

CURRICULUM VITAE

IVO ABRAHAM

EDUCATION

- 1980 – 1984 THE UNIVERSITY OF MICHIGAN (Ann Arbor, MI, USA). Doctor of Philosophy (Ph.D.), Clinical Research.
- 1979 – 1982 THE UNIVERSITY OF MICHIGAN (Ann Arbor, MI, USA). Master of Science (M.S.), Psychiatric-Mental Health Nursing.
- 1976 – 1979 LEUVEN UNIVERSITY COLLEGE, ASSOCIATIE KATHOLIEKE UNIVERSITEIT LEUVEN (Leuven, Belgium). Bachelor in Verpleegkunde (B.S.N. equiv.) with specialization in psychiatric nursing.

EXECUTIVE EDUCATION

- 2011 VLERICK BUSINESS SCHOOL (Leuven & Gent, Belgium). Entrepreneurship and Innovation in the Life Sciences.
- 2001 – 2003 UNIVERSITÄT BASEL, European Center for Pharmaceutical Medicine (Basel, Switzerland). Pharmaceutical Medicine.

PROFESSIONAL EXPERIENCE

CURRENT

UNIVERSITY OF ARIZONA (TUCSON, AZ)

- 2008 – present Professor, College of Pharmacy, Department of Pharmacy Practice and Science.
- 2012 – present Professor, College of Medicine, Department of Family and Community Medicine.
- 2012 – present Director, Center for Health Outcomes and PharmacoEconomic Research (Investigator 2007-2012).
- 2011 – present Director, Postdoctoral Fellowship Program in Clinical Outcomes and Comparative Effectiveness Research.
- 2012 – present Director, Postdoctoral Fellowship Program in Clinical Research in Human Therapeutics.
- 2012 – present Scientific Member, Arizona Center on Aging.

UNIVERSITY OF VIRGINIA (CHARLOTTESVILLE, VA)

1998 – present Clinical Professor, School of Nursing (noncompensated).

PAST

2004 – 2009 UNIVERSITY OF ARIZONA (Tucson, AZ). Adjunct Clinical Professor (2004-2007) and Professor (2007-2009), College of Nursing.

2002 – 2008 UNIVERSITY OF PENNSYLVANIA (Philadelphia, PA). Adjunct Professor, School of Nursing (2002-2008); Visiting Professor (2003-2008); Faculty Associate, Center for Health Outcomes and Policy Research, School of Nursing (2003-2008); Faculty Associate, Hartford Center for Geriatric Nursing Excellence, School of Nursing (2003-2008); Adjunct Senior Fellow, Leonard Davis Institute of Health Economics, Wharton School of Business (2003-2008); Adjunct Senior Fellow, Institute on Aging, School of Medicine (2005-2008).

2007 UNIVERSITY OF HYOGO (Kobe, Japan). Visiting Researcher, College of Nursing Art and Science.

2005 – 2006 CHANG GUNG UNIVERSITY (Kwei-Shan Tao-Yuan, Taiwan). Visiting Professor, Department of Nursing, Faculty of Medicine.

2002 – 2005 NEW YORK UNIVERSITY (New York, NY). John A. Hartford Institute for Geriatric Nursing. Visiting Fellow (1995-2003); Adjunct Clinical Professor, College of Nursing (2002-2005).

1997 – 2003 THE EPSILON GROUP (Charlottesville, VA; Leuven, Belgium). Founder, President, & Chief Executive Officer.

1992 – 1999 KATHOLIEKE UNIVERSITEIT LEUVEN (Leuven, Belgium). Professor, Center for Health Services and Nursing Research, School of Public Health, Faculty of Medicine (part-time).

1989 – 1997 UNIVERSITY OF VIRGINIA (Charlottesville, VA). Associate Professor (with tenure) (1989-1992), Professor (with tenure) (1992-1997), School of Nursing; Associate Professor, Department of Psychiatric Medicine, School of Medicine (1989-1997); Founding Director, Center on Aging and Health (1991-1996); Founding Co-Director, NIMH P50 Southeastern Rural Mental Health Research Center (1992-1995); Center Associate (1991-1992) and Senior Scholar (1992-1997), Virginia Health Policy Research Center; Director of Research and Evaluation, Institute for Community Integration of the Long-Term Mentally Ill (1989-1992).

1993 – 1996 RIJKSUNIVERSITEIT GRONINGEN (Groningen, The Netherlands). Visiting Professor, Department of Public Health, Faculty of Medicine.

1990 – 1995 JEFFERSON AREA RURAL ELDER HEALTH CONSORTIUM (Charlottesville, VA). Founding Executive Director.

1991 UNIVERSITY OF FLORIDA (Gainesville, FL). Visiting Professor, College of Nursing.

1989 – 1993 UNIVERSITY OF VIRGINIA MEDICAL CENTER (Charlottesville, VA). Founding Co-Director, Geriatric Neuropsychiatry Clinic.

1988 – 1992 UNIVERSITEIT MAASTRICHT (Maastricht, The Netherlands). Visiting Professor, Department of Medical Informatics and Biostatistics, and Department of Nursing Science, Faculty of Health Sciences.

- 1988 – 1992 WESTERN STATE HOSPITAL (Staunton, VA). Consulting Staff, Dementia Research Unit, Shenandoah Geriatric Treatment Center.
- 1984 – 1988 CASE WESTERN RESERVE UNIVERSITY (Cleveland, OH). Assistant Professor (1984-1986), Associate Professor (1986-1988), and Director of Research (1985-1987), Frances Payne Bolton School of Nursing.
- 1984 – 1988 UNIVERSITY HOSPITALS OF CLEVELAND (Cleveland, OH). Associate in Nursing.
- 1984 – 1998 HEALTH SCIENCES DEVELOPMENT INC. (Shaker Heights, OH and Charlottesville, VA). Founding Principal.
- 1980 – 1984 UNIVERSITY OF MICHIGAN (Ann Arbor, MI). Several part-time teaching and research fellowships and assistantships concurrent with graduate education.
- 1979 – 1984 UNIVERSITY OF MICHIGAN HOSPITALS AND CLINICS (Ann Arbor, MI). Staff Nurse, C.S. Mott Children's Hospital (1979-1980). Educational Nurse Specialist (1982-1983) and Coordinator of Staff Nursing Programs, Quality Assurance (1983-1984), Department of Nursing.

PUBLICATIONS

ARTICLES

SUBMITTED

1. Abraham, I., Han, L., Sun, D., MacDonald, K., & Aapro, M. Cost savings from anemia management with biosimilar epoetin α and increased access to targeted antineoplastic treatment: simulation for the European G5 countries. *Future Oncology*.
2. Tharmarajah, S., Bagalagel, A., Mohammed, A., MacDonald, K., & Abraham, I. Clinical efficacy and safety of Zarzio, a biosimilar recombinant human granulocyte colony stimulating factor. *Biosimilars*.
3. Delforge, M., Selleslag, D., Triffet, A., Mineur, P., Theunissen, K., Graux, C., Trullemans, F., Boulet, D., Van Eygen, K., Beguin, Y., Noens, L., Van Steenweghen, S., Lemmens, J., Pierre, P., D'hondt, R., Ferrant, A., Deeren, D., Van De Velde, A., Wynendaele, W., André, M., Breems, D., Deweweire, A., Geldhof, K., Pluymers, W., Harrington, A., MacDonald, K., Abraham, I., & Ravoet, C. Adequate iron chelation therapy for at least six months improves mortality in transfusion-dependent patients with lower risk myelodysplastic syndromes. *Leukemia Research*.
4. Sun, D., Abraham, I., Slack, M., & Skrepnek, G. Clinical and economic burden of emergency department visits among children and adolescents with depression in the United States. *Annals of Emergency Medicine*.

ACCEPTED FOR PUBLICATION

1. Herman, P., Dodds, S., Logue, M., Abraham, I., Rehfeld, R., Grizzle, A., Urbine, T., Horwitz, R., Crocker, R., & Maizes, V. IMPACT - Integrative Medicine Primary Care Trial: Protocol for a comparative effectiveness study of the clinical and cost outcomes of an integrative primary care clinic model. *BMC Complementary and Alternative Medicine*.
2. Van Camp, Y.P.M., Vrijens, B., Abraham, I., Van Rompaey, B., Elseviers, M.M. Adherence to phosphate binders in hemodialysis patients: prevalence and determinants. *Journal of Nephrology*.

E-PUBLICATION AHEAD OF PRINT

3. Arnet, I., Abraham I., Messerli, M., & Hersberger, K.E. A method for calculating adherence to polypharmacy from dispensing data records. *International Journal of Clinical Pharmacy*. DOI 10.1007/s11096-013-9891-8
4. Van Meerbeeck, J., Galdermans, D., Bustin, F., De Vos, L., & Abraham, I. Survival outcomes in patients with advanced non-small-cell lung cancer treated with erlotinib: expanded access program data from Belgium (the TRUST study). *European Journal of Cancer Care*. DOI: 10.1111/ecc.12146
5. Devogelaer, J.-P., Geusens, P., Daci, E., Gielen, E., Denhaerynck, K., MacDonald, K., Hermans, C., Vancayzeele, S., Abraham, I., & Boonen, S. Remission over three years in patients with Paget's disease of bone treated with a single intravenous infusion of 5mg zoledronic acid. *Calcified Tissue International*. DOI 10.1007/s00223-013-9812-9

PUBLISHED

2013

6. Dodds, S., Herman, P., Sechrest, L., Abraham I., Logue, M., Grizzle, A., Rehfeld, R., Urbine, T., Horwitz, R., Crocker, R., & Maizes, V. When an integrative medicine practice model is the intervention: a theory-driven approach to evaluation of the University of Arizona Integrative Health Center. *Evidence-based Complementary and Alternative Medicine, 2013*, 652047.
7. Rakic, J.-M., Leys, A., Brié, H., Denhaerynck, K., Pacheco, C., Vancayzeele, S., Hermans, C., MacDonald, K., & Abraham, I. (2013). Real-world variability in ranibizumab treatment and associated clinical and quality of life outcomes in patients with neovascular age-related macular degeneration: the HELIOS study. *Clinical Ophthalmology, 7*, 1849-1858.
8. Abraham, I., Van Camp, Y., Villa, L., Denhaerynck, K., Sun, D., Vancayzeele, S., Aerts, A., Brié, H., Hermans, C., & MacDonald, K. (2013). Hierarchical modeling of patient and physician determinants of blood pressure outcomes in adherent versus non-adherent hypertensive patients: pooled analysis of six studies with 14,646 evaluable patients. *Journal of Clinical Hypertension, 15*, 663-673.
9. Bagalagel, A., Mohammed, A., MacDonald, K., & Abraham, I. (2013). Clinical efficacy and safety of Tevagrastim® (XM02), a biosimilar recombinant human granulocyte colony stimulating factor. *Biosimilars, 3*, 55-62.
10. Mohammed, A., Bagalagel, A., MacDonald, K., & Abraham, I. (2013). Clinical efficacy and safety of XM01, a biosimilar recombinant human erythropoietin, in the management of anemia. *Biosimilars, 3*, 45-53.
11. Bagalagel, A., Mohammed, A., MacDonald, K., & Abraham, I. (2013). Clinical efficacy and safety of SB309, a biosimilar recombinant human erythropoietin, in the management of anemia. *Biosimilars, 3*, 35-43.
12. Gesualdo, L., London, G., Turner, M., Lee, C., MacDonald, K., Covic, A., Zaoui, P., Combe, C., Dellana, F., Muenzberg, M., & Abraham, I. (2013). A pharmacoepidemiological study of the multi-level determinants, predictors, and clinical outcomes of biosimilar epoetin alfa for renal anemia in hemodialysis patients: background and methodology of the MONITOR-CKD5 study. *Internal and Emergency Medicine, 8*, 389-399.
13. Abraham, I., De Geest, W., De Geest, J., De Troy, E., & MacDonald, K. (2013) Detectability and appraisal thresholds of split pulse signals for the Memopatch™ device, an electronic skin patch intended to deliver tactile medication reminder signals (Study TS-104). *Conference Proceedings of the IEEE Engineering in Medicine and Biology Society, 2013*, 914-917.

14. Abraham, I., Sun, D., Bagalagel, A., Altyar, M., Mohammed, A., Tharmarajah, S., & MacDonald, K. (2013). Biosimilars in 3D: definition, development, and differentiation. *BioEngineered*, 4, 203-206.
 15. Tucker, G., Clark, N., & Abraham, I. (2013) Enhancing ED triage to accommodate the special needs of geriatric patients. *Journal of Emergency Nursing*, 39, 309-314.
 16. Maa, S.-H., Wang, C.-H., Yeh, C.-C., Hsu, K.-H., Lin, H.-C., Yee, B., MacDonald, K., & Abraham, I. (2013). Acupressure improves the weaning indices of tidal volumes and rapid shallow breathing index in stable coma patients receiving mechanical ventilation: randomized controlled trial. *Evidence-based Complementary and Alternative Medicine*, 2013, 723128.
 17. MacDonald, K., Brié, H., Vancayzeele, S., Lee, C., Bowles, J., Piotrowski, K., Hermans, C., & Abraham, I. (2013). Modeling of blood pressure outcomes in patients with and without cardiovascular or renal disease treated with valsartan (the PREVIEW study). *Archives of Cardiovascular Disease*, 106, 124-134.
 18. Abraham, I., MacDonald, K., Tharmarajah, S., Bokemeyer, C., Ludwig, H., Soubeyran, P., Battistel, V., & Apro, M. (2013). Modeling of treatment response to erythropoiesis-stimulating agents in older (age \geq 70 years) and younger (age < 70 years) cancer patients with anemia: findings from the Anemia Cancer Treatment study. *Journal of Geriatric Oncology*, 4, 196-201.
 19. Abraham, I., MacDonald, K., Song, M.K., Ciesielski, G., Pacheco, C., Lee, C., Cholette, M., Kinsey, K., Speaks, P., Hermans, C., Brié, H., Reel, S., Van der Niepen, P., Yee, B., & Vancayzeele, S. (2013). Patient- and physician-level determinants of blood pressure response to treatment in normal and overweight patients (The PREVIEW Study). *Nutrition, Metabolism, & Cardiovascular Diseases*, 23, 314-322.
 20. Abraham, I., Tharmarajah, S., & MacDonald, K. (2013). Clinical safety of biosimilar recombinant human granulocyte colony stimulating factors. *Expert Opinion on Drug Safety*, 12, 235-246.
 21. Swimberghe, S., Ghislain, P.-D., Daci, E., Allewaert, K., Denhaerynck, K., Hermans, C., Pacheco, C., Vancayzeele, S., MacDonald, K., & Abraham, I. (2013). Clinical, quality of life, patient adherence, and safety outcomes of short-course (12 weeks) treatment with cyclosporine in patients with severe psoriasis (the PRACTICE study). *Annals of Dermatology*, 25, 28-35.
 22. Kim, H.-J., Abraham, I., & Malone, P. (2013). Analytical methods and issues for symptom cluster research in oncology. *Current Opinion in Supportive and Palliative Care*, 7, 45-53.
- 2012**
23. Abraham, I., & MacDonald, K. (2012) Evidence-based patient management, micro-evidence, and micro-trialing. (In English with parallel Japanese translation). *Kango Kenkyu - The Japanese Journal of Nursing Research*, 45, 666-672 (English), 673-678 (Japanese).
 24. Abraham, I., & MacDonald, K. (2012). Safety of erythropoiesis-stimulating agents in patients with end-stage kidney disease: data are safer than extrapolations. *Expert Opinion on Drug Safety*, 11, 885-887.
 25. Sun, D., & Abraham, I. (2012). The cost of allogeneic blood transfusion. *World Journal of Hematology*, 1, 8-13.
 26. Abraham, I., & MacDonald, K. (2012). Clinical safety of biosimilar recombinant human erythropoietins. *Expert Opinion on Drug Safety*, 11, 819-840.
 27. Abraham, I., & MacDonald, K. (2012). Why are patients with chronic myeloid leukaemia

(non-)adherent? *British Journal of Cancer*, 107, 901-903.

28. Abraham, I., & MacDonald, K. (2012). Clinical efficacy and safety of HX575, a biosimilar recombinant human erythropoietin, in the management of anemia. *Biosimilars*, 2, 13-25.
29. Abraham, I., & Sun, D. (2012). The cost of blood transfusion in Western Europe as estimated from six studies. *Transfusion*, 52, 1983-1988.
30. Aapro, M., Cornes, P., Sun, D., & Abraham, I. (2012). Comparative cost-efficiency across the European Union G5 countries of originators and a biosimilar erythropoiesis-stimulating agent to manage chemotherapy-induced anemia in cancer patients. *Therapeutic Advances in Medical Oncology*, 4, 95-105.
31. Aapro, M., Cornes, P., & Abraham, I. (2012). Comparative cost-efficiency across the European G5 countries of various regimens of filgrastim, biosimilar filgrastim, and pegfilgrastim to reduce the incidence of chemotherapy-induced febrile neutropenia. *Journal of Oncology Pharmacy Practice*, 18, 171-179.
32. Abraham, I., & Bootman, J.L. (2012). Why pharmacoeconomic policy should be transnational. *Pharmaceuticals Policy and Law*, 14, 7-16.
33. Olvey, E., MacDonald, K., & Abraham, I. (2012). Comparative effectiveness research: the translational science of comparing the what, how, when, in whom, by whom, and why of treatment effectiveness. *Pharmaceuticals Policy and Law*, 14, 27-35.

2011

34. Lins, R., Coen, N., Aerts, A., MacDonald, K., Brié, H., Hermans, C., Shen, Y.-M., Lee, C., Vancayzeele, S., Mecum, N., & Abraham, I. (2011). Modeling of blood pressure and total cardiovascular risk outcomes after second-line valsartan therapy: the BSCORE study. *Archives of Cardiovascular Diseases*, 104, 428-434.
35. Lins, R., Aerts, A., Coen, N., Hermans, C., MacDonald, K., Lee, C., Shen, Y.-M., Vancayzeele, S., Mecum, N., & Abraham, I. (2011). Effectiveness of amlodipine-valsartan single-pill combinations: Hierarchical modeling of blood pressure and total cardiovascular risk outcomes (the EXCELLENT Study). *Annals of Pharmacotherapy*, 45, 727-739.
36. MacDonald, K., Lee, C.S., Chen, H.-C., Ko, M., Fidel, G., Brié, H., Hermans, C., Vancayzeele, S., Reel, S., Van der Niepen, P., & Abraham, I. (2011). Gender-specific, multi-level determinants of outcomes of antihypertensive treatment: a sub-analysis of the Belgian PREVIEW Study. *Journal of Human Hypertension*, 25, 372-382.
37. Delforge, M., Selleslag, D., Triffet, A., Mineur, P., Bries, G., Graux, C., Trullemans, F., MacDonald, K., Abraham, I., Pluymers, W., & Ravoet, C. (2011). Iron status and treatment modalities in transfusion-dependent patients with myelodysplastic syndromes. *Annals of Hematology*, 90, 655-666.
38. Mazzeo, F., Duck, L., Joosens, E., Dirix, L., Focan, C., Forget, F., De Geest, S., D'haeyer, J., van Lierde, M.-A., MacDonald, K., Abraham, I., & De Grève, J. (2011) Nonadherence to imatinib treatment in patients with gastro-intestinal stromal tumors: the ADAGIO study. *Anticancer Research*, 31, 1411-1415.
39. Abraham, I., MacDonald, K., Hermans, C., Aerts, A., Lee, C., Vancayzeele, S. (2011). Real-world effectiveness of valsartan on hypertension and total cardiovascular risk: review and implications of a translational research program. *Vascular Health and Risk Management*, 7, 209-235.

40. Gascón, P., Aapro, M., Ludwig, H., Rosencher, N., Turner, M., Song, M., MacDonald, K., Lee, C., Muenzberg, M., & Abraham, I. (2011). Background and methodology of MONITOR-GCSF, a pharmaco-epidemiological study of the multi-level determinants, predictors, and clinical outcomes of febrile neutropenia prophylaxis with biosimilar granulocyte-colony stimulating factor filgrastim. *Critical Reviews in Oncology and Hematology*, *77*, 184-197.
41. Gascón, P., Aapro, M., Ludwig, H., Rosencher, N., Boccadoro, M., Turner, M., MacDonald, K., Muenzberg, M., & Abraham, I. (2011). Update on the MONITOR-GCSF study of biosimilar filgrastim to reduce the incidence of chemotherapy-induced febrile neutropenia in cancer patients: Protocol amendments. *Critical Reviews in Oncology and Hematology*, *77*, 198-200.
42. Milisen, K., Coussement, J., Boonen, S., Geeraerts, A., Druyts, L., Van Wesenbeeck, A., Abraham, I., & Dejaeger, E. (2011). Initial evidence of the relationships between nursing staff attitudes, resident decisions, and resident adherence and persistence in the use of hip protectors in residential long-term care. *International Journal of Nursing Studies*, *48*, 193-203.
43. Verpooten, G., Aerts, A., Coen, N., Vancayzeele, S., Hermans, C., Bowles, J., MacDonald, K., Abraham, I., & Lee, C. (2011). Anti-hypertensive effectiveness of aliskiren for the “real-world” management of hypertension: Multi-level modeling of 180-day blood pressure outcomes (the DRIVER study). *International Journal of Clinical Practice*, *65*, 54-63.

2010

44. Maa, S.-H., Chang, Y.-C., Chou, C.-L., Ho, S.-C., Sheng, T.-F., MacDonald, K., Wang, Y., Shen, Y.-M., & Abraham, I. (2010). Evaluation of the feasibility of a nurse-led school-based asthma management program in Taiwan. *Journal of Clinical Nursing*, *19*, 2415-2423.
45. Chisholm-Burns, M.A., Lee, J.K., Spivey, C.A., Slack, M., Herrier, R., Hall-Lipsy, E., Zivin, J.G., Abraham, I., Palmer, J., Martin, J.R., Kramer, S.S., & Wunz, T. (2010). U.S. pharmacists' effect as team members on patient care: Systematic review and meta-analyses. *Medical Care*, *48*, 923-933.
46. Chisholm-Burns, M.A., Graff Zivin, J., Lee, J.K., Spivey, C.A., Slack, M., Herrier, R.N., Hall-Lipsy, E., Abraham, I., Palmer, J. (2010). Economic effects of pharmacists on health outcomes in the United States: A systematic review. *American Journal of Health-System Pharmacy*, *67*, 1624-1634.
47. Abraham, I., Reel, L., Armstrong, E., Ritenbaugh, C., Bassford, T., Muramoto, M., Gerald, J., & Rigney, T. (2010). A definition of comparative effectiveness research (e-Letter). *British Medical Journal*.
<http://www.bmj.com/content/341/bmj.c4662?tab=responses>
48. Abraham, I., Lee, C., Song, M., Van der Niepen, P., Vancayzeele, S., Brié, H., Hermans, C., & MacDonald, K. (2010). “Later, lazier, and unluckier”: a heuristic profile of high vulnerability is an independent predictor of uncontrolled blood pressure (the PREVIEW study). *International Journal of General Medicine*, *3*, 163-166.
49. Abraham, I. (2010). Integrating blood pressure and HbA1c outcomes into total cardiovascular risk as a treatment outcome (e-Letter). *Annals of Internal Medicine*.
http://www.annals.org/content/152/11/689.full/reply#annintmed_el_124829.
50. Abraham, I., Demosthenes, L., MacDonald, K., Reel, S., Lee, C., Van der Niepen, P., Brié, H., Hermans, C., & Vancayzeele, S. (2010). Hierarchical modeling of outcomes of antihypertensive treatment in elderly patients: Findings from the PREVIEW Study. *Archives of Gerontology and Geriatrics*, *51*, 45-53.
51. Van Erps, J., Aapro, M., MacDonald, K., Soubeyran, P., Turner, M., Warrinnier, H., Albrecht,

- T., & Abraham, I. (2010). Promoting evidence-based management of anemia in cancer patients: Concurrent and discriminant validity of RESPOND, a web-based clinical guidance system based on the EORTC guidelines for supportive cancer care. *Supportive Care in Cancer*, *18*, 842-858.
52. Abraham, I. (2010). Intravenous bisphosphonate treatment and osteonecrosis of the jaw in patients with cancer: wide CIs, Yule-Simpson and King Kong effects, and no therapeutic outcomes. *Journal of Clinical Oncology*, *28*, e143-e144.
53. Milisen, K., De Busser, T., Kayaert, A., Abraham, I., & Dierckx de Casterlé, B. (2010). The evolving professional nursing self-image of students in Flemish baccalaureate programs: A cross-sectional survey. *International Journal of Nursing Studies*, *47*, 688-698.
54. Abraham, I. (2010). "Half of all doctors are worse than average" - or: are half of all doctors worse at elementary statistics than the other half? (e-Letter). *British Medical Journal*.
http://www.bmj.com/cgi/eletters/339/dec23_1/b5605#228716

2009

55. Brusselle, G., Michils, A., Louis, R., Dupont, L., Van de Maele, B., Delobbe, A., Pilette, C., Lee, C.S., Gurdain, S., Vancayzeele, S., Lecomte, P., Hermans, C., MacDonald, K., Song, M., & Abraham, I. (2009). "Real-life" effectiveness of omalizumab in patients with severe persistent allergic asthma: the PERSIST study. *Respiratory Medicine*, *103*, 1633-1642.
56. Aapro, M., Ludwig, H., Bokemeyer, C., MacDonald, K., Soubeyran, P., Turner, M., Albrecht, T., & Abraham, I. (2009). Modeling of outcomes and response rates to treatment with erythropoiesis stimulating agents in cancer patients with anemia: Findings from the Anemia Cancer Treatment (A.C.T.) study. *Annals of Oncology*, *20*, 1714-1721.
57. Ludwig, H., Aapro, M., Bokemeyer, C., MacDonald, K., Soubeyran, P., Turner, M., Albrecht, T., & Abraham, I. (2009). Treatment patterns, outcomes, and response rates in the management of cancer-related anemia in Europe: Findings from the Anemia Cancer Treatment (A.C.T.) study. *European Journal of Cancer*, *45*, 1603-1615.
58. Noens, L., van Lierde, M.-A., De Bock, R., Verhoef, G., Zachée, P., Berneman, Z., Martiat, Ph., Mineur, Ph., Van Eygen, K., MacDonald, K., De Geest, S., Albrecht, T., & Abraham, I. (2009). Prevalence, determinants, and outcomes of nonadherence to imatinib therapy in patients with chronic myeloid leukemia: The ADAGIO study. *Blood*, *113*, 5401-5411.
59. Van der Niepen, P., Woestenburg A., Brié, H., Vancayzeele, S., MacDonald, K., Lee, C., Hermans, C., & Abraham, I. (2009). Effectiveness of valsartan for treatment of hypertension: patient profiling and hierarchical modeling of determinants and outcomes (the PREVIEW study). *Annals of Pharmacotherapy*, *43*, 849-861.
60. Abraham, I., Lee, C.S., & MacDonald, K.M. (2009). "Non-statistically significant results", or how to make statistically non-significant results sound significant and fit the overall message (e-Letter). *British Medical Journal*.
http://www.bmj.com/cgi/eletters/339/aug04_2/b2732.
61. Aapro, M., MacDonald, K., Van Erps, J., Soubeyran, P., Turner, M., Warrinnier, H., Albrecht, T., & Abraham, I. (2009). Managing cancer-related anemia in congruence with the EORTC guidelines is an independent predictor of haemoglobin outcome: Initial evidence from the RESPOND study. *European Journal of Cancer*, *45*, 8-11.

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62. Aapro, M., MacDonald, K., Van Erps, J., Soubeyran, P., Turner, M., Muenzberg, M., Dunlop, R., & Abraham, I. (2008). Promoting evidence-based management of anemia in cancer patients: Background, development, and scientific validation of RESPOND, a web-based clinical guidance system based on the EORTC guidelines. *Critical Reviews in Oncology and Hematology*, 65, 32-42.
63. Aapro, M., Abraham, I., Bokemeyer, C., Ludwig, H., MacDonald, K., Soubeyran, P., & Turner, M. (2008). The background and methodology of the Anaemia Cancer Treatment (A.C.T.) survey: A retrospective study of practice patterns and outcomes in the management of anemia in cancer patients and their congruence with evidence-based guidelines. *Supportive Care in Cancer*, 16, 193-200.
64. Maa, S.-H., Lee, H.-S., Huang Y.-C., Wu, J. W., Tsou, T.-S., MacDonald, K., & Abraham, I. (2008). Incidence density and relative risk of nosocomial infections in a Taiwan children's hospital, 1999-2003. *Infection Control and Hospital Epidemiology*, 29, 767-770.
65. Dobbels, F., Moons, P., Abraham I., Larsen, C., Dupont, L., & De Geest, S. (2008). Measuring symptom experience of side-effects of immunosuppressive drugs: The Modified Transplant Symptom Occurrence and Distress Scale. *Transplantation International*, 21, 764-773.
66. Kim, H.-J., & Abraham, I. (2008) Statistical approaches to modeling symptom clusters in cancer patients. *Cancer Nursing*, 31, E1-E10.
67. Abraham, I. (2008). [Studying interventions in the real world.] (In Japanese). *Kango Kenkyu – The Japanese Journal of Nursing Research*, 41, 435-450.
68. Abraham, I. (2008). [Why nursing should lead effectiveness research.] (In Japanese). *Kango Kenkyu – The Japanese Journal of Nursing Research*, 41, 451-463.
69. Abraham, I. (2008). [Conceptual and methodological issues in effectiveness research.] (In Japanese). *Kango Kenkyu – The Japanese Journal of Nursing Research*, 41, 463-467.
70. Abraham, I., & Sakashita, R. (2008). [Establishing effectiveness research in nursing.] (In Japanese). *Kango Kenkyu – The Japanese Journal of Nursing Research*, 41, 469-472.
71. Abraham, I. (2008). Are the olives just as green on the other side of the Mediterranean? Meta-analysis of a concept rather than an intervention (e-Letter). *British Medical Journal*. (http://www.bmj.com/cgi/eletters/337/sep11_2/a1344).

2007

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GRANTS AND CONTRACTS

This section includes research and training grants and contracts obtained under academic affiliations, as well as research grants and contracts obtained under private affiliations (Health Sciences Development, The Epsilon Group, and Matrix45). Grants and contracts obtained through Health Sciences Development, The Epsilon Group, and Matrix45 are listed under consideration of contractual confidentiality clauses as to scope and budget. These contracts have exceeded US\$22,000,000 since 1984. Stated role in project refers to internal role. Academic research grants have exceeded US\$21,000,000 in direct costs and US\$7,000,000 (est.) in indirect costs since 1983.

SUBMITTED

1. Principal Investigator, "E30 - Expertise and Evidence in PharmacoEconomics and Outcomes." Ministry of Health, Saudi Arabia (2014-2020). Budget: to be negotiated.
2. Co-Investigator, "Care plan-based payment to integrate behavioral and physical health care for persons with SMI." Centers for Medicare and Medicaid Services, US Department of Health and Human Services (2014-2017). M. Muramoto, Principal Investigator. Budget: \$9,206,643.

ACTIVE SUPPORT

1. Co-Investigator, Double-blind randomized controlled clinical trial evaluating the effect of *Nigella Sativa* on pre-diabetic patients as adjuvant therapy to therapeutic lifestyle modification in a community health center in Southern Arizona. Saudi Foundation (2013-2014). A. Bagalagel, Principal Investigator. Budget: SR78,248.
2. Co-Investigator and Lead Evaluator, "HEALTH 360 - Interprofessional collaborative practice primary care environment for underserved populations." Division of Nursing, Bureau of Health Professions, US Department of Health and Human Services (2012-2015). Sally Reel, Principal Investigator (10%). Budget: \$1,484,044.
3. Principal Investigator, "MONITOR-TEE - Binocrit oncology TEE safety registry." Sandoz Biopharmaceuticals/Novartis (2012-2018). Budget: confidential.
4. Co-Principal Investigator, "MONITOR-RDI - Maintenance of chemotherapy course through optimal usage of Zarzio." Sandoz Biopharmaceuticals/Novartis (2012-2016). Budget: confidential.
5. Co-Investigator, "Prototype research for MemoPatch - electronic memory patch." Flemish Ministry of Research and Innovation, Institute for Science and Technology (2012-2013). W. De Geest, Principal Investigator. Budget: €128,498.
6. Co-Investigator, "IMPACT - Integrative medicine primary care trial: a comparative effectiveness study of an integrative primary care clinic model on clinical and cost outcomes." Adolph Coors Foundation (2012-2014). P. Herman, Principal Investigator. Budget: \$375,912 (20%).

7. Mentor, R25T CURE “Cancer outcomes assessment for underserved populations.” National Cancer Institute, National Institutes of Health. T. Nuño, Principal Investigator under D. Alberts, R25T Principal investigator (2012-2015). Budget: \$325,014.
8. Principal Investigator, “MPACT2 - An observational study of subjects’ actions in response to reminder signals by the MemoPatch™ device in an adult sample.” TheraSolve (2012-2013). Budget: Confidential.
9. Principal Investigator, “Postdoctoral (PharmD) fellowship programs in clinical research.” Saudi Arabia Cultural Mission & King Abdulaziz University (2012-2015): \$1,200,000.
10. Principal Investigator, “GLORIOUS - A prospective, observational, open-label, multi-center, pharmacoepidemiologic study investigating disease awareness, patient education, lifestyle modification, and blood glucose outcome in patients with type 2 diabetes treated with Galvus® (vildagliptin) / Eucreas® (metformin/vildagliptin). Novartis (2012-2015). Budget: Confidential.
11. Sponsor, “Development of a communications infrastructure to support an interprofessional primary care practice-based research network in Arizona.” C. Pacheco, P. Arizona Area Health Education Centers program (2012-2013). Budget: \$5000.
12. Principal Investigator, “Secondary studies on hypertension management with valsartan from a pooled dataset of 15,583 patients.” Novartis (2011-2013). Budget: Confidential.
13. Principal Investigator, “TIME - Prospective, open-label, multicenter, non-interventional phase IV trial of the effectiveness, safety and tolerability of Tarceva® as second-line treatment of patients with advanced non-small cell lung cancer (NSCLC), after failure of first-line treatment with a pemetrexed-containing chemotherapy regimen.” Roche (2011-2015). Budget: Confidential.
14. Principal Investigator, “ADAPT – A survey of specialist physicians’ clinical decision-making and practice patterns in the pharmacotherapeutic management of Alzheimer’s disease.” Novartis (2011-2013). Budget: Confidential.
15. Principal Investigator, “An observational study investigating treatment persistence, effectiveness and safety of newly initiated indacaterol and alternative first-line maintenance treatments in chronic obstructive pulmonary disease (COPD) patients.” Novartis (2011-2014). Budget: Confidential.
16. Principal Investigator, “Adherence in chronic myeloid leukemia.” Novartis (2010-2013). Budget: Confidential.
17. Principal Investigator, “AZ AHEC interprofessional primary care fellowship in COCER.” Arizona Area Health Education Centers (2010-2013). Budget: \$1,704,315.
18. Principal Investigator, “ATTRACTIVE - A prospective, observational, open-label, multi-center, pharmacoepidemiologic study of practice patterns, predictors, and effectiveness and safety in women and men with osteoporosis treated *de novo* with once-yearly IV Aclasta® (zoledronic acid) following prior oral bisphosphonate therapy.” Novartis (2010-2013). Budget: Confidential.
19. Principal Investigator, “G-FORCE – A prospective, observational, open-label, multi-center, pharmacoepidemiologic study of practice patterns, lifestyle behaviors, and clinical outcomes in patients with Type 2 diabetes treated with vildagliptin.” Novartis (2010-2013). Budget: Confidential.

20. Principal Investigator, "A non-interventional study with retrospective evaluation of disease management for transfusion-dependent MDS patients." Novartis Oncology (2009-2012). Budget: Confidential.
21. Co-Investigator, "EUFORIA - A prospective, observational, open-label, multi-center, pharmacoepidemiologic study of predictors, practice patterns and clinical outcomes in patients with arterial hypertension receiving combination therapy of aliskiren and hydrochlorothiazide." Novartis (2009-2013). C. Lee, Principal Investigator. Budget: Confidential.
22. Co-Principal Investigator, "R-PIXEL - A follow-on, retrospective, multicenter, pharmacoepidemiologic study of the prevalence and predictors of persistence in patients with prior uncontrolled persistent severe allergic asthma who were previously treated with add-on omalizumab (Xolair®) for 52 weeks when enrolled in the PERSIST study." C. Lee, Principal Investigator (Novartis 2009-2012). Budget: Confidential.
23. Principal Investigator, "MONITOR-GCSF - Multi-level evaluation of chemotherapy-induced febrile neutropenia prophylaxis, outcomes, and determinants with granulocyte-colony stimulating factor - An international, prospective, open-label, multicenter, pharmacoepidemiological study to determine predictors of clinical outcomes in chemotherapy-treated cancer patients at risk for febrile neutropenia and treated prophylactically with filgrastim biosimilar." Sandoz Biopharmaceuticals / Novartis (2009-2014). Budget: Confidential.
24. Principal Investigator, "MONITOR-CKD5 - Multi-level evaluation of anemia treatment, outcomes, and determinants in chronic kidney disease stage 5 - An international, prospective, open-label, multicenter, pharmacoepidemiological study to determine predictors of clinical outcomes in hemodialysis patients with anemia treated with HX575 (IV)." Sandoz Biopharmaceuticals / Novartis (2009-2014). Budget: Confidential.
25. Co-Principal Investigator, "P-PIXEL - A prospective, observational, multicenter, pharmaco-epidemiologic study of the prevalence and predictors of persistence and adherence in patients with uncontrolled persistent severe allergic asthma treated de novo with omalizumab." C. Lee, Principal Investigator. Novartis (2008-2014). Budget: Confidential.
26. Co-Principal Investigator, "PRESTIGE - An epidemiological study of variation in serum total IgE levels in three natural post hoc IgE cohorts of patients with severe asthma." C. Lee, Principal Investigator (Novartis 2008-2013). Budget: Confidential.
27. Principal Investigator, "TRUST - Multicentre open-label study and expanded access program of Tarceva® (erlotinib) in patients with advanced Stage IIIb/IV non-small cell lung cancer." Roche (2008-2013). Budget: Confidential.
28. Principal Investigator, "HELIOS - A prospective, observational, open-label, multicenter study of effectiveness, safety, and associated practice patterns in patients with neovascular age-related macular degeneration being treated with Lucentis® (ranibizumab) therapy." Novartis (2007-2013). Budget: Confidential.
29. Co-Principal Investigator, "A.C.T. Anemia Cancer Treatment - A multicenter observational study." Roche (2006-2013). K. MacDonald, Principal Investigator. Budget: Confidential.
30. Principal Investigator, "Paget's Disease Registry". Novartis (2005-2013). Budget: Confidential.

PAST SUPPORT

1. Principal Investigator, "MPULSE - A cross-sectional study to evaluate the effectiveness and acceptability of various pulse signals of the MemoPatch™ device in an adult sample." TheraSolve (2011-2013). Budget: Confidential.
2. Co-Principal Investigator, "PREVIEW – A prospective, observational, multicenter study to determine predictors of clinical outcome in hypertensive patients treated with valsartan". K. MacDonald, Principal Investigator. Novartis (2004-2013). Budget: Confidential.
3. Co-Investigator, "Evaluation of the Arizona Center for Integrative Medicine / Maricopa County Integrative Medicine Model – Phase I." Adolph Coors Foundation (2011-2012). P. Herman, Principal Investigator. Budget: \$151,450 (10%).
4. Principal Investigator, "PRACTICE – A prospective, observational, open-label, multicenter, pharmacoepidemiologic and pharmacovigilance study of predictors, practice patterns, and effectiveness and safety outcomes in patients with severe psoriasis being treated with Neoral®." Novartis (2006-2013). Budget: Confidential.
5. Principal Investigator, "Evaluation of meta-analyses of granulocyte-colony stimulating factors to reduce the incidence of febrile neutropenia." Sandoz Biopharmaceuticals/Novartis (2012). Budget: Confidential.
6. Principal Investigator, "Comparative cost-efficiency analysis in the European G5 countries of management of chemotherapy-induced anemia with Eprex®, NeoRecormon®, Aranesp®, and Binocrit®; including a comparison to the cost of allogeneic red blood cell transfusion and expanded access to selected targeted cancer treatments." Sandoz Biopharmaceuticals / Novartis (2011-2012). Budget: Confidential.
7. Principal Investigator, "LOTUZ – A prospective, observational, multicenter, pharmaco-epidemiological study of predictors, practice patterns, and effectiveness and safety outcomes in long-term treatment (≥ 2 years) with zoledronic acid in patients with solid and hematological malignancies". Novartis Oncology (2005-2012). Budget: Confidential.
8. Principal Investigator, "DIALOGUE - A prospective, observational, open-label, multi-center, pharmacoepidemiologic study of practice patterns, lifestyle behaviors, and clinical outcomes in patients treated with Rasilez® (aliskiren) or Rasilez HCT® (aliskiren/hydrochlorothiazide) for arterial hypertension, who are enrolled into a health educational programme on hypertension and CV risk. Novartis (2010-2012). Budget: Confidential.
9. Mentor, "Changes in hospital care organization and outcomes." 1K08 HS018534-01, Agency for Healthcare Research and Quality (2009-2012). A. Kutney-Lee, Principal Investigator. Budget: \$423,840.
10. Principal Investigator, "Scientific strategy development: Pharmaco-epidemiological studies on follow-on biologics." Sandoz Biopharmaceuticals / Novartis (2009-2011). Budget: Confidential.
11. Principal Investigator, "Exploratory pulse studies for a dermal reminder system." TheraSolve (2005-2011). Budget: Confidential.
12. Investigator, "Framework and mathematical modeling of differential pricing to improve access and affordability of medicines." Johnson & Johnson (2010-2011). R. Daems. Principal Investigator. Budget: Confidential.

13. Principal Investigator, "PERSIST – A prospective, observational, open-label, multicenter, pharmaco-epidemiologic, pharmaco-vigilance, and pharmaco-economic study of predictors, practice patterns, and effectiveness and safety outcomes in patients with severe persistent allergic asthma being treated with adjuvant omalizumab therapy". Novartis (2005-2011). Budget: Confidential.
14. Principal Investigator, "TRIGONS – An international, prospective, open-label, multicenter, pharmacoepidemiological study of the incidence and determinants of thrombo-embolic morbidity and various parameters of mortality in cancer patients with chemotherapy-induced anemia being treated with HX575; with secondary intent to evaluate the effectiveness of within-label and guidelines-congruent HX575 treatment for correction of anemia. Sandoz Biopharmaceuticals / Novartis (2008-2011). Budget: Confidential.
15. Principal Investigator, "Pharmacoeconomic modeling of the cost-efficiency of filgrastim versus pegfilgrastim in the primary prophylaxis of chemotherapy-induced febrile neutropenia in several solid tumor types." Sandoz Biopharmaceuticals / Novartis (2010-2011). Budget: Confidential.
16. Principal Investigator, "C3 – An evaluation of the impact of a structured parent/patient questionnaire on physicians' perceptions, clinical confidence and practice patterns related to Attention-Deficit Hyperactivity Disorder." Novartis (2006-2010). Budget: Confidential.
17. Co-Investigator, "Evaluation of a school-based asthma management program in middle schools in Taiwan." National Science Council of Taiwan (2005-2010). S.-H. Maa, Principal Investigator.
18. Principal Investigator, "A cross-sectional study to investigate the prevalence and treatment modalities in patients with transfusion-dependent myelodysplastic syndromes (MDS)." Novartis Oncology (2008-2010). Budget: Confidential.
19. Co-Investigator, "DRIVER: A prospective, observational, open-label, multi-center, pharmacoepidemiologic study of predictors, practice patterns and clinical outcomes in patients with arterial hypertension receiving Rasilez® (aliskiren)." Novartis (2008-2010). C. Lee, Principal Investigator. Budget: Confidential.
20. Principal Investigator, "ADHERE – A survey of physicians' perceptions of prevalence and determinants of patient adherence to bisphosphonate treatment in patients with postmenopausal osteoporosis". Novartis (2008-2010). Budget: Confidential.
21. Principal Investigator, "AWARE – A survey examining pneumologists' awareness of severe asthma, estimates of severe asthma control, risk factors, illness insight, and treatment adherence of severe asthma patients seen in practice". Novartis (2008-2010). Budget: Confidential.
22. Co-Principal Investigator, "B-SCORE – A prospective, observational, open-label, multi-center, pharmacoepidemiologic study the treatment-outcome relationship under consideration of cardiovascular risk." Novartis (2008-2010). K. MacDonald, Principal Investigator. Budget: Confidential.

23. Co-Principal Investigator, "EXCELLENT – A prospective, observational, open-label, multi-center, pharmacoepidemiologic study of predictors, practice patterns, and clinical outcomes in patients with arterial hypertension receiving a fixed dose combination of amlodipine and valsartan." Novartis (2008-2010). K. MacDonald, Principal Investigator. Budget: Confidential.
24. Co-Investigator, "Demonstrating pharmacists' impact on therapeutic, safety, humanistic and economic health outcomes: A systematic review and meta-analysis." American Society of Health-System Pharmacists (2008-2010). M. Chisholm-Burns, Principal Investigator. Budget: \$69,919.
25. Principal Investigator, "Scientific and technical aspects of registry studies for biologicals." Sandoz Biopharmaceuticals / Novartis (2010). Budget: Confidential.
26. Co-Principal Investigator, "CONTRAST – RAAS combinations to control and comply: A survey of the use of RAAS-blocking therapies in hypertension." C. Lee, Principal Investigator. Novartis (2009-2010). Budget: Confidential.
27. Co-Principal Investigator, "EXAGON – Examining concordance between guidelines on arterial hypertension and physicians' practice patterns focused on combination therapy and cardiovascular risk factors." Novartis (2008-2010). K. MacDonald, Principal Investigator. Budget: Confidential.
28. Principal Investigator, "OCEAnIS – CKD3/4 - Observational cohort evaluation of anaemia in patients with chronic renal insufficiency stages 3 and 4 - A prospective, observational, open-label, multi-center, pharmacoepidemiologic cohort study of predictors, practice patterns, and clinical outcomes in patients with chronic renal insufficiency (CKD Stages 3 and 4) and associated anaemia, not on hemodialysis, and being initiated on Mircera® for haemoglobin correction or maintenance." Roche (2009-2010). Budget: Confidential.
29. Principal Investigator, "OCEAnIS – CKD5 - Observational cohort evaluation of anaemia in patients with chronic renal insufficiency stage 5 - A prospective, observational, open-label, multi-center, pharmacoepidemiologic cohort study of predictors, practice patterns, and clinical outcomes in patients with endstage renal disease (CKD Stage 5) and associated anaemia, on hemodialysis, and being initiated on Mircera® for haemoglobin correction or maintenance." Roche (2009-2010). Budget: Confidential.
30. Co-Principal Investigator, "TIGER – A study of point-of-care IgE screening and physician treatment decision-making in uncontrolled severe asthma." C. Lee, Principal Investigator. Novartis (2008-2010). Budget: Confidential.
31. Co-Principal Investigator, "START – A prospective, observational, open-label, multi-center, pharmacoepidemiologic study of predictors, practice patterns, and clinical outcomes in patients with arterial hypertension receiving a free dose combination of amlodipine and valsartan." Novartis (2007-2009). K. MacDonald, Principal Investigator. Budget: Confidential.
32. Principal Investigator, "PegImpact – An observational, multi-center study exploring the association of safety, patient characteristics, virological, and histological parameters with patient outcomes (relapse rate, achievement of sustained viral response)." Schering-Plough (2006-2009). Budget: Confidential.

33. Principal Investigator, "PRACTICE – An observational, multi-center study exploring treatment outcomes in Hepatitis C patients with low versus high fibrosis and treated with PegIntron® and Rebetol® – Fibrotic status extension" Schering-Plough (2007-2009). Budget: Confidential.
34. Co-Principal Investigator, "IMPROVE – Impact of the publication of the VALUE trial on the treatment of hypertension with valsartan in Belgium: a prospective, observational, multicenter study to determine predictors of clinical outcome in hypertensive patients treated with valsartan". Novartis (2004-2009). K. MacDonald, Principal Investigator. Budget: Confidential.
35. Co-Principal Investigator, "ADVANCE – A prospective, observational, multicenter study to determine the prevalence, predictors, mediators, and outcomes of non-adherence in patients with arterial hypertension on second line treatment with valsartan (Diovane®), including a subpopulation of patients with previously undetected impaired fasting glucose, type 2 diabetes and/or metabolic syndrome". Novartis (2005-2009). K. MacDonald, Principal Investigator. Budget: Confidential.
36. Co-Principal Investigator, "INSIST – A prospective, observational, multicenter study to determine the predictors and outcomes of non-adherence in patients with arterial hypertension being treated with valsartan 160mg / hydrochlorothiazide 25mg (Co-Diovane®160/25)". Novartis (2005-2009). K. MacDonald, Principal Investigator. Budget: Confidential.
37. Co-Principal Investigator, "eNOVA: A prospective, observational, open-label, multi-center pharmacoepidemiologic study of predictors, practice patterns, and clinical outcomes in patients with arterial hypertension receiving a valsartan-based individualized hypertension management program. Novartis (2006-2009). K. MacDonald, Principal Investigator. Budget: Confidential.
38. Principal Investigator, "FExT – A prospective, observational, multicenter study to determine predictors of clinical outcome in patients with Alzheimer's disease treated with rivastigmine". Novartis (2004-2009). Budget: Confidential.
39. Principal Investigator, "Scientific strategy development in specialty therapeutics." Merck (2009). Budget: Confidential.
40. Principal Investigator, "Study options for controlled comparative studies on the treatment with PegIntron® and Rebetol® of dually infected HCV-HIV patients". Schering-Plough (2008-2009). Budget: Confidential.
41. Co-Principal Investigator, "IMPRESS – A prospective, observational, multicenter study to determine predictors of clinical outcome in hypertensive patients treated with valsartan in a private practice setting of specialists". Novartis (2005-2009). K. MacDonald, Principal Investigator. Budget: Confidential.
42. Principal Investigator, "ADAGIO – A prospective, observational, multicenter study to determine the prevalence, predictors, and mediators of non-adherence in patients with chronic myeloid leukemia or gastro-intestinal stromal tumors and treated with imatinib (Glivec®)". Novartis Oncology (2005-2009). Budget: Confidential.
43. Principal Investigator, "Scientific strategy development: effectiveness studies on erythropoiesis-stimulating agents in patients with chronic kidney disease stage III and IV." Roche (2008-2009). Budget: Confidential.

44. Co-Sponsor, "Project GENESIS: Community assessment of a rural Southeastern Arizona Border Community." A. Bennett, Program Director. Arizona Area Health Education Center (2008-2009). Budget: \$5000.
45. Principal Investigator, "RESPOND – Raising awareness of anemia in oncology centers through computer algorithm-driven guidelines – A validation study." Roche (2006-2009). Budget: Confidential.
46. Principal Investigator, "Real-value options analysis in drug development." Strategus Life Sciences (2007-2009). Budget: Confidential.
47. Principal Investigator, "Airport wifi customer satisfaction assessment: Statistical modeling". Frogmetrics & Google (2008). Budget: Confidential.
48. Principal Investigator, "OMEGA – A prospective, observational, open-label, multi-site study combining a pharmaco-epidemiologic substudy of practice patterns, effectiveness outcomes, associated determinants and predictors in propensity-matched patients with Type II diabetes receiving either vildagliptin treatment or standard care; and a pharmacovigilance substudy of an additional cohort of vildagliptin-treated patients." Novartis (2007-2008). Budget: Confidential.
49. Fellow, "Invitational fellowship program for research in Japan." Japan Society for the Promotion of Science (2007-2008).
50. Principal Investigator, "TEAM – Prospective, open-label, multicenter, observational phase IV trial of the effectiveness, safety, and quality of life outcomes of Tarceva® in second-line setting treatment of patients with advanced non-small cell lung cancer." Roche (2007-2008). Budget: Confidential.
51. Principal Investigator, "Study options for examining the effectiveness of a fixed dose combination of amlodipine/valsartan-based individualized hypertension management program." Novartis (2007-2008). Budget: Confidential.
52. Principal Investigator, "Pay-for-performance in ambulatory and tertiary health care". AllScripts Healthcare Solutions (2007-2008). Budget: Confidential.
53. Principal Investigator, "LOT – A prospective, observational, open-label, multi-center, pharmaco-epidemiologic study of the prevalence of non-motor and motor symptoms associated with "end-of-dose-wearing-off" and of predictors, practice patterns, and effectiveness outcomes of second-line treatment with levodopa / carbidopa / entacapone combination therapy in patients with Parkinson's disease." Novartis (2006-2008). Budget: Confidential.
54. Principal Investigator, "A study of the effects of an evidence-based educational intervention on physicians' knowledge, clinical confidence, and practice patterns related to Attention-Deficit Hyperactivity Disorder and the EINAQ guidelines". Novartis (2005-2008). Budget: Confidential.
55. Principal Investigator, "Differential diagnosis in neurodegenerative dementia: A Delphi study of physicians' opinions about the diagnosis and clinical management of various neurodegenerative forms of dementia". Novartis (2005-2008). Budget: Confidential.
56. Co-Principal Investigator, "PREVENT – A prospective, observational, multicenter study to determine predictors of clinical outcome in patients treated with fluvastatin in the secondary prevention of cardiovascular events". Novartis (2004-2008). K. MacDonald, Principal Investigator. Budget: Confidential.

57. Principal Investigator, "Exploratory study of patient- and physician-related factors in the decision to prescribe oral capecitabine in patients with advanced gastric cancer and patients' subsequent adherence with oral chemotherapy." Roche (2007). Budget: Confidential.
58. Principal Investigator, "Density incidence and risk of nosocomial infections." Chang Gung Children's Hospital (Linkong, Taiwan) (2007). Budget: Confidential.
59. Principal Investigator, "Effects of three treatment strategies on anemia and quality of life in patients with solid tumours or lymphoproliferative malignancies: A randomized 3-arm study on active (A) or conventional (C) transfusions or epoetin beta (E). The ACE Study." Roche (2006-2007). Budget: Confidential.
60. Principal Investigator, "Academic and research consultation services". Various universities and healthcare organizations worldwide (1984-2007). Budget: Confidential.
61. Principal Investigator, "REACT - Options analysis for late-stage studies in erythropoiesis stimulating agents in cancer." Roche (2006). Budget: Confidential.
62. Principal Investigator, "A descriptive, cross-sectional, conjoint analysis study of physicians' pharmacotherapeutic preferences for new-onset, controlled, and refractory epilepsy, with special consideration of the integration of best practice guidelines". Novartis (2005-2006). Budget: Confidential.
63. Principal Investigator, "A randomised, open-label, multi-center, multi-country study to investigate the impact of bone marker feedback, patient support program, and control on adherence to once-monthly ibandronate treatment for post-menopausal osteoporosis". Roche (2005-2006). Budget: Confidential.
64. Fellow, "Chang Gung University". National Science Council (Taiwan) (2005-2006).
65. Principal Investigator, "Observational study on the epidemiology of risk factors for onychomycosis in the diabetic patient population". Novartis (2005-2006). Budget: Confidential.
66. Principal Investigator, "Late-stage evidence-based practice support for end stage renal disease". Roche (2005). Budget: Confidential.
67. Principal Investigator, "Evidence-based practice analysis and outcomes in asthma and allergic rhinitis". Merck (2004-2005). Budget: Confidential.
68. Principal Investigator, "Nephrology workforce demand/supply analysis". Roche (2004-2005). Budget: Confidential.
69. Principal Investigator, "Scientific review of the Dialysis Outcomes and Practice Patterns Study (DOPPS)". Amgen (2004-2005). Budget: Confidential.
70. Co-Investigator, "Manual hyperinflation in difficult-to-wean patients". Chang Gung University (2004-2005). K. MacDonald, Principal Investigator. Budget: Confidential.
71. Co-Principal Investigator, "ACT - Anemia care and treatment". Roche (2004-2005). K. MacDonald, Principal Investigator. Budget: Confidential.
72. Principal Investigator, "EDIOM - Evidence-based dialysis interventions and outcomes management". Amgen (2004-2005). Budget: Confidential.
73. Principal Investigator, "BONSSAI - Bonviva® satisfaction and safety investigation". Roche (2004-2005). Budget: Confidential.

74. Co-Investigator, "Adaptation and validity evidence of the 'Modified Transplant Symptom Occurrence and Symptom Distress Scale'". Bristol-Myers Squibb (2003-2005). S. De Geest, Principal Investigator. Budget: Confidential.
75. Co-Investigator, "Rationing of nursing care in Swiss hospitals and its effects on patient outcomes and nurse shortage". Schweizer Bundesamt für Sozialversicherungen (2003-2005). S. De Geest, Principal Investigator. Budget: CHF240,000.
76. Co-Investigator, "The effects of acupuncture in bronchiectasis". Chang Gung University (2004). K. MacDonald, Principal Investigator. Budget: Confidential.
77. Principal Investigator, "PROGRESS – Promoting global research excellence in severe sepsis." Eli Lilly (2002-2003). Budget: Confidential.
78. Principal Investigator, "IRIDIEM – Individual risk-profiling and intervention in diabetic nephropathy". Roche (2002-2003). Budget: Confidential.
79. Principal Investigator, "XPECT – Xigris® program to educate clinicians on treatment in sepsis". Eli Lilly (2002-2003). Budget: Confidential.
80. Principal Investigator, "ROHS – Radiation-oncology hemoglobin survey." Ortho-Biotech/Johnson & Johnson (2002-2003). Budget: Confidential.
81. Principal Investigator, "BEPOS – Belgian erythropoietin survey." Ortho-Biotech/Johnson & Johnson (2002-2003). Budget: Confidential.
82. Principal Investigator, "Alfa2Beta – Outcomes of migrating dialysis patients from IV epoetin alfa to SC epoetin beta." Roche (2002-2003). Budget: Confidential.
83. Principal Investigator, "GNOSIS Remicade® – Knowledge management and synthesis for clinical information scientists". Centocor/Johnson & Johnson (2002-2003). Budget: Confidential.
84. Co-Principal Investigator, "TRASAM – Transplant study of anemia management." Johnson & Johnson (2002-2003). K. MacDonald, Principal Investigator. Budget: Confidential.
85. Principal Investigator, "TRANCEPT – Prospective, two-arm observational, open-label, global surveillance cohort study of clinical outcomes in renal allograft recipients switched at least 6 months post-transplant to long-term immunosuppressive therapy with CellCept® (mycophenolate mofetil) or from CellCept® to an alternative immunosuppressive agent". Roche (2002-2003). Budget: Confidential.
86. Principal Investigator, "Dose escalation of infliximab in nonresponding rheumatoid arthritis patients". Centocor/Johnson & Johnson (2002-2003). Budget: Confidential.
87. Principal Investigator, "STAR – Survey on treatment of anaemia using RHuEPO". Ortho-Biotech/Johnson & Johnson (2001-2003). Budget: Confidential.
88. Principal Investigator, "Measurement of cancer-related fatigue". Ortho-Biotech/Johnson & Johnson (2001-2003). Budget: Confidential.
89. Principal Investigator, "EuroSPK – European study on pancreas and kidney transplant". Roche, Fujisawa, & Wyeth (2001-2003). Budget: Confidential.
90. Co-Investigator, "ECAP – Effect of early correction of anemia on the progression of chronic renal insufficiency". Ortho-Biotech/Johnson & Johnson (2001-2003). K. MacDonald, Principal Investigator. Budget: Confidential.
91. Sponsor, John A. Hartford Foundation, "Building academic geriatric nursing capacity" Scholarship. R. Jablonski, Principal Investigator (2001-2003). Budget: \$100,000.

92. Principal Investigator, "ACAS – Australian Cancer Anemia Survey." Ortho-Biotech/Johnson & Johnson (2001-2003). Budget: Confidential.
93. Principal Investigator, "NICHE data management and statistical analysis coordinating center." New York University (2000-2003). Budget: Confidential.
94. Co-Principal Investigator, R01 "Dyadic vulnerability/risk profiling for elder neglect." National Institute on Aging and National Institute for Nursing Research (2000-2003). T. Fulmer, Principal Investigator. Budget: 1,600,000.
95. Co-sponsor, NRSA "Elder transfer: From nursing homes to emergency departments". National Institute for Nursing Research (2000-2003). R. Jablonski, Principal Investigator. Budget: \$80,000.
96. Principal Investigator, "ECAS – European cancer anemia survey". Ortho-Biotech/Johnson & Johnson (1999-2003). Budget: Confidential.
97. Principal Investigator, "ZENIT – Single-arm, non-comparative, open-label, pilot study of Zenapax® in combination with CellCept®, and reduced doses of tacrolimus and steroids in the prevention of acute rejection in renal allograft recipients. Roche (1998-2003). Budget: Confidential.
98. Principal Investigator, "Competitive analysis of UlcoDress Plus Hydrogel wound dressing". Xcellentis (2002). Budget: Confidential.
99. Principal Investigator, "Weight distributions in cancer patients". Johnson & Johnson (2002). Budget: Confidential.
100. Co-Principal Investigator, "Blood transfusion and blood management in trauma patients". Johnson & Johnson (2002). K. MacDonald, Principal Investigator. Budget: Confidential.
101. Principal Investigator, "SOAP – Sepsis occurrence in acutely ill patients". Abbott, Eli Lilly, Baxter BioScience, GlaxoSmithKline, NovoNordisk (2001-2002). Budget: Confidential.
102. Co-Investigator, "Effect of intravenous versus subcutaneous epoetin administration on epoetin dose and resulting hemoglobin levels". Johnson & Johnson (2001-2002). K. MacDonald, Principal Investigator. Budget: Confidential.
103. Principal Investigator, "Therapeutic benefit vs. side effect profiles of novel antipsychotic agents." Janssen Pharmaceutica/Johnson & Johnson (2001-2002). Budget: Confidential.
104. Principal Investigator, "GNOSiS – Knowledge management and synthesis for health sciences associates". Merck (2001-2002). Budget: Confidential.
105. Principal Investigator, "Performance-based per-patient-pricing study". Johnson & Johnson (2001-2002). Budget: Confidential.
106. Principal Investigator, "Improving health outcomes in schizophrenia". Pfizer (2001-2002). Budget: Confidential.
107. Principal Investigator, "Empirically-derived sampling methodology for head-to-head study in the hemodialysis population". Johnson & Johnson (2001-2002). Budget: Confidential.
108. Co-Investigator, "RACM&M – Role of anemia in cardiovascular mortality and morbidity in transplant patients". Ortho-Biotech/Johnson & Johnson (2000-2002). K. MacDonald, Principal Investigator. Budget: Confidential.

109. Co-investigator, "TRESAM – Transplant European survey on anemia management." Ortho-Biotech/Johnson & Johnson (2000-2002). K. MacDonald, Principal Investigator. Budget: Confidential.
110. Co-Investigator, "ECAM/APEX – Electronic clinical anemia management". Ortho-Biotech/Johnson & Johnson (2000-2002). K. MacDonald, Principal Investigator. Budget: Confidential.
111. Principal Investigator, "Cancer fatigue study". Ortho-Biotech/Johnson & Johnson (2000-2002). Budget: Confidential.
112. Principal Investigator, "ACAS – Australian cancer anemia study". Ortho-Biotech/Johnson & Johnson (2000-2002). Budget: Confidential.
113. Principal Investigator, "Observational study of opioid use for nonmalignant pain in primary care". Ortho-Biotech/Johnson & Johnson (2000-2002). Budget: Confidential.
114. Co-Investigator, "Epoetin sensitivity study". Ortho-Biotech/Johnson & Johnson (2000-2002). K. MacDonald, Principal Investigator. Budget: Confidential.
115. Co-Investigator, "ERIRS – Early renal insufficiency referral survey." Ortho-Biotech/Johnson & Johnson (2000-2002). K. MacDonald, Principal Investigator. Budget: Confidential.
116. Co-Principal Investigator, "PRESAM – Predialysis survey on anemia management". Ortho-Biotech/Johnson & Johnson (1999-2002). K. MacDonald, Principal Investigator. Budget: Confidential.
117. Principal Investigator, "ABC – Anemia and blood management in critically ill patients". Ortho-Biotech/Johnson & Johnson (1999-2002). Budget: Confidential.
118. Principal Investigator, "OSTHEO – Orthopedic surgery transfusion hemoglobin European overview". Ortho-Biotech/Johnson & Johnson (1999-2002). Budget: Confidential.
119. Principal Investigator, "Evidence-based anemia management". Johnson & Johnson (2000-2001). Budget: Confidential.
120. Principal Investigator, "Global health metrics". Ortho-Biotech/Johnson & Johnson (2000-2001). Budget: Confidential.
121. Principal Investigator, "GSAM – Global survey on anemia management". Ortho-Biotech/Johnson & Johnson (1999-2001). Budget: Confidential.
122. Advisor, "Appalachian Rural Outreach Primary Care Nursing Center". US Department of Health and Human Services (1998-2001). S. Reel, Principal Investigator. Budget: Confidential.
123. Principal Investigator, "Anemia management: weekly epoetin dosing". Ortho-Biotech/Johnson & Johnson (2000). Budget: Confidential.
124. Principal Investigator, "ASAM – Australian survey on anemia management". Ortho-Biotech/Johnson & Johnson (1999-2000). Budget: Confidential.
125. Principal Investigator, "Renal anemia management". Ortho-Biotech/Johnson & Johnson (1999-2000). Budget: Confidential.
126. Principal Investigator, "ESAM – European survey on anaemia management". Johnson & Johnson (1998-2000). Budget: Confidential.
127. Principal Investigator, "Infrastructure and processes for clinical information and knowledge management in a multi-hospital system". Mercy Health Systems (1998-2000). Budget: Confidential.

128. Sponsor, K01 "Outcomes among elders using a community-based program". National Institute for Nursing Research (1997-2000). J. Neese, Principal Investigator. Budget: \$249,020.
129. Co-Sponsor, NRSA F31 "An Empirical Test of the Epidemiology of Health." Individual Pre-doctoral National Research Service Award (1997-1998). K. MacDonald, Principal Investigator, National Institute for Nursing Research..
130. Co-Investigator, "Case management for psychiatric patients". Belgian Ministry of Public Health (1998-1999). L. Hillewaere, Principal Investigator. Budget: BEF4, 000,000.
131. Principal Investigator, "National implementation of hospital-based case and discharge management for geriatric patients". Belgian Ministry of Public Health (1996-1999). Budget: BEF42,000,000.
132. Principal Investigator, "Performance measurement." Joint Commission on Accreditation of Healthcare Organizations (1995-1999). Budget: Confidential.
133. Principal Investigator, "Litigation support program - acute and long-term care geriatrics." Various legal firms (1992-1999). Budget: Confidential.
134. Co-Investigator, "Nurses improving care for hospitalized elderly". John A. Hartford Foundation (1995-1998). M. Mezey, Principal Investigator. Budget: \$750,397.
135. Principal Investigator, "Strategic and operational consultation." Commission on Graduates of Foreign Nursing Schools (1997). Budget: Confidential.
136. Co-sponsor, "Academic Investigator Award--Midlife." National Center for Nursing Research (1994-1997). G. Glazer, Principal Investigator. Budget: \$223,863.
137. Principal Investigator, "Strategic and scientific support for indicator development and performance measurement in academic medical centers". University HealthSystem Consortium (1994-1997). Budget: Confidential.
138. Co-Principal Investigator, P50 "Southeastern Rural Mental Health Research Center". National Institute of Mental Health (1992-1997). J. Fox, Principal Investigator. Budget: \$1,249,069.
139. Co-Sponsor, K07 "Hallucinations in patients with macular degeneration." National Institute of Mental Health (1992-1997). S. Holroyd, Principal Investigator. Budget: per program.
140. Co-Investigator, "Symptom frequency and symptom distress associated with immunosuppressive therapy in transplant patients". International Transplant Nurses Society (1994-1996). S. De Geest, Principal Investigator. Budget: \$2,500.
141. Principal Investigator, "Case management for psychogeriatric patients". Belgian Ministry of Public Health (1994-1996). Budget: BEF14,000,000
142. Principal Investigator, "Geriatric service center". University of Virginia Medical Center (1994-1996). Budget: \$270,000.
143. Principal Investigator, "Project CARE: Care advocacy for rural elderly". Pew Charitable Trusts (1992-1995). Budget: \$531,000.
144. Principal Investigator, "Rural elder outreach program". University of Virginia Medical Center (1993-1995). Budget: \$91,658.
145. Principal Investigator, "Mental health indicator development." Joint Commission on Accreditation of Healthcare Organizations (1992-1995). Budget: Confidential.

146. Faculty, T36 "Psychiatric and family nurse practitioner program". National Institute of Mental Health (1992-1995). E. Hauenstein, Program Director. Budget: \$148,500.
147. Co-Sponsor, K07 "Glucose enhancement of cognition in patients with dementia." National Institute of Mental Health (1991-1996). C. Manning, Principal Investigator. Budget: per program.
148. Principal Investigator, "The Jefferson area rural elder health outreach program". The. W. K. Kellogg Foundation (1990-1995). Budget: \$1,117,791.
149. Principal Investigator, "University of Virginia Center on Aging and Health". Academic Enhancement Program, Board of Visitors, University of Virginia (1991-1994) and Dean of Medicine Research Fund (1994-1995). Budget: \$245,000.
150. Principal Investigator, "Strategic planning for healthcare information and knowledge institute". First Consulting Group (1993-1994). Budget: Confidential.
151. Sponsor, NRSA "Service utilization by rural elderly". National Center for Nursing Research (1992-1994). J. Neese, Principal Investigator. Budget: \$30,933.
152. Site Coordinator, "Dissemination of the Hospital Outcomes Project for the Elderly". John A. Hartford Foundation (1992-1994). T. Fulmer & M. Mezey, Principal Investigators. Budget: \$300,470.
153. Contract, "Invitational conference on geropsychiatric nursing". National Institute of Mental Health (1993). Budget: \$8,991.
154. Co-Investigator, "Rural aging and long-term care: Medical issues preceptorship program for Congressional staff". Council of Medical Specialty Societies (1992-1993). G. Walker, Program Director. Budget: \$20,000.
155. Contract, "A quantitative analysis of nursing research (1981-1990)". National Center for Nursing Research (1992). Budget: \$558.
156. Contract, "Practical orientation to time series analysis". National Center for Nursing Research (1992). Budget: \$716.
157. Co-Program Director, T36 "Multidisciplinary training in schizophrenia and psychogeriatrics". National Institute of Mental Health (1989-1992). J. Fox, Program Director. Budget: \$408,628.
158. Co-Principal Investigator, "Research development - rural mental health research center". Research Fund of the Vice President for Health Sciences (1990-1991). J. Fox, Principal Investigator. Budget: \$7,500.
159. Director, Research and Evaluation, "Institute on community integration of the long-term mentally ill". National Institute of Mental Health (1988-1991). J. Fox, Principal Investigator. Budget: \$189,530.
160. Co-Investigator, "Long-term rehabilitation of the severely mentally ill". U.S. Department of Education (1988-1991). J. Fox, Principal Investigator. Budget: \$632,732.
161. Section Coordinator, Nursing and Psychotherapy "Multidisciplinary fellowship program in geriatric neuropsychiatry". Virginia Department of Mental Health, Mental Retardation, and Substance Abuse Services (1987-1991). L. Sutker, Program Director. Budget: \$200,000.
162. Principal Investigator, "Communications equipment for the Jefferson area rural elder outreach program". Centel Corp. (1990). Budget: \$2,000.

163. Principal Investigator, R01 "Nursing treatments for depressed aged in long-term care". National Center for Nursing Research (1987-1989). Budget: \$228,825.
164. Co-Principal Investigator, R01 "Aged cohort comparison in an acute psychiatric facility". National Institute of Mental Health (1987-1988). M. Wykle, Principal Investigator. Budget: \$58,863.
165. Principal Investigator, "Research and quality improvement in nursing services." Cleveland Clinic Foundation (1986-1988). Budget: Confidential.
166. Principal Investigator, "Hospital information systems planning and development." University of Pennsylvania Health System (1986-1988). Budget: Confidential.
167. Co-Investigator, "Treatment program for residents of boarding homes". The Cleveland Foundation (1986-1988). K. Clement, Program Director. Budget: \$100,000.
168. Faculty & Research Scientist, "Decision analysis research and teaching program". The Cleveland Foundation (1985-1988). D. Neuhauser, Principal Investigator. Budget: \$125,000.
169. Program Director, "Biomedical Research Support Grant". National Institutes of Health (1985-1988). Budget: \$56,337.
170. Co-Investigator, "HL-7 Standards: An application protocol for electronic data exchange in health care environments". Various corporations (1986-1988). S. Schultz & D. Simborg, Co-Principal Investigators. Budget: Confidential.
171. Faculty, P50 "Teaching nursing home project". National Institute on Aging (1983-1988). A. Ford, Principal Investigator. Budget: \$4,847,430.
172. Principal Investigator, "Information management and clinical decision support in outpatient psychiatry." Psychiatric Services of Cleveland (1986-1987). Budget: Confidential.
173. Principal Investigator, "Research development program". Lake Erie Hospital Consortium for Nursing Research (1986-1987). Budget: \$15,000.
174. Research Coordinator, "Teaching nursing home grant". Robert Wood Johnson Foundation (1984-1987). M. Wykle, Principal Investigator. Budget: \$429,672.
175. Statistician, "Advanced training in nurse-midwifery". Division of Nursing, USDHHS (1984-1987). C. Andrews, Program Director. Budget: \$534,146.
176. Statistician, K07 "Geriatric mental health academic award". M. Wykle, Principal Investigator. National Institute of Mental Health (1984-1987). Budget: \$138,276.
177. Statistician (1984-1985) and Co-Principal Investigator (1985-1986), R21 "Nursing research emphasis grant for doctoral programs in nursing". Division of Nursing, USDHHS (1983-1987). Budget: \$213,563.
178. Principal Investigator, "Clinical decision support in nursing." William Beaumont Hospital (1985-1987). Budget: Confidential.
179. Principal Investigator, "Nursing information systems planning and development." Hospital Corporation of America (1984-1985). Budget: Confidential.
180. Co-Investigator, "Northeast Ohio Multipurpose Arthritis Center". R. Moskowitz, Principal Investigator. National Institutes of Health (1984-1988). Budget: \$4,678,983.
181. Program Director, R21 "Reality orientation: A meta-analysis of determinants and interventions". Component grant of NRE/DPN grant, Division of Nursing, USDHHS (1984-1985). J. Fitzpatrick, Principal Investigator. Budget: \$9,605.

182. Principal Investigator, "Social-cognitive determinants of clinical inference in mental health". University of Michigan Dissertation Grants Program (1983-1984). Budget: \$1,237.

SCIENTIFIC REVIEW APPOINTMENTS

- Member, Review Panel Oncology, Agència d'Informació, Avaluació i Qualitat en Salut (Catalan Agency for Health Information, Assessment, and Quality) (2013-present)
- Member, Health Technology Assessment Panel, Nederlandse Organisatie voor Gezondheidsonderzoek en Zorginnovatie (The Netherlands Organisation for Health Research and Care Innovation (2010-present)
- Member, Scientific Advisory Board, Innovative Medicines Initiative Joint Undertaking, European Union and European Federation of Pharmaceutical Industries and Associations (2008-present)
- Member, Scientific Merit Review Board (Care of Complex Chronic Conditions Panel), U.S. Department of Veterans Administration, Office of Research and Development, Health Services Research and Development (2008-present)
- Member, European Union Expert Panel on Health Care, Seventh Framework Program, Directorate General for Research (2007-2012)
- Member, Arizona Area Health Education Center Grant Reviews (2007)
- Member, Special Review Section, Small Business Innovation Research Grants, Agency for Health Care Policy and Research (2000)
- Member, Mental Disorders of the Aging Review Committee, National Institute of Mental Health (1994-1997)
- Ad Hoc External Reviewer, Scientific Review Committee, Alberta Foundation for Nursing Research (1993)
- Ad Hoc Reviewer, Mental Disorders of the Aging Review Committee, National Institute of Mental Health (1992-1994)
- Reviewer, Retirement Research Foundation (1993)
- National Reviewers Reserve, National Institutes of Health (1991-1995)
- Member and Alternate Chair, Special Review Sections, Artificial Intelligence, Mathematics and Biostatistics, National Institutes of Health (1986-1994)
- Chair, Special Review Sections, Small Business Innovation Research Grants, Nursing and Healthcare Informatics, National Institutes of Health (1987-1994)
- Charter Member, Nursing Research Study Section, National Institutes of Health (1987-1991)
- Member and Alternate Chair, Ad Hoc Geriatrics and Gerontology Review Committee on Falls Prevention, National Institute on Aging (1989)
- Collateral Reviewer, National Center for Health Services Research and Health Care Technology Assessment (1989)

- Member, Ad Hoc Nursing Research Study Section, National Institutes of Health (1986-1987)
- Member, Ad Hoc Mental Health Education Review Committee, National Institute of Mental Health (1986)
- Member, Ad Hoc Nursing Research Review Group, Division of Nursing, USDHHS (1985)

SELECTED PROFESSIONAL AND SCIENTIFIC SERVICE

EDITORIAL SERVICE

EDITORSHIPS

- Associate Editor, Health Services Research, *BMC Geriatrics* (2012-2014)
- Editor, Nursing, *Scientifica* (2012-2014)
- Editor, *Nursing Research and Practice* (2009-2014)
- Editor, Technical Notes Department, *Western Journal of Nursing Research* (1993-1997)
- Consulting Editor, *Annals of Behavioral Medicine* (1993-1997)

EDITORIAL BOARDS

- Editorial Board, *Hematology and Leukemia* (2012-present)
- Editorial Board, *World Journal of Hematology* (2011-present)
- National Advisory Panel, *Issues in Gerontological Nursing* (1993-1997)
- Editorial Board, *Issues in Mental Health Nursing* (1989-2003)
- Editorial Board, *Applied Nursing Research* (1987-1990)
- Editorial Advisory Board, *Advances in Nursing Science* (1986-1990)
- Consulting Reviewers Board (Nursing), *Journal of Social Behavior and Personality* (1985-1989)

REFEREE

Acta Haematologica
 Acta Hospitalia
 Advances in Nursing Science
 American Journal of Geriatric Psychiatry
 Annals of Behavioral Medicine
 Annals of Hematology
 Annals of Oncology
 Annals of Pharmacotherapy
 Annual Review of Nursing Research
 Applied Nursing Research
 Archives of Cardiovascular Diseases
 Archives of Internal Medicine
 Archives of Psychiatric Nursing
 BMC Geriatrics
 BMC Public Health
 British Journal of Cancer

British Medical Journal
BMJ Open
Clinical Epidemiology
Clinical Interventions in Aging
ClinicoEconomics and Outcomes Research
Comparative Effectiveness Research
Drugs
Drugs and Aging
Drug Safety
Expert Opinion on Drug Safety
European Journal of Haematology
International Journal of Clinical Pharmacy
International Journal of Clinical Reviews
International Journal of Bio-Medical Computing
International Journal of Geriatric Psychiatry
International Psychogeriatrics
Issues in Gerontological Nursing
Issues in Mental Health Nursing
Journal of Aging and Health
Journal of Clinical and Social Psychology
Journal of Clinical Medicine and Research
Journal of Medical Economics
Journal of Nursing Scholarship
Journal of Rural Health
Journal of Social Behavior and Personality
Journal of the American Medical Informatics Association
L'Année Gérontologique
MedInfo
Nursing Diagnosis
Nursing Outlook
Nursing Practice and Research
Nursing Research
Patient Preference and Adherence
Perceptual and Motor Skills
Pharmacy
Pragmatic and Observational Research
Preventive Medicine
Proceedings of the American Association for Medical Systems and Informatics
Proceedings of the Symposium on Computer Applications in Medical Care
Psychiatrie en Verpleging
Psychological Reports
Public Health Reports
Research in Nursing and Health
Supportive Care in Cancer
Therapeutics and Clinical Risk Management
Tijdschrift voor Verpleegkunde
Verpleegkunde
Verpleegkundigen en Gemeenschapszorg
Western Journal of Nursing Research

EXTERNAL APPOINTMENT/TENURE/PROMOTION REVIEWER

Rutgers University
State University of New York at Buffalo
University of Pittsburgh
University of South Carolina
Kent State University
University of Florida
University of Maine
Villanova University
Pennsylvania State University
University of British Columbia
Old Dominion University
University of Pennsylvania
Vanderbilt University
University of Michigan
University of Minnesota
Universität Basel

SELECTED ORGANIZATIONAL SERVICE

- Member, Advisory Board on Differential Pricing to Improve Access and Affordability of Medicines, Johnson & Johnson (2010)
- Chair, External Review Committee, Center for Health Outcomes and Policy Research, University of Pennsylvania (2008)
- Chair, International Advisory Board, Institute of Nursing Science, University of Basel, Basel, Switzerland (2000-2006)
- Chair, External Evaluation Committee, Center for Health Outcomes and Policy Research, University of Pennsylvania (2003)
- Member, Council on Performance Measurement, Joint Commission on Accreditation of Healthcare Organizations, Oakbrook, IL (1995-1998)
- Member of the Board, Commission on Graduates of Foreign Nursing Schools, Philadelphia, PA (1996-1997)
- Member, Research and Evaluation Committee (1994-1996), Commission on Graduates of Foreign Nursing Schools, Philadelphia, PA
- Member, Mental Health Indicators Task Force, Joint Commission on Accreditation of Healthcare Organizations, Oakbrook, IL (1992-1995)
- Chair, Task Force on Computers in Nursing Research, American Nurses' Association, Kansas City, MO (1986-1992)
- Member, Executive Committee, Council on Computer Applications in Nursing, American Nurses' Association, Kansas City, MO (1985-1987)
- Member, Task Force on Information Resources and Services, American Nurses' Association, Kansas City, MO (1986-1987)
- Member, Governing Board, Midwest Nursing Research Society (1986-1988)
- Secretary, Health Level 7 (HL-7) Working Group, Philadelphia, PA (1987-1989)

HONORS & AWARDS⁴

- Sigma Theta Tau, Nursing Honor Society, 1981
- Sigma Xi, Scientific Research Society, 1985
- Distinguished Lecturer, University of South Carolina, 1987
- Fellow, American Orthopsychiatric Association, 1988
- American Journal of Nursing Book of the Year Award (Research), 1989 [I. Abraham, D. Nadzam, & J. Fitzpatrick (Eds.) (1989). *Statistics and quantitative methods in nursing: Issues and strategies for research and education*. Philadelphia, PA: W.B. Saunders].⁵
- Fellow, American Academy of Nursing, 1991
- LaVerne Gallmann Distinguished Lecture in Nursing, University of Texas at Austin, 1993
- Exemplary Educational Program Award, National Alliance for the Mentally Ill, 1993⁵
- Graduation Speaker, Leuven University College, Associatie Katholieke Universiteit (Leuven, Belgium), 1994
- Stadlanders/International Transplant Nursing Society Excellence in Nursing Research Award (S. De Geest, P. Moons, H. Vlamincx, I. Abraham: "Symptom frequency and symptom distress with immunosuppressive therapy in transplant recipients"), 1994.⁵
- Distinguished Contribution to Nursing Scholarship, New York University, 1996
- Pioneer Award, HL-7 International, 1996
- American Heart Association, Cardiovascular Nursing Council. Second Place, New Investigator's Award [S. De Geest, I. Abraham, J. Dunbar-Jacob, J. Van Haecke: "The significance of noncompliance in the etiology of acute rejections in the heart transplant population"], 1997⁵
- Dean's Lectureship, University of Pennsylvania, School of Nursing, 2003
- American Journal of Nursing Book of the Year Award (Gerontology), 2004 [M. Mezey, T. Fulmer, I. Abraham, & D. Zwicker, D. (Eds.) (2003). *Geriatric nursing protocols for best practice* (2nd revised edition). New York, NY: Springer].⁵
- National Science Council, Taiwan, Visiting Professorship, Chang Gung University, 2005-2006
- Scientific Best Practice Citation in Hypertension Research, Novartis, 2006⁵
- Distinguished Lectureship, University of Arizona College of Nursing, 2006
- Anna Reynvaan Scientific Prize (Amsterdam, The Netherlands), 2007 [E. Steeman, P. Moons, K. Milisen, N. De Bal, S. Geest, C. de Froidmont, V. Tellier, C. Gosset, I. Abraham. Implementation of discharge management for geriatric patients at risk for readmission and institutionalization. *International Journal for Quality in Health Care*, 2006, 18, 352-358.].⁵
- Japan Society for the Promotion of Science, Invitational Fellowship for Research in Japan, 2007-2008
- Scientific Best Practice Citation in Oncology/Hematology Research, Novartis, 2008⁵

⁴ Not cited are various commercial biographic awards (e.g., Who's Who) and invited addresses and keynotes, unless named and/or endowed.

⁵ Collective award

- Best Poster, Annual Scientific Conference and Provider Exhibition, Belgian Association of Pharmaceutical Physicians (Brussels, Belgium), 2010. [R. Lins, H. Brié, C. Hermans, K. MacDonald, Y.-M. Shen, C. Lee, A. Aerts, S. Vancayzeele, N. Mecum, I. Abraham. Hierarchical modeling of blood pressure and total cardiovascular risk in patients with hypertension treated with amlodipine-valsartan single-pill combinations (EXCELLENT study)].⁵
- Jubiläum Festrede, 10 Jahre Institut für Pflegewissenschaft an der Universität Basel, (Basel, Switzerland), 2010.
- Scientific Best Practice Citation in Respiratory Research, Novartis, 2010⁵
- Pharmacy Practice Research Award, American Healthsystem Pharmacy Research and Education Foundation, 2011. [Chisholm-Burns, M.A., Lee, J.K., Spivey, C.A., Slack, M., Herrier, R., Hall-Lipsy, E., Zivin, J.G., Abraham, I., Palmer, J., Martin, J.R., Kramer, S.S., & Wunz, T. (2010). U.S. pharmacists' effect as team members on patient care: Systematic review and meta-analyses. *Medical Care*, 48, 923-933]⁵

LICENSURE

Registered Nurse (equiv.), Belgium, 1979 (by qualification)
 Registered Nurse, Michigan, 1982 (by exam)
 Registered Nurse, Ohio, 1984 (by endorsement)
 Registered Nurse, Virginia, 1989 (by endorsement)
 Registered Nurse, Nurse Licensure Compact states, incl. Arizona (by compact)
 Clinical Nurse Specialist, Virginia, 1990 (inactive)

LANGUAGE PROFICIENCY

Language	Reading	Speaking	Writing
Dutch (native)	Fluent	Fluent	Fluent
French	Fluent	Fluent	Average
English	Fluent	Fluent	Fluent
German	Average	Average	Limited

Disclosure and Acknowledgment: I certify that, to the best of my knowledge, the information contained in this Curriculum Vitae is accurate.

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