References

1. Cabot RC. Diagnostic pitfalls identified during a study of three thousand autopsies. *JAMA.* 1912;59:2295-2298.

2. Tai DY, El-Bilbeisi H, Tewari S, Mascha EJ, Wiedemann HP, Arroliga AC. A study of consecutive autopsies in a medical ICU : a comparison of clinical cause of death and autopsy diagnosis. *Chest.* 2001;119(2):530-536.

3. Twigg SJ, McCrirrick A, Sanderson PM. A comparison of post mortem findings with post hoc estimated clinical diagnoses of patients who die in a United Kingdom intensive care unit. *Intensive Care Med.* 2001;27(4):706-710.

4. Roberts WC. The autopsy: its decline and a suggestion for its revival. *N Engl J Med.* 1978;299(7):332-338.

5. Geller SA. Autopsy. *Sci Am.* 1983;248(3):124-129, 132, 135-126.

6. Lundberg GD. Medicine without the autopsy. *Arch Pathol Lab Med.* 1984;108(6):449-454.

7. Yesner R, Robinson MJ, Goldman L, Reichert CM, Engel L. A symposium on the autopsy. *Pathology Annual.* 1985;20 Pt 1(10):441-477.

8. Nemetz PN, Beard CM, Ballard DJ, et al. Resurrecting the autopsy: benefits and recommendations. *Mayo Clin Proc.* 1989;64(9):1065-1076.

9. Hill RB, Anderson RE. The uses and value of autopsy in medical education as seen by pathology educators. *Acad Med.* 1991;66(2):97-100.

10. Hanzlick R, Parrish RG. The role of medical examiners and coroners in public health surveillance and epidemiologic research. *Annu Rev Public Health.* 1996;17:383-409.

11. Jordan JM, Bass MJ. Errors in death certificate completion in a teaching hospital. *Clin Invest Med.* 1993;16(4):249-255.

12. Modelmog D, Rahlenbeck S, Trichopoulos D. Accuracy of death certificates: a population-based, complete-coverage, one-year autopsy study in East Germany. *Cancer Causes Control.* 1992;3(6):541-546.

13. Kircher T. The autopsy and vital statistics. *Hum Pathol.* 1990;21(2):166-173.

14. Kircher T, Nelson J, Burdo H. The autopsy as a measure of accuracy of the death certificate. *N Engl J Med.* 1985;313(20):1263-1269.

15. Schottenfeld D, Eaton M, Sommers SC, Alonso DR, Wilkinson C. The autopsy as a measure of accuracy of the death certificate. *Bull N Y Acad Med.* 1982;58(9):778-794.

16. Death certification and epidemiological research. Medical Services Study Group of the Royal College of Physicians of London. *BMJ.* 1978;2(6144):1063-1065.

17. Rakar S, Sinagra G, Di LA, et al. Epidemiology of dilated cardiomyopathy. A prospective post-mortem study of 5252 necropsies. The Heart Muscle Disease Study Group. *Eur Heart J.* 1997;18(1):117-123.

18. McFarlane MJ. The epidemiologic necropsy for abdominal aortic aneurysm. *JAMA.* 1991;265(16):2085-2088.

19. Simonovis NJ, Wells CK, Feinstein AR. In-vivo and post-mortem gallstones: support for validity of the "epidemiologic necropsy" screening technique. *Am J Epidemiol.* Vol 133; 1991:922-931.

20. Mollo F, Bellis D, Delsedime L, et al. Autopsy indicators of exposure to asbestos and lung cancer. *IARC Sci Publ.* 1991(112):141-147.

21. McFarlane MJ, Feinstein AR, Wells CK, Chan CK. The 'epidemiologic necropsy'.

Unexpected detections, demographic selections, and changing rates of lung cancer. *JAMA.* 1987;258(3):331-338.

22. Sampson RJ, Key CR, Buncher CR, Iijima S. Thyroid carcinoma in Hiroshima and Nagasaki. I. Prevalence of thyroid carcinoma at autopsy. *JAMA.* 1969;209(1):65-70.

23. Nolte KB, Feddersen RM, Foucar K, et al. Hantavirus pulmonary syndrome in the United States: a pathological description of a disease caused by a new agent. *Hum Pathol.* 1995;26(1):110-120.

24. Moskowitz LB, Kory P, Chan JC, Haverkos HW, Conley FK, Hensley GT. Unusual causes of death in Haitians residing in Miami. High prevalence of opportunistic infections. *JAMA.* 1983;250(9):1187-1191.

25. Welch K, Finkbeiner W, Alpers CE, et al. Autopsy findings in the acquired immune deficiency syndrome. *JAMA.* 1984;252(9):1152-1159.

26. Fay D, Baird IM, Aguirre A, Haegren V, Werling K, Bell TW. Unrecognized Legionnaires' disease as a cause of fatal illness. *JAMA.* 1980;243(22):2311-2313.

27. Fox RC. The autopsy: it's place in the attitude-learning of second year medical students. *Essays in medical sociology : journeys into the field*. New York: Wiley; 1979.

28. Sinard JH. Factors affecting autopsy rates, autopsy request rates, and autopsy findings at a large academic medical center. *Exp Mol Pathol.* 2001;70(3):333-343.

29. Smith AE, Hutchins GM, Hanzlick R. Case of the month: making amends. Autopsy Committee of the College of American Pathologists. *Arch Intern Med.* 1998;158(16):1739-1740.

30. Havlik DM, Irvine R, Hanzlick R. Case of the month: allaying apprehension. Autopsy Committee of the College of American Pathologists. *Arch Intern Med.* 1998;158(18):1971-1972.

31. McPhee SJ, Bottles K, Lo B, Saika G, Crommie D. To redeem them from death. Reactions of family members to autopsy. *Am J Med.* 1986;80(4):665-671.

32. Burton EC, Nemetz PN. Medical error and outcomes measures: where have all the autopsies gone? *Medscape General Medicine.* April 28 2000;2000(Apr. 28):E8. Available at: http://www.medscape.com/medscape/GeneralMedicine/journal/2000/v2002.n2002/mgm0428.burt/mgm0428.burt.html.

33. Burton EC, Nemetz PN, Fisher WPJ, Newman WPI. Institutional characteristics associated with hospital autopsy performance: A survey of Louisiana hospitals [Abstract]. *Am J Clin Pathol.* 2001;116:590.

34. Hill RB. The current status of autopsies in medical care in the USA. *Qual Assur Health Care.* 1993;5(4):309-313.

35. Rosenbaum GE, Burns J, Johnson J, Mitchell C, Robinson M, Truog RD. Autopsy consent practice at US teaching hospitals: results of a national survey. *Arch Intern Med.* 2000;160(3):374-380.

36. Stolman CJ, Castello F, Yorio M, Mautone S. Attitudes of pediatricians and pediatric residents toward obtaining permission for autopsy. *Arch Pediatr Adolesc Med.* 1994;148(8):843-847.

37. Grunberg SM, Sherrod A, Muellenbach R, Renshaw M, Zaretsky S, Levine AM. Analysis of physician attitudes concerning requests for autopsy. *Cancer Investigation.* 1994;12(5):463-468.

38. Berlin A, Wagstaff R, Bhopal R, Spencer J. Postmortem examinations: general practitioners' knowledge, behaviour, and attitudes. *BMJ.* 1994;308(6936):1080-1081.

39. Heckerling PS, Williams MJ. Attitudes of funeral directors and embalmers toward autopsy. *Arch Pathol Lab Med.* 1992;116(11):1147-1151.

40. Waldron T, Vickerstaff L. The role of the autopsy in medical care. In: McLachlan G, ed. *A Question of quality? : Roads to assurance in medical care*. London: Published for the Nuffield Provincial Hospitals Trust by Oxford University Press; 1976.

41. Gardner R, Peskin L, Katz JL. The physician, the autopsy request, and the consent rate. *J Med Educ.* 1973;48(7):636-644.

42. Bordage G. Where are the history and the physical? *CMAJ.* 1995;152(10):1595-1598.

43. Gordon PR, Senf J. Is the annual complete physical examination necessary? *Arch Intern Med.* 1999;159(9):909-910.

44. Roshan M, Rao AP. A study on relative contributions of the history, physical examination and investigations in making medical diagnosis. *J Assoc Physicians India.* 2000;48(8):771-775.

45. Peterson MC, Holbrook JH, Von Hales D, Smith NL, Staker LV. Contributions of the history, physical examination, and laboratory investigation in making medical diagnoses. *West J Med.* 1992;156(2):163-165.

46. Hampton JR, Harrison MJ, Mitchell JR, Prichard JS, Seymour C. Relative contributions of history-taking, physical examination, and laboratory investigation to diagnosis and management of medical outpatients. *Br Med J.* 1975;2(5969):486-489.

47. Sackett DL. A primer on the precision and accuracy of the clinical examination. *JAMA.* 1992;267(19):2638-2644.

48. Stevenson LW, Perloff JK. The limited reliability of physical signs for estimating hemodynamics in chronic heart failure. *JAMA.* 1989;261(6):884-888.

49. Pryor DB, Shaw L, McCants CB, et al. Value of the history and physical in identifying patients at increased risk for coronary artery disease. *Ann Intern Med.* 1993;118(2):81-90.

50. Koran LM. The reliability of clinical methods, data and judgments (second of two parts). *N Engl J Med.* 1975;293(14):695-701.

51. Goldman L, Sayson R, Robbins S, Cohn LH, Bettmann M, Weisberg M. The value of the autopsy in three medical eras. *N Engl J Med.* 1983;308(17):1000-1005.

52. Anderson RE, Hill RB, Key CR. The sensitivity and specificity of clinical diagnostics during five decades. Toward an understanding of necessary fallibility. *JAMA.* 1989;261(11):1610-1617.

53. Veress B, Alafuzoff I. Clinical diagnostic accuracy audited by autopsy in a university hospital in two eras. *Qual Assur Health Care.* 1993;5(4):281-286.

54. Kirch W, Schafii C. Misdiagnosis at a university hospital in 4 medical eras. *Medicine (Baltimore).* 1996;75(1):29-40.

55. Sonderegger-Iseli K, Burger S, Muntwyler J, Salomon F. Diagnostic errors in three medical eras: a necropsy study. *Lancet.* 2000;355(9220):2027-2031.

56. Alafuzoff I, Veress B. The selection for post-mortem examination: a retrospective analysis of 74 deceased surgical cases. *Qual Assur Health Care.* 1993;5(4):345-349.

57. McFarlane MJ. Clinical diagnosis is not a source of bias in selection for necropsy. *Arch Pathol Lab Med.* 1989;113(1):64-67.

58. Saracci R. Problems with the use of autopsy results as a yardstick in medical audit and epidemiology. *Qual Assur Health Care.* 1993;5(4):339-344.

59. Druss BG, Bruce ML, Jacobs SC, Hoff RA. Trends over a decade for a general hospital psychiatry unit. *Adm Policy Ment Health.* Mar 1998;25(4):427-435.

60. Kominski GF, Witsberger C. Trends in length of stay for Medicare patients: 1979-87. *Health Care Financ Rev.* Winter 1993;15(2):121-135.

61. Irwin D, Jessop EG. Severity of sickness at admission to hospital in Colchester 1985 and

1990. *Public Health.* May 1993;107(3):171-175.

62. Ashby JL, Jr., Altman SH. The trend in hospital output and labor productivity, 1980-1989. *Inquiry.* Spring 1992;29(1):80-91.

63. Basu J. An analysis of trends in average length of stay in Maryland Hospitals, 1980-1988. *J Health Soc Policy.* 1992;4(1):77-95.

64. Epstein AM, Bogen J, Dreyer P, Thorpe KE. Trends in length of stay and rates of readmission in Massachusetts: implications for monitoring quality of care. *Inquiry.* Spring 1991;28(1):19-28.

65. Latta VB, Helbing C. Medicare short-stay hospital services by diagnosis-related groups. *Health Care Financ Rev.* Summer 1991;12(4):105-140.

66. Helbing C, Keene R. Use and cost of short-stay hospital inpatient services under Medicare, 1986. *Health Care Financ Rev.* Summer 1989;10(4):93-109.

67. Latta VB, Helbing C. Medicare: short-stay hospital services, by leading diagnosis-related groups, 1983 and 1985. *Health Care Financ Rev.* Winter 1988;10(2):79-107.

68. Saracci R. Is necropsy a valid monitor of clinical diagnosis performance? *BMJ.* 1991;303(6807):898-900.

69. Saracci R. Autopsy as the yardstick for diagnosis: an epidemiologist's remarks. *IARC Sci Publ*; 1991:185-196.

70. Battle RM, Pathak D, Humble CG, et al. Factors influencing discrepancies between premortem and postmortem diagnoses. *JAMA.* 1987;258(3):339-344.

71. Hjorth L, Noer H, Rasmussen KS, Sorensen IM. [Importance of the autopsy rate. A comparison between clinical assessment and findings at autopsies during the periods: 1 July 1908--30 June 1981 and 1 July 1990--30 June 1991]. *Ugeskr Laeger.* 1994;156(31):4459-4461.

72. Wright C, Cameron H, Lamb W. A study of the quality of perinatal autopsy in the former northern region. The Northern Perinatal Mortality Survey Steering Group. *Br J Obstet Gynaecol.* 1998;105(1):24-28.

73. Cartlidge PH, Dawson AT, Stewart JH, Vujanic GM. Value and quality of perinatal and infant postmortem examinations: cohort analysis of 400 consecutive deaths. *BMJ.* 1995;310(6973):155-158.

74. Vujanic GM, Cartlidge PH, Stewart JH, Dawson AJ. Perinatal and infant postmortem examinations: how well are we doing? *J Clin Pathol.* 1995;48(11):998-1001.

75. Vujanic GM, Cartlidge PH, Stewart JH. Improving the quality of perinatal and infant necropsy examinations: a follow up study. *J Clin Pathol.* 1998;51(11):850-853.

76. Zarbo RJ, Baker PB, Howanitz PJ. Quality assurance of autopsy permit form information, timeliness of performance, and issuance of preliminary report. A College of American Pathologists Q-Probes study of 5434 autopsies from 452 institutions. *Arch Pathol Lab Med.* 1996;120(4):346-352.

77. Fowler EF, Nicol AG, Reid IN. Evaluation of a teaching hospital necropsy service. *J Clin Pathol.* 1977;30(6):575-578.

78. Schned AR, Mogielnicki RP, Stauffer ME. A comprehensive quality assessment program on the autopsy service. *Am J Clin Pathol.* 1986;86(2):133-138.

79. Fessel WJ, Van Brunt EE. Assessing quality of care from the medical record. *N Engl J Med.* 1972;286(3):134-138.

80. Romm FJ, Putnam SM. The validity of the medical record. *Med Care.* 1981;19(3):310-315.

81. Gerbert B, Hargreaves WA. Measuring physician behavior. *Med Care.* 1986;24(9):838-847.

82. Beers MH, Munekata M, Storrie M. The accuracy of medication histories in the hospital medical records of elderly persons. *J Am Geriatr Soc.* 1990;38(11):1183-1187.

83. Patel AG, Mould T, Webb PJ. Inadequacies of hospital medical records. *Ann R Coll Surg Engl.* 1993;75(1 Suppl):7-9.

84. van Walraven C, Weinberg AL. Quality assessment of a discharge summary system. *CMAJ.* 1995;152(9):1437-1442.

85. Sulmasy DP, Dwyer M, Marx E. Do the ward notes reflect the quality of end-of-life care? *J Med Ethics.* 1996;22(6):344-348.

86. Williams HR, Templeton PA, Smith RM. An audit of trauma documentation. *Injury.* 1997;28(3):165-167.

87. Jeannot JG, Vader JP, Porchet F, Larequi-Lauber T, Burnand B. Can the decision to operate be judged retrospectively? A study of medical records. *Eur J Surg.* 1999;165(6):516-521.

88. Lau HS, Florax C, Porsius AJ, De Boer A. The completeness of medication histories in hospital medical records of patients admitted to general internal medicine wards. *Br J Clin Pharmacol.* 2000;49(6):597-603.

89. Solomon DH, Schaffer JL, Katz JN, et al. Can history and physical examination be used as markers of quality? An analysis of the initial visit note in musculoskeletal care. *Med Care.* 2000;38(4):383-391.

90. Wilson RR. In defense of the autopsy. *JAMA.* 1966;196(11):193-194.

91. Meier PR, Manchester DK, Shikes RH, Clewell WH, Stewart M. Perinatal autopsy: its clinical value. *Obstet Gynecol.* 1986;67(3):349-351.

92. Hagerstrand I, Lundberg LM. The importance of post-mortem examinations of abortions and perinatal deaths. *Qual Assur Health Care.* 1993;5(4):295-297.

93. Saller DN, Jr., Lesser KB, Harrel U, Rogers BB, Oyer CE. The clinical utility of the perinatal autopsy. *JAMA.* 1995;273(8):663-665.

94. Zehr KJ, Liddicoat JR, Salazar JD, et al. The autopsy: still important in cardiac surgery. *Ann Thorac Surg.* 1997;64(2):380-383.

95. Phelps CE. The methodologic foundations of studies of the appropriateness of medical care. *N Engl J Med.* 1993;329(17):1241-1245.

96. Stoler MH, Schiffman M. Interobserver reproducibility of cervical cytologic and histologic interpretations: realistic estimates from the ASCUS-LSIL Triage Study. *JAMA.* 2001;285(11):1500-1505.

97. Grenko RT, Abendroth CS, Frauenhoffer EE, Ruggiero FM, Zaino RJ. Variance in the interpretation of cervical biopsy specimens obtained for atypical squamous cells of undetermined significance. *Am J Clin Pathol.* 2000;114(5):735-740.

98. Allsbrook WC, Jr., Mangold KA, Johnson MH, Lane RB, Lane CG, Epstein JI. Interobserver reproducibility of Gleason grading of prostatic carcinoma: general pathologist. *Hum Pathol.* 2001;32(1):81-88.

99. Allsbrook WC, Jr., Mangold KA, Johnson MH, et al. Interobserver reproducibility of Gleason grading of prostatic carcinoma: urologic pathologists. *Hum Pathol.* 2001;32(1):74-80.

100. Wells WA, Carney PA, Eliassen MS, Grove MR, Tosteson AN. Pathologists' agreement with experts and reproducibility of breast ductal carcinoma-in-situ classification schemes. *Am J Surg Pathol.* 2000;24(5):651-659.

101. Younossi ZM, Boparai N, Gramlich T, Goldblum J, George P, Mayes J. Agreement in pathologic interpretation of liver biopsy specimens in posttransplant hepatitis C infection. *Arch Pathol Lab Med.* 1999;123(2):143-145.

102. Riber C, Tonnesen H, Aru A, Bjerregaard B. Observer variation in the assessment of the histopathologic diagnosis of acute appendicitis. *Scand J Gastroenterol.* 1999;34(1):46-49.

103. Wells WA, Carney PA, Eliassen MS, Tosteson AN, Greenberg ER. Statewide study of diagnostic agreement in breast pathology. *J Natl Cancer Inst.* 1998;90(2):142-145.

104. Raab SS, Geisinger KR, Silverman JF, Thomas PA, Stanley MW. Interobserver variability of a Papanicolaou smear diagnosis of atypical glandular cells of

undetermined significance. *Am J Clin Pathol.* 1998;110(5):653-659.

105. Jones BA, Novis DA. Cervical biopsy-cytology correlation. A College of American Pathologists Q-Probes study of 22 439 correlations in 348 laboratories. *Arch Pathol Lab Med.* 1996;120(6):523-531.

106. Jones BA. Rescreening in gynecologic cytology. Rescreening of 8096 previous cases for current low-grade and indeterminate-grade squamous intraepithelial lesion diagnoses--a College of American Pathologists Q-Probes study of 323 laboratories. *Arch Pathol Lab Med.* 1996;120(6):519-522.

107. Lind AC, Bewtra C, Healy JC, Sims KL. Prospective peer review in surgical pathology. *Am J Clin Pathol.* 1995;104(5):560-566.

108. Veress B, Gadaleanu V, Nennesmo I, Wikstrom BM. The reliability of autopsy diagnostics: inter-observer variation between pathologists, a preliminary report. *Qual Assur Health Care.* 1993;5(4):333-337.

109. Corley DE, Kirtland SH, Winterbauer RH, et al. Reproducibility of the histologic diagnosis of pneumonia among a panel of four pathologists: analysis of a gold standard. *Chest.* 1997;112(2):458-465.

110. James G, Patton RE, Heslin AS. Accuracy of cause-of-death statements on death certificates. *Public Health Reports.* 1955;70(1):39-51.

111. Johanson WG, Jr., Seidenfeld JJ, Gomez P, de los Santos R, Coalson JJ. Bacteriologic diagnosis of nosocomial pneumonia following prolonged mechanical ventilation. *Am Rev Respir Dis.* 1988;137(2):259-264.

112. Cohen J. A coefficient of agreement for nominal scales. *Education and Psychological Measurement.* 1960;20:37-46.

113. Cohen J. A coefficient of agreement for nominal scales. *Pscychological Bulletin.* 1960;70:213-220.

114. Goodin J, Hanzlick R. Mind your manners. Part II: General results from the National Association of Medical Examiners Manner of Death Questionnaire, 1995. *Am J Forensic Med Pathol.* 1997;18(3):224-227.

115. Hanzlick R, Goodin J. Mind your manners. Part III: Individual scenario results and discussion of the National Association of Medical Examiners Manner of Death Questionnaire, 1995. *Am J Forensic Med Pathol.* 1997;18(3):228-245.

116. Bernicker EH, Atmar RL, Schaffner DL, Greenberg SB. Unanticipated diagnoses found at autopsy in an urban public teaching hospital. *Am J Med Sci.* 1996;311(5):215-220.

117. Blosser SA, Zimmerman HE, Stauffer JL. Do autopsies of critically ill patients reveal important findings that were clinically undetected? *Crit Care Med.* 1998;26(8):1332-1336.

118. Boers M, Nieuwenhuyzen Kruseman AC, Eulderink F, Hermans J, Thompson J. Value of autopsy in internal medicine: a 1-year prospective study of hospital deaths. *Eur J Clin Invest.* 1988;18(3):314-320.

119. Bordin P, Da Col PG, Peruzzo P, Stanta G, Guralnik JM, Cattin L. Causes of death and clinical diagnostic errors in extreme aged hospitalized people: a retrospective clinical-necropsy survey. *J Gerontol A Biol Sci Med Sci.* 1999;54(11):M554-559.

120. Burke MC, Aghababian RV, Blackbourne B. Use of autopsy results in the emergency department quality assurance plan. *Ann Emerg Med.* 1990;19(4):363-366.

121. Britton M. Clinical diagnostics: experience from 383 autopsied cases. *Acta Med Scand.* 1974;196(3):211-219.

122. Britton M. Diagnostic errors discovered at autopsy. *Acta Med Scand.* 1974;196(3):203-210.

123. Cameron HM, McGoogan E, Watson H. Necropsy: a yardstick for clinical diagnoses. *BMJ.* 1980;281(6246):985-988.

124. Dhar V, Perlman M, Vilela MI, Haque KN, Kirpalani H, Cutz E. Autopsy in a neonatal intensive care unit: utilization patterns and associations of clinicopathologic discordances. *J Pediatr*. 1998;132(1):75-79.

125. Fernandez-Segoviano P, Lazaro A, Esteban A, Rubio JM, Iruretagoyena JR. Autopsy as quality assurance in the intensive care unit. *Crit Care Med.* 1988;16(7):683-685.

126. Goldstein B, Metlay L, Cox C, Rubenstein JS. Association of pre mortem diagnosis and autopsy findings in pediatric intensive care unit versus emergency department versus ward patients. *Crit Care Med.* 1996;24(4):683-686.

127. Heasman MA, Lipworth L. *Accuracy of certification of cause of death*. London: HMSO; 1966.

128. Kumar P, Taxy J, Angst DB, Mangurten HH. Autopsies in children: are they still useful? *Arch Pediatr Adolesc Med.* 1998;152(6):558-563.

129. Landefeld CS, Chren MM, Myers A, Geller R, Robbins S, Goldman L. Diagnostic yield of the autopsy in a university hospital and a community hospital. *N Engl J Med.* 1988;318(19):1249-1254.

130. Middleton K, Clarke E, Homann S, et al. An autopsy-based study of diagnostic errors in geriatric and nongeriatric adult patients. *Arch Intern Med.* 1989;149(8):1809-1812.

131. Papadakis MA, Mangione CM, Lee KK, Kristof M. Treatable abdominal pathologic conditions and unsuspected malignant neoplasms at autopsy in veterans who received mechanical ventilation. *JAMA.* 1991;265(7):885-887.

132. Stambouly JJ, Kahn E, Boxer RA. Correlation between clinical diagnoses and autopsy findings in critically ill children. *Pediatrics.* 1993;92(2):248-251.

133. Stolman CJ, Castello F, Holland BK, et al. Lessons learned from autopsies at a pediatric teaching hospital. *N J Med.* 1995;92(12):794-797.

134. Brennan TA, Leape LL, Laird NM, et al. Incidence of adverse events and negligence in hospitalized patients. Results of the Harvard Medical Practice Study I. *N Engl J Med.* 1991;324(6):370-376.

135. Dubois RW, Brook RH. Preventable deaths: who, how often, and why? *Ann Intern Med.* 1988;109(7):582-589.

136. Thomas EJ, Studdert DM, Burstin HR, et al. Incidence and types of adverse events and negligent care in Utah and Colorado. *Med Care.* 2000;38(3):261-271.

137. Hayward RA, Hofer TP. Estimating hospital deaths due to medical errors: preventability is in the eye of the reviewer. *JAMA.* 2001;286(4):415-420.

138. Thornton A, Lee P. Publication bias in meta-analysis: its causes and consequences. *J Clin Epidemiol.* 2000;53(2):207-216.

139. Montori VM, Smieja M, Guyatt GH. Publication bias: a brief review for clinicians. *Mayo Clin Proc.* 2000;75(12):1284-1288.

140. Pham B, Platt R, McAuley L, Klassen TP, Moher D. Is there a "best" way to detect and minimize publication bias? An empirical evaluation. *Eval Health Prof.* 2001;24(2):109-125.

141. Macaskill P, Walter SD, Irwig L. A comparison of methods to detect publication bias in meta-analysis. *Stat Med.* 2001;20(4):641-654.

142. Sutton AJ, Duval SJ, Tweedie RL, Abrams KR, Jones DR. Empirical assessment of effect of publication bias on meta-analyses. *BMJ*. June 10, 2000 2000;320(7249):1574-1577.

143. Egger M, Davey Smith G, Schneider M, Minder C. Bias in meta-analysis detected by a simple, graphical test. *BMJ.* 1997;315(7109):629-634.

144. Copas JB, Shi JQ. A sensitivity analysis for publication bias in systematic reviews. *Stat Methods Med Res.* 2001;10(4):251-265.

145. Goldman L. Diagnostic advances v the value of the autopsy. 1912-1980. *Arch Pathol Lab Med.* 1984;108(6):501-505.

146. Wanzel KR, Jamieson CG, Bohnen JM. Complications on a general surgery service: incidence and reporting. *Can J Surg.* 2000;43(2):113-117.

147. Kohn L, Corrigan J, Donaldson M, eds. *To Err Is Human: Building a Safer Health System.* Washington, D.C.: Committee on Quality of Health Care in America, Institute of Medicine. National Academy Press; 2000.

148. Shojania KG, Duncan BW, McDonald KM, Wachter RM, eds. *Making health care safer: a critical analysis of patient safety practices.* Evidence Report/Technology Assessment No. 43 from the Agency for Healthcare Research and Quality: AHRQ Publication No. 01-E058; 2001.

149. Kiesel E, Hanzlick R. Case of the month. The autopsy and new technology: all that glitters is not a gold standard. *Arch Intern Med.* 2000;160(13):1901-1902.

150. Hutchins GM, Hanzlick R. Case of the month: Speculation and competing causes of death. Autopsy Committee of the College of American Pathologists. *Arch Intern Med.* 1998;158(15):1593-1594.

151. Baker PB, Hanzlick R. Case of the month: death and devices. Autopsy Committee of the College of American Pathologists. *Arch Intern Med.* 1999;159(1):21-22.

152. Nichols L, Aronica P, Babe C. Are autopsies obsolete? *Am J Clin Pathol.* 1998;110(2):210-218.

153. Juvin P, Teissiere F, Brion F, Desmonts J, Durigon M. Postoperative death and malpractice suits: is autopsy useful? *Anesth Analg.* 2000;91(2):344-346.

154. Valaske MJ. Loss control/risk management. A survey of the contribution of autopsy examination. *Arch Pathol Lab Med.* 1984;108(6):462-468.

155. Cameron HM, McGoogan E. A prospective study of 1152 hospital autopsies: I. Inaccuracies in death certification. *J Pathol.* 1981;133(4):273-283.

156. Cameron HM, McGoogan E. A prospective study of 1152 hospital autopsies: II. Analysis of inaccuracies in clinical diagnoses and their significance. *J Pathol.* 1981;133(4):285-300.

157. Rossman I, Rodstein M, Bornstein A. Undiagnosed diseases in an aging population. Pulmonary embolism and bronchopneumonia. *Arch Intern Med.* 1974;133(3):366-369.

158. Bedell SE, Fulton EJ. Unexpected findings and complications at autopsy after cardiopulmonary resuscitation (CPR). *Arch Intern Med.* 1986;146(9):1725-1728.

159. Gross JS, Neufeld RR, Libow LS, Gerber I, Rodstein M. Autopsy study of the elderly institutionalized patient. Review of 234 autopsies. *Arch Intern Med.* 1988;148(1):173-176.

160. McKelvie PA, Rode J. Autopsy rate and a clinicopathological audit in an Australian metropolitan hospital--cause for concern? *Med J Aust.* 1992;156(7):456-462.

161. Goldhaber SZ, Hennekens CH, Evans DA, Newton EC, Godleski JJ. Factors associated with correct antemortem diagnosis of major pulmonary embolism. *Am J Med.* 1982;73(6):822-826.

162. Rubinstein I, Murray D, Hoffstein V. Fatal pulmonary emboli in hospitalized patients. An autopsy study. *Arch Intern Med.* 1988;148(6):1425-1426.

163. Karwinski B, Svendsen E. Comparison of clinical and postmortem diagnosis of pulmonary embolism. *J Clin Pathol.* 1989;42(2):135-139.

164. Macintyre IM, Ruckley CV. Pulmonary embolism--a clinical and autopsy study. *Scott Med J.* 1974;19(1):20-24.

165. Mandelli V, Schmid C, Zogno C, Morpurgo M. "False negatives" and "false positives" in acute pulmonary embolism: a clinical-postmortem comparison. *Cardiologia.* 1997;42(2):205-210.

166. Mesquita CT, Morandi Junior JL, Perrone FT, et al. Fatal pulmonary embolism in hospitalized patients. Clinical diagnosis versus pathological confirmation. *Arq Bras Cardiol.* 1999;73(3):251-258.

167. Morpurgo M, Schmid C, Mandelli V. Factors influencing the clinical diagnosis of pulmonary embolism: analysis of 229 postmortem cases. *Int J Cardiol.* 1998;65(Suppl 1):S79-82.

168. Morrell MT, Dunnill MS. The post-mortem incidence of pulmonary embolism in a hospital population. *Br J Surg.* 1968;55(5):347-352.

169. Sandler DA, Martin JF. Autopsy proven pulmonary embolism in hospital patients: are we detecting enough deep vein thrombosis? *J R Soc Med.* 1989;82(4):203-205.

170. Ryu JH, Olson EJ, Pellikka PA. Clinical recognition of pulmonary embolism: problem of unrecognized and asymptomatic cases. *Mayo Clin Proc.* 1998;73(9):873-879.

171. Morgenthaler TI, Ryu JH. Clinical characteristics of fatal pulmonary embolism in a referral hospital. *Mayo Clin Proc.* 1995;70(5):417-424.

172. Stein PD, Henry JW. Prevalence of acute pulmonary embolism among patients in a general hospital and at autopsy. *Chest.* 1995;108(4):978-981.

173. Pineda LA, Hathwar VS, Grant BJ. Clinical suspicion of fatal pulmonary embolism. *Chest.* 2001;120(3):791-795.

174. Stein PD, Hull RD, Saltzman HA, Pineo G. Strategy for diagnosis of patients with suspected acute pulmonary embolism. *Chest.* 1993;103(5):1553-1559.

175. Wells PS, Ginsberg JS, Anderson DR, et al. Use of a clinical model for safe management of patients with suspected pulmonary embolism. *Ann Intern Med.* 1998;129(12):997-1005.

176. Value of the ventilation/perfusion scan in acute pulmonary embolism. Results of the prospective investigation of pulmonary embolism diagnosis (PIOPED). The PIOPED Investigators. *JAMA.* 1990;263(20):2753-2759.

177. Goldhaber SZ, Visani L, De Rosa M. Acute pulmonary embolism: clinical outcomes in the International Cooperative Pulmonary Embolism Registry (ICOPER). *Lancet.* 1999;353(9162):1386-1389.

178. Zarling EJ, Sexton H, Milnor PJ. Failure to diagnose acute myocardial infarction: the clinicopathologic experience at a large community hospital. *JAMA.* 1983;250:1177-1181.

179. Cocchi A, Franceschini G, Antonelli Incalzi R, Farina G, Vecchio FM, Carbonin PU. Clinico-pathological correlations in the diagnosis of acute myocardial infarction in the elderly. *Age Ageing.* 1988;17(2):87-93.

180. Kannel WB, Abbott RD. Incidence and prognosis of unrecognized myocardial infarction. An update on the Framingham study. *N Engl J Med.* 1984;311(18):1144-1147.

181. Rosenman RH, Friedman M, Jenkins CD, Straus R, Wurm M, Kositchek R. Clinically unrecognized myocardial infarction in the Western Collaborative Group Study. *Am J Cardiol.* 1967;19(6):776-782.

182. Medalie JH, Goldbourt U. Unrecognized myocardial infarction: five-year incidence, mortality, and risk factors. *Ann Intern Med.* 1976;84(5):526-531.

183. Yano K, MacLean CJ. The incidence and prognosis of unrecognized myocardial infarction in the Honolulu, Hawaii, Heart Program. *Arch Intern Med.* 1989;149(7):1528-1532.

184. Nadelmann J, Frishman WH, Ooi WL, et al. Prevalence, incidence and prognosis of recognized and unrecognized myocardial infarction in persons aged 75 years or older: The Bronx Aging Study. *Am J Cardiol.* 1990;66(5):533-537.

185. Sigurdsson E, Thorgeirsson G, Sigvaldason H, Sigfusson N. Unrecognized myocardial infarction: epidemiology, clinical characteristics, and the prognostic role of

angina pectoris. The Reykjavik Study. *Ann Intern Med.* 1995;122(2):96-102.

186. Jonsdottir LS, Sigfusson N, Sigvaldason H, Thorgeirsson G. Incidence and prevalence of recognised and unrecognised myocardial infarction in women. The Reykjavik Study. *Eur Heart J.* 1998;19(7):1011-1018.

187. Sheifer SE, Gersh BJ, Yanez ND, 3rd, Ades PA, Burke GL, Manolio TA. Prevalence, predisposing factors, and prognosis of clinically unrecognized myocardial infarction in the elderly. *J Am Coll Cardiol.* 2000;35(1):119-126.

188. Sheifer SE, Manolio TA, Gersh BJ. Unrecognized Myocardial Infarction. *Ann Intern Med.* 2001;135(9):801-811.

189. Pope JH, Aufderheide TP, Ruthazer R, et al. Missed diagnoses of acute cardiac ischemia in the emergency department. *N Engl J Med.* 2000;342(16):1163-1170.

190. McCarthy BD, Beshansky JR, D'Agostino RB, Selker HP. Missed diagnoses of acute myocardial infarction in the emergency department: results from a multicenter study. *Ann Emerg Med.* 1993;22(3):579-582.

191. Lee TH, Rouan GW, Weisberg MC, et al. Clinical characteristics and natural history of patients with acute myocardial infarction sent home from the emergency room. *Am J Cardiol.* 1987;60(4):219-224.

192. Schor S, Behar S, Modan B, Barell V, Drory J, Kariv I. Disposition of presumed coronary patients from an emergency room. A follow-up study. *JAMA.* 1976;236(8):941-943.

193. Addiss DG, Shaffer N, Fowler BS, Tauxe RV. The epidemiology of appendicitis and appendectomy in the United States. *Am J Epidemiol.* 1990;132(5):910-925.

194. Graff L, Russell J, Seashore J, et al. False-negative and false-positive errors in abdominal pain evaluation: failure to diagnose acute appendicitis and unnecessary surgery. *Acad Emerg Med.* 2000;7(11):1244-1255.

195. Rao PM, Rhea JT, Novelline RA. Sensitivity and specificity of the individual CT signs of appendicitis: experience with 200 helical appendiceal CT examinations. *J Comput Assist Tomogr.* 1997;21(5):686-692.

196. Rao PM, Rhea JT, Novelline RA, Mostafavi AA, McCabe CJ. Effect of computed tomography of the appendix on treatment of patients and use of hospital resources. *N Engl J Med.* 1998;338(3):141-146.

197. Flum DR, Morris A, Koepsell T, Dellinger EP. Has misdiagnosis of appendicitis decreased over time? A population-based analysis. *JAMA.* 2001;286(14):1748-1753.

198. Rao PM, Rhea JT, Rattner DW, Venus LG, Novelline RA. Introduction of appendiceal CT: impact on negative appendectomy and appendiceal perforation rates. *Ann Surg.* 1999;229(3):344-349.

199. Asnaes S, Frederiksen V, Fenger C. The value of the hospital autopsy. A study of causes and modes of death estimated before and after autopsy. *Forensic Sci Int.* 1983;21(1):23-32.

200. Baer S. Varied manifestations of dissecting aneurysm of the aorta. *JAMA.* 1956;161:689-692.

201. Levinson DC, Edmeades DT, Griffith GC. Dissecting aneurysm of aorta: its clinical, electrocardiographic, and laboratory features; report of 58 autopsied cases. *Circulation.* 1950;1:360.

202. Hirst AE, Johns VJ, Kime SW. Dissecting aneurysm of the aorta: a review of 505 cases. *Medicine (Baltimore).* 1958;37:217-279.

203. Slater EE, DeSanctis RW. The clinical recognition of dissecting aortic aneurysm. *Am J Med.* 1976;60(5):625-633.

204. Spittell PC, Spittell JA, Jr., Joyce JW, et al. Clinical features and differential diagnosis of aortic dissection: experience with 236 cases (1980 through 1990). *Mayo Clin Proc.* 1993;68(7):642-651.

205. Fradet G, Jamieson WR, Janusz MT, Ling H, Miyagishima RT, Munro AI. Aortic dissection: current expectations and

treatment. Experience with 258 patients over 20 years. *Can J Surg.* 1990;33(6):465-469.

206. Sullivan PR, Wolfson AB, Leckey RD, Burke JL. Diagnosis of acute thoracic aortic dissection in the emergency department. *Am J Emerg Med.* 2000;18(1):46-50.

207. Jamieson WR, Munro AI, Miyagishima RT, Allen P, Tyers GF, Gerein AN. Aortic dissection: early diagnosis and surgical management are the keys to survival. *Can J Surg.* 1982;25(2):145-149.

208. Munck W. Autopsy Findings and Clinical Diagnosis. A Comparative Study of 1000 Cases. *Acta Med Scand.* 1952;266(Suppl):775-781.

209. Gough J. Correlation between clinical and autopsy diagnoses in a community hospital. *Can Med Assoc J.* Vol 133; 1985:420-422.

210. Mitchell ML. Interdepartmental quality assurance using coded autopsy results. *Mod Pathol.* 1993;6(1):48-52.

211. Tse GM, Lee JC. A 12-month review of autopsies performed at a university-affiliated teaching hospital in Hong Kong. *Hong Kong Med J.* 2000;6(2):190-194.

212. Linell F, Ostberg G. Tuberculosis in autopsy material, with special reference to cases not discovered until necropsy. *Scand J Respir Dis.* 1966;47(3):200-208.

213. Proudfoot AT, Akhtar AJ, Douglas AC, Horne NW. Miliary tuberculosis in adults. *BMJ.* Vol 2; 1969:273-276.

214. Ashba JK, Boyce JM. Undiagnosed tuberculosis in a general hospital. *Chest.* 1972;61(5):447-451.

215. Edlin GP. Active tuberculosis unrecognised until necropsy. *Lancet.* 1978;1(8065):650-652.

216. Bobrowitz ID. Active tuberculosis undiagnosed until autopsy. *Am J Med.* 1982;72(4):650-658.

217. Lee JK, Ng TH. Undiagnosed tuberculosis in hospitalized patients--an autopsy survey. *J R Soc Health.* 1990;110(4):141-143.

218. Rieder HL, Kelly GD, Bloch AB, Cauthen GM, Snider DE, Jr. Tuberculosis diagnosed at death in the United States. *Chest.* 1991;100(3):678-681.

219. DeRiemer K, Rudoy I, Schecter GF, Hopewell PC, Daley CL. The epidemiology of tuberculosis diagnosed after death in San Francisco, 1986-1995. *Int J Tuberc Lung Dis.* 1999;3(6):488-493.

220. Espinosa JA, Nolan TW. Reducing errors made by emergency physicians in interpreting radiographs: longitudinal study. *BMJ.* 2000;320(7237):737-740.

221. Wolff AM, Bourke J, Campbell IA, Leembruggen DW. Detecting and reducing hospital adverse events: outcomes of the Wimmera clinical risk management program. *Med J Aust.* 2001;174(12):621-625.

222. Burton EC, Troxclair DA, Newman WP, 3rd. Autopsy diagnoses of malignant neoplasms: how often are clinical diagnoses incorrect? *JAMA.* 1998;280(14):1245-1248.

223. Eberhart CG, Morrison A, Gyure KA, Frazier J, Smialek JE, Troncoso JC. Decreasing incidence of sudden death due to undiagnosed primary central nervous system tumors. *Arch Pathol Lab Med.* Aug 2001;125(8):1024-1030.

224. Nationwide Inpatient Sample (NIS). *Agency for Healthcare Research and Quality, Rockville, MD.* Available at: http://www.ahrq.gov/data/hcup/hcupnis.htm. Accessed November 21, 2001.

225. Deaths from 282 Selected Causes by 5-Year Age Groups, Race, and Sex: Each State and the District of Columbia, 1995, 1996, 1997, and 1998. *National Center for Health Statistics*. Available at: http://www.cdc.gov/nchs/datawh/statab/unpubd/mortabs/gmwkiii.htm. Accessed November 21, 2001.

226. Mortality data from the National Vital Statistics System. *National Center for Health Statistics*. Available at: http://www.cdc.gov/nchs/about/major/dvs/desc.htm. Accessed November 21, 2001.

227. Goraya TY, Jacobsen SJ, Belau PG, Weston SA, Kottke TE, Roger VL. Validation of death certificate diagnosis of out-of-hospital coronary heart disease deaths in Olmsted County, Minnesota. *Mayo Clin Proc.* 2000;75(7):681-687.

228. Cina SJ, Selby DM, Clark B. Accuracy of death certification in two tertiary care military hospitals. *Mil Med.* 1999;164(12):897-899.

229. Perneger TV, Klag MJ, Whelton PK. Cause of death in patients with end-stage renal disease: death certificates vs registry reports. *Am J Public Health.* 1993;83(12):1735-1738.

230. Cragle DL, Fetcher A. Risk factors associated with the classification of unspecified and/or unexplained causes of death in an occupational cohort. *Am J Public Health.* 1992;82(3):455-457.

231. Greb AE, Pauli RM, Kirby RS. Accuracy of fetal death reports: comparison with data from an independent stillbirth assessment program. *Am J Public Health.* 1987;77(9):1202-1206.

232. Corwin LE, Wolf PA, Kannel WB, McNamara PM. Accuracy of death certification of stroke: the Framingham Study. *Stroke.* 1982;13(6):818-821.

233. Percy C, Stanek E, 3rd, Gloeckler L. Accuracy of cancer death certificates and its effect on cancer mortality statistics. *Am J Public Health.* 1981;71(3):242-250.

234. Gittelsohn A, Senning J. Studies on the reliability of vital and health records: I. Comparison of cause of death and hospital record diagnoses. *Am J Public Health.* 1979;69(7):680-689.

235. Du Florey C, Senter MG, Acheson RM. A study of the validity of the diagnosis of stroke in mortality data. II. Comparison by computer of autopsy and clinical records with death certificates. *Am J Epidemiol.* 1969;89(1):15-24.

236. Ducic S. [Accuracy in reporting the causes of death. A comparison with diagnosis at autopsy in a series of mesotheliomas and other malignant tumors of the lung]. *Can J Public Health.* 1971;62(5):395-402.

237. Barclay T, Phillips A. The accuracy of cancer diagnosis on death certificates. *Cancer.* 1962;15:5-9.

238. Alderson MR, Meade TW. Accuracy of diagnosis on death certificates compared with that in hospital records. *Br J Prev Soc Med.* 1967;21(1):22-29.

239. Asnaes S, Paaske F. Uncertainty of determining cause of death in medicolegal material without autopsy, an autopsy study. *Forensic Sci Int.* 1980;15(2):103-114.

240. Gobbato F, Vecchiet F, Barbierato D, Melato M, Manconi R. Inaccuracy of death certificate diagnoses in malignancy: an analysis of 1,405 autopsied cases. *Hum Pathol.* 1982;13(11):1036-1038.

241. Mollo F, Bertoldo E, Grandi G, Cavallo F. Reliability of death certifications for different types of cancer. An autopsy survey. *Pathol Res Pract.* 1986;181(4):442-447.

242. Mackenbach JP, Van Duyne WM, Kelson MC. Certification and coding of two underlying causes of death in The Netherlands and other countries of the European Community. *J Epidemiol Community Health.* 1987;41(2):156-160.

243. Samphier ML, Robertson C, Bloor MJ. A possible artefactual component in specific cause mortality gradients. Social class variations in the clinical accuracy of death certificates. *J Epidemiol Community Health.* 1988;42(2):138-143.

244. Nielsen GP, Bjornsson J, Jonasson JG. The accuracy of death certificates. Implications for health statistics. *Virchows Arch A Pathol Anat Histopathol.* 1991;419(2):143-146.

245. Delendi M, Riboli E, Peruzzo P, et al. Comparison of diagnoses of cancers of the respiratory system on death certificates and at autopsy. *IARC Sci Publ.* 1991(112):55-62.

246. Di Bonito L, Stanta G, Delendi M, et al. Comparison between diagnoses on death certificates and autopsy reports in Trieste:

gynaecological cancers. *IARC Sci Publ.* 1991(112):63-71.

247. Riboli E, Stanta G, Delendi M, et al. Comparison between diagnoses of cancers of the stomach, colon, rectum, gall-bladder, liver and pancreas on death certificates and at autopsy in Trieste, 1970-84. *IARC Sci Publ.* 1991(112):45-54.

248. Weeramanthri TS. A medical cause of death validation study of adult aboriginal deaths in the Northern Territory of Australia in 1992. *Public Health.* 1997;111(6):429-433.

249. Maclaine GD, Macarthur EB, Heathcote CR. A comparison of death certificates and autopsies in the Australian Capital Territory. *Med J Aust.* 1992;156(7):462-463, 466-468.

250. Green A, Donald KJ. Necropsy as a control of death certification: some unexpected findings. *Med J Aust.* 1976;2(4):131-132.

251. Gwynne JF. Death certification in Dunedin hospitals. *N Z Med J.* 1977;86(592):77-81.

252. Accuracy of death certificates in bronchial asthma. Accuracy of certification procedures during the confidential inquiry by the British Thoracic Association. A subcommittee of the BTA Research Committee. *Thorax.* 1984;39(7):505-509.

253. Moussa MA, Shafie MZ, Khogali MM, et al. Reliability of death certificate diagnoses. *J Clin Epidemiol.* 1990;43(12):1285-1295.

254. Engel LW, Strauchen JA, Chiazze L, Jr., Heid M. Accuracy of death certification in an autopsied population with specific attention to malignant neoplasms and vascular diseases. *Am J Epidemiol.* 1980;111(1):99-112.

255. Davies SM, Geppert J, McClellan M, McDonald KM, Romano PS, Shojania KG. *Refinement of the HCUP Quality Indicators. (Technical Review Number 4 from the UCSF-Stanford Evidence-based Practice Center).* Rockville, MD: Agency for Healthcare Research and Quality; 2001.

256. Maynard C, Chapko MK, Every NR, Martin DC, Ritchie JL. Coronary angioplasty outcomes in the Healthcare Cost and Utilization Project, 1993-1994. *Am J Cardiol.* 1998;81(7):848-852.

257. Lanska DJ, Kryscio RJ. In-hospital mortality following carotid endarterectomy. *Neurology.* 1998;51(2):440-447.

258. Ritchie JL, Maynard C, Chapko MK, Every NR, Martin DC. Association between percutaneous transluminal coronary angioplasty volumes and outcomes in the Healthcare Cost and Utilization Project 1993-1994. *Am J Cardiol.* 1999;83(4):493-497.

259. Williams GR, Jiang JG, Matchar DB, Samsa GP. Incidence and occurrence of total (first-ever and recurrent) stroke. *Stroke.* 1999;30(12):2523-2528.

260. Howard TS, Hoffman LH, Stang PE, Simoes EA. Respiratory syncytial virus pneumonia in the hospital setting: length of stay, charges, and mortality. *J Pediatr.* 2000;137(2):227-232.

261. Bentham WD, Cai L, Schulman KA. Characteristics of hospitalizations of HIV-infected patients: an analysis of data from the 1994 healthcare cost and utilization project. *J Acquir Immune Defic Syndr.* 1999;22(5):503-508.

262. Astor BC, Kaczmarek RG, Hefflin B, Daley WR. Mortality after aortic valve replacement: results from a nationally representative database. *Ann Thorac Surg.* 2000;70(6):1939-1945.

263. Kim WR, Gross JB, Jr., Poterucha JJ, Locke GR, 3rd, Dickson ER. Outcome of hospital care of liver disease associated with hepatitis C in the United States. *Hepatology.* 2001;33(1):201-206.

264. Ball JK, Elixhauser A. Treatment differences between blacks and whites with colorectal cancer. *Med Care.* 1996;34(9):970-984.

265. Gross CP, Steiner CA, Bass EB, Powe NR. Relation between prepublication release of clinical trial results and the practice of carotid endarterectomy. *JAMA.* 2000;284(22):2886-2893.

266. Romano PS, Zach A, Luft HS, Rainwater J, Remy LL, Campa D. The California Hospital Outcomes Project: using administrative data to compare hospital performance. *Jt Comm J Qual Improv.* 1995;21(12):668-682.

267. *Committee on NIH Research Priority-Setting Process. Scientific opportunities and public needs: improving priority setting and public input at the National Institutes of Health.* Washington, D.C.: National Academy Press; 1998.

268. *Working Group on Priority Setting. Setting research priorities at the National Institutes of Health.* Bethesda, Md: National Institutes of Health; 1997.

269. Gross CP, Anderson GF, Powe NR. The relation between funding by the National Institutes of Health and the burden of disease. *N Engl J Med.* 1999;340(24):1881-1887.

270. Varmus H. Evaluating the burden of disease and spending the research dollars of the National Institutes of Health. *N Engl J Med.* 1999;340(24):1914-1915.

271. Lamarre-Cliche M, Castilloux AM, LeLorier J. Association between the burden of disease and research funding by the Medical Research Council of Canada and the National Institutes of Health. A cross-sectional study. *Clin Invest Med.* 2001;24(2):83-89.

272. Welch HG, Black WC. Using autopsy series to estimate the disease "reservoir" for ductal carcinoma in situ of the breast: how much more breast cancer can we find? *Ann Intern Med.* Vol 127; 1997:1023-1028.

273. Chan CK, Josephy BR, Wells CK, Feinstein AR. An analysis of gastric and oesophageal cancers found with "epidemiological necropsy" during 1953-1982. *Intl J Epidemiol.* 1989;18:315-319.

274. Kimura W, Nagai H, Kuroda A, Morioka Y. Clinicopathologic study of asymptomatic gallbladder carcinoma found at autopsy. *Cancer.* 1989;64(1):98-103.

275. Schwartz DA, Herman CJ. The importance of the autopsy in emerging and reemerging infectious diseases. *Clin Infect Dis.* 1996;23(2):248-254.

276. Frenkel JK, Baker LH, Chonko AM. Autopsy diagnosis of Legionnaires' disease in immunosuppressed patients. A paleodiagnosis using Giemsa stain (Wohlbach modification). *Ann Intern Med.* 1979;90(4):559-562.

277. Hernandez FJ, Kirby BD, Stanley TM, Edelstein PH. Legionnaires' disease. Postmortem pathologic findings of 20 cases. *Am J Clin Pathol.* 1980;73(4):488-495.

278. Morgello S, Cho ES, Nielsen S, Devinsky O, Petito CK. Cytomegalovirus encephalitis in patients with acquired immunodeficiency syndrome: an autopsy study of 30 cases and a review of the literature. *Hum Pathol.* 1987;18(3):289-297.

279. D'Agati V, Suh JI, Carbone L, Cheng JT, Appel G. Pathology of HIV-associated nephropathy: a detailed morphologic and comparative study. *Kidney Int.* 1989;35(6):1358-1370.

280. Foucar K, Nolte KB, Feddersen RM, et al. Outbreak of Hantavirus pulmonary syndrome in the southwestern United States. Response of pathologists and other laboratorians. *Am J Clin Pathol.* 1994;101(4 Suppl 1):S1-5.

281. Schwarcz SK, Shefer AM, Zaki SR. Retrospective diagnosis of a fatal case of the hantavirus pulmonary syndrome, 1980. *West J Med.* 1996;164(4):348-350.

282. Cabana MD, Rand CS, Powe NR, et al. Why don't physicians follow clinical practice guidelines? A framework for improvement. *JAMA.* 1999;282(15):1458-1465.

283. Shortell SM, Zazzali JL, Burns LR, et al. Implementing evidence-based medicine: the role of market pressures, compensation incentives, and culture in physician organizations. *Med Care.* 2001;39(7 Suppl 1):I62-78.

284. Oxman AD, Thomson MA, Davis DA, Haynes RB. No magic bullets: a systematic

review of 102 trials of interventions to improve professional practice. *CMAJ.* 1995;153(10):1423-1431.

285. Davis D. Does CME work? An analysis of the effect of educational activities on physician performance or health care outcomes. *Int J Psychiatry Med.* 1998;28(1):21-39.

286. Davis DA, Taylor-Vaisey A. Translating guidelines into practice. A systematic review of theoretic concepts, practical experience and research evidence in the adoption of clinical practice guidelines. *CMAJ.* 1997;157(4):408-416.

287. Davis D, O'Brien MA, Freemantle N, Wolf FM, Mazmanian P, Taylor-Vaisey A. Impact of formal continuing medical education: do conferences, workshops, rounds, and other traditional continuing education activities change physician behavior or health care outcomes? *JAMA.* 1999;282(9):867-874.

288. A controlled trial to improve care for seriously ill hospitalized patients. The study to understand prognoses and preferences for outcomes and risks of treatments (SUPPORT). The SUPPORT Principal Investigators. *JAMA.* 1995;274(20):1591-1598.

289. Thomson O'Brien MA, Oxman AD, Davis DA, Haynes RB, Freemantle N, Harvey EL. Audit and feedback: effects on professional practice and health care outcomes. *Cochrane Library*. Oxford: Update Software; 2000.

290. Thomson O'Brien MA, Oxman AD, Davis DA, Haynes RB, Freemantle N, Harvey EL. Educational outreach visits: effects on professional practice and health care outcomes. *Cochrane Library*. Oxford: Update Software; 2000.

291. Thomson MA, Oxman AD, Haynes RB, Davis DA, Freemantle N, Harvey EL. Local opinion leaders to improve health professional practice and health care outcomes (Cochrane Review). *The Cochrane Library*. Oxford: Update Software; 1999.

292. Stenback F, Paivarinta H. Relation between clinical and autopsy diagnoses, especially as regards cancer. *Scand J Soc Med.* 1980;8(2):67-72.

293. Hartveit F. Clinical and post-mortem assessment of the cause of death. *J Pathol.* 1977;123(4):193-210.

294. Veress B, Alafuzoff I. A retrospective analysis of clinical diagnoses and autopsy findings in 3,042 cases during two different time periods. *Hum Pathol.* 1994;25(2):140-145.

295. Puxty JA, Horan MA, Fox RA. Necropsies in the elderly. *Lancet.* 1983;1(8336):1262-1264.

296. Tsujimura T, Yamada Y, Kubo M, Fushimi H, Kameyama M. Why couldn't an accurate diagnosis be made? An analysis of 1044 consecutive autopsy cases. *Pathol Int.* 1999;49(5):408-410.

297. Gerain J, Sculier JP, Malengreaux A, Rykaert C, Themelin L. Causes of deaths in an oncologic intensive care unit: a clinical and pathological study of 34 autopsies. *Eur J Cancer.* 1990;26(3):377-381.

298. Zarbo RJ, Baker PB, Howanitz PJ. The autopsy as a performance measurement tool--diagnostic discrepancies and unresolved clinical questions: a College of American Pathologists Q-Probes study of 2479 autopsies from 248 institutions. *Arch Pathol Lab Med.* 1999;123(3):191-198.

299. Thurlbeck WM. Accuracy of clinical diagnosis in a Canadian teaching hospital. *Can Med Assoc J.* 1981;125(5):443-447.

300. Peacock SJ, Machin D, Duboulay CE, Kirkham N. The autopsy: a useful tool or an old relic? *J Pathol.* 1988;156(1):9-14.

301. Stevanovic G, Tucakovic G, Dotlic R, Kanjuh V. Correlation of clinical diagnoses with autopsy findings: a retrospective study of 2,145 consecutive autopsies. *Hum Pathol.* 1986;17(12):1225-1230.

302. West JG, Trunkey DD, Lim RC. Systems of trauma care. A study of two counties. *Arch Surg.* 1979;114(4):455-460.

303. Gloth FMd, Burton JR. Autopsies and death certificates in the chronic care setting. *J Am Geriatr Soc.* 1990;38(2):151-155.

304. Mort TC, Yeston NS. The relationship of pre mortem diagnoses and post mortem findings in a surgical intensive care unit. *Crit Care Med.* 1999;27(2):299-303.

305. Stothert JC, Jr., Gbaanador G. Autopsy in general surgery practice. *Am J Surg.* 1991;162(6):585-588.

306. Shanks JH, Anderson NH, McCluggage G, Toner PG. Use of the autopsy in Northern Ireland and its value in perioperative deaths. *IARC Sci Publ.* 1991(112):115-124.

307. Whitehouse SR, Kissoon N, Singh N, Warren D. The utility of autopsies in a pediatric emergency department. *Pediatr Emerg Care.* 1994;10(2):72-75.

308. Barr P, Hunt R. An evaluation of the autopsy following death in a level IV neonatal intensive care unit. *J Paediatr Child Health.* 1999;35(2):185-189.

309. Sarode VR, Datta BN, Banerjee AK, et al. Autopsy findings and clinical diagnoses: a review of 1,000 cases. *Hum Pathol.* 1993;24(2):194-198.

310. Harris MD, Blundell JW. Audit of necropsies in a British district general hospital. *J Clin Pathol.* 1991;44(10):862-865.

311. Kajiwara JK, Zucoloto S, Manco AR, Muccillo G, Barbieri MA. Accuracy of clinical diagnoses in a teaching hospital: a review of 997 autopsies. *J Intern Med.* 1993;234(2):181-187.

312. Ebbesen J, Buajordet I, Erikssen J, et al. Drug-related deaths in a department of internal medicine. *Arch Intern Med.* 2001;161(19):2317-2323.

313. Walsh CJ. Autopsy rates in U.S. hospitals. *PAS Rep.* 1972;12(6):1-4.

314. Hasson J, Gross H. The autopsy and quality assessment of medical care. *Am J Med.* 1974;56(2):137-140.

315. Burnand B, Feinstein AR. The role of diagnostic inconsistency in changing rates of occurrence for coronary heart disease. *J Clin Epidemiol.* 1992;45(9):929-940.

316. Arthaud JB. Autopsies in the United States--frequency by states. *JAMA.* 1970;213(7):1195.

317. Lowe JA, Davis CJ. Need we revive falling autopsy rates? Time trends in PAS hospitals in the United States. *PAS Rep.* 1977;15(12):1-7.

318. Nakhleh RE, Baker PB, Zarbo RJ. Autopsy result utilization: a College of American Pathologists Q-probes study of 256 laboratories. *Arch Pathol Lab Med.* 1999;123(4):290-295.

319. Kabra NS, Udani RH. Correlation between clinical diagnoses at the time of death and autopsy findings in critically sick neonates at a regional neonatal intensive care unit in India. *J Trop Pediatr*. 2001;47:295-300.

320. Podbregar M, Voga G, Krivec B, Skale R, Pareznik R, Gabrscek L. Should we confirm our clinical diagnostic certainty by autopsies? *Intensive Care Med*. 2001;27:1750-1755.

321. Ong AW, Cohn SM, Cohn KA, et al. Unexpected findings in trauma patients dying in the intensive care unit: results of 153 consecutive autopsies. *J Am Coll Surg*. 2002;194:401-406.

322. Brodlie M, Laing IA, Keeling JW, McKenzie KJ. Ten years of neonatal autopsies in tertiary referral centre: retrospective study. *BMJ* 2002;324:761-763.

323. Nemetz PN, Ballard DJ, Beard CM, et al. An anatomy of the autopsy, Olmstead County, 1935 through 1985. *Mayo Clinic Proc*. 1989;64:1055-1064.