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Curriculum Vitae

Wylie Burke MD PhD
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Personal Data:

Place of birth: Utica, New York
Citizenship: USA

Education:

Undergraduate: Brooklyn College B.A., 1970
Brooklyn, New York
Graduate: Department of Genetics Ph.D., 1974
University of Washington, Seattle, WA
Medical: University of Washington M.D., 1978
School of Medicine, Seattle, WA

Postgraduate Training:

Residency: Internal Medicine (Primary Care Pathway) 6/78 - 6/81
University of Washington, Seattle, WA
Fellowship: Medical Genetics 6/81 - 12/82
University of Washington, Seattle, WA

Faculty Positions Held:

Professor of Bioethics and Humanities, University of Washington 10/08 – present
Chair, Department of Bioethics and Humanities, University of Washington 10/08 – 1/14
Chair, Department of Medical History and Ethics, University of Washington 10/00 – 10/08
Professor of Medical History and Ethics
Adjunct Professor of Medicine, University of Washington 10/00 – present
Adjunct Professor of Epidemiology, University of Washington 10/00 – 6/14
Member, Fred Hutchinson Cancer Research Center, Seattle, Washington 1/07 – present
Associate Professor, Department of Medicine, University of Washington 7/94 – 10/00
Division of Medical Genetics 1/00 – 10/00
Division of General Internal Medicine 7/94 - 12/99
Associate Member, Fred Hutchinson Cancer Research Center 7/94 – 12/06
Seattle, Washington

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Faculty Positions Held (Continued):

Adjunct Associate Professor, Department of Epidemiology School of Public Health, University of Washington	7/00–10/00
Visiting Scientist, National Center for Chronic Disease Prevention and Health Promotion, CDC, Atlanta, Georgia	2/98 - 10/98
Associate Director, Residency Program Department of Medicine, University of Washington	7/88 - 11/94
Assistant Professor, Department of Medicine Division of General Internal Medicine, University of Washington	6/88 - 6/94
Acting Assistant Professor, Department of Medicine Division of General Internal Medicine, University of Washington	10/85 - 6/88
Co-Director, Primary Care Internist Pathway Department of Medicine, University of Washington	1/85 - 7/88
Clinical Assistant Professor, Department of Medicine Division of General Internal Medicine, University of Washington	7/83 - 9/85
Research Associate, Department of Pediatrics Division of Genetics, University of Washington	11/74 - 9/75

Hospital Positions Held:

University of Washington:

Director, Women's Health Care Center	9/94 – 4/99
Director, Neurofibromatosis Clinic	10/89 - 10/94
Co-Director, Adult Cystic Fibrosis Clinic	9/88 - 6/93

Pacific Medical Center, Seattle, WA:

Director of Medical Education	2/86 - 4/88
Staff Internist	2/82 - 4/88
Chief, Adult Medicine Clinic	7/83 - 6/85

Harborview Medical Center, Seattle, WA

Attending Physician, Adult Medicine Clinic	7/81 - 6/82
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Honors:

Undergraduate:	Graduated summa cum laude (1970) Phi Beta Kappa Sigma Xi, Sigma Xi Award for Undergraduate Research (1970)
Graduate:	National Science Foundation Graduate Fellowship (1970 - 1973) Graduate Student Award, Northwest Branch of the American Society of Microbiology (1974)
Medical School:	Graduated with Honors (1978) Alpha Omega Alpha (1978) Robert S. Evans Award (1978)

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Fellow, American College of Physicians (1994)

Career Development Opportunity in Genetics and Disease Prevention, at Centers for Disease Control and Prevention (CDC), Association of Teachers of Preventive Medicine (1998)

International Fellow, National Health Service, Public Health Genetics Unit, Cambridge UK (2006)

President, American Society of Human Genetics (2007)

Member, Association of American Physicians (2007)

Member, National Academy of Medicine (formerly Institute of Medicine) (2007)

President's Professor, University of Alaska, Fairbanks, Center for Alaska Native Health Research (2007-present)

Presidential Chair, University of California, San Francisco (2013-2014)

Board Certification:

American Board of Internal Medicine, 9/81

Licensure to Practice Medicine:

Washington, 7/79

Organizations:

American College of Physicians

American Public Health Association

American Society of Human Genetics

Board of Directors, 2002-2004, 2006-2009

Member Social Issues Committee, 2004-2006

President, 2007

National Society of Genetic Counselors (Associate)

King County Medical Society

Editorial Responsibilities

Associate Editor, *Community Genetics*, 1998-2007

Editorial Board, *American Journal of Bioethics*, 2005-2009

Scientific Editor, *Public Health Genomics*, 2007- 2012

Editor for Public Health, Epidemiology and Personalized Medicine, *Genetics in Medicine*, 2016-present

Special National Responsibilities:

PDQ Cancer Genetics Board, National Cancer Institute, 1998-2003

Founding Editor-in-Chief, 1998-2001

Co-Editor-in-Chief, 2001-2003

Member, NIH Advisory Council for Human Genome Research, 1999-2003

Member, HHS Secretary's Advisory Committee on Genetic Testing, 1999-2002

Member, Ethics Advisory Board, Stem Cell Institute, University of Minnesota, 2001- 2002

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Member, Scientific Advisory Board, Marshfield Clinic Personalized Medicine Research Program, Marshfield Medical Research and Education Foundation, Marshfield, IL, Jan-Sept 2002
Chair, Ethical, Legal and Social Implications Research Advisors Working Group (ERA), National Center for Human Genome Research, 2001-2004
Member, External Scientific Committee (ESC), The Cancer Genome Atlas Project, 2005-2008
Chair, Subgroup on Ethics, Law, and Policy, 2005-2008
Chair, Working Group of the Advisory Committee to the Director, National Institutes of Health (ACD WG) for Participant and Data Protection, 2007- 2009
Member, Data Safety Monitoring Board, National Lung Screening Trial, National Cancer Institute, 2005-2010
Chair, Institute of Medicine Roundtable on Translating Genomic-Based Research for Health, 2007-2012; Co-Chair 2012-2013
Member, The Genomic Applications in Practice and Prevention Network (GAPPNet) Planning Group, 2008-2012
Chair, International Working Group, Center for Research on Genomics and Global Health, National Human Genome Research Institute, 2008-2012
Chair, Clinical, Genetic and Research Studies Study Section, National Institutes of Health, 2011-2013 (Member, 2010-2013)
Member, National Academy of Medicine Board on Health Sciences Policy, 2011-present

Grant Funding

a) Active research support

NHGRI P50 HG 3374 Burke (PI) 5/14/2010 – 3/31/2015 (NCE through 3/31/2017)
Center for Genomics and Healthcare Equality

This Center of Excellence in Ethical, Legal, and Social Implications (ELSI) Research has led efforts to explore the clinical utility and cost-effectiveness of genomic information and its implications for medically underserved populations; has established partnerships with regional tribal organizations; and has utilized qualitative and quantitative methods to identify participant, researcher and IRB professionals' views on research ethics questions. The Center will close in 2016 due to NHGRI policy limiting Center funding to 2 cycles. Role: PI

NIH/NCI/NHGRI U01 HG006507 Jarvik (PI) 12/5/2011 – 11/30/2015 (NCE through 3/31/2017)
Clinical sequencing in cancer: Clinical, ethical, and technological studies

This research study investigates the clinical, technical, informatics, and bioethical components of clinical exome testing, in a randomized controlled trial of exome testing vs. usual care in patients indicated for colorectal cancer/polyposis (CRC) genetic testing. Important components of our work are determination of which results to return; how best to incorporate these into the medical record; and the ethical, legal and regulatory issues arising in this translational effort. Role: Co-Investigator

NIH/NHGRI 1 U01 HG 007307 Jarvik (PI) 04/01/2013 – 03/31/2017
CSER RoRC Centralized Support Coordinating Center

This Center provides leadership and integrative, organizational and logistical support and facilitation of all activities necessary for the successful completion of the goals of the Clinical Sequencing Explorator Research (CSER) and Return of Results (RoR) Consortia, subcommittees, and working groups. Role: Multiple PI, focusing on ethical, legal and social implications (ELSI) components of the consortium.

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DHHS/Indian Health Service U26 1 IHS0079-01-00 Dillard (PI) 09/15/2013 – 09/14/2018
Southcentral Foundation (SCF) Research Center for Alaska Native Health (2013 NARCH 7)
This Native American Research Center for Health (NARCH) addresses the role of pharmacogenetics in interventions to promote tobacco cessation and sobriety in the Alaska Native and American Indian Community. Role: Co-Investigator and Subcontract PI.

Greenwall Foundation Burke (PI) 7/1/2015 - 6/30/2017
Advancing the Concept of Patient Self-Management
This project utilizes discourse tracing, key informant interviews and normative analysis to identify and evaluate the implications of different concepts of patient self-management. Role: PI.

NHGRI 1R21HG008513 (Shirts) 09/2015 – 06/2017
Developing and Evaluating Patient Centered Tools for Clinical Classification of Variants of Uncertain Significance
This project will evaluate and improve online patient-driven VUS classification resources that teach individuals to better understand their VUS, use available genealogy and networking resources trace how their own variants segregate in their extended family, and potentially participate with clinical experts in the classification of their own VUS. This project will build understanding of the ethical, social, and family issues surrounding family studies as way to characterize rare genetic variants in clinical settings. Role: Co-Investigator

NIH/NHLBI Hershberger (PI) 7/1/2015 – 6/30/2020
Precision Medicine for Dilated Cardiomyopathy in European and African Ancestry
This study conducts family-based cardiovascular phenotyping of 1200 probands with DCM and their family members, balanced between European and African ancestry (EA, AA), to describe the frequency of familial DCM in each group, identify the genetic cause of DCM in EA and AA probands, and evaluate the impact of an intervention to aid family communication on screening rates of at-risk individuals. Role: Co-Investigator

NIH/NHGRI 1R01HG007879-01A1 Mielcarek/Burke (Dual PI) 9/1/2015 – 6/30/2018
Community-Based Evaluation of APOL1 Genetic Testing in African Americans
The goal of this project is to identify community preferences for Apolipoprotein L1 (APOL1) testing and disclosure of risk genotypes to African Americans who may be at risk of developing endstage renal disease (ESRD), using public deliberation in three African American communities. Role: Dual PI

NIGMS 1P01GM116691 Thummel/Burke (Dual PI) 8/1/2016 – 7/31/2021
Program on Genetic and Dietary Predictors of Drug Response in Rural and AI/AN Populations
This Program Project proposal involves a continued collaboration with American Indian and Alaska Native (AI/AN) populations of the Northwest and Alaska to evaluate genetic, dietary and other environmental exposures that may modify the coagulation pathway and platelet function. The overall Program goals are to: 1) to advance our understanding of how genetic and environmental factors affect anti-coagulation and anti-platelet pharmacological responses, and 2) to more broadly improve the national environment for genomic research with AI/AN populations. Role: Dual PI

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b) Completed research support (last 3 years)

NIGMS U01 GM092676 Thummel/Burke (Dual PIs) 7/1/2010 – 6/30/2015 (NCE through 6/30/2016)

Pharmacogenetics in Rural and Underserved Populations

This grant enabled the creation of the Northwest-Alaska Pharmacogenomics Research Network, a collaboration involving three universities (the Universities of Washington, Alaska Fairbanks, and Montana) and three tribal organizations (the Yukon-Kuskokwim Health Corporation, Southcentral Foundation, and the Salish-Kootenai Federated tribes) working in partnership to pursue pharmacogenomics research. Role: Dual PI.

NIH/NHGRI 1 R01 HG005221 Boyer/Burke (Dual PIs) 09/30/2010 – 07/31/2013

Ethics of dissemination: Communicating with participants about genetic research

The project involved a collaboration between university-based investigators, Yup'ik community members, and bi-cultural liaisons to address how genetic and genomic research results should be communicated in the setting of an on-going study based on a partnership between the Center for Alaska Native Health Research (CANHR) at the University of Alaska, Fairbanks and the Yukon-Kuskokwim Health Corporation (YKHC). Data collection included focus groups in western Alaska and in a comparison urban HMO. Role: Dual PI

Bibliography

a) Peer-Reviewed Publications of Original Work

1. Burke W, Fangman WL: Temporal order in yeast chromosome replication. *Cell* 1975;5:263-69.
2. Burke W: Age of onset in Huntington's Disease: Lack of parental age effect. *J Med Genet* 1976;13:462-65. [PMC1013471]
3. Burke WG, Chen S-H, Scott CR and Amman AJ: Incorporation of purine nucleosides in cultured fibroblasts from a patient with purine nucleoside phosphorylase deficiency and associated T-Cell immunodeficiency. *J Cell Physiol* 1977;92:109-114.
4. Lipkin M, Levinson W, Barker R, Kern D, Burke W, Noble J, Wartman S, Delbanco TL. Primary Care Internal Medicine: A challenging choice for the 1990s. *Ann Intern Med* 1990;112: 371-78.
5. Spach DH, Bauwens JE, Clark CD, Burke WG. Rhabdomyolysis associated with lovastatin and erythromycin. *West J Med* 1991;154:213-15. [PMC1002725]
6. Aitken ML, Burke W, McDonald G, Shak S, Montgomery AB, Smith A. Recombinant human DNase inhalation in normal and cystic fibrosis subjects: A phase 1 study. *JAMA* 1992;267:1947-51.
7. Burke W, Inui TS. Do we still need primary care tracks? *Ann Intern Med* 1992;116:1065-70.
8. Burke W, Aitken ML, Chen SH, Scott CR. Variable severity of pulmonary disease in adults with identical cystic fibrosis mutations. *Chest* 1992;102:506-9.
9. Kayes LM, Riccardi VM, Burke W, Bennett RL, Stephens K. Large de novo DNA deletion in a patient with sporadic neurofibromatosis 1, mental retardation, and dysmorphism. *J Med Genet* 1992;29:686-90. [PMC1016123]
10. Aitken ML, Burke W, McDonald G, Wallis C, Ramsey B, Nolan C. Nontuberculous mycobacterial disease in adult cystic fibrosis patients. *Chest* 1993;103:1096-99.
11. Ramsey BW, Astley SJ, Aitken ML, Burke W, Colin AA, Dorkin HL, Eisenberg JD, Gibson RL, Harwood IR, Scidlow DV, Wilmott RW, Wohl ME, Meyerson LJ, Shak S, Fuchs H,

- Smith AL. Efficacy and safety of aerosolized recombinant human deoxyribose nuclease in patients with cystic fibrosis (CF). *Ann Rev Resp Dis* 1993;148: 45-51.
12. Kayes LM, Burke W, Riccardi VM, Bennett R, Ehrlich P, Rubenstein A, Stephens K. Deletions spanning the neurofibromatosis I gene: Identification and phenotype of five patients. *Am J Hum Genet* 1994;54:424-36. [PMC1918114]
 13. Burke W, Baron R, Lemon M, Novack A, Losh D. Training generalist physicians: Structural elements of the curriculum. *J Gen Intern Med* 1994;9 (Suppl 1):S23-S30.
 14. Burke W, Wallace JF, Ramsey PG. A fourth year of ambulatory training: The University of Washington experience. *Am J Med* 1994;96:463-68.
 15. Burke W, Aitken ML. The aging cystic fibrosis patient: Presentations and problems. *Semin Resp Crit Care Med* 1994;15:383-90.
 16. Greene KE, Takasugi, JE, Godwin JD, Richardson ML, Burke W, Aitken ML. Radiographic changes in acute exacerbations of cystic fibrosis in adults: A pilot study. *Amer J Radiol.* 1994;163:557-62.
 17. Evans JP, Burke W, Chen R, Bennett RL, Schmidt RA, Dellinger EP, Kimmey M, Crispin D, Brentnall T, Byrd DR. Familial pancreatic adenocarcinoma: Association with diabetes and early molecular diagnosis. *J Med Genet* 1995;32:330-5. PMID: 1050425
 18. Wipf JE, Pinsky LE, Burke W. Turning interns into senior residents: Preparing residents for their teaching and leadership roles. *Acad Medicine* 1995;70:591-96.
 19. Jonsen A, Durfy S, Burke W, Motulsky AG. Advent of the 'unpatients.' *Nature Genetics* 1996;2:622-624
 20. Becker J, Burke W, McDonald G, Greenberger PA, Henderson WR, Aitken ML. Prevalence of allergic bronchopulmonary aspergillosis and atopy in adult patients with cystic fibrosis. *Chest* 1996;109:1436-40.
 21. Press N, Burke W, Durfy SJ. How are Jewish women different from all other women: An anthropologic perspective on genetic susceptibility testing in Ashkenazi Jewish women. *Health Matrix: Journal of Law-Medicine* 1997;7:135-162.
 22. Curtis JR, Burke W, Kassner AW, Aitken ML. Absence of health insurance is associated with decreased life expectancy in patients with cystic fibrosis. *Am J Respir Crit Care Med* 1997;155:1921-1924.
 23. Burke W, Press N, Pinsky L. Breast carcinoma genetics from a primary care perspective. *Cancer* 1997; 80 (Suppl): 621-626.
 24. Cassel C, Blank L, Braunstein G, Burke W, Fryhofer SA, Pinn V, Ricks P, Savard M, Toskes P. What internists need to know: core competencies in women's health. *Am J Med* 1997; 102: 508-512.
 25. Aitken LM, Martinez S, McDonald GJ, Seifert CC, Burke W. Sensation of smell does not determine nutritional status in patients with cystic fibrosis. *Pediatr Pulmon* 1997;24:52-6.
 26. Durfy SJ, Buchanan TE, Burke W. Testing for inherited susceptibility to breast cancer: a survey of informed consent forms for BRCA1 and BRCA2 mutation testing. *Am J Med Genet* 1998; 75: 82-7.
 27. DeWitt DE, Curtis JR, Burke W. Further along the road: What influences career choices among graduates of a primary care training program. *J Gen Intern Med* 1998; 13: 257-261. [PMC1496946]
 28. Burke W, Press N, McDonnell SM. Hemochromatosis: genetics helps to define a multifactorial disease. *Clin Genet* 1998; 54: 1-9.
 29. Welch HG, Burke W. Uncertainties in genetic testing for chronic disease. *JAMA* 1998; 280: 1525-1527.
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 31. Cogswell ME, Burke W, McDonnell SM, Franks AL. Screening for hemochromatosis: a public health perspective. *Am J Prev Med* 1999; 16: 134-140.

32. Eisinger F, Geller, G, Burke W, Holtzman NA. Cultural basis for differences between American and French clinical recommendations for women at increased risk of breast/ovarian cancer. *Lancet* 1999; 353: 919-920.
33. Durfy S, Bowen D, McTiernan A, Sporleder J, Burke W. Attitudes and interest in genetic testing for breast and ovarian cancer susceptibility in diverse groups of western Washington state women. *Cancer Epidemiol Biomarkers Prev* 1999; 8: 369-75.
34. Bowen D, McTiernan A, Burke W, Powers D, Pruski J, Durfy S, Galow J, Malone K. Participation in breast cancer risk counseling among women with a family history. *Cancer Epidemiol Biomarkers Prev* 1999; 8: 581-585.
35. Phelan EA, Burke W, Deyo RA, Koepsall TD, LaCroix A. Delivery of primary care to women: do women's health centers do it better? *J Gen Intern Med* 2000; 15: 8-15. [PMC1495323]
36. Burke W, Culver JB, Bowen D, Lowry D, Durfy S, McTiernan A, Anderson R. Genetic counseling for women with an intermediate family history of breast cancer. *Am J Med Genet* 2000; 90: 361-368
37. Press N, Burke W. If you care about women's health, perhaps you should care about the psychosocial risks of direct marketing of tamoxifen to consumers. *Eff Clin Pract* 2000; 3: 98-103.
38. Burke W, Beeker C, Kraft J, Pinsky L. Engaging women's interest in colorectal cancer screening: a public health strategy. *J Womens Health Gend Based Med* 2000; 9: 363-371.
39. Khoury MJ, Thrasher JF, Burke W, Gettig EA, Fridinger F, Jackson R. Challenges in communication about genetics: a public health approach. *Genet Med* 2000; 2: 198-201.
40. Burke W, Imperatore G, McDonnell SM, Baron RC, Khoury MJ. Contribution of different HFE genotypes to iron overload disease: a pooled analysis. *Genet Med* 2000; 2: 271-277.
41. Press N, Yasui Y, Reynolds S, Durfy SJ, Burke W. Women's interest in genetic testing for breast cancer may be based on unrealistic expectations. *Am J Med Genet* 2001; 99: 99-110.
42. DeWitt DE, Robins LS, Curtis JR, Burke W. Primary care residency graduates reported training needs. *Acad Med* 2001; 76: 285.
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44. Burke W, Olsen AH, Pinsky LE, Reynolds SE, Press N. Misleading presentation of breast cancer in popular magazines. *Eff Clin Pract* 2001; 4:58-64.
45. Evans JP, Skrzynia C, Burke W. The complexities of predictive genetic testing. *BMJ* 2001; 322: 1052-6. PMID: PMC1120190
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47. Culver JO, Burke W, Yasui Y, Durfy SJ, Press N. Participation in breast cancer genetic counseling: the influence of educational level, ethnic background, and risk perception. *J Genet Counseling* 2001; 10: 215-231.
48. Burke W, Pinsky L, Press N. Categorizing genetic tests to identify their ethical, legal and social implications. *Am J Med Genet (Semin Med Genet)* 2001; 106:233-240.
49. Yoon PW, Chen B, Faucett A, Clyne M, Gwinn M, Lubin IM, Burke W, Khoury MJ. Public health impact of genetic tests at the end of the 20th century. *Genet Med* 2001; 3: 405-410.
50. Burke W, Coughlin SS, Lee NC, Weed DL, Khoury MJ. Application of population screening principles to genetic screening for adult-onset conditions. *Genet Test* 2001; 5: 201-211.

51. Hall IJ, Burke W, Coughlin S, Lee NC. Population-based estimates of the prevalence of family history of cancer among women. *Commun Genet* 2001; 4:134-42.
52. Saraiya M, Coughlin SS, Burke W, Elon LK, Frank E. The role of family history in personal prevention practices among US women physicians. *Commun Genet* 2001; 4: 102-108.
53. Burke W, Acheson L, Botkin J, Bridges K, Davis A, Evans J, Frias J, Hanson J, Kahn N, Kahn R, Lanier D, Pinsky LE, Press N, Lloyd-Puryear MA, Rich E, Stevens N, Thomson E, Wartman S, Wilson M. Genetics in primary care: a USA faculty development initiative. *Commun Genet* 2002; 5:138-146.
54. Brown DW, Giles WH, Burke W, Greenlund KJ, Croft JB. Familial aggregation of early-onset myocardial infarction. *Commun Genet* 2002; 5: 232-238.
55. Bowen DJ, Burke W, Yasui Y, McTiernan A, McLeran D. Effects of risk counseling on interest in breast cancer testing for lower risk women. *Genet Med* 2002; 4: 359-65.
56. Bowen DJ, Ludman E, Press N, Vu T, Burke W. Achieving utility with family history: colorectal cancer as an example. *Am J Prev Health* 2003; 24:177-182.
57. Burke W, Fesinmeyer M, Reed K, Hampson L, Carlsten C. Family history as a predictor of asthma risk. *Am J Prev Health* 2003; 24: 160-169.
58. Bowen DJ, Singal R, Eng E, Crystal S, Burke W. Jewish identity and intentions to obtain breast cancer screening. *Cultur Divers Ethnic Minor Psychol* 2003; 9: 79-87.
59. Haga S, Khoury M, Burke W. Genomic profiling to promote a healthy lifestyle: not ready for prime time. *Nature Genet* 2003; 34: 347-350.
60. Ramsey SD, Burke W, Clarke L. An economic viewpoint on alternative strategies for identifying persons with hereditary nonpolyposis colorectal cancer. *Genet Med* 2003; 5:353-363. PMID: PMC2692576
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67. Press N, Reynolds S, Pinsky L, Murthy V, Leo M, Burke W. 'That's like chopping off a finger because you're afraid it might get broken': disease and illness in women's views of prophylactic mastectomy. *Soc Sci Med* 2005; 61:1106-1117.
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79. Burke W, Kroese M, Zimmern R. Defining purpose: a key step in genetic test evaluation. *Genet Med* 2007;9: 675-81.
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b) Consensus Statements and Clinical Practice Guidelines

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c) Invited Editorials, Reviews and Commentaries

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