 1995;122(12):928-36.
- Mendenhall S. DRGs must be changed to take patient's illness severity into account. *Modern Healthcare* 1984 Nov 15; 14(15): 86-8
- Merle D'Aubignè R, Postel M. Functional results of hip arthroplasty with acrylic prosthesis. *J Bone Joint Surg Am* 1954; 36, 451
- Miettinen OS, Cook EF. Confounding: essence and detection. *American Journal of Epidemiology* 1981; 114: 593-603
- Ministero della salute, 2002. [www.ministerosalute.it](http://www.ministerosalute.it)
- Ministero della Salute. Piano Sanitario Nazionale 2006-2008. DPR 7 aprile 2006 - G.U. n. 139 del 17-06-2006 - Suppl. Ordinario n. 149
- Moriel M, Behar S, Tzivoni D, Hod H, Boyko V, Gottlieb S. Management and outcomes of elderly women and men with acute coronary syndromes in 2000 and 2002. *Arch Intern Med*. 2005 Jul 11;165(13):1521-6.
- Muir Gray JA. L'assistenza sanitaria basta sulle prove. 1999 Centro Scientifico Editore, Torino
- Naftel DC. Do different investigators sometimes produce different multivariable equations from the same data? *J Thorac Cardiovasc Surg* 1994; 107:1528-9.
- Nappi C, Guida M. Complicanze, errori e problematiche medico-legali in Ostetricia e Ginecologia. CIC Edizioni Internazionali 2004
- Nashef SA, Roques F, Hammill BG, Peterson ED, Michel P, Grover FL et al. Validation of European System for Cardiac Operative Risk Evaluation (EuroSCORE) in North American cardiac surgery. *Eur J Cardiothorac Surg* 2002; 22:101-5.
- Nashef SA, Roques F, Michel P, Gauducheau E, Lemeshow S, Salamon R. European system for cardiac operative risk evaluation (EuroSCORE). *Eur J Cardiothorac Surg* 1999; 16:9-13.
- National Centre for Health Outcomes Development. Report of a working group to the Department of Health: Health Outcome Indicators. Fractured proximal femur. Oxford, 2000.
- National Service Framework for Coronary Heart Disease: Modern Standards and Service Models. London: Department of Health, March 2000.
- Nationwide Inpatient Sample and State Inpatient Databases. Healthcare Cost and Utilization Project. Agency for Healthcare Research and Quality, Rockville, MD.
- Newby LK, Rutsch WR, Califf RM, et al. Time from symptom onset to treatment and outcomes after thrombolytic therapy: GUSTO-1 Investigator. *J Am Coll Cardiol*. 1996;27:1646-1655.
- NHS Performance Indicators : February 2002. Clinical effectiveness and outcomes. Web site: <http://www.performance.doh.gov.uk/nhsperformanceindicators/2002/trust.html>

- NHS Performance indicators: July 2000
- NHS: Healthcare Commission, 2005 Performance Indicators. “Clinical Indicator AS402\*: Emergency readmission to hospital within 28 days of treatment for a fractured hip”; web site: [http://ratings.healthcarecommission.org.uk/Indicators\\_2005/downloads/1402c.pdf](http://ratings.healthcarecommission.org.uk/Indicators_2005/downloads/1402c.pdf)
- Nieuwlaat R, Lenzen M, Crijns HJ, Prins MH, Scholte op Reimer WJ, Battler A, Hasdai D, Danchin N, Gitt AK, Simoons ML, Boersma E. Which factors are associated with the application of reperfusion therapy in ST-elevation acute coronary syndromes?. Lessons from the Euro Heart Survey on Acute Coronary Syndromes I. *Cardiology*. 2006;106(3):137-46. Epub 2006 Apr 21.
- Nobilio N, Fortuna D, Vizioli M, Berti E et al. Impact of regionalisation of cardiac surgery in Emilia-Romagna, Italy, *J Epidemiol Community Health* 2004; 58: 97-102.
- Normand S-LT, Glickman ME, Gatsonis C.A. Statistical methods for profiling providers of medical care: issues and applications. *J Am Stat Assoc* 1997; 92:803-14.
- Norris RM. Fatality outside hospital from acute coronary events in three British districts, 1994–5. United Kingdom Heart Attack Study Collaborative Group. *BMJ* 1998; 316:1065–70.
- Novello AC et al., Cardiac Surgery Reporting System Analysis Workgroup. Adult Cardiac Surgery in New York State 1999-2001, New York State Department of Health 2004.
- Nursing Home Quality Measures Resource Manual. Revised Resource Manual, Texas Medical Foundation 2004 (<http://www.tmf.org/nursinghomes/manual/>)
- O'Connor GT, Plume SK, Olmstead EM, Coffin LH, Morton JR, Maloney CT et al. A regional prospective study of in-hospital mortality associated with coronary artery bypass grafting. The Northern New England Cardiovascular Disease Study Group. *JAMA* 1991; 266:803-9.
- O'Connor GT, Plume SK, Olmstead EM, Coffin LH, Morton JR, Maloney CT et al. Multivariate prediction of in-hospital mortality associated with coronary artery bypass graft surgery. Northern New England Cardiovascular Disease Study Group. *Circulation* 1992; 85:2110-8.
- O'Connor GT, Plume SK, Olmstead EM, Morton JR, Maloney CT, Nugent WC et al. A regional intervention to improve the hospital mortality associated with coronary artery bypass graft surgery. The Northern New England Cardiovascular Disease Study Group. *JAMA* 1996; 275:841-6.
- OECD Technical Report: Using hospital administrative data bases for a disease-based approach to studying health care systems – Pierre moise, August 2001
- O'Keefe K. Accounting for Severity of Illness in Acutely Hospitalized Patients: a Framework for Clinical Decision Support using DYNAMO. Wipro GE Healthcare. Copyright General Electric Company 1997-2005 ([http://www.gehealthcare.com/inen/prod\\_sol/hcare/resources/library/article07.html](http://www.gehealthcare.com/inen/prod_sol/hcare/resources/library/article07.html))
- Organisation for Economic Co-operation and Development (OECD) 2004. Surgical procedures: Caesarean section. <http://www.oecd.org/dataoecd/13/55/31963408.xls>
- Orr RK. Use of a probabilistic neural network to estimate the risk of mortality after cardiac surgery. *Med Decis Making* 1997; 17:178-85.
- Osswald BR, Blackstone EH, Tochtermann U, Thomas G, Vahl CF, Hagl S. The meaning of early mortality after CABG. *Eur J Cardiothorac Surg* 1999; 15:401-7.
- Osswald BR, Tochtermann U, Schweiger P, Gohring D, Thomas G, Vahl CF et al. Minimal early mortality in CABG--simply a question of surgical quality? *Thorac Cardiovasc Surg* 2002; 50:276-80.
- Padua R, Romanini E, Zanolli G. L'analisi dei risultati nella patologia dell'apparato locomotore. Guerini e Associati, Milano 1998
- Pannelli F, Montanaro F, Pascucci C, Mirabelli D, Gennaro V. Mesothelioma incidence and time trend in the worlds *Med Lav*. 2006; 97(5):682-93
- Parma A, Fiorilli R, Nazzaro MS et al. Primary coronary angioplasty in ST-elevation myocardial infarction: prediction of the thirty-day mortality risk in an unselected population of patients. *Ital Heart J* 2004; 5 (6): 431-440.
- Parsonnet V, Bernstein AD, Gera M. Clinical usefulness of risk-stratified outcome analysis in cardiac surgery in New Jersey. *Ann Thorac Surg* 1996; 61(2 Suppl):S8-11; discussion S33-4

- Parsonnet V, Dean D, Bernstein A, A method of uniform stratification of risk for evaluating the results of surgery in acquired heart disease, *Circulation* 1989; 79: 12-13.
- Parsonnet V, Dean D, Bernstein AD. A method of uniform stratification of risk for evaluating the results of surgery in acquired adult heart disease. *Circulation* 1989; 79:13-12.
- Parsonnet V. Risk stratification in cardiac surgery: is it worthwhile? *J Card Surg* 1995; 10:690-8.
- Patil SP, Krishnam JA, Lechtzin N, Diette GB. In-hospital mortality following acute exacerbations of chronic pulmonary disease. *Arch Intern Med* 2003; 163:1180-1186.
- Pearson ML, Stecher B. Risk Adjustment Methods in Health Care Accountability. In Stecher B, Kirby SN, (eds). *Organizational Improvement and Accountability: Lessons for Education from Other Sectors*, RAND, MG-136-WFHF, Chapter 7, 2004, pp. 95-105
- Pearte CA, Furberg CD, O'Meara ES, Psaty BM, Kuller L, Powe NR, Manolio T. Characteristics and baseline clinical predictors of future fatal versus nonfatal coronary heart disease events in older adults: the Cardiovascular Health Study. *Circulation*. 2006 May 9;113(18):2177-85. Epub 2006 May 1.
- Pecorelli F, Gillio A, Padua R, Romanini E, Di Biagi G. Qualità della vita e protesi d'anca. *Atti del Congresso "Le protesi d'anca alle soglie del 2000"*. Pescara, luglio 1999.
- Pennsylvania Health Care Cost Containment Council. *Pennsylvania's Guide to Coronary Artery Bypass Graft Surgery 2002*. Harrisburg, PA: Pennsylvania Health Care Cost Containment Council; March 2004.
- Peterson ED, Coombs LP, DeLong ER, Haan CK, Ferguson TB. Use of procedural volume as a marker of bypass surgery quality: results from the Society of Thoracic Surgeons' National Cardiac Database. *JAMA* 2004.
- Peterson ED, Coombs LP, Ferguson TB, Shroyer AL, DeLong ER, Grover FL et al. Hospital variability in length of stay after coronary artery bypass surgery: results from the Society of Thoracic Surgeon's National Cardiac Database. *Ann Thorac Surg* 2002; 74:464-73.
- Peterson ED, DeLong ER, Jollis JG, Muhlbaiier LH, Mark DB. The effects of New York's bypass surgery provider profiling on access to care and patient outcomes in the elderly. *J Am Coll Cardiol* 1998; 32:993-9.
- Peterson MG, Hollenberg JP, Szatrowski TP, Johanson NA, Mancuso CA, Charlson ME. Geographic variations in the rates of elective total hip and knee arthroplasties among Medicare beneficiaries in the United States. *J Bone Joint Surg Am* 1992;74(10):1530-6
- Petty TL. Definition, epidemiology, course, and prognosis of COPD. *Clin Cornerstone* 2003; 5:1-10
- Pinna-Pintor P, Bobbio M, Colangelo S, Veglia F, Giammaria M, Cuni D et al. Inaccuracy of four coronary surgery risk-adjusted models to predict mortality in individual patients. *Eur J Cardiothorac Surg* 2002; 21:199-204.
- Prabhakar G, Haan CK, Peterson ED, Coombs LP, Cruzzavala JL, Murray GF. The risks of moderate and extreme obesity for coronary artery bypass grafting outcomes: a study from the Society of Thoracic Surgeons' database. *Ann Thorac Surg* 2002; 74:1125-31.
- Pynsent PB, Fairbank JCT and Carr A. *Outcome measures in Orthopaedics*. Butterworth-Heinemann, Oxford, 1993
- *Quality of care for Medicare beneficiaries. Report to the Congress: Medicare Payment Policy*. March 2004; chapter 2: 31-50.
- Raitt MH, Maynard C, Wagner GS, et al. Relation between symptom duration before thrombolytic therapy and final myocardial infarct size. *Circulation* 1996; 93:48-53.
- Ranawat CS, Rothman RH. All change is not progress. *J Arthroplasty* 1998; 13(2): 121-2
- Rasmussen S, Abildstrom SZ, Rosen M, Madsen M. Case-fatality rates for myocardial infarction declined in Denmark and Sweden during 1987-1999. *J Clin Epidemiol*. 2004 Jun;57(6):638-46.
- Reina A, Colmenero M, Aguayo de Hoyos E, Aros F, Marti H, Claramonte R, Cunat J; on behalf of the PRIAMHO II Investigators. Gender differences in management and outcome of patients with acute myocardial infarction. *Int J Cardiol*. 2006 Jul 13; [Epub ahead of print]

- Relazione sullo stato sanitario del paese – Ministero della Sanita', Servizio Studi e Documentazioni, Italy
- Relman A. Assessment and Accountability. The third revolution in medical care. *N Engl J Med* 1988; 319: 1220-1222
- Ritchie JL, Maynard C, Chapko MK, et al. Association between percutaneous transluminal coronary angioplasty volumes and outcomes in the Healthcare Costs and Utilization Project 1993-4. *Am J Cardiol.* 1999;83: 493-497.
- Ritter MA, Albohm MJ. Overview: maintaining outcomes for total hip arthroplasty. The past, present, and future. *Clin Orthop*, 81-7, 1997
- Roberts J., Hopkins L, Moore WS, for the CREST Investigators. Credentialing of surgeons as interventionalists for carotid artery stenting: Experience from the lead-in phase of CREST *J Vasc Surg* 2004;40:952-7.
- Robins JM, Greenland S. The role of model selection in causal inference from nonexperimental data. *American Journal of Epidemiology* 1986;123(3): 392-402
- Rockall TA, Logan RF, Devlin HB, et al. Variation in outcome after acute upper gastrointestinal haemorrhage. *The National Audit of Acute Upper Gastrointestinal Haemorrhage. Lancet* 1995; 346(8971):346-50
- Rockall TA, Logan RF, Devlin HB, Northfield TC. Influencing the practice and outcome in acute upper gastrointestinal haemorrhage. Steering Committee of the National Audit of Acute Upper Gastrointestinal Haemorrhage. *Gut.* 1997 Nov;41(5):606-11.
- Romanini E, Padua R, Padua S, Romanini L, Sanguinetti C. Analisi dei risultati in Ortopedia: significato della prospettiva del paziente. *Giornale Italiano di Ortopedia e Traumatologia* 1997; 23: 543-547
- Romanini E, Padua R, Zanoli G, Nizegorodcew T, Massari L, Soccetti A, Tartarone M. Rapporto costibenefici nelle scelte terapeutiche nel paziente anziano: quali benefici e come misurarli? *Giornale Italiano di Ortopedia e Traumatologia* 2000, in stampa
- Romanini E, Padua R, Zanoli G. Outcomes assessment with the MODEMS questionnaires: cross-cultural adaptation and validation of the Italian version. *Quality of Life Research* 1999; 8: 567
- Romano PS, Chan BK. Risk-adjusting acute myocardial infarction mortality: are APR-DRGs the right tool? *Health Serv Res.* 2000;34(7):1469-89.
- Roques F, Nashef SAM, Michel P, Gauducheau E et al, Risk factors and outcome in European cardiac surgery: analysis of the EuroSCORE multinational database of 19030 patients, *European Journal of Cardio-thoracic Surgery* 1999; 15: 816-823.
- Rothman KJ, Greenland, eds. *Modern epidemiology.* Philadelphia: Lippincott-Raven 2nd ed., 1998
- Roubin GS, New G, Iyer SS, Vitek JJ, Al-Mubarak N, Liu MW, et al. Immediate and late clinical outcomes of carotid artery stenting in patients with symptomatic and asymptomatic carotid artery stenosis. *Circulation* 2001;103:532-7.
- Rudd A, Goldacre M, Amess M, Fletcher J, Wilkinson E, Mason A, Fairfield G, Eastwood A, Cleary R, Coles J (eds). *Health Outcome Indicators: Stroke. Report of a working group to the Department of Health.* Oxford: National Centre for Health Outcomes Development, 1999. NHS Performance Indicators: February 2002. Website: <http://www.performance.doh.gov.uk/nhsperformanceindicators/2002/trust.html>
- Rudo TJ, Kowey PR. Real-world algorithms for the optimal use of drugs and devices in the patient post myocardial infarction and the future of post myocardial infarction management. *Clin Cardiol.* 2005 Nov;28(11 Suppl 1):I58-63.
- Sackett DL, Richardson WS, Rosenberg W, Haynes RB. *Evidence-based Medicine.* Churchill Livingstone 1998
- Salomaa V, Ketonen M, Koukkunen H, Immonen-Raiha P, Jerkkola T, Karja-Koskenkari P, Mahonen M, Niemela M, Kuulasmaa K, Palomaki P, Arstila M, Vuorenmaa T, Lehtonen A, Lehto S, Miettinen H, Torppa J, Tuomilehto J, Kesaniemi YA, Pyorala K. Trends in coronary events in Finland during 1983-1997. The FINAMI study. *Eur Heart J.* 2003 Feb;24(4):311-9.

- Sans S, Puigdefabregas A, Paluzie G, Monerde D, Balaguer-Vintro I. Increasing trends of acute myocardial infarction in Spain: the MONICA-Catalonia Study. *Eur Heart J*. 2005 Mar;26(5):505-15. Epub 2004 Dec 15.
- Saporito M. Increase of births by cesarean section in Campania in 2000. *Epidemiol Prev* 2003; 27:291-6
- Sarungi M, Than P, Bellyei A. Joint arthroplasty registries: historical and current overview - the Hungarian Hip and Knee Registries. *Orthopedics* 2003;26(12):1236-9.
- Sauval P, Bout H, Ohanessian A, Danchin N, Monsegu J, Varenne O, Carli P, Spaulding C. Management of chest pain by the Emergency Ambulance Service: the DOLORES register. *Arch Mal Coeur Vaiss*. 2005 Nov;98(11):1095-9.
- Schafer JL. Multiple imputation: a primer. *Stat Methods Med Res* 1999; 8:3-15.
- Schaufelberger M, Swedberg K, Köster M et al. Decreasing one-year mortality and hospitalization rates for heart failure in Sweden . Data from the Swedish Hospital Discharge Registry 1988 to 2000. *Eur Heart J*. 2004; 25: 300–307.
- Schwartz MH, Ward RE, Macwilliam C, Verner JJ . Using neural networks to identify patients unlikely to achieve a reduction in bodily pain after total hip replacement surgery. *Med Care* 1997 Oct;35(10):1020-30
- Scottish Executive Health Department - Clinical Outcomes Working Group of Clinical Resource and Audit Group (CRAG) – Clinical Outcome Indicator 2002 – May 2002. Web site: <http://www.show.scot.nhs.uk/indicators/Outcomes/Main.htm>
- Scottish Executive Health Department - Clinical Outcomes Working Group of Clinical Resource and Audit Group (CRAG) – Clinical Outcome Indicator 2003 – May 2003. Web site: <http://www.show.scot.nhs.uk/indicators/Outcomes/Main.htm>
- Second Report of the California Hospitals Outcomes Project, May 1996. Acute Myocardial Infarction. Sacramento, CA: Office of Statewide Health Planning and Development; 1996.
- Sequist TD, Marshall R, Lampert S, Buechler EJ, Lee TH. Missed opportunities in the primary care management of early acute ischemic heart disease. *Arch Intern Med*. 2006 Nov 13;166(20):2237-43.
- Serruys PW, Simoons ML, Suryapranata H, et al. Preservation of global and regional left ventricular function after early thrombolysis in acute myocardial infarction J. *Am. Coll Cardiol*. 1986; 7:729-742.
- Shahian DM, Normand SL, Torchiana DF, Lewis SM, Pastore JO, Kuntz RE et al. Cardiac surgery report cards: comprehensive review and statistical critique. *Ann Thorac Surg* 2001; 72:2155-68.
- Shaughnessy PW, David FH. Overview of Risk Adjustment and Outcome Measures for Home Health Agency OBQI Reports: Highlights of Current Approaches and Outline of Planned Enhancements. Center for Health Services Research, UCHSC. September 2002 (<http://www.cms.hhs.gov/quality/hhqi/RiskAdj1.pdf>)
- Shroyer AL, Coombs LP, Peterson ED , Eiken MC, DeLong ER, Chen A, Ferguson TB Jr, Grover FL, Edwards FH; Society of Thoracic Surgeons.. The Society of Thoracic Surgeons: 30-day operative mortality and morbidity risk models. *Ann Thorac Surg* 2003;75(6):1856-64; discussion 1864-5.
- Shroyer AL, Plomondon ME, Grover FL, Edwards FH. The 1996 coronary artery bypass risk model: the Society of Thoracic Surgeons Adult Cardiac National Database. *Ann Thorac Surg* 1999; 67:1205-8.
- Signorelli C, Cattaruzza MS, Osborn JF. Risk factors for caesarean section in Italy: Results of a multicentre study. *Public Health* 1995;109:191-9
- Silber JH, Rosenbaum PR, Schwartz JS, Ross RN, Williams SV. Evaluation of the complication rate as a measure of quality of care in coronary artery bypass graft surgery. *JAMA* 1995; 274:317-23.
- Silva LK. Validity of the risk adjustment approach to compare outcomes. *Cad Saude Publica* 2003;19(1): 287-95
- Simmons BP, Swiontkowski MF, Evans RW, Amadio PC, Cats-Baril W. Outcomes assessment in the information age: available instruments, data collection, and utilization of data. *Instr Course Lect* 1999;48:667-85

- Smith et al. ACC/AHA Guidelines for Percutaneous Coronary Intervention (Revision of the 1993 PTCA Guidelines): a Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Committee to Revise the 1993 Guidelines for Percutaneous Transluminal Coronary Angioplasty). *J Am Coll Cardiol* 2001; 37(8): 2239i-lxvi www.acc.org.
- Smith SC Jr, Blair SN, Bonow RO, Brass LM, Cerqueira MD, Dracup K, Fuster V, Gotto A, Grundy SM, Miller NH, Jacobs A, Jones D, Krauss RM, Mosca L, Ockene I, Pasternak RC, Pearson T, Pfeffer MA, Starke RD, Taubert KA. AHA/ACC Guidelines for Preventing Heart Attack and Death in Patients With Atherosclerotic Cardiovascular Disease: 2001 update. A statement for healthcare professionals from the American Heart Association and the American College of Cardiology. *J Am Coll Cardiol*. 2001 Nov 1;38(5):1581-3.
- Smith SC Jr, Dove JT, Jacobs AK, Kennedy JW, Kereiakes D, Kern MJ, Kuntz RE, Popma JJ, Schaff HV, Williams DO, Gibbons RJ, Alpert JP, Eagle KA, Faxon DP, Fuster V, Gardner TJ, Gregoratos G, Russell RO, Smith SC Jr; American College of Cardiology/American Heart Association task force on practice guidelines (Committee to revise the 1993 guidelines for percutaneous transluminal coronary angioplasty); Society for Cardiac Angiography and Interventions. ACC/AHA guidelines for percutaneous coronary intervention (revision of the 1993 PTCA guidelines)-executive summary: a report of the American College of Cardiology/American Heart Association task force on practice guidelines (Committee to revise the 1993 guidelines for percutaneous transluminal coronary angioplasty) endorsed by the Society for Cardiac Angiography and Interventions. *Circulation*. 2001 Jun 19;103(24):3019-41.
- Soderman P, Malchau H Validity and reliability of Swedish WOMAC osteoarthritis index: a self-administered disease-specific questionnaire (WOMAC) versus generic instruments (SF-36 and NHP). *Acta Orthop Scand* 2000 Feb;71(1):39-46
- Sonis J. A Closer Look at Confounding. *Family Medicine* 1998; 30(8): 584-8
- Specification Manual for National Hospital Quality Measures (2005). Joint Commission on Accreditation of Healthcare Organizations (JCAHO).
- Spiegel BM, Vakil NB, Ofman JJ. Endoscopy for acute nonvariceal upper gastrointestinal tract hemorrhage: is sooner better? A systematic review. *Arch Intern Med*. 2001;161(11):1393-404.
- Spiegelhalter D, Grigg O, Kinsman R, Treasure T. Risk-adjusted sequential probability ratio tests: applications to Bristol, Shipman and adult cardiac surgery. *International Journal for Quality in Health Care* 2003; 15:7-13
- Spiegelhalter DJ. Probabilistic prediction in patient management and clinical trials. *Stat Med* 1986; 5:421-33.
- Stafford RS, Sullivan SD, Gardner LB. Trends in cesarean section use in California, 1983 to 1990. *Am J Obstet Gynecol* 1993; 168(4):1297-302
- Stafford RS. The impact of nonclinical factors on repeat cesarean section. *JAMA* 1991; 265(1):59-63
- Steen PM, Brewster AC, Bradbury RC, Estabrook E, Young JA. Predicted probabilities of hospital death as a measure of admission severity of illness. *Inquiry* 1993; 30: 128-141
- Steen PM. Approaches to predictive modeling. *Ann Thorac Surg* 1994; 58:1836-40.
- Steg PG, Bonnefoy E, Chabaud S et al. Impact of Time to Treatment on Mortality After Prehospital Fibrinolysis or Primary Angioplasty. Data From the CAPTIM Randomized Clinical Trial. *Circulation* 2003;108:2851-2856.
- Steg PG, Goldberg RJ, Gore JM, Fox KA, Eagle KA, Flather MD, Sadiq I, Kasper R, Rushton-Mellor SK, Anderson FA; GRACE Investigators. Baseline characteristics, management practices, and in-hospital outcomes of patients hospitalized with acute coronary syndromes in the Global Registry of Acute Coronary Events (GRACE). *Am J Cardiol*. 2002 Aug 15;90(4):358-63.
- Stegmayr B, Asplund K. Measuring stroke in the population: quality of routine statistics in comparison with a population-based registry. *Neuroepidemiology*. 1992;11:204-213.
- Stewart S, MacIntyre K, MacLeod MMC, Bailey AEM, Capewell S, McMurray JJV. Trends in hospitalisation for heart failure in Scotland, 1990-1996. An epidemic that has reached its peak? *Eur Heart J* 2001; 22: 209-217.

- Steyerberg EW, Eijkemans MJ, Harrell FE, Jr., Habbema JD. Prognostic modelling with logistic regression analysis: a comparison of selection and estimation methods in small data sets. *Stat Med* 2000; 19:1059-79.
- Steyerberg EW, Ivanov J, Tu JV, Naylor CD, Krumholz HM. Ranking of surgical performance. *Circulation* 2000; 102:61e-62.
- Stukel TA, Fisher ES, Wennberg DE, Alter DA, Gottlieb DJ, Vermeulen MJ. Analysis of observational studies in the presence of treatment selection bias: effects of invasive cardiac management on AMI survival using propensity score and instrumental variable methods. *JAMA*. 2007 Jan 17;297(3):278-85.
- Sun GW, Shook TL, Kay GL. Inappropriate use of bivariable analysis to screen risk factors for use in multivariable analysis. *J Clin Epidemiol* 1996 Aug;49(8): 907-16
- Sunyer J. Urban air pollution and chronic obstructive pulmonary disease: a review. *Eur Respir J* 2001; 17:1024-1033.
- *Surg Am* 2004; 86-A(5):963-74.
- Swiontkowski MF, Buckwalter JA, Keller RB, Haralson R The outcomes movement in orthopaedic surgery: where we are and where we should go. *J Bone Joint Surg Am* 1999 May;81(5):732-40
- Taioli E, Venettoni S, Pretagostini R, Roggero S, Scalamogna M, Mattucci DA, Costa AN. Quality evaluation of solid organ transplant in Italy for the period 2000 to 2002 data from the national transplant center. *Transplant Proc*. 2005;37(10):4163-9.
- Tan KH, Sulke N, Taub N, Sowton E. Clinical and lesion morphologic determinants of coronary angioplasty success and complications: current experience. *J Am Coll Cardiol* 1995;25:855– 65.
- Tavazzi L, Chiariello M, Scherillo M, Ferrari R, Greco C, Zardini P, Antonucci D, Borsotti A, Crea F, Hugmann; [Italian Federation of Cardiology—National Association of Hospital Cardiologists, Italian Society of Cardiology]. Acute myocardial infarction with persistent ST segment elevation: towards an appropriate diagnostic and therapeutic approach in the health care community. *Ital Heart J Suppl*. 2002 Nov;3(11):1127-64.
- The National Quality Measures Clearinghouse™ (NQMC). Measure Index. Web site: <http://www.qualitymeasures.ahrq.gov/resources/measureindex.aspx>
- The OECD health care Quality Indicators project – review of Evidence and data for the initial indicator list – M. Soeren, Sept 2003; DELSA/ELSA/WP1/HCQ (2003)
- Thomas JW, Ashcraft ML. Measuring severity of illness: six severity systems and their ability to explain cost variations. *Inquiry* 1991; 28(1): 39-55
- Thomas N, Longford NT, Rolph JE. Empirical Bayes methods for estimating hospital-specific mortality rates. *Stat Med* 1994; 13:889-903.
- Tonne C, Schwartz J, Mittleman M, Melly S, Suh H, Goldberg R. Long-term survival after acute myocardial infarction is lower in more deprived neighborhoods. *Circulation*. 2005 Jun 14;111(23):3063-70. Epub 2005 Jun 6.
- Torre M, Frustagli G, Brocco M, Martini L, Chistolini P, Macellari V. Il progetto EIPA (Esiti di interventi di artroProtesi di Anca). Studio prospettico osservazionale su base nazionale: primi risultati. *Giornale Italiano di Ortopedia e Traumatologia* 2002;28(6):208-20.
- Torre M. Progettazione del Registro nazionale degli interventi di protesi di anca. In Torre M (Ed) Progetto per l'istituzione di un registro nazionale degli interventi di protesi di anca. Roma: Istituto Superiore di Sanità; 2005. (Rapporti ISTISAN 05/18). p. 147-55. Disponibile all'indirizzo <http://www.iss.it/publ/rapp/cont.php?id=1736&lang=1&tipo=5&anno=2005>; ultima consultazione 10/03/06.
- Towheed TE, Hochberg MC. Health-related quality of life after total hip replacement. *Semin Arthritis Rheum* 1996; 26: 1-9
- Tu JV, Jaglal SB, Naylor CD. Multicenter validation of a risk index for mortality, intensive care unit stay, and overall hospital length of stay after cardiac surgery. Steering Committee of the Provincial Adult Cardiac Care Network of Ontario. *Circulation* 1995; 91: 677- 684

- Tu JV, Naylor CD. (1996) Coronary Artery ByPass Mortality Rates in Ontario. A Canadian Approach to Quality Assurance in Cardiac Surgery, *Circulation* 1996; 94(10): 2429.
- Tu JV, Sykora K, Naylor CD. Assessing the outcomes of coronary artery bypass graft surgery: how many risk factors are enough? Steering Committee of the Cardiac Care Network of Ontario. *J Am Coll Cardiol* 1997; 30:1317-23.
- Tunstall-Pedoe H, Kuulasmaa K, Mahonen M et al. Contribution of trends in survival and coronary-event rates to changes in coronary heart disease mortality: 10-year results from 37 WHO MONICA project populations. Monitoring trends and determinants in cardiovascular disease. *Lancet* 1999;353:1547-57.
- Ugolini C, Nobilio L, Risk adjustment for coronary artery bypass graft surgery: an administrative approach versus EuroSCORE, *International Journal for Quality in Health Care* 2004; 16 (2): 157-164.
- Vaccarino V, Rathore SS, Wenger NK, Frederick PD, Abramson JL, Barron HV, Manhapra A, Mallik S, Krumholz HM; National Registry of Myocardial Infarction Investigators. Sex and racial differences in the management of acute myocardial infarction, 1994 through 2002. *N Engl J Med.* 2005 Aug 18;353(7):671-82.
- Van de Werf F, Ardissino D, Betriu A, Cokkinos DV, Falk E, Fox KA, Julian D, Lengyel M, Neumann FJ, Ruzyllo W, Thygesen C, Underwood SR, Vahanian A, Verheugt FW, Wijns W; Task Force on the Management of Acute Myocardial Infarction of the European Society of Cardiology. Management of acute myocardial infarction in patients presenting with ST-segment elevation. The Task Force on the Management of Acute Myocardial Infarction of the European Society of Cardiology. *Eur Heart J.* 2003 Jan;24(1):28-66.
- Van Houwelingen JC, Le Cessie S. Predictive value of statistical models. *Stat Med* 1990; 9:1303-25.
- Van Walraven CV, Peterson JM, Kapral M, Chan B, Bell M, Hawker G, Gollish J, Schatzker J, Williams JI, Naylor CD Appropriateness of primary total hip and knee replacements in regions of Ontario with high and low utilization rates. *CMAJ* 1996 Sep 15;155(6):697-706
- Vandembroucke JP. When are observational studies as credible as randomised trials? *Lancet* 2004; 363(9422):1728-31
- Villani C, Romanini, E, Giordano MC, Persiani P, Casella F. Artroprotesi totale d'anca non cementata: valutazione patient-oriented a medio termine. *Giornale Italiano di Ortopedia e Traumatologia* 2000
- Vineis P, Airolidi L, Veglia F et al. Environmental tobacco smoke and risk of respiratory cancer and chronic obstructive pulmonary disease in former smokers and never smokers in the EPIC prospective study. *BMJ* 2005; 330: 277-281.
- Vivian Ho. Evolution of the Volume-Outcome Relation for Hospitals Performing Coronary Angioplasty. *Circulation* 2000;101:1806-1811.
- Wall A, Dragan S. Some aspect of revisional hip arthroplasty on the basis of Register of removed orthopedic implants. One year data (in Polish). *Chir Narzadow Ruchu Ortop Pol* 1999;64(6):627-34.
- Ware JE Jr, Gandek B. Overview of the SF-36 Health Survey and the International Quality of Life Assessment (IQOLA) Project. *J Clin Epidemiol* 1998 Nov;51(11):903-12
- Ware JE, Sherbourne CD. The MOS 36-items Short-Form health survey (SF-36) *Med Care* 1992; 30: 473-483
- Warner BA. Thoughts and considerations on modeling coronary bypass surgery risk. *Ann Thorac Surg* 1997; 63:1529-30.
- Widimsky P, Budesinsky T, Vorac D, et al. Long distance transport for primary angioplasty vs immediate thrombolysis in acute myocardial infarction: final results of the randomized national multicentre trial: PRAGUE-2. *Eur Heart J.* 2003;24:94-104.
- Williams MA, Fleg JL, Ades PA, Chaitman BR, Miller NH, Mohiuddin SM, Ockene IS, Taylor CB, Wenger NK; American Heart Association Council on Clinical Cardiology Subcommittee on Exercise, Cardiac Rehabilitation, and Prevention. Secondary prevention of coronary heart disease in the elderly (with emphasis on patients > or =75 years of age): an American Heart Association scientific statement from the Council on Clinical Cardiology Subcommittee on Exercise, Cardiac Rehabilitation, and Prevention. *Circulation.* 2002 Apr 9;105(14):1735-43.

- World Health Organization. World Health Report 2000. Geneva, World Health Organization, 2000.
- Wright JG Evaluating the outcome of treatment. Shouldn't We be asking patients if they are better? *J Clin Epidemiol.* 2000 Jun;53(6):549-53.
- Wright JG, Hawker GA, Bombardier C et al. Physician enthusiasm as an explanation for area variation in the utilization of knee replacement surgery. *Med Care* 1999 Sep;37(9):946-56
- Wright JG, Rudicel S, Feinstein AR Ask patients what they want. Evaluation of individual complaints before total hip replacement. *J Bone Joint Surg Br* 1994 Mar;76(2):229-34
- Wright JG, Swiontkowski MF. Introducing a New Journal Section: Evidence-Based Orthopaedics. *J Bone Joint Surg* 2000; 82 (6): 759
- Wright JG, Young NL, Waddell JP The reliability and validity of the self-reported patient-specific index for total hip arthroplasty. *J Bone Joint Surg Am* 2000 Jun;82(6):829-3
- [www.qualitymeasures.ahrq.gov](http://www.qualitymeasures.ahrq.gov)
- Yadav JS. Stenting and angioplasty with protection in patients at high risk from endarterectomy: the SAPHIRE study. *Circulation* 2002; 106:2986A.
- Yan RT, Yan AT, Tan M, Chow CM, Fitchett DH, Ervin FL, Cha JY, Langer A, Goodman SG; Canadian Acute Coronary Syndromes (ACS) Registry Investigators. Age-related differences in the management and outcome of patients with acute coronary syndromes. *Am Heart J.* 2006 Feb;151(2):352-9.
- Young NL, Cheah D, Waddell JP, Wright JG Patient characteristics that affect the outcome of total hip arthroplasty: a review. *Can J Surg* 1998 Jun;41(3):188-95
- Young WW, Kohler S, Kowalski J. PMC Patient Severity Scale: derivation and validation. *Health Services Research* 1994; 29(3): 367-90
- Zanetta G, Tampieri A, Currado I. Changes in Cesarean Delivery in an Italian University Hospital, 1982-1996: A comparison with the National Trend. *Birth* 1999; 26:144-148.
- Zanolli G, Dunbar M, Ryd L, Campi A, De Santis E, Greco F, Schiavone Panni A, Traina, Padua R, Romanini E. Il protocollo dello studio multinazionale sugli Outcomes nelle artroprotesi di Ginocchio: confrontare le indicazioni nei vari paesi, un modo per promuovere e migliorare i registri nazionali. *Giornale Italiano di Ortopedia e Traumatologia* 2000, in stampa
- Zanolli G, Strömqvist B. Lessons learned searching for HRQoL instruments to assess the results of treatment in patients with lumbar disorders. *Spine* 2000, Focus Issue, in stampa
- Zeller M, Ravisy J, Beer JC, Laurent Y, Janin-Manificat L, Cabrita B, L'Huillier I, Wolf JE, Freysz M, Cottin Y. Risk stratification in pre-hospital management of myocardial infarction with ST elevation: value of a risk score profile. *Arch Mal Coeur Vaiss.* 2005 Nov;98(11):1130-6.
- Zielinski J , McNee W, Wedzicha J et al. Causes of death in patients with COPD and chronic respiratory failure. *Monaldi Arch Chest Dis* 1997; 52: 43-47.