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A. GENERAL INFORMATION

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B. EDUCATIONAL BACKGROUND

Degree	Institution	Dates Attended	Year awarded
BA	University of Cambridge, UK	1986 – 1989	1989
D.Phil. (doctorate)	University of Oxford, UK	1996 – 1999	1999

C. PROFESSIONAL POSITIONS AND EMPLOYMENT

Post-doctoral training (include residency/fellowships)

Not applicable

Academic positions (teaching and research)

11/18/99-11/17/06	Assistant Attending Research Methodologist Memorial Hospital for Cancer and Allied Diseases Department of Medicine, Department of Epidemiology and Biostatistics New York, NY
01/01/04-10/31/07	Assistant Professor of Public Health Department of Public Health Weill Cornell Medical College
11/01/07 - present	Associate Professor of Public Health Department of Public Health Weill Cornell Medical College
11/18/06-present	Associate Attending Research Methodologist Memorial Hospital for Cancer and Allied Diseases Department of Epidemiology and Biostatistics

Hospital positions (e.g., attending physician)

11/18/99-11/17/06	Assistant Member Memorial Hospital for Cancer and Allied Diseases Department of Medicine, Department of Epidemiology and Biostatistics
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Lecturer, preceptor: Statistics course for WMC medical undergraduates, 2000-Present

Clinical care (duties, dates)

Not applicable

Administrative duties, including committees, dates

Psycho-Oncology Work-in-Progress Research Colloquia, 2004-2006
 Pain and Psychosocial Task Force, 2002-2003
 Molecular Pathology Clinical Testing Advisory Group 2007 +

Research

Biostatistician and research methodologist for numerous clinical trials and cohort studies in the Departments of Medicine, Surgery and Pediatrics as well as original methodological research for the Department of Biostatistics and Epidemiology, 1999 – present.

	Current Effort	WMC students or researchers?	MSKCC students or researchers?
Teaching / Mentoring	15%	Yes	Yes
Clinical Care	N/A		
Administration	5%		Yes
Research	80%		Yes

J. RESEARCH SUPPORT

CURRENT

NIH-5-K30-NL04160 (Bajorin) 07/01/05 - 06/30/10
 NIH
 MSKCC Clinical Research Methodology Curriculum
 Role: Course Leader of Biostatistics Course. Effort: 10%

NIH-5-K30-NL04152 (Imperato-McGinley) 07/01/05 - 06/30/10
 NIH Consortium funding
 Cornell Clinical Research Methodology Curriculum
 Role: Course Leader of Biostatistics Course. Effort: 5%

P50 AT002779 (Cassileth) 04/05/05 - 03/31/10
 NIH
 MSKCC Research Center for Botanical Immunomodulators
 Role: Biostatistician. Effort: 10%

CURRICULUM VITAE

Andrew J. Vickers, Ph.D.

Prostate SPORE (Scardino) 09/01/06 - 08/31/11
NIH
Biostatistics core
Role: Biostatistician. Effort: 15%

T32 CA082088 (Scardino) 03/01/09 - 02/28/10
NIH
Urologic Oncology Research Training Grant
Role: Preceptor. Effort: No salary support

R21 (Deng) 01/01/07 - 12/31/09
NCI
Randomized Phase II trial of acupuncture for post-operative ileus
Role: Biostatistician. Effort: 5%

U24 (Tempst) 01/01/07 - 12/31/09
NCI
Proteomics development grant
Role: Biostatistician. Effort: 6%

T32 (Cassileth) 07/01/07 - 6/31/12
NIH
Integrative Oncology Research Training Program
Role: Teaching in trial design and analysis. Effort: none paid

R21 (Vickers) 01/01/08 - 12/31/10
NCCAM
Acupuncture Trialists' Collaboration: meta-analyses of chronic pain trials
Role: PI. Effort: 15%

PENDING
R21 (Vickers) 07/01/08 - 06/30/09
NCI
Clinically integrated trial of modifications to radical prostatectomy
Role: PI. Effort: 15%

COMPLETED

R21 (Cassileth) 01/01/07 - 12/31/08
NCI
Randomized Phase II trial of acupuncture for post-thoracotomy pain
Role: Biostatistician. Effort: 5%

CURRICULUM VITAE

Andrew J. Vickers, Ph.D.

R33 CA118845 (Cheung) National Cancer Institute A novel set of molecular markers to measure metastatic neuroblastoma Role: Biostatistician. Effort: 5%	4/1/06 - 3/31/11
R01 FD003089-01131-1 (Kramer) FDA Phase I trial of 3F8 in Leptomeningeal Cancers Role: Biostatistician. Effort: 5%	2/15/06-2/14/09
R21 CA117076 (Kramer) NIH Treating CNS Malignancies with 131-I-8H9 Role: Biostatistician. Effort: 5%	8/01/05-7/31/07
Experimental Therapeutics Committee (Kushner) MSKCC Tetravalent vaccine for neuroblastoma Role: Biostatistician. Effort: 5%	8/01/06-7/31/07
P01 (Petrek, MSKCC PI: Cordon-Cardo) NCI Role and Regulation of p53 Role: Biostatistician. Effort: 10%	4/1/06 – 3/31/11
Concept award (Schwartz) Department of Defense Phase I and II trials of a huanglian, a botanical, with or without Taxol, in breast cancer Role: Biostatistician. Effort: 5%	07/01/02 - 06/30/05
R21 CA103169 NIH: NCI/ NCCAM Methodology of Phase I and II trials of anticancer CAM Role: Principal Investigator. Effort: 25%	07/01/03 - 06/30/05 irect per year
R21 CA098565 (Cassileth) NIH: NCI Pilot randomized trial of acupuncture for hot flashes in cancer patients Role: Biostatistician. Effort: 5%	01/01/03 - 12/31/04
R21 CA98792-01 (Pfister) NIH: NCI Pilot randomized trial of acupuncture for shoulder pain after neck dissection Role: Biostatistician. Effort: 5%	01/01/03 - 12/31/04

CURRICULUM VITAE

Andrew J. Vickers, Ph.D.

- R21 CA96321-01 (Cheung) 07/01/02 - 06/30/04
NIH: NCI
Phase I study of oral β -glucan and intravenous anti-GD2 monoclonal antibody 3F8 among patients with metastatic neuroblastoma
Role: Biostatistician. Effort: 10%
- NIH-5-K30-NL04160 (Bajorin) 07/01/99 - 06/30/04
NIH
MSKCC Clinical Research Methodology Curriculum
Role: Course Leader of Biostatistics Course. Effort: 20%
- R21 AT 01030-01 (O'Reilly) 10/01/01 - 09/30/03
NIH: NCI/ NCCAM
Acupuncture treatment of chronic pain in pancreatic cancer
Role: Biostatistician. Effort: 5%
- R21 AT 01030-01 (Cassileth) 10/01/01 - 09/30/03
NIH: NCI/ NCCAM
Massage for treatment of pain in advanced cancer
Role: Biostatistician. Effort: 5%
- R21 AT 01030-01 (Feinstein) 10/01/01 - 09/30/03
NIH: NCI/ NCCAM
Acupuncture for shortness of breath in cancer patients
Role: Biostatistician. Effort: 5%
- Concept award (Cassileth) 03/01/01 - 02/29/04
Department of Defense
D-Fraction Maitake for Breast Cancer: Preliminary research to determine viability for eventual Phase III Trials
Role: Biostatistician. Effort: 10%
- Prostate SPORE (Scardino) 09/01/05 - 08/31/06
NIH
Role: Biostatistician. Effort: 20%

K. EXTRAMURAL PROFESSIONAL RESPONSIBILITIES

Positions

- 2007 + Editorial Board of *PLoS ONE*, *BMC Research Notes*; Associate Editor for *Trials*
2007 NIH study section: NCI Special Emphasis Panel: cancer education
2005 + Editorial Board for *Journal of the Society for Integrative Oncology*
2004 NIH study section: NCI Special Emphasis Panel: Phase I trials of botanicals and supplements
2004 NIH study section: NCI Special Emphasis Panel: cancer training programs

- 2004+ Editorial Advisory Board: Complementary and Alternative Medicine PDQ (National Cancer Institute)
- 2002+ Associate editor of *CA: a Cancer Journal for Clinicians*
- 2002+ NIH study section: NCCAM Special Emphasis Panel: Cancer
- 2001- 3 Expert panel on complementary and alternative medicine research methodology: symptom control. National Cancer Institute.
- 2001+ Editorial Board for *Biomed Central Cancer*, *Biomed Central Medical Research Methodology*, *Biomed Central Complementary and Alternative Medicine*
- 1997 - 99 Editor of *Complementary Therapies in Medicine*.
- 1995-9 Randomized trials search co-ordinator for Complementary Medicine field of the Cochrane Collaboration
- 1995+ Editorial board of *Complementary Therapies in Medicine*

Peer reviews

Biomed Central; British Journal of General Practice; British Medical Journal; Canadian Medical Association Journal; Cancer; Cancer Investigation; Cancer Treatment Reports; Clinical Trials; Cochrane Collaboration; Complementary Therapies in Medicine; Health Psychology; European Journal of Epidemiology; Family Practice; FASEB Journal; Health Psychology; International Journal of Behavioral Medicine; Journal of Pain and Symptom Management; Journal of Clinical Epidemiology; Journal of Clinical Oncology; Journal of the American Medical Association; Journal of the Society for Integrative Oncology; Lancet; Lancet Neurology; Medical Decision Making; Nature Cancer; New England Journal of Medicine; NCI PDQ; Pediatrics; Psycho-oncology; Public Library of Science; Social Science in Medicine; Statistics in Medicine

Key Invited External Lectures

- July 2009 Evaluating molecular markers for cancer. Cancer Epidemiology Group, King's College, London, UK.
- June 2009 Should prostate cancer screening be risk stratified? St Thomas's Hospital, London, UK
- March 2009 Decision curve analysis. International Biometric Society, ENAR.
- February 2009 New prognostic markers: pitfalls in the path from research to clinical practice. Plenary session of American Society of Clinical Oncology Genitourinary Meeting.
- October 2008 Kallikreins to predict prostate cancer. P Mark, Turku, Finland
- September 2008 Decision curve analysis. Cleveland Clinic, Cleveland, OH
- September 2008 Prediction and prostate cancer. US TOO prostate cancer support group, New York, NY
- August 2008 Should PSA screening be risk stratified? National Prostate Cancer Symposium, Melbourne, Australia
- August 2008 PSA velocity. National Prostate Cancer Symposium, Melbourne, Australia
- August 2008 Experience Counts – The effect of surgical experience on outcome of radical prostatectomy. National Prostate Cancer Symposium, Melbourne, Australia
- May 2008 Clinical utility of PSA velocity and PSA dynamics in localized prostate cancer, American Urologic Association Plenary Presentation, Orlando, FL

- May 2008 Clinical trials, data sharing and supplemental materials. Society for Scholarly Publishing, Boston, MA
- February 2008 The surgical learning curve: radical prostatectomy as a model. University Health Network, Toronto, Canada
- December 2007 The surgical learning curve: radical prostatectomy as a model. University of California San Francisco
- December 2007 Decision curve analysis. University of California San Francisco
- November 2007 Acupuncture in the care of the cancer patient. Society for Acupuncture Research, Baltimore, MD
- September 2007 The surgical learning curve: radical prostatectomy as a model. Southern Illinois University, Springfield.
- June 2007 Improving clinical trial design. The Center for Biomedical Continuing Education, Los Angeles.
- March 2007 Prediction and prostate cancer. Malecare, New York
- December 2006 A learning curve for radical prostatectomy. Society for Urologic Oncology, Bethesda.
- November 2006 How to write a grant in complementary and alternative medicine. National Cancer Institute.
- October 2006 Experience counts: the surgeon as a variable in cancer control. Clinical Society of Genitourinary Surgeons, New York
- March 2006 Integrative Oncology. CAM Expo East, New York
- November 2005 Methodology of Integrative Oncology Research. Society for Integrative Oncology annual meeting, San Diego
- September 2005 Complementary and alternative medicine for cancer. Breast Examination Center of Harlem, New York
- August 2005 Clinical trial design for research in cancer symptom control. Symptom Management, Palliative Care and Survivorship Program, University of California, San Francisco
- August 2005 Methodology of integrative medicine research. Osher Center for Integrative Medicine, University of California, San Francisco
- June 2005 Methodology for Phase I and II trials of novel therapies. Hematology and Oncology Pharmacists Association, San Diego
- June 2005 How to write a grant in complementary and alternative medicine. National Cancer Institute.
- May 2005 Open Access: a researcher's view. Medical Librarians Association, San Antonio
- November 2004 Research methodology for acupuncture research. Society for Integrative Oncology annual meeting, New York.
- November 2004 Grand rounds: Integrative Oncology. Johns Hopkins CAM Center, Baltimore.
- November 2004 Should we ban paper journals? Weill Medical College of Cornell University.
- March 2004 Sharing of data: scientific, ethical and regulatory concerns. International Biometric Society, ENAR.
- February 2004 Complementary and alternative medicine. New York SHARE.
- December 2003 Lessons learned from a large randomized trial with a quality of life endpoint. Weill Medical College of Cornell University.
- October 2003 Integrative Oncology. British Medical Acupuncture Society, London, UK.

- September 2003 Complementary and Alternative Medicine. Adelphi New York Statewide Breast Cancer Hotline and Support Group, New York.
- July 2003 Statistical analysis of clinical trials with baseline assessment. Albert Einstein Healthcare, Philadelphia.
- June 2003 Integrative oncology. Beth Israel, New York.
- May 2003 A clinical trialist's approach to statistics: Why the rules don't matter. Weill Medical College of Cornell University
- May 2003 Complementary and Alternative Medicine. National Breast Cancer Coalition.
- March 2003 Development and funding of complementary and alternative medicine research. National Cancer Institute.
- March 2003 Complementary and alternative medicine for cancer. Columbia-Presbyterian Medical Center.
- October 2002 Complementary and alternative medicine: Emerging trends in adjuvant therapy of breast cancer. Baylor-Charles A. Sammons Cancer Center.
- May 2002 Controversial aspects of clinical trials. American Society of Hypertension.
- March 2002 Complementary and alternative medicine for cancer. Columbia-Presbyterian Medical Center.
- November 2001 Expert panel on complementary and alternative medicine research methodology. National Cancer Institute
- October 2001 Scientific lore versus folklore: alternative medicine. New School, New York
- November 2000 Botanical treatments for cancer: the possibilities and problems of polypharmacy. Weill Medical College of Cornell University
- October 2000 Alternative Medicine? Complementary Medicine? Integrative Medicine? Maurer Foundation for Breast Health Education
- May 2000 Methodology of Cancer Research. Center for Mind-Body Medicine
- September 1999 Complementary therapies on the National Health Service. Royal Society of Medicine.
- July 1999 Cross-cultural issues in medicine. Royal College of Physicians.
- May 1999 Centre for Evidence-Based Medicine, Oxford (poster presentation).
- April 1999 Evidence-based Traditional Chinese Medicine: Acupuncture. Chinese University of Hong Kong (telemedicine conference)
- February 1999 Integration of Complementary Therapies. Royal Free Hospital and University College London Ethics Group
- October 1998 Cochrane Colloquium (poster presentation).
- June 1998 Suitable Controls for use in Acupuncture Trials. Royal Marsden Hospital.
- June 1998 Evidence Base of Complementary Medicine. Association for Quality in Healthcare / Royal Society of Medicine.
- May 1998 Critical Appraisal. Oxford Spine Research Group.
- May 1998 Why Use Placebos in Clinical Trials?. Oxford University.
- February 1998 Practicalities of Research in Complementary Medicine. Oxford University.
- December 1997 Complementary Medicine Research. University of Bologna, Italy.
- June 1997 Evidence Base of Complementary Medicine. Society of Pharmaceutical Medicine.
- March 1997 Natural Therapies: Safe and Effective? Royal Pharmaceutical Society.
- January 1997 Science-Based Complementary Medicine. Royal College of Physicians.

CURRICULUM VITAE

Andrew J. Vickers, Ph.D.

- December 1996 Placebo and Nocebo Effects (panel member). Office of Alternative Medicine, National Institutes of Health, USA.
- November 1996 Multiple Sclerosis Society National Conference, Birmingham.
- November 1996 The Placebo Response. University of Westminster.
- June 1996 Complementary Medicine Research and Development Workshop. Royal College of Physicians of London.
- May 1996 Medicine for Managers: Complementary Medicine. Institute of Health Services Management, London.
- April 1996 Pain Society Annual Conference. Pain Society, London.
- February 1996 Commissioning Complementary Medicine. East London & City Health Authority.
- October 1995 Complementary Medicine - Academic Legitimacy (panel member). Middlesex University.
- May 1995 Evidence Based Purchasing. Oxford and Anglia RHA.
- April 1995 Research Methodology in Alternative and Complementary Medicine. Office of Alternative Medicine, National Institutes for Health, USA.
- October 1994 Complementary Medicine in the NHS. British Holistic Medical Association / Guy's Hospital/ University of Westminster.
- July 1994 Examining Research Assumptions in Alternative Medical Systems. Office of Alternative Medicine of the National Institutes of Health, USA.
- July 1994 National Staff Nurses Conference. Bath, UK.
- June 1994 Documentation as a Basis for Research in Integrated Medicine. Wiener Internationale Akademie für Ganzheitsmedizin, Austria.
- June 1994 Complementary Medicine Research. Research Council for Complementary Medicine/ Council of Europe, London, UK.
- April 1994 Acupuncture (panel member). Food and Drug Administration, USA.
- March 1994 Quality in Complementary Medicine. British Medical Association.

L. BIBLIOGRAPHY

Articles in peer-reviewed journals

1. O'Brien MF, Cronin AM, Fearn PA, Smith B, Stasi J, Guillonneau B, Scardino PT, Eastham JA, **Vickers AJ**, Lilja H. Pretreatment Prostate-Specific Antigen (PSA) Velocity and Doubling Time Are Associated With Outcome but Neither Improves Prediction of Outcome Beyond Pretreatment PSA Alone in Patients Treated With Radical Prostatectomy. *J Clin Oncol*. 2009 Jun 8. [Epub ahead of print]
2. **Vickers AJ**, Lilja H. Prostate cancer: Estimating the benefits of PSA screening. *Nat Rev Urol*. 2009 Jun;6(6):301-3.
3. **Vickers AJ**. Phase II designs for anticancer botanicals and supplements. *J Soc Integr Oncol*. 2009 Winter;7(1):35-40.
4. Cassileth BR, Rizvi N, Deng G, Yeung KS, **Vickers A**, Guillen S, Woo D, Coletton M, Kris MG. Safety and pharmacokinetic trial of docetaxel plus an Astragalus-based herbal formula for non-small cell lung cancer patients. *Cancer Chemother Pharmacol*. 2009 May 7. [Epub ahead of print]
5. **Vickers AJ**, Savage CJ, Hruza M, Tuerk I, Koenig P, Martínez-Piñeiro L, Janetschek G, Guillonneau B. The surgical learning curve for laparoscopic radical prostatectomy: a retrospective cohort study. *Lancet Oncol*. 2009 May;10(5):475-80.
6. Berglund RK, Stephenson AJ, Cronin AM, **Vickers AJ**, Eastham JA, Klein EA, Guillonneau BD. Comparison of observed biochemical recurrence-free survival in patients with low PSA values undergoing radical prostatectomy and predictions of preoperative nomogram. *Urology*. 2009 May;73(5):1098-103. Epub 2009 Mar 17.
7. **Vickers AJ**, Elkin EB, Peele PB, Dickler M, Siminoff LA. Long-Term Health Outcomes of a Decision Aid: Data from a Randomized Trial of Adjuvant! in Women with Localized Breast Cancer. *Med Decis Making*. 2009 Mar 6. [Epub ahead of print]
8. **Vickers AJ**, Scardino PT. The clinically-integrated randomized trial: proposed novel method for conducting large trials at low cost. *Trials*. 2009 Mar 5;10:14.
9. Deng G, Lin H, Seidman A, Fournier M, D'Andrea G, Wesa K, Yeung S, Cunningham-Rundles S, **Vickers AJ**, Cassileth B. A phase I/II trial of a polysaccharide extract from *Grifola frondosa* (Maitake mushroom) in breast cancer patients: immunological effects. *J Cancer Res Clin Oncol*. 2009 Mar 1. [Epub ahead of print]
10. Linde K, Allais G, Brinkhaus B, Manheimer E, **Vickers A**, White AR. Acupuncture for tension-type headache. *Cochrane Database Syst Rev*. 2009 Jan 21;(1):CD007587. .
11. Linde K, Allais G, Brinkhaus B, Manheimer E, **Vickers A**, White AR. Acupuncture for migraine prophylaxis. *Cochrane Database Syst Rev*. 2009 Jan 21;(1):CD001218..
12. Kattan MW, **Vickers AJ**, Yu C, Bianco FJ, Cronin AM, Eastham JA, Klein EA, Reuther AM, Edson Pontes J, Scardino PT. Preoperative and postoperative nomograms incorporating surgeon experience for clinically localized prostate cancer. *Cancer*. 2009 Mar 1;115(5):1005-10.
13. Thompson RH, Kaag M, **Vickers A**, Kundu S, Bernstein M, Lowrance W, Galvin D, Dalbagni G, Touijer K, Russo P. Contemporary use of partial nephrectomy at a tertiary care center in the United States. *J Urol*. 2009 Mar;181(3):993-7
14. **Vickers AJ**. Decision analysis for the evaluation of diagnostic tests, prediction models and molecular markers. *Am Stat*. 2008;62(4):314-320.

15. Deng G, Rusch V, **Vickers A**, Malhotra V, Ginex P, Downey R, Bains M, Park B, Rizk N, Flores R, Yeung S, Cassiletha B. Randomized controlled trial of a special acupuncture technique for pain after thoracotomy. *J Thorac Cardiovasc Surg.* 2008 Dec;136(6):1464-9.
16. Touijer K, Secin FP, Cronin AM, Katz D, Bianco F, Vora K, Reuter V, **Vickers AJ**, Guillonneau B. Oncologic Outcome after Laparoscopic Radical Prostatectomy: 10 Years of Experience. *European Urology* 2009. [Epub ahead of print]
17. **Vickers AJ**, Elkin EB, Steyerberg E. Net reclassification improvement and decision theory. *Statistics in Medicine.* 2009;28(3):525-526.
18. Wenske S, Korets R, Cronin AM, **Vickers AJ**, Fleisher M, Scher HI, Pettersson K, Guillonneau B, Scardino PT, Eastham JA, Lilja H. Evaluation of molecular forms of prostate-specific antigen and human kallikrein 2 in predicting biochemical failure after radical prostatectomy. *International Journal of Cancer.* 2009;124(3):659-663.
19. Secin FP, Bianco FJ, Cronin A, Eastham JA, Scardino PT, Guillonneau B, **Vickers AJ**, European Society of Urologic Oncology. Is it necessary to remove the seminal vesicles completely at radical prostatectomy? decision curve analysis of European Society of Urologic Oncology criteria. *Journal of Urology.* 2009;181(2):609-613.
20. Eggener SE, **Vickers AJ**, Serio AM, Donovan MJ, Khan FM, Bayer-Zubek V, Verbel D, Cordon-Cardo C, Reuter VE, Bianco FJ Jr, Scardino PT. Comparison of models to predict clinical failure after radical prostatectomy. *Cancer.* 2009;115(2):303-310.
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22. **Vickers AJ**, Savage C, O'Brien MF, Lilja H. Systematic Review of Pretreatment Prostate-Specific Antigen Velocity and Doubling Time as Predictors for Prostate Cancer. *Journal of Clinical Oncology* 2009;27(3):398-403.
23. **Vickers AJ**, Cronin AM, Elkin EB, Gonen M. Extensions to decision curve analysis, a novel method for evaluating diagnostic tests, prediction models and molecular markers. *BMC Medical Informatics and Decision Making* 2008;8:53.
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29. Ragupathi G, Yeung KS, Leung PC, Lee M, Lau CB, **Vickers A**, Hood C, Deng G, Cheung NK, Cassileth B, Livingston P. Evaluation of widely consumed botanicals as immunological adjuvants. *Vaccine.* 2008;26(37):4860-4865.

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32. **Vickers AJ**. Decision analysis for the evaluation of diagnostic tests, prediction models and molecular markers. *The American Statistician* 2008;62(4):314-320
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34. **Vickers AJ**. Do we want more cancer patients on clinical trials If so, what are the barriers to greater accrual? *Trials*. 2008;9:31
35. **Vickers AJ**. Basic introduction to research: how not to do research. *Journal of the Society of Integrative Oncology*. 2008;6(2):82-5
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