

Nancy L. Moureau, PhD, BSN, RN, CRNI, CPUI, VA-BC

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Curriculum Vitae

*“Nancy may be a worldwide consultant and expert in the Vascular Access community, but she also cares about what direction Vascular Access is heading in, and who will be leading the next generation of clinicians. While I may be one of many, it is an honor and a privilege to have been and continue to be one of the lucky people to have been taken under her wing. When you bring someone like Nancy in on your team you are getting more than just an expert, you are getting someone that will not only lead and develop, but also nurture your company, your workers, and for a few lucky individuals, find a mentor.”
Matthew Ostroff
Vascular Access Coordinator
St. Joseph’s*

Profile

Nursing professional with extensive experience in clinical online education, research, management, business development, project management specific to education with vascular access, key opinion leader and subject matter expert, workshop trainer for vascular access devices, ultrasound guided needle insertion, competency assessment, hospital evaluation, legal expert witness, speaker, and writer with an extensive number of publications all specific to intravenous vascular access devices for adult and pediatric populations.

Experience, Employment History

**Adjunct Associate Professor
GRIFFITH UNIVERSITY**

**May 2015-present
BRISBANE, AUSTRALIA**

**Chief Executive Officer/Administrator/Educator/Consultant
PICC EXCELLENCE, INC**

**January 1994-present
HARTWELL, GA/JACKSONVILLE, FL**

Full-time working Owner and administrator of PICC Excellence, Inc. developing online education, learning management system, articulate software, consulting, and research on Vascular Access Devices. Responsibilities include online education development, research, speaker presentations, legal reviews, program development, consulting, application, and maintenance of nursing continuing education CE Provider Status, Certification initiation and ongoing management, insertion, and supervision of PICC lines, and other related intravenous devices. Educational offerings provided throughout the United States, Canada, South America, Europe and Asia. Clinical activities include PICC insertion, troubleshooting, declotting, and community assistance. Other responsibilities include legal case review specific to vascular access devices, pediatric, neonatal, and issues specific to PICC Lines.

**PICC Access/Wellstar
JENNIFER JONES AND JOE COOK**

**November 2021-present
ATLANTA, GA**

Insertion of catheters in contracted facilities using ultrasound guidance for PIV, midline, and PICCs.

**Infinity Infusion Nursing
BELINDA TUCKER, AMY WRIGHT**

**July 2019-2023
GA AND SC**

Patient visits per diem responsibilities for infusion of medications with catheter placement, ultrasound guided insertions for PIV, midline, PICCs and ports, monitoring, care and maintenance for peripheral and central venous catheters.

**PICC/IV Team Staff Nurse
GREENVILLE MEMORIAL SYSTEM UNIVERSITY MEDICAL CENTER
RICHARD COLLOT/DON HOSKINS/ART ROBERTS/KAREN JOHNSON**

**November 2008-September 2018
GREENVILLE, SC**

PICC and IV Team per diem responsibilities with catheter placement, ultrasound guided insertions for PIV, midline and PICCs, monitoring, care and maintenance for peripheral and central venous catheters.

**ICU Staff Nurse
TY COBB MEMORIAL HOSPITAL
REGINA HOOPER**

**July 2003- June 2008
ROYSTON, GA**

ICU Staff nurse with ACLS and BCLS credentialing. Maintained roles and responsibilities of RN in ICU.

Healthcare
System

"In all the years I have worked with Nancy the most significant characteristic that aptly describes her is continuous improvement. She is tireless in striving for knowledge and improving patients and healthcare professionals' lives." Sheila Inwood Director International Medical Affairs Carefusion

"I have known Nancy for over 25 years and have had the honor to observe her ongoing clinical and business development. Besides Nancy's clinical expertise, she is a visionary person with skills and talents that allow her to successfully implement programs and ideas. Nancy is diligent, organized, responsible and forever ready for more. I have seen her work, worked collaboratively with her, and heard others

**Education Director
NMC HOMECARE
Joanne Ryan**

**November 1995-1997
JACKSONVILLE, FL**

Special Project responsibilities, in addition to education for professional staff, orientation and other education related functions. Marketing and educational focus for subacute facilities.

**General Manager
OPTION CARE**

**February 1995-December 1995
JACKSONVILLE, FL**

Mary Jalwin/Michael Bell

Began work at Option Care the early part of 1995 to reduce the negative losses of the Jacksonville office. Multiple improvements implemented including computer enhanced networked office with online service for complete clinical, pharmaceutical and accounting software package, specialized personnel training; inventory control; application of low-cost provider model; establishment of local billing; office relocation; net revenue from negative to positive figures avg 110% increase in 8 months. Upper management changed 5 times in 10 months. Redirected my energies to PICC Excellence business development.

**Intravenous Therapy Instructor
IV THERAPY CONSULTANTS**

**January 1990-1994
CLEARWATER, FL**

Kay Coulter

Program development and presentation for PICC, Pediatric IV Therapy, IV Education and CRNI Review classes. Continued with company until closure in January 1994.

**Independent Contractor/ PICC Consultant/IV Specialist
VISITING NURSES ASSOCIATION/NMC HOMECARE/OLSTENS HOME HEALTH
Anita Hennig/Joanne Ryan/Nancy Rice**

**1990-1995
JACKSONVILLE, FL**

Worked in conjunction with twelve Home Health companies in Jacksonville for PICC insertion and management, education, IV infusions, IV support wound care and other visits. Carried fulltime workload.

**Director of Nursing/Supervisor of IV Services
CAREPLUS/CRITICAL CARE AMERICA
Richard Greer, Pharm D**

**March 1986-September 1990
JACKSONVILLE, FL**

Administrative and supervisory responsibilities for IV nursing department and staff under Medicare and private home care services. Extensive inservice education instruction and speaking, as well as quality assurance and case management duties.

**Staff Visiting Nurse
UPJOHN HEALTHCARE SERVICES
Marietta Bostic/Amber Reid**

**1984-1986
JACKSONVILLE, FL**

Nursing responsibilities for Medicare and pediatric home care patients with focus on IV services.

**Pediatric Night Charge/NICU Staff Nurse/PICU
UNIVERSITY MEDICAL CENTER
Charlene Boyd**

**1981-1983
JACKSONVILLE, FL**

Nursing duties within two units, infectious pediatric or neonatal patients. Focus on IV insertions and management. Worked in neonatal intensive care completing extensive 16-week new graduate orientation.

speak of how satisfied with her services. Nancy continually seeks to expand her knowledge base and stay abreast of advances in her areas of practice or expertise. I am pleased to recommend Nancy Moureau for consideration of any service or project she may be considered for."

Ann Zonderman,
 BSN, JD, CRNI.
 Health Facility
 Evaluator
 Supervisor
 California
 Department of
 Public Health

"Nancy is a great communicator, educator, and facilitator. She can sift through, often times, confusing and difficult situations to establish common ground from which a team

Education

Bachelor of Science in Nursing **1978-1981**
EAST CAROLINA UNIVERSITY **GREENVILLE, NORTH CAROLINA**

Baccalaureate program with four years of study, three combined years in Nursing.
 Study Director for Nursing Math. Research Assistant - 2 years with Graduate Master's Program

Graduate Studies **1984-1986**
UNIVERSITY OF FLORIDA AND JACKSONVILLE UNIVERSITY **JACKSONVILLE, FL**

Pediatric Nurse Practitioner Master's Program. Accumulated Credits 20. Part time enrollment

Graduate Studies **1982-1984**
CETEC UNIVERSIDAD **SANTO DOMINGO, DOMINICAN REPUBLIC**

Health Sciences and Medicine. Accumulated credits 90. Transcripts available upon request.
 Preceptorships in Multiple Hospitals in Santo Domingo, Dominican Republic. Baptist Medical Center
 Obstetrics/Gynecology 9-week Externship 1984, Jacksonville, FL.
 External activities: Christian Medical Society, Rural Clinic Mission Program, Swim Team

Graduate Studies **2008**
SAINT JOSEPH'S COLLEGE **STANDISH, MAINE**

Nursing Informatics

Doctor of Philosophy in Nursing Research **2015-2017**
GRIFFITH UNIVERSITY **BRISBANE, AUSTRALIA**

Doctor of Philosophy in Nursing Research, Vascular Access Research Department, School of Nursing and Midwifery 2017. Adjunct Associate Professor - Griffith University Health Institute Centre for Health Practice Innovation 2015-2023. Member of Alliance for Vascular Access Teaching and Research Group (AVATAR), Queensland, AU

Certifications/Specializations

VA-BC Board Certified Vascular Access Association for Vascular Access since 2010; CPUI Certified PICC Ultrasound Insertion since 2009; Certified Registered Nurse Intravenous (CRNI) Infusion Nurses Society since 1987; Training on Hickman Tunneled Catheter, Internal Jugular, Axillary, and Port insertion training, Royal Berkshire Hospital, Reading, UK, Glasgow, Scotland, Polyclinico Catholic Hospital Gemeli, Rome, Italy.

Professional Organizations/State Licensure

1. World Congress Vascular Access Faculty (WoCoVA) since 2008, Chair of International Consensus Forum to set Minimal Requirements for Central Venous Access Devices.
2. Association of Vascular Access (AVA), National Board: Director at Large 2003-2005. Leadership Council 2005-2007. Committee work: selection of editor, executive director; Education, Publication, Public Relations, and Global Policy.
3. Infusion Nurses Society (INS) since 1985, President INS North Florida Chapter 1989-91
4. Oncology Nurses Society
5. National Association Vascular Access Networks (NAVAN), National Treasurer 2 terms 1997-2001.
6. League of Intravenous Therapy Education (LITE), Society for Interventional Radiology and Association for Vascular Radiology participation.
7. INS Qualified Trainer and PICC Instructor 1991-92. Certified Registered Nurse in Intravenous through National Intravenous Therapy Association

or organization can begin building the right program that meets their needs. Nancy truly strives to be excellent and helps those she works with to be the same. Her, "can do" attitude presents a positive and constructive message for her colleagues and clients. Nancy, gets results and builds roads for sustainable results and outcomes. Beyond anything else, Nancy is genuine, and focused on making a difference in any way she can. She not only has a vision for the future of the Vascular Access Profession, but she has been instrumental in helping others to both create and share in that vision."

Dr. Robert B. Dawson
Director of Education and Clinical Affairs
Access RN

"I have had the wonderful opportunity to

8. Registered Nurse Licensed through eNLC multistate licensure since 2020-present

Honors

1. 1st Place People's Choice Poster Award: Lee Steere, RN, CRNI, VA-BC, & Nancy Moureau, RN, PhD, CRNI, CPUI, VA-BC; "Reaching One Peripheral Intravenous Catheter (PIVC) Per Patient Visit with LEAN multi-modal strategy: The PIV5Rights Bundle".
2. 2nd Place People's Choice Poster Award: John S. Foor, MD, VACS, RPVI, Nancy Moureau, RN, PhD, CRNI, CPUI, VA-BC; "The Role of Venous Hemodilution, Flow and Impact of Valves in Retrograde Blood Reflux".
3. 1ST PLACE POSTER at the 29th AVA Annual Scientific Meeting Poster #9-A: Clinical and Economic Impact of Thrombosis and Infection with Antithrombogenic and Antimicrobial Peripherally Inserted Central Catheter (PICC) 2015
4. 2014 Suzanne LaVere Herbst Award For Excellence in Vascular Access for Outstanding Excellence
5. Nominated for the Susanne Herbst Award for Excellence in Research 2003, 2005, 2010 and 2012
6. Reader's Choice Publication Award Recipient 2007 Complications of Vascular Access Device Terminal Tip Placement: A Case Study and Review of Subsequent Legal Action.
7. STAR Awards for dedication to customer/patient /staff commitment 2005 and 2009 at Greenville Memorial Hospital
8. Nomination for Robert Wood Johnson Executive Nurse Fellowship, 2000.
9. Nomination for CRNI of the Year 1999, Intravenous Nurses Society.
10. 2009 Presidential Who's Who for distinguished level of success in chosen profession Listed in 2007-20012 Princeton's Premier Business Leaders and Professionals.
11. Who's Who Executive since 2002.
12. Who's Who of International Entrepreneurs since 1997; Who's Who in American Nursing since 1993, American Businesswomen 1996.

Grants

Research support from **Access Vascular, Inc, BBraun, Linear Health Sciences, Nexus Medical, Parker Laboratories** 2017-2023; Research Grants for ESCAPE study from **3M, Cook and Entrotech** for Griffith University 2016-2017; Grant for Online Midline Education from **Access Scientific** 2013; Grant for Evaluation of Best Practice Hospitals 2011-2012 **Genentech, Inc.**; Education Grant for development of online Advanced Ultrasound Training **Boston Scientific, Inc.** 2006; Research Grants as Principal Investigator for Home PICCOLO II Trial: Efficacy and Safety of tPA in Home Care Applications for Resolution of Thrombotic Occlusions and PICCOLO I Trial: Economic Impact of Catheter Occlusions in Home Care from **Genentech, Inc.** 2000-2004; Educational Grant Recipient for National Focus Groups: Your Opinion Counts and Video Education Development and Monograph Production for Multidisciplinary Management of Thrombotic Occlusions, **Abbott Laboratories** 1999-2000.

Presentations and Speaking Honor Highlights

1. World Congress of Vascular Access (WoCoVA) presentations: Netherlands 2010 and 2012; Germany 2014; Portugal 2016; Denmark 2018; Virtual 2021; Greece 2022 – The Skin Issue: Classification and Definition of CASI/MARSI; Hospital System Validates UGPIV Insertion Standardization with Aseptic Non-Touch Technique (ANTT) and Quantitative Clinical Product Evaluation. Poster presentations: Economic impact of catheter material for complication reduction, Integrative Review of PICC and Midline Complications and Economic Impact of Catheter Materials

work with Nancy on numerous occasions. She is one of the best educators in the country and her expertise in vascular access is known world-wide. She has been a mentor, a co-worker, an advisor, and a sounding board throughout my nine years in this field and I trust her opinions like no other. Whatever the need, Nancy Moureau will meet and exceed it. She is simply the best, without a doubt. I endorse Nancy full-heartedly. I would not be the professional I am today without her."

Leann Kennedy
Clinical Nursing
Instructor San
Jose State
University

"Nancy is passionate about educating others to provide the best care possible to patients with

2. Association for Vascular Access (AVA) National Conference annual speaker 2000-2023; Minneapolis, MN. Science of Blood Flow and Impact on Infusion Related Vessel Health, Safe and Efficient: Standardizing Ultrasound-Guided Peripheral Insertions with a Transparent Barrier Dressing Cuts Waste, Saves Time, Costs Less, Improves Patient Safety, Vascular Access Talks on UGPIV and Catheter Materials.
3. World Congress of Vascular Access: WoCoVA/SIAV Congress 2019 – São Paulo, Brazil Special Event. Titles: Relevance of the Exit Site, Michigan Appropriateness Guide for Intravascular Devices Pros and Cons, Evidence-based consensus on insertion of central venous access devices: Definition of minimum requirements for CVAD Training, The future of infusion therapy, technology and professionals of generation Z.
4. Keynote speaker on "Deep venous thrombosis and vascular access. A difficult coexistence". National Congress of Vascular Access November 13, 14 and 15, 2019 at Kursaal Congress San Sebastián, Spain.
5. Association for Vascular Access (AVA) National Conference speaker for Hemodilution and PIV5Rights, and abstract author 2019. 1) PIV5Rights: Linking Lean IV Therapy and Innovative Technology Toward One Catheter One Patient Care, 2) A System for Vascular Access: Vessel Health and Preservation Pathway of Care, 3) Venous Hemodilution, Flushing and the Impact on Medication Delivery and VAD Type: The Science and Evidence
6. Keynote speaker Australian Vascular Access Society (AVAS) Parramatta, Australia. Walking the Line with Vessel Health and Preservation May 2019.
7. Association of Vascular Access (AVA) September 2018 Conference Columbus, Ohio. Conference Speaker on Does the exit site matter in terms of bacterial load and risk? ESCAPE Results and Accidental Intravenous Catheter Dislodgement: Incidence and Perceptions of Safety at the Bedside
8. Infusion Nurses Society (INS) National Academy Conference November 2017, MAGIC Panel: Appropriateness in VAD Selection and How to Apply the Recommendations
9. Association of Vascular Access (AVA) September 2017 Conference Phoenix, Arizona Preconference speaker: Bugs on the Skin: Evaluation of Skin Colonization and Placement of Catheter Exit Site Research (ESCAPE).
10. 3M Global Leadership Summit May 2017. Applying the MAGIC for Intravenous Device Indications.
11. Keynote speaker. League of Intravenous Therapy Education Conference April 2017. Midline Indications and Usage.
12. Association of Vascular Access (AVA) September 2016 Conference Orlando, Florida. Ultrasound Guided Peripheral Catheter Insertion: Asepsis versus Sterile Insertion; Evaluation of Skin Colonization and Placement of Catheter Exit Sites (ESCAPE).
13. Asia 3M Speaker Tour, Japan and China July 2016. Vessel Health and Preservation: Applying the Evidence; Disinfection of Needleless Connections Systematic Review.
14. World Congress of Vascular Access (WOCOVA) Lisbon, Portugal, June 2016. Presenting the Evidence on PICCs versus CICCs.; The Great Debate: Michigan Appropriateness Guide for Intravenous Catheters (MAGIC).
15. Association for Vascular Access Keynote Speaker 2016 Brisbane, Australia. Vessel Health and Preservation: Applying Evidence for Best Outcomes with Vascular Access May 2016.
16. Association of Vascular Access (AVA) 2015 First Place Poster Recipient Poster #9-A: Clinical and Economic Impact of Thrombosis and Infection with Antithrombogenic and Antimicrobial Peripherally Inserted Central Catheter (PICC). Other Submitted Posters: Simulation as a Process for Gaining and Measuring Competency with Procedures, Disinfection of Needleless Connector Hubs: Clinical Evidence Systematic Review.

vascular access devices. She is recognized as a key opinion leader internationally in this specialty. She is an excellent speaker and connects well with her audience. She continually seeks out opportunities that enhance her career professionally and seeks to improve the care of patients, with vascular access devices, at the bedside. She has an excellent understanding of the challenges that face clinicians and patients in this area. ”
Deborah Phelan
Clinical Educator
Interrad Medical

17. Association of Vascular Access (AVA) 2015: Clinical Evidence Review of Disinfection Practices: What Is Missing with CLABSI Prevention; Simulation as a Process for Gaining and Measuring Competency with Procedures; What Does "Safety" Mean in Vascular Access: Risks and Legal Implications; The New Age of Midlines and ARROW's Endurance Extended Dwell Catheter.
18. World Congress of Vascular Access (WOCOVA) Special Event Asia: Hong Kong 2015: CICC vs. PICCs in Terms of Risk of Thrombosis: a Continuing Controversy; Exit Site vs. Puncture Site of PICC and CICC.
19. Association of Vascular Access National Conference 2014 Implications of Dilution and Concentration on Vancomycin Peripheral Infusion; Ultrasound Guided Peripheral Catheter Insertion: How Successful is it Really?
20. World Congress of Vascular Access 2014 Exit site vs puncture site PICCs and CICC; CICCs and PICCs Risk of Thrombosis.
21. Guest speaker Gruppo Aperto 'Gil Accessi Venosi Centrali a Lungo Termine' Turin, Italy 2013.
22. Speaker at Bay Area Vascular Access (BAVAN) Evidence Based Outcomes for PICCs, 2013
23. Association of Vascular Access lecturer Ultrasound Tips and Tricks with Dr. Jack LeDonne, 2013
24. Hospital Israelita Albert Einstein International Symposium Speaker on Access and Vascular Infusion Therapy São Paulo Brazil July 2012.
25. Association of Vascular Access 2012 Risk Associated with Exit Site
26. World Congress of Vascular Access 2012 Risk Associated with Exit Site
27. Association of Vascular Access 2011 Annual Conference, Lecturer on Implications of Precise Tip Placement: Towards a New Gold Standard.
28. Gavecelt 2011 Presentation Proposal of New International Classification for Central Venous Catheters: Impact of Exit Site and Insertion Method on Risk of Complications – A Call to Action
29. Association of Vascular Access Poster/Abstract Presentation 2011 Proposal of New International Classification for Central Venous Catheters: Impact of Exit Site and Insertion Method on Risk of Complications – A Call to Action
30. 3M Leadership Summit Presentation 2011 Vessel Health and Preservation: Integration of Guidelines into Clinical Practice
31. Enhancing Best Practice in Vascular Access speaker International Conference Addenbrooke's Hospital Cambridge University Hospital NHS September 2010.
32. Association of Vascular Access Poster Presentation. Driving Clinical Practice to the Next Level: A Collaborative Project on Vessel Health and Preservation. 2010
33. APIC Breakfast Symposium Infection the Risk is Real: Every Choice Matters speaker July 2010. Summer 2009, Spring of 2010 topics included Evidence-Based Practice for Intravenous Therapy, Establishment of IV Teams, Managing Securement for Care of Intravenous Devices
34. Moureau N, Trick N. Vessel Health and Preservation through Clinical Pathways of Care Presentation: Association of Vascular Access 23rd Annual Conference, September 16th, 2009.
35. Guest speaker, lecturer and trainer Gavecelt International Congress, Rome, Italy December 2007, 2009, 2011.
36. Keynote speaker 3rd annual National Congress of Intravenous Nurses, Pamplona, Spain Oct 2008
37. Guest speaker Gruppo Aperto 'Gil Accessi Venosi Centrali a Lungo Termine' Rome, Italy April 2008
38. Keynote speaker 1st Congresso Nazionale Infermieristico Accessi Vascolari Pisa, Italy April 2008
39. Maine Vascular Access Conference and New Hampshire Association of Vascular Access Ultrasound Certification Workshop, 2008.

40. Maine Vascular Access Conference 2007, Complications from a PICC: Legal Review.
41. Ultrasound Certification workshop, Lessons Learned from the Foot of a Bed. Phoenix, AR, 2006 Advanced Ultrasound Assessment.
42. AVA 19th Annual 2006 AVA Conference in Savannah, GA. Topics included Abstract Presentation Use of Alteplase for Treatment of Occluded Central Venous Catheters in Home Care, Publications Workshop, and How to Set Up and Complete A Research Trial.
43. Post Conference Advanced Refresher for Peripherally Inserted Central Catheters, Association for Vascular Access, Vancouver, British Columbia 2004. AVA Post Conference speaker for 7 consecutive years through 1997-2004.
44. Keynote Speaker 4th Annual 2004 International Conference IV Therapy Home/Hospital, Research on Complications with Central Venous Catheters. Oxford, England. At 5th Annual 2005 and 6th Annual 2006 Conferences.
45. League of Intravenous Therapy Education Convention Speaker 2004
46. Green Bay Association Central Venous Access Therapy (CVAT) Speaker 2003, 2006. Implementing the Standard of Care.
47. Pre-Conference Seminar: Advanced Techniques with PICCs, In conjunction with Vygon and the Royal College of Nursing, London, England 2003.
48. Sonosite on-site PICC Trainer PICC Ultrasound Board for Curriculum Development and Image Guidance Training. for Ultrasound 1999-present.
49. National Home Infusion Association Annual Conference, Breakfast Symposium, Maintaining Catheter Patency: Clinical and Cost Implications, 1998.
50. National Speaker at Intravenous Nurses Society 1993, 1995, 1997, 1998, 2000, 2023, 2024; Pediatric IVs Pediatric PICCs, Fluid and Electrolyte Basics. Colorado May 1993 Speaker, Intravenous Nurses Society.
51. Conference Seminar Speaker for North Florida Intravenous Nurses Society 1994-96.

Publications 1997-2024

1. Moureau N. Hydrophilic biomaterial intravenous hydrogel catheter for complication reduction in PICC and midline catheters. *Expert Review of Medical Devices*. 2024 Mar 8:1-0.
2. Moureau N. Device profile of the Orchid safety release valve for the prevention of accidental catheter dislodgement. *Expert Review of Medical Devices*. 2023 Jul 3;20(7):529-36.
3. Buchanan C, Burt A, Moureau N, Murray D, Nizum N. Registered Nurses' Association of Ontario (RNAO) best practice guideline on the assessment and management of vascular access devices. *The Journal of Vascular Access*. 2023 Apr 26:11297298231169468.
4. Bell JA, Campos C, Moureau N. Validation and Reliability of the Comprehensive Difficult IV Access Scoring Tool. *Int J Nurs Health Care Res*. 2023;6:1414.
5. Moureau NL, E McKneally, D Hofbeck, J Sharp, B Hanley, V Williams (2022) Integrative Review: Complications of Peripherally Inserted Central Catheters (PICC) and Midline Catheters with Economic Analysis of Potential Impact of Hydrophilic Catheter Material. *Int J Nurs Health Care Res* 5: 1347. DOI: <https://doi.org/10.29011/2688-9501.101347>
6. Foor JS, Moureau NL, Gibbons D, Gibson SM. Investigative study of hemodilution ratio: 4Vs for vein diameter, valve, velocity, and volumetric blood flow as factors for optimal forearm vein selection for intravenous infusion. *The Journal of Vascular Access*. 2022 May 7:11297298221095287.
7. Buzas B, Smith J, Gilbert GE, Moureau N. Home infusion pharmacy quality improvement for central venous access devices using anti-reflux needleless connectors to reduce occlusions, emergency room visits, and alteplase costs. *American Journal of Health-System Pharmacy*. 2022 Mar 22.

8. Ostroff MD, Moureau N, Pittiruti M. Rapid assessment of vascular exit site and tunneling options (RAVESTO): a new decision tool in the management of the complex vascular access patients. *The Journal of Vascular Access*. 2021 Jul 21;11297298211034306.
9. Ostroff M, K Aberger, N Moureau. Case report: End of life care via a mid-thigh femoral midline catheter. *The Journal of Vascular Access*, doi: 11297298211043410
10. Ostroff M, A Zauk, S Chowdhury, N Moureau, C Mobley. A retrospective analysis of the clinical effectiveness of subcutaneously tunneled femoral vein cannulations at the bedside: a low-risk central venous access approach in the neonatal intensive care unit. *The Journal of Vascular Access*, doi: 1129729820969291
11. Moureau N, G Gregory E. Survey of ultrasound-guided peripheral intravenous practices: a report of supply usage and variability between clinical roles and departments. *British Journal of Nursing* 29 (19), S30-S38.
12. Fiorini J, G Venturini, S Colella, M Adamo, F Zaghini, N Moureau, F Conti, et al. An integrated system for Peripherally Inserted Central Catheter tip confirmation in oncology and haematology patients. *Professioni Infermieristiche* 73 (3), 205-212.
13. Moureau NL. Vessel health and preservation: the right approach for vascular access. *Springer Nature*; 2019. Open Access. <https://www.springer.com/fr/book/9783030031480>
14. Steere L, Ficara C, Davis M, Moureau N. Reaching One Peripheral Intravenous Catheter (PIVC) Per Patient Visit with Lean Multimodal Strategy: the PIV5Rights™ Bundle. *Journal of the Association for Vascular Access*. 2019;24(3):31-43.
15. Moureau N, Marsh N, Zhang L, Bauer M, Larsen E, Mihala G, Corley A, Lye I, Cooke M, Rickard C. Evaluation of Skin Colonisation And Placement of vascular access device Exit sites (ESCAPE Study). *Journ Infect Prev* 2019;20(1):51-59. DOI: 10.1177/1757177418805836.
16. Moureau N. Impact and Safety Associated with Accidental Dislodgement of Vascular Access Devices: A Survey of Professionals, Setting and Devices. *Journ Assoc Vasc Access*. 2018;23(4):203-215. <https://doi.org/10.1016/j.java.2018.07.002>.
17. Ostroff M, Moureau N. Review and Case Studies of Midhigh Femoral Central Venous Catheter Placement. *Journal of the Association for Vascular Access* 2018;23 (3), 167-175
18. Moureau N, Carr P. Vessel Health and Preservation: a model and clinical pathway for using vascular access devices. *British Journal of Nursing* 2018;27(8), S28-S35
19. Hull G, Moureau N, Sengupta S. Quantitative Assessment of Reflux in Commercially Available Needle-free IV Connectors. *Journal of Association of Vascular Access* 2017;19(1):12-22.
20. Chopra V, Kuhn L, Vaughn V, Ratz D, Winter S, Moureau N, Meyer B, et al. Does Certification in Vascular Access Matter? An Analysis of the PICC1. *American Journal of Nursing* 2017;117(12):24-34. Survey.
21. Moureau N. Vessel Health and Preservation: Vascular Access Assessment, Selection, Insertion, Management, Evaluation and Clinical Education Thesis. 2017. Griffith University, Brisbane, Australia. <https://www120.secure.griffith.edu.au/rch/items/e6aea329-fae8-4c41-aa3f-6b4f80298977/1/>
22. Ostroff M, Moureau N. Report of Modification for Peripherally Inserted Central Catheter Placement: Subcutaneous Needle Tunnel for High Upper Arm Placement. *J Infusion Nurs*. 2017;40(4):1-6.
23. Broadhurst D, Moureau N, Ullman A. Management of Central Venous Access Device-Associated Skin Impairment. *J Wound Ostomy Continence Nurs*. 2017;44(3):1-10.
24. Smith, S.N., Moureau, N., Vaughn, V.M., Boldenow, T., Kaatz, S., Grant, P.J., Bernstein, S.J., Flanders, S.A. and Chopra, V., 2017. Patterns and Predictors of Peripherally Inserted Central Catheter Occlusion: The 3P-O Study. *Journal of vascular and interventional radiology: JVIR*.
25. Moureau N, Chopra V. Indications for Peripheral, Midline and Central Catheters: Summary of the Michigan Appropriateness Guide for Intravenous Catheters Recommendations. *J Assoc Vasc Access*. 2016;21(3):140-148.
26. Moureau N, Chopra V. Indications for Peripheral Midline and Central Catheters: Summary of the Michigan Appropriateness Guide for Intravenous Catheters Recommendations. *Brit J Nurs*. 2016;25(8):S15-S24.

27. Chopra V, Flanders SA, Saint S, Woller SC, O'Grady N, Safdar N, Trerotola S, Saran R, Moureau N, et al. The Michigan Appropriateness Guide for Intravenous Catheters (MAGIC): Results from a Multispecialty Panel Using the RAND/UCLA Appropriateness Method. *Ann Int Med* 2015;163(6_suppl):S1-40.
28. Broadhurst D, Moureau N, Ullman A. Central venous access devices site care practices: an international survey of 34 countries. *Journ Vasc Access*. 2015; 17(1):e1-e27.
29. Moureau N and Flynn J. Disinfection of Needleless Connector Hubs: Clinical Evidence Systematic Review. *Nurs Research and Pract*. 2015. 1-20.
30. Moureau N, Sigl G, Hill M. How to Establish an Effective Midline Program: A Case Study of 2 Hospitals. *JAVA* 2015;20(3):179-188.
31. Moureau, N. Catheter associated bloodstream infections: What is missing? *Brit J Health Man*. 20(11):502-510.
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