

## Curriculum Vitae

### Dawn Dowding, PhD, RN (previously Lamond)

Columbia University School of Nursing  
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New York, NY 10001

1. Prepared 2<sup>nd</sup> June 2017

## 2. PERSONAL DATA

Birthplace: Hertford, UK  
Citizenship: United Kingdom

### Contact Information

Office: 1-212-342-3843 or 1-212-290-6465 (office)  
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## 3. ACADEMIC APPOINTMENTS, HOSPITAL APPOINTMENTS

ACADEMIC APPOINTMENTS		
DATES	INSTITUTIONS	POSITIONS
Sept 2013-present	Columbia University School of Nursing, New York	Professor of Nursing at CUMC
Sept 2013-present	Visiting Nurse Service of New York, New York	Professor of Nursing
June 2016 – present	School of Nursing, Midwifery and Social Work, University of Manchester, UK	Honorary Professor
March 2014-present	School of Nursing and Allied Health, Liverpool John Moores University, UK	Visiting Professor
Sept 2013- August 2016	School of Healthcare, University of Leeds, UK	Honorary Professor
Sept 2010- August 2013	School of Healthcare, University of Leeds, UK	Professor of Applied Health Research
Feb 2003- Sept 2010	Hull York Medical School and Department of Health Sciences, University of York, UK	Senior Lecturer in Clinical Decision Making
June 2001- Jan 2003	Nursing, Midwifery and Allied Health Professionals Research Unit, University of Stirling, UK	Program Leader
Jan 1997- May 2001	Department of Nursing and Midwifery, University of Stirling, UK	Lecturer
Oct 1992- Jan 1997	Department of Nursing and Midwifery, University of Surrey, UK	Research Fellow

CLINICAL APPOINTMENTS		
DATES	INSTITUTIONS	POSITIONS
Jan – Oct 1992	St. George's Hospital, London, UK	Staff Nurse, ICU
Jan 1991- Jan 1992	St. Bartholomew's Hospital, London, UK	Staff Nurse, Acute Admissions Unit

#### 4. EDUCATION

DATE	INSTITUTION	DEGREE/ QUALIFICATION	AREA
Feb 1994-June 1998	University of Surrey, Guildford, UK	PhD	Nursing and Psychology
Sept 1986 – Jan 1991	St. Bartholomew's College of Nursing and Midwifery	RN	Adult Nursing
Sept 1987-June 1990	City University, London, UK	BSc(Hons)	Psychology and Nursing Studies

**Dissertation:** Information Processing and Handover: An Investigation, 1998. Supervisors: Rosemary Crow, PhD and Jonathan Chase, PhD

Citation: Lamond D. Information processing and handover: an investigation. University of Surrey, 1998. Ethos ID: <http://ethos.bl.uk/OrderDetails.do?uin=uk.bl.ethos.241801>

#### 5. TRAINING

None

#### 6. GAPS IN WORK/TRAINING/EDUCATION

None

#### 7. LICENSURE AND BOARD CERTIFICATION

Nursing and Midwifery Council (UK), Registered Nurse #86Y1478E, (since January 1991)

#### 8. HONORS AND AWARDS

2016 Elected Fellow, American Academy of Nursing  
 2014 Elected Fellow, New York Academy of Medicine  
 2009-2010 Harkness Fellow in Health Care Policy and Practice, Kaiser Permanente, California

#### 9. ACADEMIC SERVICE

June 2016 – present Member, Committee on Admissions, Columbia University School of Nursing

Jan 2014 – present: Chair (2015-2016) and member, Qualifying Exam Committee, Columbia University School of Nursing

Sept 2014-Aug 2015: Member, Diversity Committee, Columbia University School of Nursing

- Sept 2013 – present: Member, Committee on Advancement and Promotion, Columbia University School of Nursing
- Jan - July 2013: Director of Research and Innovation, School of Healthcare, University of Leeds, UK
- Sept 2012- Aug 2013: Member, Research Committee, Faculty of Medicine and Health, University of Leeds, UK
- Sept 2011 – Aug 2013: Member, University Senate, University of Leeds, UK
- Sept 2011 – Dec 2012: Post Graduate Research Tutor, School of Healthcare, University of Leeds, UK
- Sept 2011 – Dec 2012: Member, Post Graduate Research Student Committee, Faculty of Medicine and Health, University of Leeds, UK
- Sept 2010-Aug 2013: Chair (Jan 2013-Aug 2013) and member, Research and Innovation Committee, School of Healthcare, University of Leeds
- Sept 2003 – June 2009: Chair (Sept 2008 – June 2009) and member, Ethics Committee, Department of Health Sciences, University of York, UK
- Sept 2008 – June 2009: Member, Ethics Committee, Hull York Medical School, UK
- Sept 2004 – June 2009: Member, Fitness to Practice Committee, Hull York Medical School, UK
- Sept 2007 – June 2009: Chair, Theme Examination Committee, Hull York Medical School, UK

## 10. PROFESSIONAL ORGANIZATIONS AND SOCIETIES

### Memberships and Positions

- 2014- present: Eastern Nursing Research Society
- 2013- present: Academy Health (member)
- 2012- 2013: UK Representative, International Medical Informatics Association  
Nursing Informatics Group
- 2009- present: American Medical Informatics Association (member)
- 2010-2013: Executive Committee Member, British Computer Society Nursing Specialist Group
- 1991- present: Royal College of Nursing (UK)

### Consultative

- Jan 2016 – present: Member, Diana Forsythe Award Committee, American Medical Informatics Association
- Nov 2014- present: Member, Biomedical Computing and Health informatics Study Section, Center for Scientific Review, NIH
- June 2014 - present: Member, National Quality Forum Person and Family Centred Care Steering Committee
- Jan 2014- Dec 2015: Member, Finance Committee, American Medical Informatics Association
- Nov 2013- present: Member, Alliance for Home Health Quality and Innovation (AHHQI), Research Work Group

Jan 2012 – June 2013 Panel Member, National Institute for Health Research, Health Services & Delivery Research, Researcher Led Programme (UK)  
 2010-2013 Deputy Chair (August 2012- June 2013) and member, National Nursing Informatics Strategic Taskforce (UK)  
 July 2008- June 2009: Member, North Yorkshire Alliance Research Governance Committee  
 Jan 2005 - June 2008: Member, Scarborough Research Governance Committee  
 May 2000-March 2002: Member, National Board for Nursing, Midwifery and Health Visiting for Scotland Research and Development Committee

### Journal Reviewer

- Worldviews on Evidence Based Nursing
- Implementation Science
- Journal of the American Medical Informatics Association
- International Journal of Nursing Studies
- Informatics in Health and Social Care
- BMC Health Services Research
- BMC Medical Informatics and Decision Making
- Journal of Advanced Nursing
- Sage Open
- BMJ Open
- American Heart Journal
- Health Care Management Review

### Editorial Board

June 2014- present International Editorial Advisory Board, Worldviews on Evidence-Based Nursing  
 Sept 2011- present Editorial Board, Implementation Science  
 2002-2009 Clinical Editor, Nursing Times

### Grant Reviewer:

- American Institute of Biological Sciences (on behalf of the US Army Medical Research and Materiel Command);
- National Institute of Health Research, Programme Grants for Applied Research, UK;
- National Institute of Health Research, Health Technology Assessment, UK;
- National Institute of Health Research, Health Services Research & Delivery programme, UK;
- Health Research Board, Ireland;
- Israel National Institute for Health Policy & Health Services Research;
- Hospital for Special Surgery, New York;
- Netherlands Organisation for Health Research and Development;
- Breast Cancer Now, UK;
- Ontario Ministry of Research and Innovation, Canada;
- Puerto Rico Science, Technology and Research Trust

## 11. FELLOWSHIP AND GRANT SUPPORT

### Pending

NIHR HS & DR 16/04/06

Randell, Rebecca (PI)

10/01/2017-09/01/2020

QualDash: Designing and evaluating an interactive dashboard to improve quality of care

Role: Co-Investigator (5% effort)

**Ongoing Research Support**

R01 HL136753, NIH/NHLBI

Bruzzese, Jean-Marie (PI)

4/1/2017-3/31/2022.

Translating an Evidence-based Urban Asthma Program for Rural Adolescents: Testing Effectiveness & Cost-Effectiveness and Understanding Factors Associated with Implementation.

Role: Co-Investigator (5% effort)

1P30NR016587-01: Precision in Symptom Self-Management (PriSSM) Center. NINR. 7/1/2016-6/30/21. \$1,750,000. PI: Bakken (contact), Hickey.

Role: Co-Investigator (10% effort)

1R01NR015466-01: Infection Control in Home Care and Predictive Risk Modeling. AHRQ.

07/01/2016-06/30/2019. PI: Shang

Role: Co- Investigator (15% effort)

2 T32 NR007969-16, NIH/NINR

Bakken, Susan (PI)

07/01/17-06/30/22

Reducing Health Disparities through Informatics.

Role: Co-Director (10% effort)

**Completed Research Support**

Improving pressure ulcer prevention and management in long term care.

Elderly Health Promotion Inc. 01/0702016-31/05/2017. \$50,112.

Role: Principal Investigator (15% effort)

1R21HS023855-01A1: Development of Dashboards to Provide Feedback to Home Care Nurses. AHRQ. 09/30/2015 – 03/31/2017. \$300,000

Role: Principal Investigator (20% effort)

Assessment of Sexual Orientation & Gender Identity in Home Health Care. Columbia University School of Nursing, Intramural pilot grant. 9/1/2014-8/31/2016. \$10,000.

Co-Investigator (5% effort).

A realist process evaluation of robotic surgery: integration into routine practice and impacts on communication, collaboration and decision making. National Institute for Health Research, Health Services and Delivery Research Programme. Grant awarded April 2013. £532,613. Co-Investigator (5 % effort)

The detection and management of pain in patients with dementia in acute care settings: development of a decision tool. National Institute for Health Research, Health Services and Delivery Research Programme. Grant awarded March 2012. £893,595. Principal Investigator (until July 2013), Co-investigator (July 2013 – onwards).

The effect of the implementation of an Electronic Health Record on nursing sensitive patient outcomes. Harkness Fellowship in Health Care Policy and Practice. The Commonwealth Fund. August 2009 – July 2010. \$107,000. Principal Investigator.

The development of a decision tool to improve the management of urinary incontinence in women in the community. National Institute for Health Research, Research for Patient Benefit. £249,576. Grant awarded December 2008. Principal Investigator.

Diagnosis and Management of venous thromboembolism (VTE) in patients with advanced cancer: how do physicians decide? National Institute for Health Research, Research for Patient Benefit. £212,008. Grant awarded December 2008. Co-principal investigator.

The decision making of heart failure specialist nurses. HYMS Pump Priming Award. £29,643. Grant awarded December 2004. Principal Investigator.

A cluster randomised trial to investigate the use of a decision aid for the diagnosis of labour in term pregnancy. Chief Scientist Office, Scottish Executive. £201,000. Grant awarded October 2004. Co-Investigator.

How do nurses use new technologies to inform decision making? Department of Health. £254,000. Grant awarded August 2004. Principal Investigator.

A Cluster Randomised Controlled Trial to Investigate the use of a Decision Aid for the Diagnosis of Active Labour in Term Pregnancy: Feasibility Study. Chief Scientist Office, Scottish Executive. £27,884. Grant awarded October 2001. Co-Investigator.

Observation and acutely ill psychiatric in-patients: A social judgement analysis. Chief Scientist Office. £81,000. Awarded May 2001. Principal Investigator.

The Development and Evaluation of a Computerised Clinical Guidance Tree for Benign Prostatic Hyperplasia and Hypertension. Chief Scientist Office. £157,000. Awarded October 1999. Principal Investigator.

An Investigation into the activities and decision making of registered nurses in a Scottish acute care setting. Faculty Development Fund. £10,079. Awarded December 1999. Principal Investigator.

The decision making of health care practitioners regarding the use of urinary catheters for incontinence in acute care. John Nicol Award, Infection Control Nurses Association, £2,000. Awarded August 2002. Co-Investigator.

Factors associated with clinical incidents in labour: pattern recognition using artificial neural networks. Greater Glasgow NHS Trust R & D Endowment Funding. £9,388.10. Co-Investigator. Awarded October 2002.

## 12. EDUCATIONAL CONTRIBUTIONS

### **Direct Teaching/Precepting/Supervising**

Spring 2015 to present: N7000: Introduction to Evidence Based Practice (enrolment 220 - 288). Lecturing, organization and preparation of small group work

Spring 2014: N6826: Evaluation and Appreciation of Research (enrolment 180- section leader for 40 students). Lecturing, small group work.

Sept 2003-June 2009: Evidence Based Decision Making Theme (enrolment 120 students per year, across 5 years of the medical curriculum and two campuses). Lecturing using video-conferencing, problem-based learning, small group work.

Sept 2003 – June 2007: Student selected components. Part of the options for undergraduate medical students. Small group work.

Sept 2003 – June 2009: Strategies for Clinical Decision Making (enrolment 40 Masters students per year). This was a blended course, using a mixture of material on the Virtual Learning Environment (materials I developed) alongside small group teaching.

Sept 2004-June 2006: Decision Making in Health Care (enrolment 30 Bachelors students). Lectures and small group work.

Sept 1997-June 2000: Judgment and Decision Making in Health Care (enrolment 60 students per year, BSc in Nursing). Lectures and small group work

Sept 1997-June 2000: Practical Approaches to Research. (enrolment 120 students across 3 campuses). BSc or BN in nursing

### **Advising and Mentoring**

#### **Current Graduate Students**

Sept 2015- Kyungmi (Joanne) Woo. PhD candidate. "Telehealth acceptance by heart failure patients." Sponsor

Irene Bick. PhD candidate. "Hospitalization risk factors of home care patients with dementia and/or cognitive impairment." Sponsor

#### **Previous Graduate Students**

2014 – 2016 Ragnhildur Bjarnadottir. PhD candidate. "Using informatics strategies to inform disparities research with LGBT individuals" Sponsor. PhD Awarded July 2016.

2012-2016 Anne-Marie Henshaw: 'The statutory midwife supervisory review meeting: fit for purpose? Joint supervisor (with Professor Andrew Long, Dr David Clarke) PhD Awarded January 2016

2012-2014 David Saltiel. 'Decision making in child protection services' Joint supervisor (with Professor Ray Pawson, Dr Mark Hardy) PhD Awarded 2014.

2008-2012 Paul Taylor. 'Clinical decision making in palliative care' Joint supervisor (with Dr Miriam Johnson). HYMS Clinical Research Fellow. PhD Awarded 2012.

2005-2010 Bernadette Fisher. 'Is the NHS breast screening programme an appropriate medium for encouraging other health promoting behaviours in women?' Supervisor. PhD Awarded 2010.

2004-2008 Vivien Hendry. 'Factors affecting decision making for childhood vaccination.' Joint supervisor (with Professor David Torgerson). PhD Awarded 2008.

2002-2006 Susan Baxter. 'An examination of how expert and novice nurses use clinical assessment tools for decision making in continuing care'. Joint supervisor (with Dr Jo Booth). PhD Awarded 2006. University of Stirling. Funded by a Chief Scientist Office, Scottish Executive studentship.

## Educational Administration and Leadership

Jan 2015 – present: Course co-ordinator for N7000: Introduction to Evidence Based Practice. Total student enrolment for MDE is 220 per year, plus an additional 60-100 Masters students. Role includes managing and organizing course faculty (up to 6) and teaching assistants.

May 2012: Led a successful tender to the UK National Institute for Health Research/Department of Health to establish a Masters in Clinical Research Methods at the University of Leeds. The funding provided support for 30 students over a 3 year period to study full or part time. The funding package included tuition fees and financial compensation to the trainee's employer. The amount awarded was £1,350,000 (\$1,929,285).

Feb 2003-Aug 2010: Lead for Evidence Based Practice Theme, Hull York Medical School, UK (enrolment of 200 students a year, across all 5 years of the program). This was a key theme in the undergraduate degree program at the Medical School. I directed the theme, which included developing educational materials for the degree program (which was a PBL based course), training all clinicians and PBL tutors in EBP, and setting of examinations related to my theme.

Sept 2007-June 2008: Module leader for Strategies in Clinical Decision Making (enrolment 40 students). As module leader I coordinated the module, organized assignments and developed all curriculum material for the online section of the course.

## 13. PUBLICATIONS

### *Peer-reviewed articles*

1. Randell R, Honey S, Hindmarsh J, Alvarado N, Greenhalgh J, Pearman A, Long A, Cope A, Gill A, Gardner P, Kotze A, Wilkinson D, Jayne D, Croft J, **Dowding D**. A realist process evaluation of robot-assisted surgery: integration into routine practice and impacts on communication, collaboration and decision-making. *Health Serv Deliv Res* 2017;5(20). doi:10.33.10/hsdr05200
2. **Dowding D**, Russell, Onorato N, Merrill JA. Perceptions of home care clinicians for improved care continuity: A focus group study. *Journal of Healthcare Quality*, 2017. *In press*.
3. **Dowding D**, Merrill JA, Onorato N, Barrón Y, Rosati RJ, Russell D. The impact of home care nurses' numeracy and graph literacy on comprehension of visual display information: implications for dashboard design. *Journal of the American Medical Informatics Association*. Apr 27, 2017. doi: 10.1093/jamia/ocx042 [Epub ahead of print]
4. Russell D, Diamond EL, Lauder B, Dignam RR, **Dowding DW**, Peng TR, Prigerson HG, Bowles KH. Frequency and Risk Factors for Live Discharge from Hospice. *Journal of the American Geriatrics Society*. Mar 13, 2017. doi: 10.1111/jgs.14859.



5. Taylor P, Johnson M, **Dowding D**. How do clinicians recognize dying? A qualitative interview study. *BMC Palliative Care*. 16(1):11. 2017. doi: 10.1186/s12904-016-0179-3
6. Closs SJ, **Dowding D**, Allcock N, Hulme C, Keady J, Sampson EL, *et al.* Towards improved decision support in the assessment and management of pain for people with dementia in hospital: a systematic meta-review and observational study. *Health Services Deliv Res* 2016;4(30)
7. Bjarnadottir R, Bockting W, **Dowding D**. Patient perspectives on answering questions about sexual orientation and gender identity. An integrative review. *Journal of Clinical Nursing*. Oct 5, 2016. DOI: 10.1111/jocn.13612
8. Landers S, Madigan E, Leff B, Rosati RJ, McCann B, Hornbake R, MacMillan R, Jones K, Bowles K, **Dowding D**, Lee T, Moorhead T, Rodriguez S, Breese E. The Future of Home Health Care: A Strategic Framework for Optimizing Value. *Home Health Care Management & Practice*, 28:4;262-278. 2016.
9. Topaz, M., Lai, K., **Dowding, D.**, Lei, V. J., Zisberg, A., Bowles, K. H., & Zhou, L. Automated identification of wound information in clinical notes of patients with heart diseases: Developing and validating a natural language processing application. *International Journal of Nursing Studies*. 2016.  
<http://doi.org/10.1016/j.ijnurstu.2016.09.013>
10. Lichtner V, **Dowding D**, Allcock N, Keady J, Sampson EL, Briggs M, Corbett A, James K, Lasrado R, Swarbrick C, Closs SJ. The assessment and management of pain in patients with dementia in hospital settings: a multi-case exploratory study from a decision making perspective. *BMC Health Serv Res*. Aug 24;16(1):427. 2016.
11. Randell R, Honey S, Alvarado N, Pearman A, Greenhalgh J, Long A, Gardner P, Gill A, Jayne D, **Dowding D**. Embedding robotic surgery into routine practice and impacts on communication and decision making: a review of the experience of surgical teams. *Cognition, Technology and Work*, 18:423-437. 2016.
12. **Dowding D**, Lichtner V, Allcock N, Briggs M, James K, Keady J, Lasrado R, Sampson EL, Swarbrick C, Closs SJ. Using sense-making theory to aid understanding of the recognition, assessment and management of pain in patients with dementia in acute hospital settings. *International Journal of Nursing Studies*. 53: 152-162. 2016.
13. Lichtner V, **Dowding D**, Closs, SJ. The relative meaning of absolute numbers: the case of pain intensity scores as decision support systems for pain management of patients with dementia. *BMC Medical Informatics and Decision Making*. 15(1):111. 2015. doi: 10.1186/s12911-015-0233-8
14. Randell R, Greenhalgh J, **Dowding D**. Using realist reviews to understand how health IT works, for whom, and in what circumstances. *Journal of the American Informatics Association*. 2015 *publication ahead of print*
15. Taylor P, Crouch S, Howell DA, **Dowding DW**, Johnson MJ. Changes in physiological variables in the last two weeks of life: An observational study of hospital in-patients with cancer. *Palliative Medicine* 29(2):120-127. 2015
16. **Dowding D**, Randell R, Gardner P, Fitzpatrick G, Dykes P, Favela J, Hamer S, Whitewood-Moores Z, Hardiker N, Borycki E, Currie L. Dashboards for improving

- patient care: review of the literature. *International Journal of Medical Informatics*, 84:87-100. 2015.
17. Lichtner V, **Dowding D**, Esterhuizen P, Closs SJ, Long A, Corbett A, Briggs M. Pain assessment for people with dementia: a systematic review of systematic reviews of pain assessment tools. *BMC Geriatrics*, 14:138. 2014. doi:10.1186/1471-2318-14-138
  18. **Dowding D**, Turley M, Garrido T. Nurses' use of an integrated electronic health record: results of a case site analysis. *Informatics in Health and Social Care*. Available online August 14 2014. doi:10.3109/17538157.2014.948169
  19. Coleman S, Nelson EA, Keen J, Wilson L, McGinnis E, Dealey C, Stubbs N, Muir D, Farrin A, **Dowding D**, Schols JMGA, Cuddigan J, Berlowitz D, Jude E, Vowden P, Bader DL, Gefen A, Oomens CWJ, Schoonhoven L, Nixon J. Developing a pressure ulcer risk factor minimum data set and risk assessment framework. *Journal of Advanced Nursing*, 70:2339-2352, 2014.
  20. Coleman S, Nixon J, Keen J, Wilson L, McGinnis E, Dealey C, Stubbs N, Farrin A, **Dowding D**, Schols JMGA, Cuddigan J, Berlowitz D, Jude E, Vowden P, Schoonhoven L, Bader DL, Gefen A, Oomens CWJ, Nelson EA. A new pressure ulcer conceptual framework. *Journal of Advanced Nursing*, 70:2222-2234, 2014.
  21. Samuriwo R, **Dowding D**. Nurses' pressure ulcer related judgements and decisions in clinical practice: a systematic review. *International Journal of Nursing Studies*, 51(2): 1667-1685. 2014.
  22. Randell R, Greenhalgh J, **Dowding D**, Jayne D, Pearman A, Gardner P, Croft J, Kotze A, Hindmarsh J. Integration of robotic surgery into routine practice and impacts on collaboration, communication and decision making: a realist process evaluation protocol. *Implementation Science* 9:52. 2014. doi:10.1186/1748-5908-9-52
  23. Parenti, N; Reggiani, MLB, Iannone P, **Dowding, D**. A systematic review on the validity and reliability of the Manchester Triage System. *International Journal of Nursing Studies*, 21(7):1062-1069. 2014
  24. Shang J, Ma C, Poghosyan L, **Dowding D**, Stone P. The prevalence of infections and patient risk factors in home health care: A systematic review. *American Journal of Infection Control*, 42(5): 479-484. 2014.
  25. Thompson C, Aitken L, Doran D, **Dowding D**. An agenda for clinical decision making and judgement in nursing research and education. *International Journal of Nursing Studies*. 50(12), 1720-1726, 2013
  26. Sheard L, Prout H, **Dowding D**, Noble S, Watt I, Maraveyas A, Johnson M. Barriers to the diagnosis and treatment of venous thromboembolism in advanced cancer patients - A qualitative study. *Palliative Medicine*. DOI: 10.1177/0269216312461678. 2012
  27. Sheard L, Prout H, **Dowding D**, Noble S, Watt I, Maraveyas A, Johnson M. The ethical decisions UK doctors make regarding advanced cancer patients at the end of life - the perceived (in) appropriateness of anticoagulation for venous thromboembolism: A qualitative study. *BMC Medical Ethics*. *BMC Medical Ethics*.2012, 13:22. DOI: 10.1186/1472-6939-13-22 URL: <http://www.biomedcentral.com/1472-6939/13/22>
  28. Johnson MJ, Sheard L, Maraveyas A, Noble S, Prout H, Watt I, **Dowding D**. Diagnosis and management of people with venous thromboembolism and advanced cancer: how

- do doctors decide? a qualitative study. *BMC Medical Informatics and Decision Making*. 12:75 doi:10.1186/1472-6947-12-75. 2012
29. **Dowding D**, Gurbutt R, Murphy M, Lascelles M, Pearman A, Summers B. Conceptualising decision making in nursing education. *Journal of Research in Nursing*. 17: 348-360, 2012
  30. **Dowding D**, Turley M, Garrido T. The impact of an electronic health record on nurse sensitive patient outcomes: an interrupted time series analysis. *Journal of the American Medical Informatics Association*. 19: 615-620, 2012
  31. **Dowding D**, Cheyne H, Hundley V. Complex interventions in midwifery care: Reflections on the design and evaluation of an algorithm for the diagnosis of labour. *Midwifery*. 27:654-659, 2011
  32. Randell R, **Dowding D**. Organisational influences on nurses' use of clinical decision support systems. *International Journal of Medical Informatics*. 79(6): 412-421, 2010
  33. Mitchell N, Randell R, Foster R, **Dowding D**, Lattimer V, Thompson C, Cullum N, Summers R. A National Survey of Computerised Decision Support Systems Available to Nurses in England. *Journal of Nursing Management*. 17(7):772-80, 2009
  34. Randell, R., Mitchell, N., Thompson, C., McCaughan, D. and **Dowding, D**. From pull to push: Understanding nurses' information needs. *Health Informatics Journal*. 15(2):75-85, 2009
  35. **Dowding D**, Spilsbury K, Thompson C, Brownlow R, Pattendon J. The Decision Making of Heart Failure Specialist Nurses in Clinical Practice. *Journal of Clinical Nursing*. 18(9):1313-24, 2009
  36. **Dowding D**, Mitchell N, Randell R, Foster R, Lattimer V, Thompson C. Nurses' use of computerised clinical decision support systems: a case site analysis. *Journal of Clinical Nursing*. 18(8):1159-67, 2009. *Shortlisted for the 2010 Diana Forsythe Award by the American Medical Informatics Association*
  37. Randell, R., Mitchell, N., Thompson, C., McCaughan, D. and **Dowding, D**. Supporting nurse decision making in primary care: exploring use of and attitude to decision tools. *Health Informatics Journal*. 15(1):5-16, 2009
  38. Cheyne H, Hundley V, **Dowding D**, Bland J M, McNamee P, Greer I, Styles M, Barnett C, Niven C. The effectiveness of an algorithm for diagnosis of labour: a cluster randomised controlled trial. *British Medical Journal*. 337:a2396, 2008
  39. Thompson C, Spilsbury K, **Dowding D**, Pattendon J, Brownlow R. Do heart failure specialist nurses think differently when faced with "hard" or "easy" decisions: A judgement analysis. *Journal of Clinical Nursing*. 17(16):2174-2184. 2008
  40. Cheyne H, **Dowding D**, Hundley V, Aucott L, Styles M, Mollison J, Greer I, Niven C. The development and testing of an algorithm for diagnosis of active labour in primiparous women. *Midwifery*, 24, 199-213, 2008.
  41. Paterson B, **Dowding D**, Harries C, Cassells C, Morrison R, and Niven, C. Managing the risk of suicide in acute psychiatric inpatients: A clinical judgement analysis of staff predictions of imminent suicide risk. *Journal of Mental Health*, 17:4,410 – 423. 2008.

42. Randell R, Mitchell N, **Dowding D**, Cullum N, Thompson C. Effects of Computerised Decision Support Systems on Nursing Performance and Patient Outcomes: A Systematic Review. *Journal of Health Services Research and Policy*. 12(4), 242-251. 2007.
43. Cheyne H, Terry R, Niven C, **Dowding D**, Hundley V, McNamee P. 'Should I come in now?' a study of women's early labour experiences. *British Journal of Midwifery*, 15(10), 604-625, 2007.
44. Fisher, B. **Dowding, D**. Pickett, K. Fylan F. Health promotion at NHS breast cancer screening clinics. *Health Promotion International*, 22(2), 137-45, 2007.
45. Paterson B, Cassels C, Graham A, Dowding D, McComish S. Ambiguity Uncertainty and Risk: Reframing the task of suicide risk assessment and prevention in acute in-patient mental health. *Irish Nurse*, 8(2):22-25. 2007
46. Thomson P., **Dowding D**, Swanson V, Bland R, Mair C, Morrison A, Taylor A, Beechey C, Niven C. A computerised guidance tree (decision aid) for hypertension, based on decision analysis: development and preliminary evaluation. *European Journal of Cardiovascular Nursing*. 5:146-149, 2006.
47. Cheyne, H. **Dowding D**, Hundley, V. Making the diagnosis of labour: midwives' diagnostic judgement and management decisions. *Journal of Advanced Nursing* 53(6): 625-635, 2006.
48. Cassells, C, Paterson, B, **Dowding, D**, Morrison, R. The clinical utility of long term and short term risk factors in the prediction of in-patient suicide: a review of the literature. *Crisis: Journal of Crisis Intervention & Suicide*. 26(2):53-63, 2005
49. Thompson, C.A., Foster, A., Cole, I., **Dowding D.W**. Using social judgement theory to model nurses' use of clinical information in critical care education. *Nurse Education Today*. 2005 Jan;25 (1):68-77
50. Ludwick, R.E., Wright, M.E., Zeller, R.A. **Dowding, D.W**. Lauder, W. An Improved Methodology for Advancing Nursing Research: Factorial Surveys. *Advances in Nursing Science*. 27(3), 224-238. 2004.
51. **Dowding, D.**, Swanson, V., Bland, R., Thomson, P., Mair, C., Morrison, A., Taylor, A., Beechey, C., Simpson, R., Niven, K. The development and preliminary evaluation of a decision aid based on decision analysis for two treatment conditions: Benign Prostatic Hyperplasia and Hypertension. *Patient Education and Counselling*, 52, 209-215 2004.
52. **Dowding, D**. Thompson C. Measuring the quality of judgement and decision making in nursing. *Journal of Advanced Nursing*,44(1), 49-57. 2003.
53. Thompson, C. & **Dowding, D**. Responding to uncertainty in nursing practice. *International Journal of Nursing Studies*, 38, 609-615. 2001
54. **Dowding, D**. Examining the effects that manipulating information given in the change of shift report has on nurses' care planning ability. *Journal of Advanced Nursing*. 33.6, 836-846, 2001.
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**Abstracts**

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**Posters**

112. **Dowding D**, Onorato N, Merrill J, Russell D. Improving quality of care for heart failure patients in a home care setting: what feedback information do nurses need? American Medical Association Annual Meeting, Chicago, November 12-16, 2016.
113. Russell D, Onorato N, Barrón-Vaya Y, Merrill J, **Dowding, DW**. The impact of nurses' graph literacy and numeracy on comprehension of visualized feedback information. American Medical Association Annual Meeting, Chicago, November 12-16, 2016.
114. Russell D, Onorato N, Merrill J, Barrón-Vaya Y, **Dowding D**. Nurses' graph literacy and its impact on comprehension of visualized feedback information. Academy Health Annual Research Meeting. Boston MA, June 26-28 2016.
115. **Dowding D**, Closs J, Lichtner V. Recognition, assessment and management of the pain of hospital patients with dementia: uncovering the complexities. National Institute of Nursing Research Scientific Symposium: Advancing Science, Improving Lives. Washington DC, October 13 2015.
116. Bjarnadottir RI, Dowding D, Bockting W. Getting the full picture: Assessment of Sexual Orientation and Gender Identity in Home Health Care. 1<sup>st</sup> International Integrative Nursing Symposium, Reykjavik, Iceland, 18-20 May 2015.
117. **Dowding D**, Barrón Y, Ames S. Individualizing information presented in quality dashboards: preliminary study. American Medical Informatics Association Annual Meeting, Washington DC, November 15-19, 2014.
118. Honey S, Alvarado N, Gardner P, Pearman A, Gill A, Dowding D, Randell R. Using OTAS to assess the impact of robotic surgery on teamwork. 8th International Meeting on Behavioural Sciences Applied to Surgery and Acute Care Settings, London, November, 2014.
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120. Dowding D., on behalf of the Pain and Dementia Research Group. Assessing and Managing Pain in Patients with Dementia in Acute Care Settings: Developing a

Decision Support Tool. 12<sup>th</sup> International Conference on Nursing Informatics, Taipei, Taiwan June 22-25, 2014.

121. Booth J, Bland M, Cheater F, **Dowding D**, Horseman R, McCaughan D, Siddle A, Torgerson D, Watt I. The Development of a Decision Tool for the Management of Urinary Incontinence in Women in Primary and Community Care. RCN International Nursing Research Conference, April 23-25, 2012
122. Johnson MJ, Sheard L, Noble S, Maraveyas A, Prout H, Watt I, **Dowding D**. Testing for and treating cancer associated thrombosis: choice of anticoagulant. Accepted for Poster Discussion Session. 6th International Conference on Thrombosis and Hemostasis Issues in Cancer, Bergamo, Italy, April 20-22, 2012
123. Sheard L, **Dowding D**, Noble S, Maraveyas A, Prout H, Watt I, Johnson MJ. How do doctors decide whether it is appropriate or not to investigate and treat people with VTE and advanced cancer? The 9th Palliative Care Congress, Gateshead, UK March 2012
124. Johnson MJ, Sheard L, Prout H, Noble S, Maraveyas A, Watt I, **Dowding D**. Testing for and treating venous thromboembolism: logistical and organisational issues. 7th World Research Congress of the European Association for Palliative Care (EAPC), Trondheim, Norway June 2012.
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126. **Dowding D** The effect of an Electronic Health Record on nursing-sensitive patient outcomes. Academy Health, Boston, June 27-29 2010.
127. **Dowding D**, Spilsbury K, Thompson C, Pattenden J, Brownlow R. Difficult decisions: Exploring heart failure specialist nurses' decision making in clinical practice. RCN International Nursing Research Conference, Liverpool, 8-11 April 2008.
128. Cheyne H, **Dowding D**, Hundley V, Aucott L, Styles M, Mollison J, Greer I, Niven C. The development and testing of an algorithm for diagnosis of active labour in primiparous women. RCN International Nursing Research Conference, Dundee, 1-4 May 2007.

#### 14. INVITED AND PEER SELECTED PRESENTATIONS

##### Local

1. **Dowding D**, Onorato N, Barrón Y, Merrill JA, Rosati RJ, Russell D. Using feedback intervention theory to guide clinical dashboard development: A case study in home care. ENRS, Philadelphia, PA. April 5-7 2017.
2. **Dowding D**. What is evidence in evidence-based practice? Hackensack Meridian Health Annual Nursing Research Conference. Farmingdale, New Jersey. November 9, 2016.
3. **Dowding D**. Considerations when designing decision support for nurses. 8<sup>th</sup> Annual Mid-Atlantic Healthcare Informatics Symposium. Philadelphia, US. October 23, 2015.

4. **Dowding D.** Pain assessment tools for individuals with cognitive impairment: A meta-review. ENRS, Washington DC, April 15-17 2015.
5. **Dowding D.** Nurses leading the way: Leadership through evidence based Practice, Keynote Address, Visiting Nurse Service of New York Nurses Day, New York, May 21, 2014
6. **Dowding D.** Implementation of an Electronic Health Record: The Effect on Nursing-Sensitive Patient Outcomes. The Global Reach of Nursing Quality. CaINOC 2011. Long Beach, California, June 16-17 2011.
7. **Dowding D,** Turley M, Zuniga A. Using KP HealthConnect to improve nursing outcomes. Kaiser Permanente Quality Conference, July 13-14, 2011.
8. **Lamond, D.** & Thompson, C. The role of intuition and analysis in decision making and choice. 1<sup>st</sup> Stirling Decision Making Symposium, June 10-11, 1999, University of Stirling, Scotland.
9. **Lamond, D.** What type of handover should we use? National Board for Nursing, Midwifery and Health Visiting Teachers Conference, February 26-27, 1998, Aviemore, Scotland.

#### National

10. Gotz D, Borland D, Caban J, **Dowding D,** Fisher B, Kagan V, Wu TY. Evaluating visual analytics for health informatics applications: A progress report from the AMIA VIS working group taskforce on evaluation. 2016 Workshop on Visual Analytics in Healthcare. Chicago, US. November 12, 2016.
11. **Dowding D,** Onorato N, Barrón Y, Merrill JA, Rosati RJ, Russell D. Supporting home care nurse decision making at the point of care through clinical dashboard design. H3IT. Home Healthcare and Hospice Information Technology Conference. Chicago, US. November 11, 2016.
12. **Dowding D.** Using mixed methods to evaluate health information technology. American Medical Informatics Association Webinar, June 12, 2014.
13. **Dowding D.** The development of a decision tool for the management of urinary incontinence in women in primary and community care. RCN Continence care conference 2012. Birmingham, UK. November 15-16 2012.
14. **Dowding D,** How do doctors do doctors decide about the management of patients with venousthromboembolism and advanced cancer? The Royal Society of Medicine, Palliative care: the final frontier. Scarborough, UK. 31 March-1 April 2011.
15. **Dowding D,** Turley M, Garrido T. Impact of EHR on Nursing Sensitive Patient Outcomes (with Terhilda Garrido, Marianne Turley). IHI's 22nd Annual National Forum on Quality Improvement in Health Care. Orlando, Florida, December 5-8, 2010
16. **Dowding D,** Mitchell N, Randell R, Foster B, Lattimer V. Thompson C, Cullum N. How do nurses use computerize decision support systems? SDO/HSRN conference, Manchester, 4 to 5 June 2008.
17. Swanson V, **Dowding, D.,** Bland R. (2004) Impact of a Computerised Clinical Guidance Tree on Adherence to Treatment for Benign Prostatic Hyperplasia and

Hypertension. British Psychological Society Division of Health Psychology Conference, Edinburgh, September 2004.

18. Reis, J., Lauder, W., Ludwick, R., **Dowding, D.**, Winchell, J., Zeller, R. and Wright, M. The Utilisation of Factorial research Methods in the Exploration of Treatment Decisions by Health and Social Workers. Paper presented at "Discovery": Discovering Research, Discovering teaching and Learning, Discovering Self, Women in Research Conference, Central Queensland University, Rockhampton, November 13-14. 2003.

### International

19. **Dowding D**, Lichtner V, Closs SJ. Using the MRC framework for complex interventions to develop clinical decision support: A case study. Medical Informatics Europe, Manchester UK, April 24-26, 2017.
20. **Dowding D**, Onorato N, Rosati RJ, Barrón Y, Merrill J, Russell D. Using feedback intervention theory to design clinical dashboards. Medical Informatics Europe, Manchester UK, April 24-26, 2017.
21. Hardiker NR, Bakken S, **Dowding D**, Mendonca E. Maximising 'depth of field' for health data. Medical Informatics Europe, Manchester UK, April 24-26, 2017.
22. Randell R, **Dowding D**, Scott PJ, Georgiou A. Mixed methods evaluations for understanding impact on patient outcomes and work practices. Medical Informatics Europe, Munich, Germany, 28 Aug-2 Sept, 2016.
23. Sockolow P, **Dowding D**, Randell R, Favela J. Using mixed methods in health information technology evaluation. 13<sup>th</sup> International Congress in Nursing Informatics, Geneva, Switzerland, June 25-29, 2016.
24. **Dowding D**. Clinical Decision Support in Nursing. Informatikens nytta för vård och utbildning (Informatics for the benefit of Health and Education), 9<sup>th</sup> Annual Conference for Nursing Informatics, Karolinska University, Stockholm, Sweden, May 6 2013.
25. **Dowding D**. Consequences of Using Clinical Decision Support in Nursing. Informatikens nytta för vård och utbildning (Informatics for the benefit of Health and Education), 9<sup>th</sup> Annual Conference for Nursing Informatics, Karolinska University, Stockholm, Sweden, May 6 2013.
26. Dykes P, **Dowding D**, O'Brien A, Favela J, Hardiker N. Approaches to the Evaluation of Health Information Technology Systems in Nursing. Panel Discussion, 11<sup>th</sup> International Congress on Nursing Informatics, Montreal, Canada, June 23-27 2012.
27. Patel V, Westbrook J, **Dowding D**, Currie L, Shortliffe E. Clinical Errors and Patient Safety: The Role of Decision Support Systems. Panel Discussion, 11<sup>th</sup> International Congress on Nursing Informatics, Montreal, Canada, June 23-27 2012.
28. **Dowding D**, Turley M, Garrido T. Using mixed methods to evaluate the effect of an electronic health record on nursing sensitive outcomes and nurse behaviour. 7<sup>th</sup> Mixed Methods International Conference, Leeds, June 29-30<sup>th</sup>. 2011.
29. **Dowding D**. Randell R. Mitchell N. Foster R. Thompson C. Lattimer V. Cullum N. Experience and nurses use of computerised decision support systems. 10<sup>th</sup> International Conference on Nursing Informatics, Helsinki, June 28- July 1, 2009.

30. Cheyne H, Hundley V, **Dowding D**, Styles M, Barnett CA, McNamee P, Aucott L, Bland M, Greer IA, Niven C. The early labour study in Scotland. Symposium International Confederation of Midwives 28<sup>th</sup> Triennial Congress Glasgow June 2008.
31. **Dowding D**, Randell R, Mitchell N, Foster R, Lattimer V, Thompson C, Cullum N, Owens R. What do we mean by 'supported' decision making? RCN International Nursing Research Conference, Liverpool, 8-11 April 2008.
32. Mitchell N, Randell R, Foster R, **Dowding D**, Lattimer V, Thompson C, Cullum N, Owens R. How nurses use technology to support their decision making: the role of experience. RCN International Nursing Research Conference, Liverpool, 8-11 April 2008.
33. **Dowding D**, Foster B, Lattimer V, Mitchell N, Owens R, Randell R. How do nurses use new technologies in decision making? Symposium. RCN International Nursing Research Conference, Dundee, 1 to 4 May 2007.
34. **Dowding D**, Randell R, Mitchell N, Thompson C, Cullum N. The effect of clinical decision support systems on nurse performance and patient outcomes: a systematic review. Society for Medical Decision Making 10<sup>th</sup> Biennial European Meeting, Birmingham, 11 to 13 June 2006.
35. Randell R, Mitchell N, **Dowding D**, Thompson C, Cullum N. Will technology make a difference? Challenges of evaluating and understanding IT use in the NHS. RCN International Research Conference, York, 21 to 24 March 2006.
36. Mitchell N, Randell R, **Dowding D**, Thompson C, Cullum N. Do computers support nurse decision making? A systematic review. RCN International Research Conference, York, 21 to 24 March 2006.
37. **Dowding D**, Paterson B, Cassells C, Harries C. The consistency of psychiatrists' judgments of suicide risk. 27<sup>th</sup> Annual Meeting of the Society for Medical Decision Making, San Francisco, 21 to 24 October 2005.
38. **Dowding, D.** Ludwick, R. Lauder, W. Thompson, C. Wright, M. The Challenge of Researching Nursing Judgement. RCN International Nursing Research Conference, Belfast, 8 to 11 March 2005.
39. **Dowding, D.** Paterson, B. Morrison, R. Aitken, I. McComish, S. Cassells, C. Using social judgement approaches to study judgements of suicide risk. RCN International Nursing Research Conference, Belfast, 8 to 11 March 2005.
40. Wright M. Ludwick R, Zeller R, **Dowding D**, Lauder W. Nursing research across countries. Using the factorial survey method. RCN International Nursing Research Conference, Belfast, 8 to 11 March 2005.
41. Thompson C. Foster A. Cole I. **Dowding D**. Judgement analysis and design and evaluation of educational interventions. RCN International Nursing Research Conference, Belfast, 8 to 11 March 2005.
42. Wright, M.E., Ludwick, R.E., Zeller, R.E., **Dowding, D.W.**, Lauder, W. (2004) Decision-making about nutritional risk in patients: A comparison of nursing students in Ohio and the United Kingdom. RCN International Nursing Research Conference, University of Cambridge, 21 to 24 March 2004.

43. Wright, M.E., Ludwick, R., Zeller, R., **Dowding, D.W.**, Lauder, W. (2004) Nursing research across countries: Using the factorial survey method. Second International Evidence-Based Nursing Pre-Conference, STTI, Dublin, July 21, 2004.
44. **Dowding, D.**, Paterson, B., Cassells, C., Morrison,R., McComish, S., Aitken, I. Psychiatrists judgement policies when assessing suicide risk in psychiatric in-patients. European Society for Medical Decision Making. June 6-8, Rotterdam, Netherlands. 2004.
45. Paterson, B., **Dowding, D.**, Cassells, C. Suicide risk and decisions on observation in psychiatric inpatients. International Association for Suicide Prevention XXII Congress September 10-14, Stockholm, Sweden, 2003.
46. **Dowding, D.**, Bland, R., Swanson, V., Thomson, P., Simpson, R., Mair, C., Taylor, A., Morrison, A., Beechey, C. The evaluation of a computerised clinical guidance tree program for Benign Prostatic Hyperplasia and Hypertension. The 2<sup>nd</sup> International Shared Decision Making Conference September 2-4, Swansea, UK, 2003.
47. **Dowding, D.**, Paterson, B., Cassells, C. Nurses and psychiatrists judgements about suicide risk and decisions on observation levels in acute psychiatric in-patients: A pilot study. Royal College of Nursing of the United Kingdom Annual Nursing Research Conference April 10-12, Manchester, UK, 2003.
48. **Dowding, D.**, Simpson, R., Bland, R., Swanson, V., Thomson, P., Mair, C. et al Computerised clinical guidance trees as a way of promoting shared decision making. International Conference on Communication in Health Care September 18-20, Warwick University, UK, 2002
49. **Dowding, D.**, Paterson, B., McComish, S., Morrison, R., Aitken, I., Cassells, C. A study to examine the identification of suicide risk and the use of increased levels of observation in acute psychiatric care. 11<sup>th</sup> Biennial Conference of the Workgroup of European Nurse Researchers (WENR) September 2-4, Geneva, Switzerland, 2002
50. **Dowding, D.**, Bland, R., Swanson, V., Thomson, P., Mair, C., Simpson, R., Beechey, C., Taylor, A., Morrison, A. A computerised information system for nurses to use to promote shared decision making. 11<sup>th</sup> Biennial Conference of the Workgroup of European Nurse Researchers (WENR) September 2-4, Geneva, Switzerland, 2002
51. **Dowding, D.**, Paterson, B. & Cassells, C. Constant observation and acutely ill inpatients: A social judgement analysis. One day International meeting 17 April, Centre for Decision Research, Leeds University Business School, 2002
52. Morrison, A., Taylor, A., **Dowding, D.**, Scott, P.A. & Niven, K. The development of an observational tool to measure the activity and decision making of nurses in acute general medical and surgical wards. Transforming healthcare through Research, Education and Technology 14-16 November, University of Dublin Trinity College, 2001
53. **Dowding, D.**, Scott, P.A., Niven, K., Morrison, A., Taylor, A. The activity and decision making of nurses in acute medical and surgical units in Scotland: results of a pilot study. Transforming healthcare through Research, Education and Technology 14-16 November, University of Dublin Trinity College, 2001
54. **Dowding, D.**, Scott, P.A., Niven, K., Taylor, A. & Morrison, A. Examining the interventions of nurses in acute medical and surgical units in Scotland. 3<sup>rd</sup> European Conference for the Association of Common Nursing Diagnoses, Interventions and Outcomes. Berlin. 2001.

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