

Curriculum Vitae

Norman H. Tiffin BSc MSA

DATE OF BIRTH: June 25, 1957

PLACE OF BIRTH: Hagersville, Ontario, Canada

NATIONALITY: Canadian

CONTACT: 22551 Jury Road
Komoka, Ontario
Canada N0L 1R0

c: (226) 346-1414
email: norm@tiffin.ca

EDUCATION & FELLOWSHIPS

- 2013 Fellow, Canadian Society of Respiratory Therapy
Canadian Society of Respiratory Therapy
Ottawa, Ontario
- 1995 Marketing Management, Executive Education Certificate
Ivey Business School, University of Western Ontario
London, Ontario
- 1993 Master of Science in Administration Degree (Health Care)
Central Michigan University
Mount Pleasant, Michigan
- 1983 Respiratory Therapy Diploma
Fanshawe College
London, Ontario
- 1981 Bachelor of Science Degree (Biology)
University of Western Ontario
London, Ontario
- 1976 Secondary School Honours Graduation Diploma
G.A. Wheable Secondary School
London, Ontario

EMPLOYMENT – Full Time

- 2015-present Partner/VP
Carswell Partners
London, Ontario
- 2013-2015 President
IPAC Consulting
London, Ontario, Canada
- 2012-2013 VP, Sales and Marketing
Salus Global Corporation
London, Ontario, Canada
- 2012 - 2012 VP, Business Development
Rehab First Inc
London, Ontario, Canada
- 2009 – 2019 President/Consultant
Tiffin Consulting
Komoka, Ontario, Canada
- 2007-2009 VP, Marketing and Business Development
Hydrate, Inc., Division of Pari in the Americas
Midlothian, Virginia, USA

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|-----------|---|
| 2005-2007 | VP, Marketing
Pari Respiratory Equipment, Division of Pari in the Americas
Midlothian, Virginia, USA |
| 2003-2005 | Director of Medical/Marketing Research & Education
Pari Respiratory Equipment, Division of Pari in the Americas
Midlothian, Virginia, USA |
| 2000-2003 | Director of Sales and Marketing
Breathe Plus, Inc.
Maumee, Ohio, USA/London, Ontario |
| 1998-2000 | NA Marketing Manager, Home Care
Praxair Healthcare, Division of Praxair, Inc
Danbury, Connecticut, USA |
| 1997-1998 | Canadian Marketing Manager, Home Care
Medigas, Division of Praxair Canada
Toronto, Ontario |
| 1993-1997 | Regional Manager, Home Care Services, SW Ontario
Medigas, Division of Praxair Canada
London, Ontario |
| 1989-1993 | Branch Manager/Patient Care Co-ordinator
Aerocare Home Medical Limited
Sarnia, Ontario |
| 1987-1989 | Clinical Research Co-ordinator
Paediatric Critical Care Unit, Department of Paediatrics
Children's Hospital of Western Ontario, London, Ontario |
| 1986-1987 | Operating Room Specialist
Department of Respiratory Therapy, Victoria Hospital
London, Ontario |
| 1983-1986 | Staff Respiratory Therapist
Department of Respiratory Therapy, Victoria Hospital
London, Ontario |

EMPLOYMENT – Part Time

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|--------------|---|
| 1994-present | Consultant, Medical Research, Statistics and Medical Device Marketing
Sarnia/London, Ontario
Richmond, Virginia |
| 2003-2005 | Web Site Design
Self-employ
Sarnia, Ontario |

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- 1995-1999 Instructor, Centre for Continuing Professional Education
Michener Institute of Applied Sciences
Toronto, Ontario
- 1996-1999 Editor-in-Chief
RRT: Canadian Journal of Respiratory Therapy
Ottawa, Ontario
- 1997-1996 Instructor, CPR certification
LifeSave Sarnia and LifeSave London
London and Sarnia, Ontario
- 1989-1992 Staff Respiratory Therapist (casual)
Department of Respiratory Therapy, Victoria Hospital
London, Ontario
- 1987-1989 Respiratory Therapist Consultant
Aerocare Home Medical Limited
London, Ontario
- 1984-1987 Research Assistant
Dr. T.C. Frewen, Department of Medicine
University of Western Ontario,
London, Ontario

LICENCES, TRAINING & CERTIFICATION

- 2008 Mechanical Ventilation Workshop
American Association of Chest Physicians
Orlando, Florida
- 2007 Negotiation Skills Course
Kellogg School of Management, Northwestern University
Chicago, Illinois
- 2005 Asthma Educator Course
American Association of Respiratory Care
Los Angeles, California
- 2001 Hockey Trainer Certification
Ontario Minor Hockey Association
Sarnia, Ontario
- 1996 Scientific Editor Certificate
Council of Biology Editors
Portland, Oregon

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- 1993 Sales Course
Medigas, Inc
Toronto, Ontario
- 1991 License, Registered Respiratory Therapist
College of Respiratory Therapists of Ontario
Toronto, Ontario
- 1990 Sales Course
Aerocare Home Medical
Stratford, Ontario
- 1989 Provider, Advanced Cardiac Life Support Certificate
Heart and Stroke Foundation of Canada
- 1986 Instructor, Basic Cardiac Life Support Certificate
Heart and Stroke Foundation of Canada
London, Ontario
- 1983 Registered Respiratory Therapy registration
Canadian Society of Respiratory Therapists
Ottawa, Ontario
- 1982 Provider, Basic Cardiac Life Support Certificate
Heart and Stroke Foundation of Canada
London, Ontario
- 1981 Hockey Referee Certification (level 3.2)
Ontario Minor Hockey Association
London, Ontario
- 1980 Softball Umpire Certification
Ontario Softball Association
London, Ontario

VOLUNTEER POSITIONS AND APPOINTMENTS

- 2012-present Chairperson, Board of Directors
The Rock on Campus Canada (Not for Profit Organization)
London, Ontario
- 2010-2018 Deputy Editor/Editorial Board member
Canadian Journal of Respiratory Therapy
Ottawa, Ontario
- 2011-2014 Board Member
Forest City Bible Church
London, Ontario

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|-----------|---|
| 2012-2013 | Founding Member
Research Committee, Respiratory Therapy Society of Ontario
Toronto, Ontario |
| 2005-2008 | Chair, Pastoral Search Committee
People's Church
Wyoming, Ontario |
| 2004-2005 | Founder/Lead
Nebulizer Manufacturers Group
USA |
| 2001-2004 | Chair, Building Expansion Committee
People's Church
Wyoming, Ontario |
| 2002-2006 | Content and Statistical Consultant
<i>Canadian Journal of Respiratory Therapy</i>
Ottawa, Ontario |
| 1997-1998 | Member, Community Health Care Funding Distribution Task Force
Ministry of Health
Toronto, Ontario |
| 1992-1995 | Associate Editor
<i>RRT: Canadian Journal of Respiratory Therapy</i>
Ottawa, Ontario |
| 1994-1996 | Member, Research Committee
Ontario Home Respiratory Services Association
Toronto, Ontario |
| 1992-1993 | Member, Steering Committee
Home Liquid Oxygen Ontario
Drug Benefit Ministry of Health Toronto, Ontario |
| 1992-1993 | Member, Transitional Council for College of Respiratory Therapists of Ontario
Health Protection Branch, Ontario Ministry of Health
Toronto, Ontario |
| 1991-1993 | Member, CPR Citizen Committee
Sarnia General Hospital
Sarnia, Ontario |
| 1990-1992 | Assistant Editor
<i>RRT: Canadian Journal of Respiratory Therapy</i>
Ottawa, Ontario |
| 1990-1993 | Chair, Rehabilitation Committee
Lambton Lung Association
Sarnia, Ontario |

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| 1990-1993 | Member, Board of Directors
Sarnia/Lambton Lung Association
Sarnia, Ontario |
| 1988-1991 | Member, Editorial Board
<i>Update</i> , Ontario Respiratory Care Society scientific publication
Toronto, Ontario |
| 1988-1989 | Member, Committee F-29 Anaesthetic and Respiratory Equipment
American Standard for Testing and Materials
Philadelphia, Pennsylvania, USA |
| 1988-1989 | Member, Clinical Review Panel Respiratory Adjuncts
Emergency Care Research Institute (ECRI)
Plymouth Meeting, Pennsylvania, USA |
| 1986-1990 | Clinical Consultant
NeoMed Company Inc.
London, Ontario |
| 1987-1988 | Clinical Consultant
VenTech Medical Manufacturing
Hamilton, Ontario |
| 1987-1997 | Co-Founder/Instructor
LifeSave London and LifeSave Sarnia
London and Sarnia, Ontario |

STRATEGIC PLANNING & APPOINTMENTS

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|-----------|--|
| 2017-2018 | Five Year Business Plan (Startup)
Saab Medical Ltd
London, Ontario |
| 2014 | Chair, Strategic Plan (Expansion)
The Rock on Campus Canada
London, ON |
| 2013 | Team Leader, Global Strategic Marketing Plan
Salus Global, Inc
London, ON |
| 2012 | Author, Marketing Plan
Rehab First, Inc
London, ON |
| 2009 | Author, Business Plan - New Division (consultant)
Vapore, Inc.
Alameda, CA |

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| 2007 | Author, Strategic & Business Plan
Hydrate, Inc., Division of Pari Respiratory, GmbH
Richmond, VA |
| 2005 | Global Sinus Products Steering Committee
Pari GmbH
Munich, Germany |
| 2004 | Executive Team – NA strategic planning
PARI Respiratory Equipment
Richmond, Virginia, USA |
| 1998 | North American representative, Global Strategic Plan, Health Care
Praxair, Inc
Danbury, Connecticut |
| 1997 | Team Leader, North American Strategic Plan, Home Care
Praxair, Inc.
Danbury, Connecticut |
| 1996 | Team Leader, Three Year Strategic Plan
Canadian Journal of Respiratory Therapy
Ottawa, Ontario |
| 1996 | Team Leader, Ontario Marketing Task Force
Medigas, Division of Praxair Canada
Toronto, Ontario |

AWARDS AND DISTINCTIONS

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| 2017 | Volunteer of Excellence / Meritorious Service Award
Canadian Society of Respiratory Therapists
Ottawa, Ontario |
| 2007 | R&D 100 Award (Hydrate OMNNI humidification system)
R&D Magazine
Chicago, Illinois |
| 2007 | Pari Leadership Award
Pari Respiratory Equipment
Midlothian, Virginia |
| 2005 | Product Innovation Award (Pari Trek Compressor)
Frost & Sullivan
Palo Alto, California |
| 1983 | Deseret/R.T.S.O. Achievement Award
Fanshawe College, Respiratory Therapy Program
London, Ontario |

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| 1976 | Ontario Scholarship Award
G.A. Wheable Secondary School
London, Ontario |
| 1976 | Outstanding Athlete Award
G.A. Wheable Secondary School
London, Ontario |
| 1976 | Physical Education Award
G.A. Wheable Secondary School
London, Ontario |
| 1973 | Typing Award
G.A. Wheable Secondary School
London, Ontario |

PATENTS

Inline Vaporizer. Patent Number: US007938113

Inline Vaporizer with Breath Detection. Provisional Patent Application No. 61/084,904

Inline Vaporizer with Enhanced Controller Display. Provisional Patent Application No. 61/084,913

Vaporizer Controller with Automated Device Type Determination. Provisional Patent Application No. 61/084,813

CURRICULUM & COURSE DEVELOPMENT

Research and statistics course. Respiratory Therapy Diploma Program. Conestoga College. Kitchener, Ontario. 2006

Research and statistics course. Respiratory Therapy Diploma Program. South Alberta Institute of Technology. Calgary, Alberta. 1999

Statistics for Health Care Professionals seminar. Continuing Professional Education. Michener Institute of Applied Sciences. 1997

Research Methods and Statistics for Health Care Professionals seminar. Continuing Professional Education. Michener Institute of Applied Sciences. 1996

PUBLICATIONS – Book

Tiffin N. Evaluating Medical Research and Statistics: What every respiratory therapist needs to know. Self published. 2002. 74 pp

PUBLICATIONS – Manuscripts

Tiffin NH, Zeman KL and Bennett WD. Efficacy and Variability of Aerosol Delivery from Portable DC-Powered Compressor/Nebulizer Systems. *Can J Resp Ther* 2011 Vol 47:28-33

Tiffin NH. Busting the Myths of Humidification. *Can J Resp Ther* 2010 Vol 46:56-60

Tiffin, Norman H.; Short, Kathy A.; Jones, Samuel W.; Cairns, Bruce A. Comparison of Three Humidifiers during High Frequency Percussive Ventilation Using the VDR-4® Failsafe Breathing Circuit Hub. *J of Burn Care and Research*. 32(3):e45-e50, May/June 2011.

Tiffin N, Weinstein L, Sellers C, Duke J and Cambridge L. A novel capillary force vaporization aerosol generator for inhaled drug delivery. *RDD Europe* 2005: 229-231

Tiffin N, Richardson B and Arthur M. Effect of modality of oxygen supply on compliance among patients receiving home oxygen therapy. *Can J Resp Ther* 1996;32(3):97-100

Tiffin N. Motivation of Respiratory Therapists: an analysis using Maslow's theory of motivation. *RRT: Can J Respir Ther* 1994;33(1):32

Tiffin N. Travelling with Oxygen. *Medigas Inspiration* 1994 Summer

Kissoon N, Monem G, Murphy S, Tiffin N, and Frewen T. Measuring Total Pulmonary Compliance with a Volume-Controlled Infant Resuscitator: A Bench Study. *Respir Care* 1993 38(9):985

Kissoon N, Connors R, Tiffin N, Frewen TC. An Evaluation of the physical and functional characteristics of resuscitators for use in pediatrics. *Crit Care Med* 1992;20:292

Connors R, Frewen TC, Kissoon N, Kronick J, Sommerauer J, Lee R, Singh N, Tiffin N, Brown T. Relationship of cross-brain oxygen content difference, cerebral blood flow, and metabolic rate to neurologic outcome after near-drowning. *J Peds* 1992;121(6):839

Singh NC, Kissoon N, Tiffin N and Frewen T. Physiological Responses to Endotracheal and Oral Suctioning in Pediatric Patients: The role of suction catheter to endotracheal tube sizes and suction pressures. *Clin Intens Care* 1991;2(6):345

Kissoon N, Nykanen D, Tiffin N, Frewen T and Brasher P. Evaluation of performance characteristics of disposable resuscitators. *Crit Care Med* 1991;19:102

Frewen TC, Kissoon N, Kronick JB, and Tiffin N. Relationship of cerebral blood flow, metabolism and cross-brain oxygen extraction to outcome in asphyxiated newborns. *J. Ped* 1991;118:265

Tiffin NH. Writing for Publication. *Ontario Respiratory Care Association Update* 1990;6(3):4

Tiffin NH, Keim MR and Frewen TC. The Effects of Variation in Flow through an Insufflating Catheter and Endotracheal Tube and Suction-Catheter Size on Test-Lung Pressures. *Respiratory Care* 1990;35(9):889

Connors R, Kissoon N, Tiffin NH, Frewen TC and Kronick J. An Evaluation of Physical and Functional Characteristics of Pediatric Resuscitators. *Ped Emerg Care* 1990;6(3):224

Kissoon N, Frewen TC, and Tiffin NH. Evaluation of a Volume Controlled Manual Ventilator in the Infant. Crit Care Med 1990;18:1430

Tiffin NH, Kissoon N and Frewen TC. Evaluation of an Infant Volume Controlled Manual Resuscitator. RRT: Can J Resp Ther 1990;26(3):12

Tiffin NH, Kissoon N, Clarke GD and Frewen TC. Evaluation of Eight Disposable and Two Non-disposable Adult Manual Resuscitators. RRT: Can J Respir Ther 1989;25(3):13

Frewen TC, Sumabat WO, Han VK, Campbell K and Tiffin NH. The Effects of Hypothermia, Hyperventilation and Altered Blood Viscosity on Cerebral Blood Flow, Cross Brain Oxygen Consumption and Cerebral Metabolic Rate for Oxygen in Cats. Crit Care Med 1989;17(9):912

Gayle MO, Frewen TC, Armstrong RF, Gilbert JJ, Kronick JB, Kissoon N, Lee R, Tiffin NH and Brown T. Jugular Venous Bulb Catheterization In Infants and Children. Crit Care Med 1989;17:385

Tiffin NH, Gallant JH, Pasquet EA, Kissoon N and Frewen TC. A Neonatal Volume Controlled Resuscitator. RRT: Can J Resp Ther 1988;24(1):15

Pasquet EA, Frewen TC, Kissoon N, Gallant JH and Tiffin NH. Prototype Volume-Controlled Neonatal/Infant Resuscitator. Crit Care Med 1988;16(1):55

Tiffin NH, Warren JB and Lee RJ. Administration of Ribivirin to a Mechanically Ventilated Infant with Respiratory Syncytial Virus Infection using the Viratek Small Particle Aerosol Generator. RRT: Can J Resp Ther 1987;23:10

Tiffin NH. Mean Airway Pressure: A Review. RRT: Can J Resp Ther 1985;21:19

Tiffin NH. Mean Airway Pressure: A Review. Journal of RTSO 1985:Winter

PUBLICATIONS – Whitepaper/Editorial/Column

Tiffin, Norman H. Why do we still permit tobacco use? Can J Respir Ther 2015;51(4):85

Tiffin, Norman. The Fairness of Consent. RTSO Airwaves. Summer 2012

Tiffin, Norman H. & Nickerson, Jason. Clinical Trial Registration. Can J Respir Ther 2014;49(4):20

Tiffin N. Pari Hydrate: Sophisticated Ventilation with Sophisticated Humidification. Future Healthcare Q1 2007:90-91

Tiffin N. & Whitescarver H. Medical Gas Humidification. What you don't know does matter. Future Healthcare Q2 Spring 2006:144-45

Tiffin N. I want to breathe...now! Future Healthcare Q3 Summer 2006:83

Tiffin N. How many is enough? Can J Respir Ther 1998;34(2):53

Tiffin N. Questionable questionnaires. Can J Respir Ther 1998;34(3):85

Tiffin N. Wanted: leaders with vision. Can J Respir Ther 1997;33(2):43

Tiffin N. Perils of large samples. Can J Respir Ther 1997;33(2):58

Tiffin NH. A great learning experience. Can J Respir Ther 1997;33(3/4):83

Tiffin NH. The importance of study design. Can J Respir Ther 1997;33(3/4):105

Tiffin NH. Thinking about statistics. Can J Respir Ther 1996;32(3):103

Tiffin NH. The changes we promised. Can J Respir Ther 1996;32(3):85

Tiffin N. Are you getting your \$12 worth? RRT: Can J Respir Ther. 1996;32(2):44

Tiffin N. Lessons from home care. RRT: Can J Respir Ther 1995;31(2):58

Kissoon N and Tiffin N. Additional Data on Emergency Ventilation Equipment. Letter to editor. Respir Care 1993 38(2):207

Tiffin NH. Research and the Scientific Method. Part 6: Communication. RRT: Can J Respir Ther Sept 1993;29(3):141

Tiffin NH. Research and the Scientific Method. Part 5: Data Analysis. RRT: Can J Respir Ther 1992;28(4):189

Tiffin NH. Research and the Scientific Method. Part 4: Data Collection. RRT: Can J Respir Ther 1992;28:83

Tiffin NH. Research and the Scientific Method. Part 3: The Literature Search. RRT: Can J Respir Ther 1991;27:30

Tiffin NH. Is University Training in Our Best Interest? (Editorial) RRT: Can J Respir Ther 1990;26(3):8

Tiffin NH. Research and the Scientific Method. Part 2: The Question. RRT: Can J Resp Ther 1990;26(3):5

PUBLICATIONS - Abstracts/Posters

Norman Tiffin and Jim Ruiter. The Effect of a Safety Performance Improvement Program on Workplace Satisfaction in a Labour & Delivery Department. International Society for Quality in Healthcare Conference 2013. Edinburgh, Scotland

NH Tiffin and SF Connelly. Differences in Neurophysiologic Effects between CPAP and a Novel High Flow Therapy System. Can Soc Resp Ther 2012

Norman H Tiffin and Holger Milnikel. Bench test performance evaluation of a new passover humidifier for ventilators. Can Soc Resp Ther 2012

NH Tiffin and SF Connelly. Differences in Hemodynamic Effects between CPAP and a Novel High Flow Therapy System. Can Soc Resp Ther 2012

W Gutmann, NH Tiffin. Efficiency and Variability of a Novel Holding Chamber Using Ipratropium, Albuterol and Beclomethasone MDIs. Amer Thoracis Soc 2012

C. Frankel, N. Tiffin, J. Davies and N. MacIntyre. Intense Pulmonary Rehabilitation Improves 6 Minute Walk Test Distance in Patients with End-Stage Pulmonary Fibrosis. Amer Thoracis Soc 2012

NH Tiffin, SF Connelly. Differences in Neurophysiologic Effects between CPAP and a Novel High Flow System. Critical Care Medicine 2012, 16(Suppl 1):P133

SF Connelly, NH Tiffin. Differences in Hemodynamic Effects between CPAP and a Novel High Flow Therapy System. Int'l Symp on Int Car and EM 2012

Norman H Tiffin, Kirby L Zeman. Efficiency of Portable Nebulizer Systems Using Albuterol. Amer Coll Chest Physicians Conference 2010

Norman H Tiffin, Kirby L Zeman. Efficiency of Portable Nebulizer Systems Using Budesonide. Associat Asthma Educators Conference 2010

NH Tiffin, JL Cornelius. Efficiency of Breath Enhanced Nebulizers vs Conventional Nebulizers. Associat Asthma Educators Conference 2010

A.N. Weigand, L. Cambridge, N.H. Tiffin, U. Schuschnig. Using Respirable Drug Delivery Rate (RDDR) to Compare Delivery Efficiency of Three Commercially Available Breath-Enhanced Nebulizers with Budesonide. Associat Asthma Educators Conference 2010

Norm Tiffin and Kirby L Zeman. Efficiency of Portable Jet Nebulizer Systems Using Budesonide. Am J Resp and Crit Care Med, Vol 181, May 2010

Norman Tiffin, John D. Davies, Neil R. MacIntyre. Gas Humidity during High Frequency Oscillatory Ventilation Using Two Standard Humidifiers and a Novel Humidifier. 2009 Conference on High Frequency Ventilation of Infants, Children & Adults.

John D. Davies, Norman Tiffin, Neil R. MacIntyre. Comparison of a Novel Humidifier with 2 Conventional Humidifiers During High Frequency Oscillatory Ventilation. 2009 International Symposium on Intensive Care and Emergency Medicine

Norman Tiffin, Scott Clary. Comparison of Humidity and Temperature between a Standard Passover Humidifier and Novel Humidifier Technology in Mechanical Ventilation. Am J Resp and Crit Care Med, May 2009

Norman Tiffin, John Davies. Absolute Humidity of Inspired Gas during Flows Simulating Mechanical Ventilation using a Standard Passover Humidifier. Am J Resp and Crit Care Med, May 2009

Uwe Schuschnig, Manfred Keller, Axel Krüner, Dominik Müller, Martin Luber, Norm Tiffin, Ashley Weigand. Paranasal aerosol delivery of Budesonide using PARI VibrENT.

2009 AAO-HNSF conference.

Norman Tiffin, Kathy A Short, William J Hanson, Bruce A Cairns, Samuel W Jones. Humidification Levels during High Frequency Percussive Ventilation Using a Wicking Humidifier and a New Humidifier Technology (Hydrate OMNI™). Amer Associat Resp Care Congress 2008
http://www.rcjournal.com/abstracts/2008/?id=aarc08_134

Norman Tiffin, John D. Davies, Jaime Lynn Tiffin, Charles Fabyanic. Response Time to Flow Changes in a Heated Passover Humidifier. Amer Associat Resp Care Congress 2008
http://www.rcjournal.com/abstracts/2008/?id=aarc08_133

Norman Tiffin, John D. Davies, Neil R. MacIntyre. Comparison of a Novel Humidifier and Passover Humidifier During High Frequency Oscillatory Ventilation. Crit Care Med 2008 Vol. 36 No12(Suppl) #548

AN Weigand, L Cambridge, NH Tiffin and U Schuschnig. Using Respirable Drug Delivery Rate (RDDR) to Compare Delivery Efficiency of Three Commercially Available Breath-Enhanced Nebulizers with Budesonide. ACCP Conference 2008

Uwe Schuschnig, Axel Krüner, Elisabeth Klopfer, Norm Tiffin, Ashley Weigand, Martin Luber, Manfred Keller. Drug Delivery to the Sinuses- Basics and Aerosol Dynamics. AAO-HNSF Congress 2008

Norm Tiffin, Tuan Tuan, Lawrence Weinstein, Jim Scott. A Technique to Evaluate Humidification from a Heated Passover Humidifier for Mechanical Ventilators. Crit Care Med 2007 Vol. 35, No. 12 (Suppl) A225 #817

Norm Tiffin, Jeff May, Larry Weinstein, Jaime Lynn Tiffin. Comparison of Four Nebulizers for Treatment Time and Drug Delivery. Resp Care Nov 2007 Vol 52(11):1581

Norm Tiffin, Rashmi Vohra, Larry Weinstein, Steve Nowak. Aerosol Characterization of a New Nebulizer for Heliox Source Gas. Resp Care Nov 2007 Vol 52(11):1581

N Tiffin, A Weigand, L Cambridge. Short Term Tolerance of Hypertonic Saline Aerosol Delivered Intranasally. NACF 2007

E Bitterle, D Mueller, R Warner, N Tiffin, L Cambridge, M Keller. Aerosol Characteristics of Hypertonic Saline in Jet Nebulizers and the eFlow®. NACF 2007

NH Tiffin, L Weinstein. Current High Flow Gas Humidification Systems Compared to a Novel Humidifier (Pari Hydrate™). Intensive Care Medicine S2 Sept 2007 33:S141 (#0541)

N Tiffin, ES Clary. Performance of a Novel Humidification Device in Mechanical Ventilation. Intensive Care Medicine S2 Sept 2007 33:S140 (#0536)

NH Tiffin, R Vohra, S Nowak, L Weinstein. Performance Characteristics of a New Nebulizer for Heliox. Intensive Care Medicine S2 Sept 2007 33:S139 (#0535)

N Tiffin, L Weinstein, C Fabyanic, H Whitescarver. Comparison of Current High Flow Oxygen Humidification Systems with a Novel Humidifier (Pari Hydrate). European Respiratory Journal S51 Sept 2007 (30)313s P1933

N Tiffin, R Vohra, S Nowack, L Weinstein. Performance Characteristics of a New Nebulizer for Heliox. European Respiratory Journal S51 Sept 2007 (30)24s E310

N Tiffin, W Ashley, C Lisa, L Mecimore. Short Term Tolerance of Hypertonic Saline Aerosol Delivered Intranasally. European Respiratory Journal S51 Sept 2007 (30)24s E309

N Tiffin, L Weinstein, C Fabyanic, H Whitescarver. Comparison of Current High Flow Oxygen Humidification Systems. Canadian Journal of Respiratory Therapy_2007 [43.2; 43](#)

N Tiffin, Vohra R, Nowak S, Weinstein L. Performance Characteristics of a New Nebulizer for Heliox. Canadian Journal of Respiratory Therapy_2007 [43.2; 43](#)

NH Tiffin, LA Weinstein, RJ May, JL Tiffin. Comparison of Nebulized Drug Delivery Times of Four Nebulizers. Canadian Journal of Respiratory Therapy_2007 [43.2; 43](#)

N.H. Tiffin, L.A. Weinstein, D.E. Sunstein, T.Q. Tran and J.B. Taylor. The Performance of a Novel Humidification Device for Mechanical Ventilation. 52nd International Respiratory Congress 2006 Open Forum Symposium Proceedings pp 112

N.H. Tiffin, D.H. Currie, T.Q. Tuan, L.A. Weinstein, J.B. Taylor, and C.H. Sellers. Performance of a Novel Humidification Device in Continuous Flow of Dry Gas. Proceedings of the American Thoracic Society. 52nd International Respiratory Congress 2006 Open Forum Symposium Proceedings pp 112

Norman Tiffin and Summer Petras. Evaluation of Three Devices and One Technique for Pulmonary Drainage in a CF Patient. Canadian Journal of Respiratory Therapy, April 2006, Vol 42.2:16

N.H. Tiffin, L.A. Weinstein, D.E. Sunstein, T.Q. Tran and J.B. Taylor. The Performance of a Novel Humidification Device for Mechanical Ventilation. Canadian Journal of Respiratory Therapy, April 2006, Vol 42.2:16

N. Tiffin and S. Petras. Evaluation of Three Devices and One Technique for Pulmonary Drainage in a CF Patient. European Respiratory Society Annual Congress 2006. Abstract 53521

N.H. Tiffin, L.A. Weinstein, D. Curry, C. Sellers and T. Tuan. Description of A Novel Capillary Force Vapor Generator for Humidification. European Respiratory Society Annual Congress 2006. Abstract 514

N.H. Tiffin, L.A. Weinstein, D.E. Sunstein, T.Q. Tran and J.B. Taylor. The performance of a Novel Humidification Device during Mechanical Ventilation. European Respiratory Society Annual Congress 2006. Abstract 516

N.H. Tiffin, D.H. Currie, T.Q. Tuan, L.A. Weinstein, J.B. Taylor, and C.H. Sellers. Performance of a Novel Humidification Device for High Flow Oxygen Therapy. European Respiratory Society Annual Congress 2006. Abstract 518

Norman Tiffin and Summer Petras. Evaluation of Three Devices and One Technique for Pulmonary Drainage in a CF Patient. Canadian Journal of Respiratory Therapy, April 2006, Vol 42.2:16

Uwe Schuschnig, Manuela Urbiscek, Norm Tiffin, Ingo Friedrich, Manfred Keller.

Comparison of delivery efficiency in a nasal cast model of Flutide nasal spray versus a fluticasone propionate suspension (Flutide) and a novel solution aerosolized via the PARI VibrENT. Proceedings of the American Thoracic Society. Vol 3: Abstract Issue April 2006

N.H. Tiffin, A.N. Wiegand, J. Zimmerman and H. Mentzel. A Novel Compressor/Nebulizer System to Delivery Aerosol to the Paranasal Sinuses. Proceedings of the American Thoracic Society. Vol 3:A573 Abstract Issue April 2006

N.H. Tiffin, A.N. Weigand and L.A. Weinstein. Particle Size Determination Using a Novel Nebulizer/Compressor System for Aerosols to the Paranasal Sinuses, Proceedings of the American Thoracic Society. Vol 3:A573 Abstract Issue April 2006

N.H. Tiffin, L.A. Weinstein, D.E. Sunstein, T.Q. Tran and J.B. Taylor. The Performance of a Novel Humidification Device for Mechanical Ventilation. Proceedings of the American Thoracic Society. Vol 3:A143 Abstract Issue April 2006

N.H. Tiffin, D.H. Currie, T.Q. Tuan, L.A. Weinstein, J.B. Taylor, and C.H. Sellers. Performance of a Novel Humidification Device in Continuous Flow of Dry Gas. Proceedings of the American Thoracic Society. Vol 3:A144 Abstract Issue April 2006

N.H. Tiffin, L.A. Weinstein, D. Curry, C. Sellers and T. Tuan. A Novel Capillary Force Vapor Generator for Humidification. Respiratory Drug Delivery Europe Conference 2005 Vol 1 (2005): 229-232, Paris, France

Burke-Tremblay C, Irvine L and Tiffin N. Survey of Canadian Hospitals using the Sensormedics 3100B High-Frequency Oscillatory Ventilator: A descriptive study. American Association for Respiratory Care poster 2003

Monem G, Kissoon N, Tiffin N and Frewen T. A Prototype Volume Controlled Infant Resuscitator for Determination of Total Pulmonary Compliance. Clin Invest Med 1992;15:A117

Monem G, Kissoon N and Tiffin N. A Simple Bedside Technique of Measuring Total Pulmonary Compliance. Presented at the Pediatric Crit Care Colloquium, Snowbird, Utah, January 29, 1992

Connors R, Kissoon N, Tiffin N, Frewen T, Kronick J. Evaluation of Physical and Functional Characteristics of Infant Resuscitators. Clin Invest Med 1990;13(4):646

Connors R, Kissoon N, Tiffin N, Kronick J, Frewen T. Evaluation of Physical and Functional Characteristics of Infant Resuscitators. Ped Emerg Care 1990;6(3):224

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LECTURES and TEACHING

Sept 2017	“Understanding and Measuring Organizational Culture” DisruptHR London, ON
May 2017	“Getting More From Your Staff: Employee Engagement” CSRT Annual Educational Forum, Leadership Workshop Halifax, NB
January 2014	“Three Keys to Understanding Statistics” Respiratory Therapy Program, 2 nd year, Algonquin College Ottawa, ON
June 2013	“Deciphering Statistics” CSRT Annual Educational Forum, Publication Workshop Niagara Falls, ON

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- June 2012 "Basic Statistics for Interpreting Research"
Respiratory Therapy Program, Fanshawe College
London, ON
- May 2012 "Getting Published: Statistics"
CSRT Annual Educational Forum
Vancouver, BC
- April 2009 "Gas Humidity during High Frequency Oscillatory Ventilation"
Conference on High Frequency Ventilation of Infants, Children & Adults
Snowbird, Utah
- Aug, 2009 - 2012 "Standard Deviation, P-Values and Sample Size"
Respiratory Therapy Program, Conestoga College
Kitchener, ON
- June, 2007 "Pari Hydrate: A novel humidification system."
Summit Technologies Mini Lecture Series
CSRT Annual Educational Forum 2007, Montreal, PQ
- February, 2007 "Standard Deviation, P Values and Sample Size"
Respiratory Therapy Program, 3rd year Students, Fanshawe College
London, ON
- December, 2006 "Pari Hydrate: A Novel Humidification Technology for Therapeutic Gas"
52nd Annual International Respiratory Congress
Las Vegas, Nevada
- June, 2005 "Principles of Effective Aerosol Delivery"
American College of Veterinary Internal Medicine Forum
Baltimore, Maryland
- June, 2005 "Practical Applications & Expectations for Efficacy of Therapeutic Devices"
American College of Veterinary Internal Medicine Forum
Baltimore, Maryland
- February, 2005 "Evaluating Medical Research"
Fanshawe College Respiratory Therapy Program, 3rd Year Students
London, ON
- December, 2004 "Evaluating Medical Research: A consumer's guide to reading research."
American Association of Respiratory Care International Respiratory Congress
New Orleans, Louisiana
- May, 2003 "Research: Leading others to where you've never been"
Leadership Session, Can Society of Respiratory Therapists Educational Forum
Ottawa, ON

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- May, 2003 "Evidence Based Medicine"
Plenary Session, Canadian Society of Respiratory Therapists Educational Forum
Ottawa, ON
- April, 2001 "Evaluating Medical Research"
Plenary Session, Canadian Society of Respiratory Therapists Educational Forum
Toronto, ON
- May, 1998 "Statistical Analysis – What you need to know"
Canadian Society of Respiratory Therapists Educational Forum
Ottawa, ON
- May, 1998 "Critiquing Research Papers"
Canadian Society of Respiratory Therapists Educational Forum
Ottawa, ON
- March, 1997 "Planning and Executing a Research Study"
Respiratory Therapy Department, Fanshawe College
London, ON
- 1995-1999 Research Methods and Statistics for Health Care Professionals seminar
Continuing Professional Education, Michener Institute of Applied Sciences
Toronto, ON
- 1997-1998 Statistics for Health Care Professionals seminar
Continuing Professional Education, Michener Institute of Applied Sciences
Toronto, ON
- June, 1996 "Lessons from Home Health Care"
Respiratory Therapy Society of Ontario
London, Ontario
- January, 1995 "nCPAP and Obstructive Sleep Apnea"
Respiratory Therapy Department, Fanshawe College
London, ON
- January, 1995 & '96 "Home Respiratory Therapy"
Nursing Program, 3rd year, University of Windsor
Windsor, ON
- August 1994 "Research and Employment for the RRT"
South Western Ontario Chapter, Respiratory Therapy Society of Ontario
London, ON
- February 1993 "Respiratory Home Care"
Lambton Senior Outreach
Forest, ON

March 1993	"Asthma" Asthma Parent Night, Lambton Lung Association Sarnia, ON
January 1993	"Tuberculosis, Lung Cancer & Bronchiectasis" Nursing Staff, Bestview Nursing Home Sarnia, ON
June 1992	"Emphysema & Chronic Bronchitis" Nursing Staff, Bestview Nursing Home Sarnia, ON
May 1992	"COPD - Diagnosis, Pathology and Treatment" Lungs for Life Club, Lung Association of Lambton County Sarnia, ON
January 1991	"Inhaled Medications" Lambton College, Registered Nursing Program Sarnia, ON
February 1991	"Respiratory Home Care: What happens in the home" Sarnia Medical Secretary Association Sarnia, ON
October 1990-1992 (quarterly)	"Deposition of Aerosols Using Inhaled Medications" Lungs for Life/Air Force Asthma Program, Sarnia/Lambton Lung Association Sarnia, ON
August 1990 - 1992 (quarterly)	"Current Respiratory Issues in Pediatrics" Respiratory Therapy Program, Fanshawe College, Sarnia General Hospital Sarnia, ON
June 1990	"Auscultation of Breath Sounds" Paramed Health Services Nurses Sarnia, ON
May 1990	"Assessment & Diagnosis of the Home Care Respiratory Patient" Sarnia/Lambton Home Care Physiotherapists Sarnia, ON
April 1990	"Asthma and Administration of Bronchodilators" Walpole Island Health Centre Parent-Child Support Program Walpole Island, ON
March 1990	"Respiratory Therapy Care of the COPD Patient" CARE OF COPD PATIENT - Hospital to Home Conference Sarnia/Lambton Lung Association Conference Sarnia, ON

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- February 1990 "Aerosolized Pharmacotherapy"
Health Services Program, Lambton College
Sarnia, ON
- October 1989 "Respiratory Therapists and Research: Where do we fit in?"
17th Annual Educational Forum
Respiratory Therapy Society of Ontario
London, ON
- July 1989 "Pediatric Resuscitation"
R1 Orientation Rounds, Department of Pediatrics
Children's Hospital of Western Ontario
London, ON
- April 1989 "Volume Controlled Manual Ventilation"
Ross Laboratory Dinner/Lecture Series
Strathroy, ON
- March 1989 "Volume Controlled Infant Manual Resuscitator"
Educational Meeting, Respiratory Therapy Society of Ontario
Hamilton, ON
- 1987-1989
(semi-annual) Advanced Cardiac Life Support
Instructor/Examiner: Oxygen/Intubation station
Department of Emergency Medicine, Faculty of Medicine,
University of Western Ontario London, ON
- May 1988 "CPR and Parental Responsibility"
ChildReach
London, ON
- November 1987 Pediatric Advanced Life Support Course
Instructor: CPR Neonatal and Paediatric Resuscitation
Department of Pediatrics, Faculty of Medicine
University of Western Ontario London, ON
- February 1986 "The Physiological Effects of Mechanically Induced Hyperventilation"
Respiratory Therapy Society of Ontario, Educational Meeting
London, ON