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January, 2022

Education:

M.S., Applied Statistics, Villanova University, Villanova, Pennsylvania

M.D., University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania

B.S.E., Princeton University, Princeton, New Jersey (High Honors in Electrical Engineering)

Postgraduate Training:

Internship, Internal Medicine, New York Veterans Administration Hospital

Residency, Department of Anesthesia, Hospital of the University of Pennsylvania

Fellowship, Cardiothoracic Anesthesia, Hospital of the University of Pennsylvania

Licensure and Certification:

Diplomate, National Board of Medical Examiners

Diplomate, American Board of Anesthesiology (#9881); voluntary recertification (current)

Licensed Physician in Pennsylvania (current)

Basic and Advanced Life Support, American Heart Association (current)

Industry Positions Held:

Clinical Development Lead, Cardiovascular, Global Drug Development, Bristol Myers Squibb, Lawrenceville, NJ (current)

Executive Director, Global Clinical Development, Merck & Co., North Wales, Pennsylvania

Executive Director, Global R&D, AstraZeneca LP, Wilmington, Delaware

Vice President, Clinical Development, IBEX Technologies Corporation, Montréal, Québec

Academic Positions Held:

Current:

Clinical Professor, Anesthesiology & Critical Care Medicine, University of Pennsylvania

Adjunct Professor, Physiology & Pharmacology, Drexel University, Philadelphia, PA

Prior:

Professor, Anesthesiology & Perioperative Medicine, Drexel University College of Medicine

Chairman, Department of Anesthesiology, Drexel University College of Medicine

Professor of Physiology & Pharmacology, Drexel University College of Medicine

Professor of Biostatistics and Epidemiology, School of Public Health, Drexel University

Adjunct Scholar, Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania

Clinical Professor, Anesthesiology, MCP ♦ Hahnemann University, Philadelphia, PA

Professor, Anesthesiology, Hahnemann University, Philadelphia, PA

Instructor in Anaesthesia, Harvard Medical School, Brigham & Women's Hospital, Boston

Honors and Awards:

Fellow, American College of Cardiology
Merck Special Achievement Award for Scientific Leader Engagement
AstraZeneca CEO Award for Global Product Team Performance
AstraZeneca US Leadership Team Award for FDA Inspection Conduct
AstraZeneca CEO Award for Genetics Analysis and Publication
Distinguished Performance, AstraZeneca LP, Wilmington, DE
AstraZeneca US Drug Development Innovation Award
Henry Ruth Achievement Award for Anesthesia Education, Drexel University
Fellow, American Heart Association, Council on Cardiothoracic & Vascular Surgery
Alpha Omega Alpha, National Medicine Honor Society, election as faculty member
Tau Beta Pi, National Engineering Honor Society

Major Pharmaceutical Industry Successes

- Label extension, ZONTIVITY[®] (vorapaxar), in EU (type II variation)
- CTD submission, approval/registration of BRILINTA[®] (ticagrelor) globally
- CTD submission, approval/registration of EXANTA[®] (ximelagatran) in EU
- Management, multiple Executive Committees for large-scale cardiovascular outcome trials

Anesthesiology Departmental Leadership:

Director, Division of Cardiothoracic Anesthesia, Hahnemann University
Deputy Chair, Anesthesiology, Hahnemann University
Vice Chair, Anesthesiology, MCP ♦ Hahnemann School of Medicine
Chief, Clinical Operations, Anesthesia, Hahnemann Hospital, Allegheny Univ of Health Sci
Clinical Service Chief, Anesthesia, Hahnemann Hospital, Allegheny Univ of Health Sci
Program Director and Chair, Department of Anesthesiology, Drexel University

Hahnemann University Leadership:

University Library Committee (**Chair** 3 years)
Student Affairs/Scholarship Committee School of Medicine (**Co-chair** 4 years)
Committee for Protection of Human Subjects (IRB; 8 years)
Vice Chair 1 year, **Co-Chair** 3 years, **Chair** 1 year
Chair, Search Committee for Chair, Internal Medicine
Member, Search Committee for Chair, Cardiothoracic Surgery
Chair, University Scientific Misconduct Hearing (Case “HS”)

National Leadership:

For the Society of Cardiovascular Anesthesiologists:
Education Committee (3 years)
Grievance Committee (6 years)
Annual Meeting Scientific Program Committee (8 years); Vice-Chair (2 years); Chair (2 years)
Grader, Abstracts for Annual Scientific Meeting (6 years)
Elected, Board of Directors (3 years)
For the Association of Anesthesia Clinical Directors:
Elected, Treasurer (2 years)

For the American Board of Anesthesiology (accrediting body):
Associate Oral Examiner (25 years)

Editorial Positions:

Associate Editor, *Anesthesiology* (4 years)
Editorial Board, American Journal of Anesthesiology (2 years)
Editorial Board, Journal of Cardiothoracic and Vascular Anesthesia (20 years)

Consultantships

National Board of Medical Examiners
National [Canada] Health Research & Development Program
Medical Research Council [Canada]
ECRI

Patents

US Patent number 8,798,701, "Functional Near-Infrared Spectroscopy as A Monitor For Depth Of Anesthesia," issued August 5, 2014. Drexel Docket No. 07-0868D/P

Scientific Advisory Board Participation and Consultantships:

Johnson & Johnson Pharmaceutical Research & Development
Endo Pharmaceuticals, Chadds Ford, Pennsylvania
GEM Pharmaceuticals, Pelham, Alabama
IBEX Technologies, Montreal, Quebec, Canada and Malvern, Pennsylvania
International Technidyne Corporation, Edison, New Jersey
Repligen Corporation, Cambridge, Massachusetts

Active Memberships in Professional Societies

American Society of Anesthesiologists
International Anesthesia Research Society
Association of University Anesthesiologists
American College of Cardiology
American Heart Association, professional level membership

Competitive Grants:

Parker B. Francis Foundation, *via* American Society of Anesthesiologists: Neuromuscular Junction Studies of Rat Diaphragm. **Principal Investigator**
Mary L. Smith Charitable Lead Trust: Pharmacologic Control of Bleeding after Open Heart Surgery. (\$45,500) **Principal Investigator**
Mary L. Smith Charitable Lead Trust: Pharmacologic Control of Bleeding: Dose-Response Aspects. (\$54,500) **Principal Investigator**
Mary L. Smith Charitable Lead Trust: Tranexamic Acid Protects Platelets during Cardiopulmonary Bypass. (\$52,000) **Principal Investigator**

Commercially sponsored Grants:

- Mon-A-Therm, Inc (St. Louis, MO): Thermal Disequilibrium and Cardiopulmonary Bypass. (\$2,700) **Principal Investigator**
- Akzo, Inc: Pipecuronium v. Pancuronium during Open Heart Surgery. (\$47,063) **Principal Investigator**
- Miles, Inc.: Efficacy and Safety of Aprotinin in Reducing Blood Loss and Transfusion Requirement in Patients under-going Repeat Myocardial Revascularization (\$153,720) **Principal Investigator**
- Akzo, Inc.: Which Relaxant is Optimal for Opioid Anesthesia? (\$59,385) Associate Investigator
- Gensia Pharmaceuticals: A randomized double blind controlled study of the effect of acadesine in myocardial infarction and averse cardiovascular outcomes in patients undergoing coronary artery bypass graft (CABG) surgery (\$90,000), **Co-investigator**
- Zeneca Pharmaceuticals: The effects of Zeneca ZD0859#1 versus Diprivan (Propofol) injection on electrolytes and hemodynamic stability when each is used with high dose or low dose opioid for cardiac surgery. (\$47,090) **Principal Investigator**
- Abbott Laboratories: A phase III multi-center, double-blind, randomized comparative study evaluating the effects of two doses of dexmedetomidine versus placebo in adult patients undergoing elective CABG. (\$120,000) Associate Investigator
- IBEX Technologies: An open label, phase II dose ranging study of Neutralase in patients undergoing coronary artery bypass grafting. (\$87,000) **Principal Investigator**
- IBEX Technologies: Comparison of Neutralase with protamine in patients under-going coronary artery bypass graft surgery. (\$68,500) **Principle Investigator**
- GlaxoSmithKline: A Phase III, Multicenter, Randomized, Double-blind, Parallel Group Study to Evaluate the Safety and Efficacy of 50 mg Oral Dosing with the Neurokinin-1 Receptor Antagonist GW679769 for the Prevention of Postoperative Nausea and Vomiting in Female Subjects at High Risk for Emesis. **Principle Investigator**
- Merck: A randomized, double-blind comparison of oral aprepitant alone vs oral aprepitant and transdermal scopolamine for preventing postoperative nausea and vomiting. (\$40,020) **Principal Investigator**

Bibliography Summary: 116 articles in peer-reviewed journals
42 book chapters plus 1 edited monograph
12 editorials and 27 miscellaneous monographs
>100 scientific abstracts and 25 letters to the editor
NOTE: Bibliographic summary may be incomplete.

BIBLIOGRAPHY

Articles in Peer-Reviewed Journals: (* =original research; others: case reports or reviews)

1. Schwartz AJ, Horrow JC, Jobes DR, Ellison N: Guide Wires - A Caution. Crit Care Med **9**:347-348, 1981.
2. Horrow JC, Laucks SO: Coronary Air Embolism during Venous Cannulation. Anesthesiology **56**:212-214, 1982.
3. * Horrow JC, Bartkowski RR: Pancuronium, unlike other non-depolarizing relaxants, retains potency at hypothermia. Anesthesiology **58**: 357-361, 1983.
4. * Metz S, Horrow JC, Balcar I: A Controlled Comparison of Techniques for Locating the Internal Jugular Vein Using Ultrasonography. Anesth Analg **63**: 673-679, 1984.
5. * Horrow JC, Lambert DL: The Search for an Optimal Interval Between Pretreatment Dose of d-Tubocurarine and Succinylcholine. Can Anaesth Soc J **31**:528-533, 1984.
6. Raemer D, Horrow JC, Mark JB, Maddi R, Collins JJ, LeeSon S: A New Surgical Monitoring and Resuscitation Cart. Med Instr **18**:189-190, 1984.
7. Horrow JC: Thrombocytopenia Accompanying a Reaction to Protamine Sulfate. Can Anaesth Soc J **32**:63-66, 1985.
8. Horrow JC: Protamine – A Review of its Toxicity. Anesth Analg **64**:348-361, 1985.
9. * Horrow JC, Metz S, Thickman D, Frederic MW: Prior Carotid Surgery Does Not Affect the Reliability of Landmarks for Locating the Internal Jugular Vein. Anesth Analg **66**:452-456, 1987.
- 10.* Horrow JC, Jaffe JR, Rosenberg H: A Laboratory Evaluation of Resistive Intravenous Flow Regulators. Anesth Analg **66**:660-665, 1987.
11. Litwack RS, Horrow JC: Lethal Thrombosis during Coronary Artery Bypass Surgery. Anesthesiology **66**:134-136, 1987.
- 12.* Mark JB, Horrow JC, Eckenbrecht PD, Smalky M, Arthur GR, Dhingra U, Murray E: Anesthetic induction with fentanyl and intravenous lidocaine for coronary surgery. J Cardiothorac Anesth, **1**:517-523, 1987.
13. Horrow JC: Protamine Allergy. J Cardiothorac Anesth **2**:225-242,1988.
14. Crell A, Horrow JC, Barker SJ, Hessel EA: Malfunction of an Intra-aortic Balloon Detected by Oximetry [Case Conference 5-1988]. J Cardiothoracic Anesth **2**: 693-700, 1988.

- 15.* Horrow JC, Rosenberg H: Does Urinary Catheter Temperature Reflect Core Temperature During Cardiac Surgery? *Anesthesiology* **69**:986-989, 1988.
- 16.* Weiss ME, Nyhan D, Peng Z, Horrow JC, Lowenstein E, Hirshman C, Adkinson NF: Association of Protamine IgE and IgG Antibodies with Life-threatening Reactions to Intravenous Protamine. *N Engl J Med* **320**:886-892, 1989.
17. Horrow JC, Lingaraju N: Unexpected persistent left superior vena cava: diagnostic clues during monitoring. *J Cardiothoracic Anesth* **3**: 611-615, 1989.
- 18.* Horrow JC, Hlavacek J, Strong MD, Collier W, Brodsky I, Goldman SM, Goel IP: Prophylactic tranexamic acid decreases bleeding following cardiac surgery. *J Thorac Cardiovasc Surg* **99**:70-74, 1990.
- 19.* Horrow JC, DiGregorio GJ, Barbieri EJ, Rupp E: Intravenous infusions of nitroprusside, dobutamine, and nitroglycerin are compatible. *Crit Care Med* **18**: 858-861, 1990.
- 20.* Maddi R, Horrow JC, Mark JB, Concepcion M, Murray E: Evaluation of a new cutaneous topical anesthetic preparation. *Reg Anesth* **15**:109-112, 1990.
- 21.* Van Riper DF, Horrow JC, Kutalek SP, McCormick D, Goldman SM: Mixed venous oxygen saturation during cardiac arrest. *J Cardiothoracic Anesth* **4**:453-457, 1990.
22. Campbell FW, Tyson GS, Gravlee GP, Horrow JC, Tuman KJ : A 66-year old woman who is taking aspirin continues to bleed after routine care [Case Conference 4-1990]. *J Cardiothoracic Anesth* **4**:499-517, 1990.
- 23.* Allen G, Horrow JC, Rosenberg H: Does forehead liquid crystal temperature reflect core temperature? *Can J Anaesth* **37**:659-662, 1990.
24. Horrow JC, Pharo G: Successful defibrillation with near-simultaneous orthogonal discharges. *Anesthesiology* **75**:362-364, 1991
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- 26.* Horrow JC, Van Riper DF, Strong MD, Brodsky I, Parmet JL: The hemostatic effects of tranexamic acid and desmopressin during cardiac surgery. *Circulation* **84**:2063-2070, 1991.
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28. Cook RI, Woods DD, Howie MB, Horrow JC, Gaba DM: Unintentional delivery of vasoactive drugs with an electromechanical infusion device. *J Cardiothoracic Vasc Anesth* **6**:238-244, 1992.

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32. Pharo GH, Horrow J, Van Riper D, Levy JH: Suspected Protamine Allergy: Diagnosis and Management for Coronary Artery Surgery. *Anesth Analg* **78**:181-184, 1994
33. Metz S, Horrow J: CPB and alterations in hemostasis: New strategies for management. *Sem Anesth* **13**:50-56, 1994
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- 38.* Horrow JC, Rosenberg H: Price stickers do not affect drug usage. *Can J Anaesth* **41**:1047-1052, 1994
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- controlled trial of aprotinin for reducing blood loss and the requirement for donor-blood transfusion in patients undergoing repeat coronary artery bypass grafting. *Circulation* **92**: 2236-2244, 1995
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 46. * Okum GS, Hauser AC, Keykhah MK, Horrow JC: Sufentanil plasma concentrations following lower extremity tourniquet release. *J Clin Anesth* **8**: 210-215, 1996
 47. * Bennett JA, Horrow JC: Activated coagulation time: One tube or two? *J Cardiothorac Vasc Anesth* **10**:471-473, 1996
 48. * Metz S, Horrow JC, Goel IP, Kuretu MRL, Bellwoar C: Methylene blue does not neutralize heparin after cardiopulmonary bypass. *J Cardiothorac Vasc Anesth* **10**:474-476, 1996
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 50. * Abrams JT, Horrow JC, Bennett JA, Storella RJ, Van Riper DF: Upper Airway Closure: A primary source of difficult ventilation with sufentanil induction. *Anesth Analg* **83**: 629-632, 1996
 51. * Bennett JA, Horrow JC, Abrams JT, Van Riper DF: Difficult or impossible ventilation after sufentanil-induced anesthesia is caused primarily by vocal cord closure. *Anesthesiology* **87**:1070-1074, 1997.
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56. Robinson D, Parmet JL, Horrow JC: Coagulation Emergencies. *Sem Anesth Perioper Med Pain* 17: 111-120, 1998.
- 57.* Storella RJ, Horrow JC, Polansky M: Differences among heart rate variability measures after anesthesia and cardiac surgery. *J Cardiothoracic Vasc Anesth* 13: 451-453, 1999.
58. Urdaneta F, Lobato EB, Kirby RR, Horrow JC: Noncardiogenic pulmonary edema associated with protamine administration during coronary artery bypass graft surgery. *J Clin Anesth* 11: 675-681, 1999.
59. Horrow JC. Uncommon coagulation problems. *Adv Cardiac Surg* 12: 153-168, 2000.
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- 67.* Chamchad D, Arkoosh V, Horrow JC, Buxbaum J, Izrailtyan I, Nakhamchik L, Hoyer D, Kresh JY: Risk Stratification of Obstetric Patients undergoing Spinal Anesthesia. *Anesth Analg* 99: 1818-21, 2004

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- Academic bleeding consensus multidisciplinary working group (Horrow J included). Standardized reporting of bleeding complications for clinical investigations in acute coronary syndromes. A proposal from the academic bleeding consensus (ABC) multidisciplinary working group. *Am Heart J* 2009; **158**: 881-6e1
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