

EUR Research Information Portal

Effects and costs of colorectal cancer screening and follow-up after polypectomy

Publication status and date:

Published: 22/10/2003

Document Version

Publisher's PDF, also known as Version of record

Citation for the published version (APA):

Loeve, F. (2003). *Effects and costs of colorectal cancer screening and follow-up after polypectomy*. [Doctoral Thesis, Erasmus University Rotterdam]. Erasmus Universiteit Rotterdam (EUR).

[Link to publication on the EUR Research Information Portal](#)

Terms and Conditions of Use

Except as permitted by the applicable copyright law, you may not reproduce or make this material available to any third party without the prior written permission from the copyright holder(s). Copyright law allows the following uses of this material without prior permission:

- you may download, save and print a copy of this material for your personal use only;
- you may share the EUR portal link to this material.

In case the material is published with an open access license (e.g. a Creative Commons (CC) license), other uses may be allowed. Please check the terms and conditions of the specific license.

Take-down policy

If you believe that this material infringes your copyright and/or any other intellectual property rights, you may request its removal by contacting us at the following email address: openaccess.library@eur.nl. Please provide us with all the relevant information, including the reasons why you believe any of your rights have been infringed. In case of a legitimate complaint, we will make the material inaccessible and/or remove it from the website.

References

- [Abdul Fattah 1997] A.S. Abdul Fattah, H. Nakama, B. Zhang, Y. Uehara, N. Kamijo and K. Fujimori (1997). Diagnostic value of immunochemical fecal occult blood test for small colorectal neoplasms. *Eur J Med Res* **2**(5): 227-30.
- [Ahlquist 1993] D.A. Ahlquist, H.S. Wieand, C.G. Moertel, D.B. McGill, C.L. Loprinzi, M.J. O'Connell, J.A. Mailliard, J.B. Gerstner, K. Pandya and R.D. Ellefson (1993). Accuracy of fecal occult blood screening for colorectal neoplasia. A prospective study using Hemocult and HemoQuant tests. *JAMA* **269**(10): 1262-7.
- [Ahlquist 2000a] D.A. Ahlquist (2000a). Molecular stool screening for colorectal cancer. Using DNA markers may be beneficial, but large scale evaluation is needed. *BMJ* **321**(7256): 254-5.
- [Ahlquist 2000b] D.A. Ahlquist, J.E. Skoletsky, K.A. Boynton, J.J. Harrington, D.W. Mahoney, W.E. Pierceall, S.N. Thibodeau and A.P. Shuber (2000b). Colorectal cancer screening by detection of altered human DNA in stool: feasibility of a multitarget assay panel. *Gastroenterology* **119**(5): 1219-27.
- [Alberts 2000] D.S. Alberts, M.E. Martinez, D.J. Roe, J.M. Guillen-Rodriguez, J.R. Marshall, J.B. van Leeuwen, M.E. Reid, C. Ritenbaugh, P.A. Vargas, A.B. Bhattacharyya, D.L. Earnest and R.E. Sampliner (2000). Lack of effect of a high-fiber cereal supplement on the recurrence of colorectal adenomas. Phoenix Colon Cancer Prevention Physicians' Network. *N Engl J Med* **342**(16): 1156-62.
- [Allison 1996] J.E. Allison, I.S. Tekawa, L.J. Ransom and A.L. Adrain (1996). A comparison of fecal occult-blood tests for colorectal-cancer screening. *N Engl J Med* **334**(3): 155-9.
- [American Cancer Society 2002] American Cancer Society (2002). *Cancer Facts and Figures-2002*.
- [American Society for Gastrointestinal Endoscopy 1998] American Society for Gastrointestinal Endoscopy (1998). Technology status evaluation: virtual colonoscopy: November 1997. *Gastrointest Endosc* **48**(6): 708-10.
- [American Society for Gastrointestinal Endoscopy 2000] American Society for Gastrointestinal Endoscopy (2000). Guidelines for colorectal cancer screening and surveillance. *Gastrointest Endosc* **51**(6): 777-82.
- [Atkin 1992] W.S. Atkin, B.C. Morson and J. Cuzick (1992). Long-term risk of colorectal cancer after excision of rectosigmoid adenomas. *N Engl J Med* **326**(10): 658-62.
- [Atkin 1998] W.S. Atkin, A. Hart, R. Edwards, P. McIntyre, R. Aubrey, J. Wardle, S. Sutton, J. Cuzick and J.M. Northover (1998). Uptake, yield of neoplasia, and adverse effects of flexible sigmoidoscopy screening. *Gut* **42**(4): 560-5.
- [Atkin 2000] W.S. Atkin and D.K. Whynes (2000). Improving the cost-effectiveness of colorectal cancer screening. *J Natl Cancer Inst* **92**(7): 513-4.
- [Baron 1999] J.A. Baron, M. Beach, J.S. Mandel, R.U. van Stolk, R.W. Haile, R.S. Sandler, R. Rothstein, R.W. Summers, D.C. Snover, G.J. Beck, J.H. Bond and E.R. Greenberg (1999).

- Calcium supplements for the prevention of colorectal adenomas. Calcium Polyp Prevention Study Group. *N Engl J Med* **340**(2): 101-7.
- [Baron 2003] J.A. Baron, B.F. Cole, R.S. Sandler, R.W. Haile, D. Ahnen, R. Bresalier, G. McKeown-Eyssen, R.W. Summers, R. Rothstein, C.A. Burke, D.C. Snover, T.R. Church, J.I. Allen, M. Beach, G.J. Beck, J.H. Bond, T. Byers, E.R. Greenberg, J.S. Mandel, N. Marcon, L.A. Mott, L. Pearson, F. Saibil and R.U. van Stolk (2003). A randomized trial of aspirin to prevent colorectal adenomas. *N Engl J Med* **348**(10): 891-9.
- [Beahrs 1988] A.H. Beahrs, D.E. Henson, R.V.P. Hutter and M.H. Myers (1988). *Manual for Staging of Cancer*. Philadelphia, J.B. Lippincott Co.
- [Behavioral Risk Factor Surveillance System 1999] Behavioral Risk Factor Surveillance System (1999). Survey data, National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention, U.S. Department of Health and Human Services.
- [Bennett 1995] D.H. Bennett, M.R. Robinson, P. Preece, V. Moshakis, K.D. Vellacott, S. Besbeas, J. Kewenter, O. Kronborg, S. Moss, J. Chamberlain and J.D. Hardcastle (1995). Colorectal cancer screening: the effect of combining flexible sigmoidoscopy with a faecal occult blood test. *Gut* **36**(suppl 1): A23.
- [Bensen 1999] S. Bensen, L.A. Mott, B. Dain, R. Rothstein and J. Baron (1999). The colonoscopic miss rate and true one-year recurrence of colorectal neoplastic polyps. Polyp Prevention Study Group. *Am J Gastroenterol* **94**(1): 194-9.
- [Berrino 1995] F. Berrino, M. Sant, A. Verdecchia, R. Capocaccia, T. Hakulinen and J. Estève, Eds. (1995). *Survival of cancer patients in Europe: the EURO CARE study. (IARC Scientific Publications; 132)*. Lyon, IARC.
- [Berry 1997] D.P. Berry, P. Clarke, J.D. Hardcastle and K.D. Vellacott (1997). Randomized trial of the addition of flexible sigmoidoscopy to faecal occult blood testing for colorectal neoplasia population screening. *Br J Surg* **84**(9): 1274-6.
- [Bertario 1999] L. Bertario, A. Russo, P. Sala, P. Pizzetti, G. Ballardini, S. Andreola and P. Spinelli (1999). Risk of colorectal cancer following colonoscopic polypectomy. *Tumori* **85**(3): 157-62.
- [Bjorge 1993] T. Bjorge, S.O. Thorensen and G.B. Skare (1993). Incidence, survival and mortality in cervical cancer in Norway, 1956-1990. *Eur J Cancer* **1993**(29A): 2291-7.
- [Black 2002] W.C. Black, D.A. Haggstrom and H. Gilbert Welch (2002). All-cause mortality in randomized trials of cancer screening. *J Natl Cancer Inst* **94**(3): 167-73.
- [Bombi 1988] J.A. Bombi (1988). Polyps of the colon in Barcelona, Spain. An autopsy study. *Cancer* **61**(7): 1472-6.
- [Bond 1999] J.H. Bond (1999). Virtual colonoscopy--promising, but not ready for widespread use. *N Engl J Med* **341**(20): 1540-2.
- [Bos 2002] A.B. Bos, M. van Ballegooijen, G.J. van Oortmarssen and J.D.F. Habbema (2002). Women who participate in spontaneous screening are not at higher risk for cervical cancer than women who attend programme screening. *Eur J Cancer* **38**(6): 827-31.

- [Bretthauer 2002] M. Bretthauer, E. Thiis-Evensen, G. Huppertz-Hauss, L. Gisselson, T. Grotmol, E. Skovlund and G. Hoff (2002). NORCCAP (Norwegian colorectal cancer prevention): a randomised trial to assess the safety and efficacy of carbon dioxide versus air insufflation in colonoscopy. *Gut* **50**(5): 604-7.
- [Brevinge 1997] H. Brevinge, E. Lindholm, S. Buntzen and J. Kewenter (1997). Screening for colorectal neoplasia with faecal occult blood testing compared with flexible sigmoidoscopy directly in a 55-56 years' old population. *Int J Colorectal Dis* **12**(5): 291-5.
- [Brewster 1984] N.T. Brewster, D.C. Grieve and J.H. Saunders (1984). Double-contrast barium enema and flexible sigmoidoscopy for routine colonic investigation. *Br J Surg* **81**(3): 445-7.
- [Brown 1993] M.L. Brown and L. Fintor (1993). Cost-effectiveness of breast cancer screening: preliminary results of a systematic review of the literature. *Breast Cancer Res Treat* **25**(2): 113-8.
- [Burt 1996a] R.W. Burt (1996a). Familial risk and colorectal cancer. *Gastroenterol Clin North Am* **25**(4): 793-803.
- [Burt 1996b] R.W. Burt and G.M. Petersen (1996b). Familial Colorectal Cancer: Diagnosis and Management. *Prevention and Early Detection of Colorectal Cancer*. G. P. Young, P. Rozen and B. Levin. London, W.B. Saunders Ltd: 171-94.
- [Byers 2000] T. Byers (2000). Diet, colorectal adenomas, and colorectal cancer. *N Engl J Med* **342**(16): 1206-7.
- [Canadian Task Force on Preventive Health Care 2001] Canadian Task Force on Preventive Health Care (2001). Colorectal cancer screening. Recommendation statement from the Canadian Task Force on Preventive Health Care. *CMAJ* **165**(2): 206-8.
- [Castiglione 1996] G. Castiglione, M. Zappa, G. Grazzini, A. Mazzotta, M. Biagini, P. Salvadori and S. Ciatto (1996). Immunochemical vs guaiac faecal occult blood tests in a population-based screening programme for colorectal cancer. *Br J Cancer* **74**(1): 141-4.
- [Castiglione 1997] G. Castiglione, M. Zappa, G. Grazzini, C. Sani, A. Mazzotta, P. Mantellini and S. Ciatto (1997). Cost analysis in a population based screening programme for colorectal cancer: comparison of immunochemical and guaiac faecal occult blood testing. *J Med Screen* **4**(3): 142-6.
- [Castiglione 2000] G. Castiglione, M. Zappa, G. Grazzini, T. Rubeca, P. Turco, C. Sani and S. Ciatto (2000). Screening for colorectal cancer by faecal occult blood test: comparison of immunochemical tests. *J Med Screen* **7**(1): 35-7.
- [Centers for Disease Control and Prevention 2001] Centers for Disease Control and Prevention (2001). Trends in screening for colorectal cancer - United States, 1997 and 1999. *MMWR Morb Mortal Wkly Rep* **50**(9): 162-6.
- [Church 1990] T.R. Church, J.S. Mandel, J.H. Bond, F. Ederer, D.C. Snover, G.M. Bradley, S.E. Williams and L.M. Schuman (1990). Colon Cancer Control Study: Status and Current Issues. *Cancer Screening*. A. B. Miller, J. Chamberlain, N. E. Day, M. Hakama and P. C. Prorok. Cambridge, England, Cambridge University Press: 83-105.

- [Citarda 2001] F. Citarda, G. Tomaselli, R. Capocaccia, S. Barcherini and M. Crespi (2001). Efficacy in standard clinical practice of colonoscopic polypectomy in reducing colorectal cancer incidence. *Gut* **48**(6): 812-5.
- [Coebergh 1995] J.W.W. Coebergh, L.H. van der Heijden and M.L.G. Janssen-Heijnen, Eds. (1995). *Cancer incidence and survival in the Southeast of the Netherlands 1955-1994: a report from the Eindhoven Cancer Registry*. Eindhoven, IKZ.
- [Cole 1961] J.W. Cole, A. McKalen and J. Powell (1961). The role of ileal contents in the spontaneous regression of rectal adenomas. *Dis Colon Rectum* **4**: 413-8.
- [Connor 2000] R.J. Connor, R. Boer, P.C. Prorok and D.L. Weed (2000). Investigation of design and bias issues in case-control studies of cancer screening using microsimulation. *Am J Epidemiol* **151**(10): 991-8.
- [Cuzick 1999] J. Cuzick, P. Sasieni, P. Davies, J. Adams, C. Normand, A. Frater, M. van Ballegooijen and E. van den Akker (1999). A systematic review of the role of human papillomavirus testing within a cervical screening programme. *Health Technol Assess* **3**(14): 1-196.
- [Damhuis 1996] R.A.M. Damhuis, L.J. Schouten and O. Visser (1996). *Gastrointestinal cancer in the Netherlands 1989-1992*. Utrecht, Association of Comprehensive Cancer Centres.
- [de Haes 1991] J.C. de Haes, H.J. de Koning, G.J. van Oortmarssen, H.M. van Agt, A.E. de Bruyn and P.J. van Der Maas (1991). The impact of a breast cancer screening programme on quality-adjusted life-years. *Int J Cancer* **49**(4): 538-44.
- [de Koning 1990] H.J. de Koning, G.J. van Oortmarssen, B.M. van Ineveld and P.J. van der Maas (1990). Breast cancer screening: its impact on clinical medicine. *Br J Cancer* **61**(2): 292-7.
- [de Koning 1991] H.J. de Koning, B.M. van Ineveld, G.J. van Oortmarssen, J.C. de Haes, H.J. Collette, J.H. Hendriks and P.J. van der Maas (1991). Breast cancer screening and cost-effectiveness; policy alternatives, quality of life considerations and the possible impact of uncertain factors. *Int J Cancer* **49**(4): 531-7.
- [de Koning 1995] H.J. de Koning, R. Boer, P.G. Warmerdam, P.M. Beemsterboer and P.J. van der Maas (1995). Quantitative interpretation of age-specific mortality reductions from the Swedish breast cancer-screening trials. *J Natl Cancer Inst* **87**(16): 1217-23.
- [de Vlas 1993] S.J. de Vlas, N.J. Nagelkerke, J.D.F. Habbema and G.J. van Oortmarssen (1993). Statistical models for estimating prevalence and incidence of parasitic diseases. *Stat Methods Med Res* **2**(1): 3-21.
- [de Zwart 2001] I.M. de Zwart, G. Griffioen, M.P. Shaw, C.B. Lamers and A. de Roos (2001). Barium enema and endoscopy for the detection of colorectal neoplasia: sensitivity, specificity, complications and its determinants. *Clin Radiol* **56**(5): 401-9.
- [Diggle 1994] P.J. Diggle, K. Liang and S.L. Zeger (1994). *Analysis of Longitudinal Data*. Oxford, Oxford Science Publications, Clarendon Press.
- [DiSario 1991] J.A. DiSario, P.G. Foutch, H.D. Mai, K. Pardy and R.K. Manne (1991). Prevalence and malignant potential of colorectal polyps in asymptomatic, average-risk men. *Am J Gastroenterol* **86**(8): 941-5.

- [DiSario 1993] J.A. DiSario and R.A. Sanowski (1993). Sigmoidoscopy training for nurses and resident physicians. *Gastrointest Endosc* **39**(1): 29-32.
- [Eddy 1990] D.M. Eddy (1990). Screening for colorectal cancer. *Ann Intern Med* **113**(5): 373-84.
- [Ederer 1997] F. Ederer, T.R. Church and J.S. Mandel (1997). Fecal occult blood screening in the Minnesota study: role of chance detection of lesions. *J Natl Cancer Inst* **89**(19): 1423-8.
- [Eide 1978] T.J. Eide and H. Stalsberg (1978). Polyps of the large intestine in Northern Norway. *Cancer* **42**(6): 2839-48.
- [Ek bom 1990] A. Ek bom, C. Helmick, M. Zack and H.O. Adami (1990). Ulcerative colitis and colorectal cancer. A population-based study. *N Engl J Med* **323**(18): 1228-33.
- [Farrell 1999] R.J. Farrell, M.M. Morrin and J.B. McGee (1999). Virtual colonoscopy: a gastroenterologist's perspective. *Dig Dis* **17**(4): 185-93.
- [Fenlon 1999] H.M. Fenlon, D.P. Nunes, P.C. Schroy, 3rd, M.A. Barish, P.D. Clarke and J.T. Ferrucci (1999). A comparison of virtual and conventional colonoscopy for the detection of colorectal polyps. *N Engl J Med* **341**(20): 1496-503.
- [Feuer 1999] E.J. Feuer and L.M. Wun (1999). DEVCAN: Probability of Developing or Dying of Cancer Software, Version 4.1, National Cancer Institute.
- [Fireman 1997] B.H. Fireman, C.P. Quesenberry, C.P. Somkin, A.S. Jacobson, D. Baer, D. West, A.L. Potosky and M.L. Brown (1997). Cost of care for cancer in a health maintenance organization. *Health Care Financ Rev* **18**(4): 51-76.
- [Fork 1981] F.T. Fork (1981). Double contrast enema and colonoscopy in polyp detection. *Gut* **22**(11): 971-7.
- [Fracheboud 1998] J. Fracheboud, H.J. de Koning, P.M.M. Beemsterboer, R. Boer, J. Hendriks et al. (1998). Nation-wide breast cancer screening in the Netherlands: results of initial and subsequent screening 1990-1995. *Int J Cancer* **75**(5): 694-8.
- [Frazier 2000] A.L. Frazier, G.A. Colditz, C.S. Fuchs and K.M. Kuntz (2000). Cost-effectiveness of screening for colorectal cancer in the general population. *JAMA* **284**(15): 1954-61.
- [Garcia Rodriguez 2000] L.A. Garcia Rodriguez and C. Huerta-Alvarez (2000). Reduced incidence of colorectal adenoma among long-term users of nonsteroidal antiinflammatory drugs: a pooled analysis of published studies and a new population-based study. *Epidemiology* **11**(4): 376-81.
- [Geul 1997] K.W. Geul, F.T. Bosman, M. van Blankenstein, D.E. Grobbee and J.H. Wilson (1997). Prevention of colorectal cancer. Costs and effectiveness of sigmoidoscopy. *Scand J Gastroenterol Suppl* **223**: 79-87.
- [Gezondheidsraad 2001] Gezondheidsraad (2001). *Bevolkingsonderzoek naar dikkedarmkanker; publicatienr 2001/01*. Den Haag, Gezondheidsraad.
- [Gezondheidsraad: Commissie WBO 2000] Gezondheidsraad: Commissie WBO (2000). *Wet bevolkingsonderzoek: familiale dikkedarmkanker; publication no. 2000/02WBO*. The Hague, Health Council of the Netherlands.

- [Giardiello 1993] F.M. Giardiello, S.R. Hamilton, A.J. Krush, S. Piantadosi, L.M. Hyland, P. Celano, S.V. Booker, C.R. Robinson and G.J. Offerhaus (1993). Treatment of colonic and rectal adenomas with sulindac in familial adenomatous polyposis. *N Engl J Med* **328**(18): 1313-6.
- [Glick 1998] S. Glick, J.L. Wagner and C.D. Johnson (1998). Cost-effectiveness of double-contrast barium enema in screening for colorectal cancer. *Am J Roentgenol* **170**(3): 629-36.
- [Gohagan 1994] J.K. Gohagan, P.C. Prorok, B.S. Kramer and J.E. Cornett (1994). Prostate cancer screening in the prostate, lung, colorectal and ovarian cancer screening trial of the National Cancer Institute. *J Urol* **152**(5 Pt 2): 1905-9.
- [Gold 1996] M.R. Gold, J.E. Siegel, L.B. Russell and M.C. Weinstein (1996). *Cost-effectiveness in Health and Medicine*. New York, Oxford University Press.
- [Gøtzsche 2000] P.C. Gøtzsche and O. Olsen (2000). Is screening for breast cancer with mammography justifiable? *Lancet* **355**(9198): 129-34.
- [Greenberg 1994] E.R. Greenberg, J.A. Baron, T.D. Tosteson, D.H. Freeman, Jr., G.J. Beck, J.H. Bond, T.A. Colacchio, J.A. Coller, H.D. Frankl, R.W. Haile et al. (1994). A clinical trial of antioxidant vitamins to prevent colorectal adenoma. Polyp Prevention Study Group. *N Engl J Med* **331**(3): 141-7.
- [Greenberg 2000] P.D. Greenberg, L. Bertario, R. Gnauck, O. Kronborg, J.D. Hardcastle, M.S. Epstein, D. Sadowski, R. Sudduth, G.R. Zuckerman and D.C. Rockey (2000). A prospective multicenter evaluation of new fecal occult blood tests in patients undergoing colonoscopy. *Am J Gastroenterol* **95**(5): 1331-8.
- [Grotmol 2001] T. Grotmol, M. Bretthauer, G. Gondal, B. Hofstad, P. Efskind, G. Huppe, E. Thiis-Evensen and S.T. Holmsen (2001). Flexible Sigmoidoscopy Screening: A Randomized, Controlled Study of the Population in the South of Norway. The Norwegian Colorectal Cancer Prevention Study (NORCCAP). *Gastroenterology* **120**(suppl.): A 228.
- [Gyrd-Hansen 1997] D. Gyrd-Hansen, J. Sogaard and O. Kronborg (1997). Analysis of screening data: colorectal cancer. *Int J Epidemiol* **26**(6): 1172-81.
- [Gyrd-Hansen 1998] D. Gyrd-Hansen, J. Sogaard and O. Kronborg (1998). Colorectal cancer screening: efficiency and effectiveness. *Health Econ* **7**(1): 9-20.
- [Habbema 1984] J.D.F. Habbema, G.J. van Oortmarssen, J.T. Lubbe and P.J. van der Maas (1984). The MISCAN simulation program for the evaluation of screening for disease. *Comput Methods Programs Biomed* **20**(1): 79-93.
- [Habbema 1985] J.D.F. Habbema, G.J. van Oortmarssen, J.T. Lubbe and P.J. van der Maas (1985). Model building on the basis of Dutch cervical cancer screening data. *Maturitas* **7**(1): 11-20.
- [Hamilton 2001] S.R. Hamilton (2001). Origin of colorectal cancers in hyperplastic polyps and serrated adenomas: another truism bites the dust. *J Natl Cancer Inst* **93**(17): 1282-3.
- [Hardcastle 1989] J.D. Hardcastle, W.M. Thomas, J. Chamberlain, G. Pye, J. Sheffield, P.D. James, T.W. Balfour, S.S. Amar, N.C. Armitage and S.M. Moss (1989). Randomised,

- controlled trial of faecal occult blood screening for colorectal cancer. Results for first 107,349 subjects. *Lancet* **1**(8648): 1160-4.
- [Hardcastle 1996] J.D. Hardcastle, J.O. Chamberlain, M.H. Robinson, S.M. Moss, S.S. Amar, T.W. Balfour, P.D. James and C.M. Mangham (1996). Randomised controlled trial of faecal-occult-blood screening for colorectal cancer. *Lancet* **348**(9040): 1472-7.
- [Hart 1998] A.R. Hart, S. Kudo, E.H. Mackay, J.F. Mayberry and W.S. Atkin (1998). Flat adenomas exist in asymptomatic people: important implications for colorectal cancer screening programmes. *Gut* **43**(2): 229-31.
- [Hawkins 2001] N.J. Hawkins and R.L. Ward (2001). Sporadic colorectal cancers with microsatellite instability and their possible origin in hyperplastic polyps and serrated adenomas. *J Natl Cancer Inst* **93**(17): 1307-13.
- [Hixson 1991] L.J. Hixson, M.B. Fennerty, R.E. Sampliner and H.S. Garewal (1991). Prospective blinded trial of the colonoscopic miss-rate of large colorectal polyps. *Gastrointest Endosc* **37**(2): 125-7.
- [Hoff 1986] G. Hoff, A. Foerster, M.H. Vatn, J. Sauar and S. Larsen (1986). Epidemiology of polyps in the rectum and colon. Recovery and evaluation of unresected polyps 2 years after detection. *Scand J Gastroenterol* **21**(7): 853-62.
- [Hoff 1996a] G. Hoff, J. Sauar, B. Hofstad and M.H. Vatn (1996a). The Norwegian guidelines for surveillance after polypectomy: 10-year intervals. *Scand J Gastroenterol* **31**(9): 834-6.
- [Hoff 1996b] G. Hoff, J. Sauar, M.H. Vatn, S. Larsen, F. Langmark, I.E. Moen, A. Foerster and E. Thiis-Evensen (1996b). Polypectomy of adenomas in the prevention of colorectal cancer: 10 years' follow-up of the Telemark Polyp Study I. A prospective, controlled population study. *Scand J Gastroenterol* **31**(10): 1006-10.
- [Hoff 2000] G. Hoff (2000). Colonoscopy without sedation. *Scand J Gastroenterol* **35**(3): 225-6.
- [Hoff 2001] G. Hoff, E. Thiis-Evensen, T. Grotmol, J. Sauar, M.H. Vatn and I.E. Moen (2001). Do undesirable effects of screening affect all-cause mortality in flexible sigmoidoscopy programmes? Experience from the Telemark Polyp Study 1983-1996. *Eur J Cancer Prev* **10**(2): 131-7.
- [Hofstad 1996] B. Hofstad, M.H. Vatn, S.N. Andersen, H.S. Huitfeldt, T. Rognum, S. Larsen and M. Osnes (1996). Growth of colorectal polyps: redetection and evaluation of unresected polyps for a period of three years. *Gut* **39**(3): 449-56.
- [Integraal Kankercentrum Noord-Nederland 2000] Integraal Kankercentrum Noord-Nederland, Ed. (2000). *Richtlijnen voor diagnostiek en behandeling van premaligne en maligne aandoeningen in de IKN-regio*. Groningen, Integraal Kankercentrum Noord-Nederland.
- [Irvine 1988] E.J. Irvine, J. O'Connor, R.A. Frost, P. Shorvon, S. Somers, G.W. Stevenson and R.H. Hunt (1988). Prospective comparison of double contrast barium enema plus flexible sigmoidoscopy v colonoscopy in rectal bleeding: barium enema v colonoscopy in rectal bleeding. *Gut* **29**(9): 1188-1193.
- [Järvinen 1995] H.J. Järvinen, J.P. Mecklin and P. Sistonen (1995). Screening reduces colorectal cancer rate in families with hereditary nonpolyposis colorectal cancer. *Gastroenterology* **108**(5): 1405-11.

- [Järvinen 2000] H.J. Järvinen, M. Aarnio, H. Mustonen, K. Aktan-Collan, L.A. Aaltonen, P. Peltomäki, A. De La Chapelle and J.P. Mecklin (2000). Controlled 15-year trial on screening for colorectal cancer in families with hereditary nonpolyposis colorectal cancer. *Gastroenterology* **118**(5): 829-34.
- [Johnson 1990] D.A. Johnson, M.S. Gurney, R.J. Volpe, D.M. Jones, M.M. VanNess, S.J. Chobanian, J.C. Avalos, J.L. Buck, G. Kooyman and E.L. Cattau, Jr. (1990). A prospective study of the prevalence of colonic neoplasms in asymptomatic patients with an age-related risk. *Am J Gastroenterol* **85**(8): 969-74.
- [Jørgensen 1993] O.D. Jørgensen, O. Kronborg and C. Fenger (1993). The Funen Adenoma Follow-up Study. Incidence and death from colorectal carcinoma in an adenoma surveillance program. *Scand J Gastroenterol* **28**(10): 869-74.
- [Jørgensen 2002] O.D. Jørgensen, O. Kronborg and C. Fenger (2002). A randomised study of screening for colorectal cancer using faecal occult blood testing: results after 13 years and seven biennial screening rounds. *Gut* **50**(1): 29-32.
- [Kavanagh 1998] A.M. Kavanagh, E.L. Giovannucci, C.S. Fuchs and G.A. Colditz (1998). Screening endoscopy and risk of colorectal cancer in United States men. *Cancer Causes Control* **9**(4): 455-62.
- [Kewenter 1994] J. Kewenter, H. Brevinge, B. Engarås, E. Haglind and C. Åhrén (1994). Results of screening, rescreening, and follow-up in a prospective randomized study for detection of colorectal cancer by fecal occult blood testing. Results for 68,308 subjects. *Scand J Gastroenterol* **29**(5): 468-73.
- [Kewenter 1995] J. Kewenter, H. Brevinge, B. Engarås and E. Haglind (1995). The yield of flexible sigmoidoscopy and double-contrast barium enema in the diagnosis of neoplasms in the large bowel in patients with a positive Hemoccult test. *Endoscopy* **27**(2): 159-63.
- [Khandker 2000] R.K. Khandker, J.D. Dulski, J.B. Kilpatrick, R.P. Ellis, J.B. Mitchell and W.B. Baine (2000). A decision model and cost-effectiveness analysis of colorectal cancer screening and surveillance guidelines for average-risk adults. *Int J Technol Assess Health Care* **16**(3): 799-810.
- [Knoernschild 1963] H. Knoernschild (1963). Growth rate and malignant potential of colonic polyps: early results. *Surg Forum* **14**: 137-42.
- [Koopmanschap 1990a] M. Koopmanschap, J.T.N. Lubbe, G.J. van Oortmarssen, H.M.E. van Agt, M. van Ballegooijen and J.D.F. Habbema (1990a). Economic aspects of cervical cancer screening. *Soc Sci Med* **30**(10): 1081-7.
- [Koopmanschap 1990b] M. Koopmanschap, G.J. van Oortmarssen, H.M.A. van Agt, M. van Ballegooijen, J.D.F. Habbema and J.T.N. Lubbe (1990b). Cervical-cancer screening: attendance and cost-effectiveness. *Int J Cancer* **45**(3): 410-5.
- [Koretz 1993] R.L. Koretz (1993). Malignant polyps: are they sheep in wolves' clothing? *Ann Intern Med* **118**(1): 63-8.
- [Kremers 2000] S.P. Kremers, I. Mesters, I.E. Pladdet, B. van den Borne and R.W. Stockbrugger (2000). Participation in a sigmoidoscopic colorectal cancer screening program: a pilot study. *Cancer Epidemiol Biomarkers Prev* **9**(10): 1127-30.

- [Kronborg 1989] O. Kronborg, C. Fenger, J. Olsen, K. Bech and O. Søndergaard (1989). Repeated screening for colorectal cancer with fecal occult blood test. A prospective randomized study at Funen, Denmark. *Scand J Gastroenterol* **24**(5): 599-606.
- [Kronborg 1996] O. Kronborg, C. Fenger, J. Olsen, O.D. Jørgensen and O. Søndergaard (1996). Randomised study of screening for colorectal cancer with faecal-occult- blood test. *Lancet* **348**(9040): 1467-71.
- [Kwaliteitsinstituut voor de gezondheidszorg CBO 2002] Kwaliteitsinstituut voor de gezondheidszorg CBO (2002). *Herziening richtlijn follow-up na poliepectomie*. Utrecht, CBO.
- [Lameris 2000] J.S. Lameris and J. Stoker (2000). [Virtual colonoscopy] Virtuele colonoscopie. *Ned Tijdschr Geneesk* **144**(2): 60-4.
- [Landelijke tumorwerkgroep gastro-intestinale tumoren 2000] Landelijke tumorwerkgroep gastro-intestinale tumoren (2000). *Richtlijn voor Gastro-enterologie, Colon*.
- [Lang 1997] C.A. Lang and D.F. Ransohoff (1997). On the sensitivity of fecal occult blood test screening for colorectal cancer [editorial; comment]. *J Natl Cancer Inst* **89**(19): 1392-3.
- [Launoy 1997] G. Launoy, T.C. Smith, S.W. Duffy and V. Bouvier (1997). Colorectal cancer mass-screening: estimation of faecal occult blood test sensitivity, taking into account cancer mean sojourn time. *Int J Cancer* **73**(2): 220-4.
- [Law 1982] A.M. Law and W.D. Kelton (1982). *Simulation Modeling and Analysis*. New York, McGraw-Hill.
- [l'Ecuyer 1991] P. l'Ecuyer and S. Côté (1991). Implementing a random number package with splitting facilities. *ACM Transactions on Mathematical Software* **17**: 98-111.
- [Levi 1993] F. Levi, L. Randimbison and C. La Vecchia (1993). Incidence of colorectal cancer following adenomatous polyps of the large intestine. *Int J Cancer* **55**(3): 415-8.
- [Levin 1999] T.R. Levin, A. Palitz, S. Grossman, C. Conell, L. Finkler, L. Ackerson, G. Rumore and J.V. Selby (1999). Predicting advanced proximal colonic neoplasia with screening sigmoidoscopy. *JAMA* **281**(17): 1611-7.
- [Lewis 1999] J.D. Lewis and D.A. Asch (1999). Barriers to office-based screening sigmoidoscopy: does reimbursement cover costs? *Ann Intern Med* **130**(6): 525-30.
- [Lieberman 1991a] D.A. Lieberman (1991a). Cost-effectiveness of colon cancer screening. *Am J Gastroenterol* **86**(12): 1789-94.
- [Lieberman 1991b] D.A. Lieberman and F.W. Smith (1991b). Screening for colon malignancy with colonoscopy. *Am J Gastroenterol* **86**(8): 946-51.
- [Lieberman 1995] D.A. Lieberman (1995). Cost-effectiveness model for colon cancer screening. *Gastroenterology* **109**(6): 1781-90.
- [Lieberman 1996] D.A. Lieberman (1996). Mass Screening: North American Perspective. *Prevention and early detection of colorectal cancer*. G. P. Young, P. Rozen and B. Levin. London, W.B Saunders Ltd: 289-300.

- [Lieberman 2001] D.A. Lieberman and D.G. Weiss (2001). One-time screening for colorectal cancer with combined fecal occult-blood testing and examination of the distal colon. *N Engl J Med* **345**(8): 555-60.
- [Loeve 1998] F. Loeve, R. Boer, M. van Ballegooijen, G.J. van Oortmarssen and J.D.F. Habbema (1998). *Final report MISCAN-COLON Microsimulation Model for Colorectal Cancer. (Report to the National Cancer Institute Project No. NOI-CN55186)*. Rotterdam, Department of Public Health, Erasmus University.
- [Loeve 1999] F. Loeve, R. Boer, G.J. van Oortmarssen, M. van Ballegooijen and J.D.F. Habbema (1999). The MISCAN-COLON simulation model for the evaluation of colorectal cancer screening. *Comput Biomed Res* **32**(1): 13-33.
- [Loeve 2000] F. Loeve, M.L. Brown, R. Boer, M. van Ballegooijen, G.J. van Oortmarssen and J.D.F. Habbema (2000). Endoscopic Colorectal Cancer Screening: a Cost-Saving Analysis. *J Natl Cancer Inst* **92**(7): 557-63.
- [Loktionov 1998] A. Loktionov, I.K. O'Neill, K.R. Silvester, J.H. Cummings, S.J. Middleton and R. Miller (1998). Quantitation of DNA from exfoliated colonocytes isolated from human stool surface as a novel noninvasive screening test for colorectal cancer. *Clin Cancer Res* **4**(2): 337-42.
- [Lotfi 1986] A.M. Lotfi, R.J. Spencer, D.M. Ilstrup and L.J. Melton, 3rd (1986). Colorectal polyps and the risk of subsequent carcinoma. *Mayo Clin Proc* **61**(5): 337-43.
- [Lund 2001] J.N. Lund, J.H. Scholefield, M.J. Grainge, S.J. Smith, C. Mangham, N.C. Armitage, M.H. Robinson and R.F. Logan (2001). Risks, costs, and compliance limit colorectal adenoma surveillance: lessons from a randomised trial. *Gut* **49**(1): 91-6.
- [Lynch 1993] H.T. Lynch, T.C. Smyrk, P. Watson, S.J. Lanspa, J.F. Lynch and P.M. Lynch (1993). Genetics, natural history, tumor spectrum and pathology of hereditary nonpolyposis colorectal cancer: an updated review. *Gastroenterology* **104**(5): 1535-49.
- [Macrae 1982] F.A. Macrae and D.J. St. John (1982). Relationship between patterns of bleeding and Hemoccult sensitivity in patients with colorectal cancers or adenomas. *Gastroenterology* **82**(5 Pt 1): 891-8.
- [Mandel 1993] J.S. Mandel, J.H. Bond, T.R. Church, D.C. Snover, G.M. Bradley, L.M. Schuman and F. Ederer (1993). Reducing mortality from colorectal cancer by screening for fecal occult blood. Minnesota Colon Cancer Control Study. *N Engl J Med* **328**(19): 1365-71.
- [Mandel 1999] J.S. Mandel, T.R. Church, F. Ederer and J.H. Bond (1999). Colorectal cancer mortality: effectiveness of biennial screening for fecal occult blood. *J Natl Cancer Inst* **91**(5): 434-7.
- [Mandel 2000] J.S. Mandel, T.R. Church, J.H. Bond, F. Ederer, M.S. Geisser, S.J. Mongin, D.C. Snover and L.M. Schuman (2000). The Effect of Fecal Occult-Blood Screening on the Incidence of Colorectal Cancer. *N Engl J Med* **343**(22): 1603-7.
- [Markowitz 1997] A.J. Markowitz and S.J. Winawer (1997). Screening and surveillance for colorectal carcinoma. *Hematol Oncol Clin North Am* **11**(4): 579-608.
- [Meagher 1994] A.P. Meagher and M. Stuart (1994). Does colonoscopic polypectomy reduce the incidence of colorectal carcinoma? *Aust N Z J Surg* **64**(6): 400-4.

- [Mood 1974] A.M. Mood, F.A. Graybill and D.C. Boes (1974). *Introduction to the theory of statistics*. Singapore, McGraw-Hill.
- [Morson 1974] B. Morson (1974). President's address. The polyp-cancer sequence in the large bowel. *Proc R Soc Med* **67**(6): 451-7.
- [Morson 1976] B.C. Morson (1976). Genesis of colorectal cancer. *Clin Gastroenterol* **5**(3): 505-25.
- [Morson 1984] B.C. Morson (1984). The evolution of colorectal carcinoma. *Clin Radiol* **35**(6): 425-31.
- [Moss 1999] S.M. Moss, J.D. Hardcastle, D.A. Coleman, M.H. Robinson and V.C. Rodrigues (1999). Interval cancers in a randomized controlled trial of screening for colorectal cancer using a faecal occult blood test. *Int J Epidemiol* **28**(3): 386-90.
- [Muller 1995a] A.D. Muller and A. Sonnenberg (1995a). Protection by endoscopy against death from colorectal cancer. A case- control study among veterans. *Arch Intern Med* **155**(16): 1741-8.
- [Muller 1995b] A.D. Muller and A. Sonnenberg (1995b). Prevention of colorectal cancer by flexible endoscopy and polypectomy. A case-control study of 32,702 veterans. *Ann Intern Med* **123**(12): 904-10.
- [Muto 1975] T. Muto, H.J. Bussey and B.C. Morson (1975). The evolution of cancer of the colon and rectum. *Cancer* **36**(6): 2251-70.
- [Nagengast 2001] F.M. Nagengast and C.J. Kaandorp (2001). [Revised CBO guideline 'Follow-up after polypectomy'] Herziene CBO-richtlijn 'Follow-up na poliepectomie'. *Ned Tijdschr Geneesk* **145**(42): 2022-5.
- [Nakama 1996] H. Nakama, N. Kamijo, A.S. Abdul Fattah and B. Zhang (1996). Validity of immunological faecal occult blood screening for colorectal cancer: a follow up study. *J Med Screen* **3**(2): 63-5.
- [Nakama 1997a] H. Nakama, A.S. Abdul Fattah, B. Zhang, N. Kamijo, K. Fujimori and K. Miyata (1997a). Detection rate of immunochemical fecal occult blood test for colorectal adenomatous polyps with severe dysplasia. *J Gastroenterol* **32**(4): 492-5.
- [Nakama 1997b] H. Nakama, N. Kamijo, K. Fujimori, A.S. Fattah and B. Zhang (1997b). Relationship between fecal sampling times and sensitivity and specificity of immunochemical fecal occult blood tests for colorectal cancer: a comparative study. *Dis Colon Rectum* **40**(7): 781-4.
- [National Cancer Institute 1997] National Cancer Institute and S.P. DCPC, Cancer Statistics Branch, (1997). *Surveillance, Epidemiology, and End Results (SEER) Program public use CD-ROM (1973-1994)*. Released May 1997, based on the August 1996 Submission.
- [National Cancer Institute 2001] National Cancer Institute and S.R.P. DCCPC, Cancer Statistics Branch, (2001). *Surveillance, Epidemiology, and End Results (SEER) Program public use CD-ROM (1973-1998)*. Released April 2001, based on the August 2000 Submission.
- [National Cancer Institute 2002] National Cancer Institute (2002). *What you need to know about cancer of the colon and rectum*, <http://www.cancer.gov>.

- [Neilson 1995] A.R. Neilson and D.K. Whynes (1995). Cost-effectiveness of screening for colorectal cancer: a simulation model. *IMA J Math Appl Med Biol* **12**(3-4): 355-67.
- [Nelson 2002] D.B. Nelson, K.R. McQuaid, J.H. Bond, D.A. Lieberman, D.G. Weiss and T.K. Johnston (2002). Procedural success and complications of large-scale screening colonoscopy. *Gastrointest Endosc* **55**(3): 307-314.
- [Ness 2000] R.M. Ness, A.M. Holmes, R. Klein and R. Dittus (2000). Cost-utility of one-time colonoscopic screening for colorectal cancer at various ages. *Am J Gastroenterol* **95**(7): 1800-11.
- [Neugut 1996] A.I. Neugut and G.P. Young (1996). Screening for colorectal cancer: an overview. *Prevention and Early Detection of Colorectal Cancer*. G. P. Young, P. Rozen and B. Levin. London, W.B. Saunders Ltd: 357-67.
- [Newcomb 1992] P.A. Newcomb, R.G. Norfleet, B.E. Storer, T.S. Surawicz and P.M. Marcus (1992). Screening sigmoidoscopy and colorectal cancer mortality. *J Natl Cancer Inst* **84**(20): 1572-5.
- [Olsen 2001] O. Olsen and P.C. Gøtzsche (2001). Cochrane review on screening for breast cancer with mammography. *Lancet* **358**(9290): 1340-2.
- [Otchy 1996] D.P. Otchy, D.F. Ransohoff, B.G. Wolff, A. Weaver, D. Ilstrup, H. Carlson and D. Rademacher (1996). Metachronous colon cancer in persons who have had a large adenomatous polyp. *Am J Gastroenterol* **91**(3): 448-54.
- [Palitz 1997] A.M. Palitz, J.V. Selby, S. Grossman, L.J. Finkler, M. Bevc, C. Kehr and C.A. Conell (1997). The Colon Cancer Prevention Program (CoCaP): rationale, implementation, and preliminary results. *HMO Pract* **11**(1): 5-12.
- [Pappalardo 2000] G. Pappalardo, E. Poletini, F.M. Frattaroli, E. Casciani, C. D'Orta, M. D'Amato and G.F. Gualdi (2000). Magnetic resonance colonography versus conventional colonoscopy for the detection of colonic endoluminal lesions. *Gastroenterology* **119**(2): 300-4.
- [Pescatore 2000] P. Pescatore, T. Glucker, J. Delarive, R. Meuli, D. Pantoflickova, B. Duvoisin, P. Schnyder, A.L. Blum and G. Dorta (2000). Diagnostic accuracy and interobserver agreement of CT colonography (virtual colonoscopy). *Gut* **47**(1): 126-30.
- [Pignone 2002] M. Pignone, S. S., T. Hoerger and J. Mandelblatt (2002). Cost-effectiveness Analysis of Colorectal Cancer Screening: A Systematic Review for the U.S. Preventive Services Task Force. *Ann Intern Med* **137**(2): 96-104.
- [Pinsky 2000] P.F. Pinsky (2000). A multi-stage model of adenoma development. *J Theor Biol* **207**(2): 129-43.
- [Prager 1974] E.D. Prager, N.W. Swinton, J.L. Young, M.C. Veidenheimer and M.L. Corman (1974). Follow-up study of patients with benign mucosal polyps discovered by proctosigmoidoscopy. *Dis Colon Rectum* **17**: 322-4.
- [Ransohoff 1990] D.F. Ransohoff and C.A. Lang (1990). Small adenomas detected during fecal occult blood test screening for colorectal cancer. The impact of serendipity. *JAMA* **264**(1): 76-8.

- [Ransohoff 1997] D.F. Ransohoff, C.A. Lang and G.P. Young (1997). Colorectal cancer screening: clinical guidelines and rationale [letter; comment]. *Gastroenterology* **113**(4): 1423-4.
- [Rembacken 2000] B.J. Rembacken, T. Fuji, A. Cairns, M.F. Dixon, S. Yoshida, D.M. Chalmers and A.T.R. Axon (2000). Flat and depressed colonic neoplasms: a prospective study of 1000 colonoscopies in the UK. *Lancet* **355**(9211): 1211-14.
- [Rex 1991] D.K. Rex, G.A. Lehman, R.H. Hawes, T.M. Ulbright and J.J. Smith (1991). Screening colonoscopy in asymptomatic average-risk persons with negative fecal occult blood tests. *Gastroenterology* **100**(1): 64-7.
- [Rex 1997a] D.K. Rex (1997a). Barium enema and colon cancer screening: finally a study. *Am J Gastroenterol* **92**(9): 1570-2.
- [Rex 1997b] D.K. Rex, C.S. Cutler, G.T. Lemmel, E.Y. Rahmani, D.W. Clark, D.J. Helper, G.A. Lehman and D.G. Mark (1997b). Colonoscopic miss rates of adenomas determined by back-to-back colonoscopies. *Gastroenterology* **112**(1): 24-8.
- [Rex 1997c] D.K. Rex, E.Y. Rahmani, J.H. Haseman, G.T. Lemmel, S. Kaster and J.S. Buckley (1997c). Relative sensitivity of colonoscopy and barium enema for detection of colorectal cancer in clinical practice. *Gastroenterology* **112**(1): 17-23.
- [Rickert 1979] R.R. Rickert, O. Auerbach, L. Garfinkel, E.C. Hammond and J.M. Frasca (1979). Adenomatous lesions of the large bowel: an autopsy survey. *Cancer* **43**(5): 1847-57.
- [Ries 1997] L.A.G. Ries, C.L. Kosary, B.F. Hankey, B.A. Miller, A. Harras and B.K. Edwards (1997). *SEER Cancer Statistics Review, 1973-1994*, National Cancer Institute. NIH Pub. No. 97-2789. Bethesda, MD.
- [Ries 1998] L.A.G. Ries, C.L. Kosary, B.F. Hankey, B.A. Miller and B.K. Edwards (1998). *SEER Cancer Statistics Review, 1973-1995*, National Cancer Institute. Bethesda, MD.
- [Rogge 1994] J.D. Rogge, M.F. Elmore, S.J. Mahoney, E.D. Brown, F.P. Troiano, D.R. Wagner, D.J. Black and D.C. Pound (1994). Low-cost, office-based, screening colonoscopy. *Am J Gastroenterol* **89**(10): 1775-80.
- [Rozen 1997] P. Rozen, J. Knaani and Z. Samuel (1997). Performance characteristics and comparison of two immunochemical and two guaiac fecal occult blood screening tests for colorectal neoplasia. *Dig Dis Sci* **42**(10): 2064-71.
- [Saito 1989] Y. Saito, P. Slezak and C. Rubio (1989). The diagnostic value of combining flexible sigmoidoscopy and double-contrast enema as a one-stage procedure. *Gastrointest Radiol* **14**(4): 357-9.
- [Samowitz 2001] W.S. Samowitz, K. Curtin, H.H. Lin, M.A. Robertson, D. Schaffer, M. Nichols, K. Grunthal, M.F. Leppert and M.L. Slattery (2001). The colon cancer burden of genetically defined hereditary nonpolyposis colon cancer. *Gastroenterology* **121**(4): 830-8.
- [Sandler 2003] R.S. Sandler, S. Halabi, J.A. Baron, S. Budinger, E. Paskett, R. Keresztes, N. Petrelli, J.M. Pipas, D.D. Karp, C.L. Loprinzi, G. Steinbach and R. Schilsky (2003). A randomized trial of aspirin to prevent colorectal adenomas in patients with previous colorectal cancer. *N Engl J Med* **348**(10): 883-90.

- [Schatzkin 2000] A. Schatzkin, E. Lanza, D. Corle, P. Lance, F. Iber, B. Caan, M. Shike, J. Weissfeld, R. Burt, M.R. Cooper, J.W. Kikendall and J. Cahill (2000). Lack of effect of a low-fat, high-fiber diet on the recurrence of colorectal adenomas. Polyp Prevention Trial Study Group. *N Engl J Med* **342**(16): 1149-55.
- [Scholefield 2002] J.H. Scholefield, S. Moss, F. Sufi, C.M. Mangham and J.D. Hardcastle (2002). Effect of faecal occult blood screening on mortality from colorectal cancer: results from a randomised controlled trial. *Gut* **50**(6): 840-4.
- [Selby 1988] J.V. Selby, G.D. Friedman and M.F. Collen (1988). Sigmoidoscopy and mortality from colorectal cancer: the Kaiser Permanente Multiphasic Evaluation Study. *J Clin Epidemiol* **41**(5): 427-34.
- [Selby 1992] J.V. Selby, G.D. Friedman, C.P. Quesenberry, Jr. and N.S. Weiss (1992). A case-control study of screening sigmoidoscopy and mortality from colorectal cancer]. *N Engl J Med* **326**(10): 653-7.
- [Selby 1995] J.V. Selby (1995). Clinical trials of screening sigmoidoscopy. *Cancer of the colon, rectum, and anus*. A. M. Cohen and S. J. Winawer. New York, McGraw-Hill Inc.: 291-302.
- [Senore 1996] C. Senore, N. Segnan, F.P. Rossini, R. Ferraris, M. Cavallero, F. Coppola, M. Pennazio and W.S. Atkin (1996). Screening for colorectal cancer by once only sigmoidoscopy: a feasibility study in Turin, Italy. *J Med Screen* **3**(2): 72-8.
- [Sieg 1998] A. Sieg, A. Hertel, M.R. John, K. Luthgens and H. Schmidt-Gayk (1998). Screening for colorectal neoplasms with a new immunological human faecal haemoglobin and albumin test. *Eur J Cancer Prev* **7**(4): 279-85.
- [Sigurdsson 1995] K. Sigurdsson (1995). Quality assurance in cervical cancer screening: the Icelandic experience 1964-1993. *Eur J Cancer* **31A**(5): 728-34.
- [Smith 2002] R.A. Smith, V. Cokkinides, E. von, B. Levin, C. Cohen, C.D. Runowicz, S. Sener, D. Saslow and H.J. Eyre (2002). American Cancer Society guidelines for the early detection of cancer. *CA Cancer J Clin* **52**(1): 8-22.
- [Snel 1988] P. Snel and A.N. de Wolf (1988). [Consensus follow-up study after polypectomy] Consensus follow-up-onderzoek na polipectomie. *Ned Tijdschr Geneesk* **132**(11): 489-91.
- [Sonnenberg 2000] A. Sonnenberg, F. Delco and J.M. Inadomi (2000). Cost-effectiveness of colonoscopy in screening for colorectal cancer. *Ann Intern Med* **133**(8): 573-84.
- [Spencer 1984] R.J. Spencer, L.J.d. Melton, R.L. Ready and D.M. Ilstrup (1984). Treatment of small colorectal polyps: a population-based study of the risk of subsequent carcinoma. *Mayo Clin Proc* **59**(5): 305-10.
- [Steinbach 2000] G. Steinbach, P.M. Lynch, R.K. Phillips, M.H. Wallace, E. Hawk, G.B. Gordon, N. Wakabayashi, B. Saunders, Y. Shen, T. Fujimura, L.K. Su and B. Levin (2000). The effect of celecoxib, a cyclooxygenase-2 inhibitor, in familial adenomatous polyposis. *N Engl J Med* **342**(26): 1946-52.

- [Steine 1993] S. Steine, A. Stordahl, O.C. Lunde, K. Loken and E. Laerum (1993). Double-contrast barium enema versus colonoscopy in the diagnosis of neoplastic disorders: aspects of decision-making in general practice. *Fam Pract* **10**(3): 288-91.
- [Stichting PALGA 1999] Stichting PALGA (1999). *PALGA-Thesaurus, editie 1999*. Culemborg, Technimedia.
- [Strom 1999] E. Strom and J.L. Larsen (1999). Colon cancer at barium enema examination and colonoscopy: a study from the county of Hordaland, Norway. *Radiology* **211**(1): 211-4.
- [Stryker 1987] S.J. Stryker, B.G. Wolff, C.E. Culp, S.D. Libbe, D.M. Ilstrup and R.L. MacCarty (1987). Natural history of untreated colonic polyps. *Gastroenterology* **93**(5): 1009-13.
- [The European Group for Colorectal Cancer Screening 1999] The European Group for Colorectal Cancer Screening (1999). Recommendation to include colorectal cancer screening in public health policy. *J Med Screen* **6**(2): 80-1.
- [Thiis-Evensen 1999] E. Thiis-Evensen, G.S. Hoff, J. Sauar, F. Langmark, B.M. Majak and M.H. Vatn (1999). Population-based surveillance by colonoscopy: effect on the incidence of colorectal cancer. Telemark Polyp Study I. *Scand J Gastroenterol* **34**(4): 414-20.
- [Thiis-Evensen 2001] E. Thiis-Evensen, G.S. Hoff, J. Sauar, B.M. Majak and M.H. Vatn (2001). The effect of attending a flexible sigmoidoscopic screening program on the prevalence of colorectal adenomas at 13-year follow-up. *Am J Gastroenterol* **96**(6): 1901-7.
- [Towler 1998] B. Towler, L. Irwig, P. Glasziou, J. Kewenter, D. Weller and C. Silagy (1998). A systematic review of the effects of screening for colorectal cancer using the faecal occult blood test, hemocult. *BMJ* **317**(7158): 559-65.
- [Traverso 2002] G. Traverso, A. Shuber, B. Levin, C. Johnson, L. Olsson, D.J. Schoetz, Jr., S.R. Hamilton, K. Boynton, K.W. Kinzler and B. Vogelstein (2002). Detection of APC mutations in fecal DNA from patients with colorectal tumors. *N Engl J Med* **346**(5): 311-20.
- [U.S. Preventive Service Task Force 2002] U.S. Preventive Service Task Force (2002). Screening for Colorectal Cancer: Recommendation and Rationale. *Ann Intern Med* **137**(2): 129-31.
- [UK Flexible Sigmoidoscopy Screening Trial Investigators 2002] UK Flexible Sigmoidoscopy Screening Trial Investigators (2002). Single flexible sigmoidoscopy screening to prevent colorectal cancer: baseline findings of a UK multicentre randomised trial. *Lancet* **359**(9314): 1291-1300.
- [van Ballegooijen 1992] M. van Ballegooijen, J.D.F. Habbema, G.J. van Oortmarssen, M.A. Koopmanschap, J.T. Lubbe and H.M. van Agt (1992). Preventive Pap-smears: balancing costs, risks and benefits. *Br J Cancer* **65**(6): 930-3.
- [van Ballegooijen 1993] M. van Ballegooijen, R. Boer, G.J. van Oortmarssen, M.A. Koopmanschap, J.T.N. Lubbe and J.D.F. Habbema (1993). *Cervical cancer screening: Age-ranges and intervals. An updated cost-effectiveness analysis*, Erasmus University Rotterdam.
- [van Ballegooijen 1997] M. van Ballegooijen, M.E. van den Akker-van Marle, P.G. Warmerdam, C.J.L.M. Meijer, J.M.M. Walboomers and J.D.F. Habbema (1997). Present evidence on

- the value of HPV testing for cervical cancer screening: a model-based exploration of the (cost-)effectiveness. *Br J Cancer* **76**(5): 651-7.
- [van den Akker-van Marle 1999] E. van den Akker-van Marle, H.J. de Koning, R. Boer and P.J. van der Maas (1999). Reduction in breast cancer mortality due to the introduction of mass screening in the Netherlands: comparison with the United Kingdom. *J Med Screen* **6**(1): 30-4.
- [van den Akker-van Marle 2002] M.E. van den Akker-van Marle, M. van Ballegooijen, G.J. van Oortmarssen, R. Boer and J.D.F. Habbema (2002). Cost-effectiveness of cervical cancer screening: comparison of screening policies. *J Natl Cancer Inst* **94**(3): 193-204.
- [van der Maas 1989] P.J. van der Maas, H.J. de Koning, B.M. van Ineveld, G.J. van Oortmarssen, J.D.F. Habbema, J.T.N. Lubbe, A.T. Geerts, H.J.A. Collette, A.L.M. Verbeek, J.H.C.L. Hendriks and J.J. Rombach (1989). The cost-effectiveness of breast cancer screening. *Int J Cancer* **43**(6): 1055-60.
- [van Oortmarssen 1990a] G.J. van Oortmarssen, J.D.F. Habbema, J.T.N. Lubbe and P.J. van der Maas (1990a). A model-based analysis of the HIP project for breast cancer screening. *Int J Cancer* **46**(2): 207-13.
- [van Oortmarssen 1990b] G.J. van Oortmarssen, J.D.F. Habbema, P.J. van der Maas, H.J. de Koning, H.J.A. Collette, A.L.M. Verbeek, A.T. Geerts and J.T.N. Lubbe (1990b). A model for breast cancer screening. *Cancer* **66**(7): 1601-12.
- [van Oortmarssen 1991] G.J. van Oortmarssen and J.D.F. Habbema (1991). Epidemiological evidence for age-dependent regression of pre-invasive cervical cancer. *Br J Cancer* **64**(3): 559-65.
- [van Oortmarssen 1992] G.J. van Oortmarssen, J.D.F. Habbema and M. van Ballegooijen (1992). Predicting mortality from cervical cancer after negative smear test results. *BMJ* **305**(6851): 449-51.
- [van Oortmarssen 1995a] G.J. van Oortmarssen, R. Boer, J.D.F. Habbema and J.T.N. Lubbe (1995a). Modelling issues in cancer screening. *Stat Methods Med Res* **4**(1): 33-54.
- [van Oortmarssen 1995b] G.J. van Oortmarssen and J.D.F. Habbema (1995b). Duration of preclinical cervical cancer and reduction in incidence of invasive cancer following negative pap smears. *Int J Epidemiol* **24**(2): 300-7.
- [van Veen 2001] W.A. van Veen (2001). Landelijk bevolkingsonderzoek naar darmkanker nadere bestudering waard; een advies van de Gezondheidsraad. *Ned Tijdschr Geneesk* **145**(34): 1655-7.
- [Vasen 1991] H.F. Vasen, J.P. Mecklin, P.M. Khan and H.T. Lynch (1991). The International Collaborative Group on Hereditary Non-Polyposis Colorectal Cancer (ICG-HNPCC). *Dis Colon Rectum* **34**(5): 424-5.
- [Vasen 1999a] H.F. Vasen, F.M. Nagengast, G. Griffioen, J.H. Kleibeuker, F.H. Menko and B.G. Taal (1999a). [Periodic colonoscopic examinations of persons with a positive family history for colorectal cancer. Work Group 'Hereditary non-polyposis-colon-rectum cancers'] Periodiek colonoscopisch onderzoek bij personen met een belaste familieanamnese voor colorectaal carcinoom. *Ned Tijdschr Geneesk* **143**(23): 1211-4.

- [Vasen 1999b] H.F. Vasen, P. Watson, J.P. Mecklin and H.T. Lynch (1999b). New clinical criteria for hereditary nonpolyposis colorectal cancer (HNPCC, Lynch syndrome) proposed by the International Collaborative Group on HNPCC. *Gastroenterology* **116**(6): 1453-6.
- [Vasen 2001] H.F. Vasen, A. Stormorken, F.H. Menko, F.M. Nagengast, J.H. Kleibeuker, G. Griffioen, B.G. Taal, P. Moller and J.T. Wijnen (2001). Msh2 mutation carriers are at higher risk of cancer than mlh1 mutation carriers: a study of hereditary nonpolyposis colorectal cancer families. *J Clin Oncol* **19**(20): 4074-80.
- [Vijan 2001] S. Vijan, E.W. Hwang, T.P. Hofer and R.A. Hayward (2001). Which colon cancer screening test? A comparison of costs, effectiveness, and compliance. *Am J Med* **111**(8): 593-601.
- [Visser 1996] O. Visser, J.W.W. Coebergh and L.J. Schouten, Eds. (1996). *Incidence of cancer in the Netherlands 1993*. Utrecht, Vereniging van Integrale Kankercentra.
- [Visser 1997] O. Visser, J.W.W. Coebergh, L.J. Schouten and J.A.A.M. van Dijk, Eds. (1997). *Incidence of cancer in the Netherlands 1994*. Utrecht, Vereniging van Integrale Kankercentra.
- [Visser 1998] O. Visser, J.W.W. Coebergh, L.J. Schouten and J.A.A.M. van Dijk, Eds. (1998). *Incidence of cancer in the Netherlands 1995*. Utrecht, Vereniging van Integrale Kankercentra.
- [Visser 2001] O. Visser, J.W.W. Coebergh, L.J. Schouten and J.A.A.M. van Dijk, Eds. (2001). *Incidence of cancer in the Netherlands 1997*. Utrecht, Vereniging van Integrale Kankercentra.
- [Vogelstein 1988] B. Vogelstein, E.R. Fearon, S.R. Hamilton, S.E. Kern, A.C. Preisinger, M. Leppert, Y. Nakamura, R. White, A.M. Smits and J.L. Bos (1988). Genetic alterations during colorectal-tumor development. *N Engl J Med* **319**(9): 525-32.
- [Wagner 1996] J.L. Wagner, S. Tunis, M. Brown, A. Ching and R. Almeida (1996). Cost-effectiveness of Colorectal Cancer Screening in Average-Risk Adults. *Prevention and Early Detection of Colorectal Cancer*. G. P. Young, P. Rozen and B. Levin. London, W.B. Saunders Ltd: 321-56.
- [Walter 1983] S.D. Walter and N.E. Day (1983). Estimation of the duration of a pre-clinical disease state using screening data. *Am J Epidemiol* **118**(6): 865-86.
- [Weinstein 1996] M.C. Weinstein, J.E. Siegel, M.R. Gold, M.S. Kamlet and L.B. Russell (1996). Recommendations of the Panel on Cost-effectiveness in Health and Medicine. *JAMA* **276**(15): 1253-8.
- [Weiss 1996] N.S. Weiss and D. Lazovich (1996). Case-control studies of screening efficacy: the use of persons newly diagnosed with cancer who later sustain an unfavorable outcome. *Am J Epidemiol* **143**(4): 319-22.
- [Whynes 1998] D.K. Whynes, A.R. Neilson, A.R. Walker and J.D. Hardcastle (1998). Faecal occult blood screening for colorectal cancer: is it cost-effective? *Health Econ* **7**(1): 21-9.
- [Williams 1982b] A.R. Williams, B.A.W. Balasooriya and D.W. Day (1982b). Polyps and cancer of the large bowel: a necropsy study in Liverpool. *Gut* **23**(10): 835-42.

- [Williams 1974] C.B. Williams, R.H. Hunt, H. Loose, R.H. Riddel, Y. Sakai and E.T. Swarbrick (1974). Colonoscopy in the management of colon polyps. *Br J Surg* **61**: 673-82.
- [Williams 1982a] J.A. Williams, R. Hunter, M. Smith, M.E. Coles, T.W. Hubert and D.W. Thomas (1982a). Evaluation of an immunological test for occult bleeding from colorectal neoplasia. *Aust N Z J Surg* **52**(6): 617-21.
- [Wilson 1968] J.M.G. Wilson and G. Jungner (1968). *Principles and Practice of Screening for Disease*. Geneva, WHO.
- [Wilson 2001] L.S. Wilson and J. Lightwood (2001). Model of estimated rates of colorectal cancer from polyp growth by year of surveillance. *J Med Screen* **8**(4): 187-96.
- [Winawer 1992] S.J. Winawer, A.G. Zauber, M.J. O'Brien, L.S. Gottlieb, S.S. Sternberg, E.T. Stewart, J.H. Bond, M. Schapiro, J.F. Panish, J.D. Wayne et al. (1992). The National Polyp Study. Design, methods, and characteristics of patients with newly diagnosed polyps. The National Polyp Study Workgroup. *Cancer* **70**(5 Suppl): 1236-45.
- [Winawer 1993a] S.J. Winawer, A.G. Zauber, M.N. Ho, M.J. O'Brien, L.S. Gottlieb, S.S. Sternberg, J.D. Wayne, M. Schapiro, J.H. Bond, J.F. Panish et al. (1993a). Prevention of colorectal cancer by colonoscopic polypectomy. The National Polyp Study Workgroup. *N Engl J Med* **329**(27): 1977-81.
- [Winawer 1993b] S.J. Winawer, A.G. Zauber, M.J. O'Brien, M.N. Ho, L. Gottlieb, S.S. Sternberg, J.D. Wayne, J. Bond, M. Schapiro, E.T. Stewart, J. Panish, F. Ackroyd, R.C. Kurtz, M. Shike and T.N.P.S. Workgroup (1993b). Randomized comparison of surveillance intervals after colonoscopic removal of newly diagnosed adenomatous polyps. The National Polyp Study Workgroup. *N Engl J Med* **328**(13): 901-6.
- [Winawer 1997] S.J. Winawer, R.H. Fletcher, L. Miller, F. Godlee, M.H. Stolar, C.D. Mulrow, S.H. Woolf, S.N. Glick, T.G. Ganiats, J.H. Bond, L. Rosen, J.G. Zapka, S.J. Olsen, F.M. Giardiello, J.E. Sisk, R.v. Antwerp, C. Brown-Davis, D.A. Marcinak and R.J. Mayer (1997). Colorectal cancer screening: clinical guidelines and rationale. *Gastroenterology* **112**(2): 594-642.
- [Winawer 2000] S.J. Winawer, E.T. Stewart, A.G. Zauber, J.H. Bond, H. Ansel, J.D. Wayne, D. Hall, J.A. Hamlin, M. Schapiro, M.J. O'Brien, S.S. Sternberg and L.S. Gottlieb (2000). A comparison of colonoscopy and double-contrast barium enema for surveillance after polypectomy. National Polyp Study Work Group. *N Engl J Med* **342**(24): 1766-72.
- [Winawer 2003] S.J. Winawer, R. Fletcher, D. Rex, J. Bond, R. Burt, J. Ferrucci, T. Ganiats, T. Levin, S. Woolf, D. Johnson, L. Kirk, S. Litin and C. Simmang (2003). Colorectal cancer screening and surveillance: clinical guidelines and rationale-Update based on new evidence. *Gastroenterology* **124**(2): 544-60.
- [World Health Organization 1990] World Health Organization (1990). *International Classification of Diseases for Oncology*. Geneva, WHO.
- [Yee 2001] J. Yee, G.A. Akerkar, R.K. Hung, A.M. Steinauer-Gebauer, S.D. Wall and K.R. McQuaid (2001). Colorectal neoplasia: performance characteristics of CT colonography for detection in 300 patients. *Radiology* **219**(3): 685-92.
- [Zappa 2001] M. Zappa, G. Castiglione, E. Paci, G. Grazzini, T. Rubeca, P. Turco, E. Crocetti and S. Ciatto (2001). Measuring interval cancers in population-based screening using

different assays of fecal occult blood testing: the District of Florence experience. *Int J Cancer* **92**(1): 151-4.

[Zauber 2000] A.G. Zauber, S.J. Winawer, F. Loeve, R. Boer and J.D.F. Habbema (2000). Effect of initial polypectomy versus surveillance polypectomy on colorectal cancer incidence reduction: Micro-simulation modeling of National Polyp Study data. *Gastroenterology Part 1 Suppl. 2* **118**(4): A187.