

CURRICULUM VITAE

Name: Zvi Herschman

Mailing Address: 346 Wilson Street  
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Plainview, NY 11803  
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Cortlandt Manor, NY 10567

Office Telephone: 516-486-7384  
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Date of Birth: 1/20/60

Place of Birth: Brooklyn, New York

Social Security Number: Available on request

Citizenship: USA

Education: Queens College of the City University of  
New York. B.A. Biology, 1980  
Horoah Torah Center, D. D., 1980  
Albert Einstein College of Medicine,  
M.D., 6 / 1984

CUNY Graduate Center, John Jay College of Criminal  
Justice Campus– PhD student, 9/2001–Present  
Forensic Science/ Criminal Justice  
Program Director: Peter R. De Forest, D.Crim  
Mentor: Peter R. De Forest, D. Crim  
Classes to date:

Advanced Criminalistics I

Advanced Criminalistics II

Advanced Criminalistics III

Instrumental Analysis I

Instrumental Analysis II

Advanced Polarized Light Microscopy

Scientific Fire Investigation

Criminal Law/ Criminal Procedure

Forensic Toxicology

Spectroscopy

Crime Scene Reconstruction

Computer Forensics

Forensic Imaging

Chemical Separations

Forensic Firearms and Toolmark

Examination

Case Studies involving single and multiple shootings,  
various weapons including handguns and long guns,  
gunshot injuries, evidence evaluation/collection and  
crime scene reconstruction.

Research: Blood Spatter From Gunshot Wounds: see  
Bibliography

Capture of Exemplar Bullets: see  
Bibliography

Dispersion/Deposition of Gunshot Residue: in  
Progress

Historical Evaluation of the Treatment of King Herod's Neurosyphilis with 20<sup>th</sup> Century Pre-Antibiotic Treatments for Neurosyphilis: in Progress

Related Forensic Experience:

Life Member New York Microscopical Society  
ACLS – Advanced Cardiac Life Support  
ATLS – Advanced Trauma Life Support  
ABLS – Advanced Burn Life Support  
ACLS Instructor – 4/96  
BLS – Basic Life Support Instructor – 7/96  
Consultant in Toxicology, New York and New Jersey Poison Centers

Critical Care/Trauma Related Experience:

12/15/99– 12/12/02      Director of Critical Care and Respiratory Therapy, Island Medical Center, Hempstead, NY

6/6/92– 9/1/98          Director of Critical Care Department of Anesthesiology, Saint Barnabas Medical Center Livingston, NJ

12/16/93 –9/1/97        Associate Director / Anesthesiologist –in – Charge, Pediatric Intensive Care Unit Saint Barnabas Medical Center, Livingston, NJ

7/1/1988– 4/23/92       Assistant Attending , Co– Director of SICU, Mount Sinai Services at the City Hospital Center at Elmhurst, Elmhurst, NY 11373

7/1/1987–6/30/1988     Fellow in Critical Care Medicine, New York University Medical Center, NY  
Preceptor: Brian Kaufman, M.D.

7/1/1988– 1/1/1989     Developer of Elmhurst Critical Care Transport Stretcher – Marketed by Beta Stretcher Company

7/1/1985–6/30/1987     Resident in Anesthesiology, Albert Einstein College of Medicine, Bronx, NY

Research:

Publications: see bibliography #'s 1–43  
Abstracts: see bibliography #'s 1–18  
Poster Presentations: see bibliography

**Academic Appointments:  
3/05–Present**

**Academic Chairman for Forensic Science,  
Union Bay Blvd  
Touro College, Bayshore, NY**

**7/1/1988– 4/23/92**

**Assistant Professor of Anesthesiology and  
Surgery,  
Mount Sinai School of Medicine  
One Gustave Levy Place, NY, NY**

**9/13 1995– 8/1/98**

**Clinical Associate Professor  
Department of Anesthesiology  
University of Medicine and Dentistry of  
New Jersey  
Robert Wood Johnson Medical School  
New Brunswick, NJ**

**Hospital Appointments:  
12/15/99– 12/12/02**

**Director of Critical Care and Respiratory  
Therapy, Island Medical Center, Hempstead,  
NY**

**11/1/99– 12/12/02**

**Chairman, Department of Anesthesiology/Pain  
Management, Island Medical Center  
Hempstead, NY**

**8/15/99– 11/1/99**

**Chairman, Department of Pain Management  
Palliative Care, Island Medical Center  
Hempstead, NY**

**10/08/04–5/31/04**

**Associate Attending Hudson Valley Hospital  
Center, Cortandt Manor, NY– No reapplication  
made for privileges**

**7/15/99– Present**

**Northshore University Hospital,  
Plainview**

**9/20/98– Present**

**Northshore University Hospital  
Syosset, New York**

**5/18/98 – Present**

**Provisional Attending  
Department of Anesthesiology  
Newark Beth Israel Medical Center  
Newark, NJ**

**11/13/97–Present**

**Provisional Assistant Attending**

	Department of Anesthesiology, Island Medical Center, Hempstead, NY
9/1/97 – Present	Provisional Assistant Attending Roseland Surgical Center Roseland, NJ
8/1/97–Present	Provisional Assistant Attending Verona Surgical Center Verona, NJ
12/4/97–Present	Beth Israel Medical Center– Kings Highway Division, Department of Pain Management, Anesthesiology, Brooklyn, NY
3/1/01– Present	Associate Attending Department of Anesthesiology, Saint Barnabas Medical Center, Livingston, NJ
6/12/96– 3/1/01	Assistant Attending Department of Anesthesiology, Saint Barnabas Medical Center, Livingston, NJ
6/6/92 – 6/12/96	Provisional Assistant Attending Department of Anesthesiology, Saint Barnabas Livingston, NJ.
6/6/92– 9/1/98	Director of Critical Care Department of Anesthesiology, Saint Barnabas Medical Center Livingston, NJ
6/6/92– 4/1/97	Director of Neuroanesthesia Department of Anesthesiology, Saint Barnabas Medical Center, Livingston, NJ
12/16/93 –9/1/97	Associate Director / Anesthesiologist –in – Charge, Pediatric Intensive Care Unit Saint Barnabas Medical Center, Livingston, NJ
7/1/1988– 4/23/92	Assistant Attending , Co– Director of SICU, Mount Sinai Services at the City Hospital Center at Elmhurst, Elmhurst, NY 11373
7/1/1988– 4/23/92	Associate Medical Director, Department of Respiratory Therapy, Mount Sinai services at the City Hospital, Center at Elmhurst, Elmhurst, NY 11373

7/1/1988– Present	Consultant in Toxicology, New York City Poison Control Center, NY, NY
8/1/95– Present	Consultant in Toxicology, New Jersey Poison Information Service, Newark, NJ
1/1/1989– 4/23/92	Developer and Director of Ventilator Weaning Program, City Hospital Center at Elmhurst, Elmhurst, NY 11373
7/1/1988– 1/1/1989	Developer of Elmhurst Critical Care Transport Stretcher – Marketed by Beta Stretcher Company
1991– 1992	Lecturer, New York University School of Respiratory Therapy (fall/spring semesters), NY, NY

**Awards and Grants:**

Dupont Corporation: Use of CAVHD for  
aminophylline toxicity, 1990.

International Trauma Anesthesia and Critical  
Care Society: Use of CAVHD for aminophylline  
toxicity, 1991.

Saint Barnabas Medical Center Research  
Foundation: Use of artificial surfactant in the  
treatment of hydrocarbon induced lung  
injury, 1995.

Glaxo– Wellcome: On site investigator–Phase  
IV study of Ultiva (Remifentanil) in Operative  
Anesthesia

**Post Doctoral Medical Training:**

**Chronologically**

7/1/1984–6/30/1985	Internal Medicine, Brookdale Hospital, Brooklyn, NY
7/1/1985–6/30/1987	Resident in Anesthesiology, Albert Einstein College of Medicine, Bronx, NY

- 7/1/1985–6/30/1988 Training in Acupuncture and Pain Management, Albert Einstein College of Medicine and The New York Society of Acupuncture for Physicians and Dentists, NY  
Preceptor: Gabriel Lu, M.D.
- 9/1/1986–12/31/86 Fellow in Pediatric Anesthesia, 3 months, Albert Einstein College of Medicine Bronx, NY  
Preceptor: N. Balan, MD
- 7/1/1987–6/30/1988 Fellow in Critical Care Medicine, New York University Medical Center, NY  
Preceptor: Brian Kaufman, M.D.

**Licensure and Certification:**

American Board of Anesthesiology, Certified 10/88  
Critical Care Medicine, American Board of Anesthesiology, Certified 10/89  
Pain Management, American Academy of Pain Management, Certified 8/97

**License in Medicine:**

New York State #162741  
New Jersey # 57935  
Illinois #036-087248

**License in Acupuncture:**

New York State # 473  
Fellow American College of Acupuncture, 1991  
ACLS – Advanced Cardiac Life Support  
ATLS – Advanced Trauma Life Support  
ABLS – Advanced Burn Life Support  
ACLS Instructor – 4/96  
BLS Instructor – 7/96

**Honors:**

Magna Cum Laude: Queens College Of CUNY  
1980 Elected to the Biology Honor Society: Queens College of CUNY  
Award for Comic Journalism, HAOR Newspaper, Queens College of CUNY

1976–1980 Dean's List,  
Queens College of CUNY

**Awards and Grants:**

Dupont Corporation: Use of CAVHD for aminophylline toxicity, 1990.

International Trauma Anesthesia and Critical Care Society: Use of CAVHD for aminophylline toxicity, 1991.

Saint Barnabas Medical Center Research Foundation: Use of artificial surfactant in the treatment of hydrocarbon induced lung injury, 1995.

Glaxo– Wellcome: On site investigator–Phase IV study of Ultiva (Remifentanyl) in Operative Anesthesia

Professional Activity: Owner: Center for Pain  
Management/Metro  
Medical – Pain and Anesthesia  
Services

**Academic Appointments:**

7/1/1988– 4/23/92      Assistant Professor of Anesthesiology  
and Surgery,  
Mount Sinai School of Medicine  
One Gustave Levy Place, NY, NY

9/13 1995– 8/1/98      Clinical Associate Professor  
Department of Anesthesiology  
University of Medicine and  
Dentistry of New Jersey  
Robert Wood Johnson Medical School  
New Brunswick, NJ

**Hospital Appointments:**

1/4/04 - 3/1/04	Attending in Critical Care, Department of Medicine, Huntington Hospital, Huntington, NY
12/15/99- 12/12/02	Director of Critical Care and Respiratory Therapy, Island Medical Center, Hempstead, NY
11/1/99- 12/12/02	Chairman, Department of Anesthesiology/Pain Management, Island Medical Center Hempstead, NY
8/15/99- 11/1/99	Chairman, Department of Pain Management Palliative Care, Island Medical Center Hempstead, NY
7/15/99- Present	Northshore University Hospital, Plainview
9/20/98- Present	Northshore University Hospital Syosset, New York
5/18/98 - Present	Provisional Attending Department of Anesthesiology Newark Beth Israel Medical Center Newark, NJ
11/13/97-Present	Provisional Assistant Attending Department of Anesthesiology, Island Medical Center Hempstead, NY
9/1/97-Present	Provisional Assistant Attending Roseland Surgical Center Roseland, NJ
8/1/97-Present	Provisional Assistant Attending Verona Surgical Center Verona, NJ
12/4/97-Present	Beth Israel Medical Center- Kings Highway Division Department of Pain Management, Anesthesiology Brooklyn, NY
3/1/01- present	Associate Attending Department of Anesthesiology, Saint Barnabas Medical Center, Livingston, NJ
6/12/96- 3/1/01	Assistant Attending

	Department of Anesthesiology, Saint Barnabas Medical Center, Livingston, NJ
6/6/92 – 6/12/96	Provisional Assistant Attending Department of Anesthesiology, Saint Barnabas Livingston, NJ.
6/6/92– 9/1/98	Director of Critical Care Department of Anesthesiology, Saint Barnabas Medical Center Livingston, NJ
6/6/92– 4/1/97	Director of Neuroanesthesia Department of Anesthesiology, Saint Barnabas Medical Center, Livingston, NJ
12/16/93 –9/1/97	Associate Director / Anesthesiologist –in – Charge Pediatric Intensive Care Unit Saint Barnabas Medical Center, Livingston, NJ
7/1/1988– 4/23/92	Assistant Attending , Co– Director of SICU, Mount Sinai Services at the City Hospital Center at Elmhurst, Elmhurst, NY 11373
7/1/1988– 4/23/92	Associate Medical Director, Department of Respiratory Therapy, Mount Sinai services at the City Hospital Center at Elmhurst, Elmhurst, NY 11373
7/1/1988– Present	Consultant in Toxicology, New York City Poison Control Center, NY, NY
8/1/95– Present	Consultant in Toxicology, New Jersey Poison Information Service, Newark, NJ
1/1/89 – Present	Private Practice,

Pain Management and Acupuncture,  
346 Wilson Street,  
West Hempstead, NY 11552  
Telephone # 516-486-7384

10/25/95-Present

101 Old Short Hills Road,  
West Orange, NJ 07052  
Telephone # 201-736-1220

1/1/1989- 4/23/92

Developer and Director of  
Ventilator Weaning  
Program, City Hospital Center  
at Elmhurst,  
Elmhurst, NY 11373

7/1/1988- 1/1/1989

Developer of Elmhurst  
Critical Care Transport  
Stretcher - Marketed by  
Beta Stretcher Company

1991- 1992

Lecturer, New York University  
School of Respiratory  
(fall/spring semesters) Therapy, NY, NY

Hospital Committees:

6/1/92-9/1/97

Department of Anesthesiology  
Saint Barnabas Medical Center:  
Director of Subspecialty Resident  
Training Tracts:  
Critical Care  
Neuroanesthesia  
Chairman: Resident Research Committee  
Member: Resident Education Committee

Newark Beth Israel Medical Center:  
Chairman- Committee on Pain Management

Professional Societies:

American Society of Anesthesiologists  
International Anesthesia Research Society  
American Society of Critical Care  
Anesthesiologists  
Society of Critical Care Medicine  
American College of Acupuncture  
New York State Society of  
Anesthesiologists:  
Member - Committee on Legal, Economic, and  
Governmental Affairs

New York State Society of  
Anesthesiologists  
Sub-Committee on Pain and Critical Care  
Medical Society of The State of New York  
New York State Society of Acupuncture For  
Physicians and Dentists  
Nassau County Medical Society  
New Jersey Society of Critical Care  
Medicine :Member of Executive Committee,  
1993-1996

## Bibliography:

### Publications:

1. Herschman, ZJ, Frost EAM, Goldiner P. Pulse oximetry in shoulder arthroscopy. *Anesthesiology*, Vol 65 no. 5, November 1986, pp 565.
2. Herschman Z, Kaufman B. Differential diagnosis of wide complex QRS tachycardias. *Anesthesiology Clinics of North America*, Vol 7 no. 2, June 1989, pp 351- 372.
3. Aaron CK, Herschman Z, Smilkstein MJ. Street pharmacology: a dangerous way to prolong the high. *Veterinary and Human Toxicology* 31 (4), August 1989.
4. Herschman Z, Kaufman B. Complications Arising from the use of ophthalmic medications in an intensive care unit patient. *NYS Journal of Medicine*, September 14, 1989, pp137.
5. Herschman Z, Thys D. Phenylephrine and myocardial ischemia in patients undergoing carotid endarterectomy. *Anesthesiology* Vol 71 PP 466 1989.
6. Herschman Z, Klapholz A. Blood loss in obstetrical patients treated with aspirin to prevent pregnancy induced hypertension. *New England Journal of Medicine*, Vol 322 no. 3 pp 204-5, 1990.
7. Herschman Z. Cardiac effects of anabolic steroids. *Anesthesiology* Vol 72 no. 4 pp 772-773 1990.
8. Silverstein JH, Herschman Z, Iberti T. Monitoring and therapy for septic shock: Foundations and fantasy - the next decade. *Journal of Cardiothoracic Anesthesia* Vol 4 no. 4 Supp 1 (August) pp 32-37 , 1990.

9. Herschman Z, Amin D, Lehrfield A. Biliious pleural effusion as a complication of attempted percutaneous biliary drainage. *Critical Care Medicine* Vol 19 no. 1 pp 128-129, 1991.
10. Herschman Z, Aaron CK. Prolongation of cocaine effect. *Anesthesiology* Vol 74 no. 3 pp 631-632, 1991
11. Herschman Z. Tracheostomy in Guillian-Barre syndrome. *Critical Care Medicine* Vol 19 no. 5 pp 743, 1991.
12. Herschman Z. Use of labetalol in trauma. *Critical Care Medicine* Vol 19 no. 3 pp 454, 1991.
13. Herschman Z, Silverstein J, Blumberg G, Lehrfield A. Central nervous system toxicity from nebulized atropine sulfate. *Journal of Toxicology - Clinical Toxicology* Vol 29 no. 2 pp 273-277, 1991.
14. Herschman Z. Let's provide primary care for all uninsured Americans- now. *JAMA* Vol 266 no. 9, pp 1215- 1216, 1991
15. Herschman Z, Sonnenklar N, Blumberg G, Klapholz A, Oropello J. A comparison of the Puritan - Bennett 7200a ventilators flow-by mode to the T-piece mode prior to extubation in post-surgical patients. *Respiratory Care* Vol 36 no. 10, pp 1119- 1122, 1991.
16. Herschman Z, Wang J. Treatment of postoperative atelectasis using a suction catheter and active inflation. *Journal of Cardiothoracic Anesthesia* 1992, Vol 6 no. 2, pp 261-263.
17. Herschman Z. Immune dysfunction in children after corrective open heart surgery for congenital heart disease. *Critical Care Medicine* 1992; Vol 20 no.4 pp 554-555.
18. Dimich I, Singh PP, Herschman Z, Sampson I, Sonnenklar N. Role of adenosine in the diagnosis of postoperative supraventricular tachyarrhythmias. *Anesthesiology* Sept.1992; vol 77, no 3A, A296.
19. Chiang W K, Herschman Z. Lethal catatonia and neuroleptic malignant syndrome. *Critical Care Medicine* 1992; vol 20, no. 11 p1622.
20. Herschman Z. Alterations in anion gap following cardiopulmonary bypass. *Critical Care Medicine* 1992; vol 20, no. 12 p1735.
21. Herschman Z. Economics of trauma anesthesia and critical care. In Stene JK, Grande CM (eds) *Trauma Anesthesia*. C.V. Mosby Co., St. Louis. 1993.

22. Herschman Z, Chiang WK. Toxicology for the trauma anesthesiologist. In Stone JK, Grande CM (eds) Trauma Anesthesia. C.V. Mosby Co., St. Louis. 1993.
23. Herschman Z, Chiang WK. Effects of various dialysates on the removal of theophylline using CAVHD. Critical Care Medicine 1993; vol 21, no. 1 pA157.
24. Walker JS, Herschman Z. Response to surgical stress following thoracic epidural anesthesia. Anesthesiology 1993; vol 78, no 4, p 790.
25. Herschman Z, Bhagat A. Atrial natriuretic factor release during hypovolemia and after volume replacement. Critical Care Medicine 1993; vol 21 no.8 pp 1249.
26. Herschman Z, Lehrfield AR. National Leadership Coalition's Plan For Health Care Reform. NEJM vol. 328 no. 22 pp1643, June 3, 1993.
27. Herschman Z, Dimich I, Singh P P. Sudden death in a young postoperative patient given esmolol. Critical Care Medicine 1993; vol 21 no. 12 pp 1975-1976.
28. Dimich I, Singh PP, Herschman Z, Neustein S, Sampson I, Sonnenklar N. Role of adenosine in the diagnosis and treatment of postoperative supraventricular tachyarrhythmias. Journal of Clinical Anesthesia, 1993 5:325-328.
29. Herschman Z, Guiding JA. Human sepsis and lymphocyte intracellular calcium. Critical Care medicine 1994; vol 22 no. 1 pp178.
30. Herschman Z, Richman P. Operator experience as a factor in double lumen endotracheal intubation. Anesthesia & Analgesia, 1994; vol 78 pp810.
31. Dimich I, Herschman Z, Singh PP. Sudden death in a patient given esmolol - authors reply. Critical Care Medicine 1995; vol 23 no. 1 pp 212.
32. Herschman Z. Trauma. in Reed, Allan P (editor), Clinical Cases in Anesthesia, Second Edition, Chapter 60. Churchill Livingstone inc., 1995.
33. Herschman Z, Pamaar C. Prolonged neuromuscular blockade when mivacurium and pancuronium were administered in series. Journal of Toxicology-Clinical Toxicology, vol. 33 no. 3, 1995.
34. Herschman Z, Mazur W, Cardoso R. Perfluorochemical emulsion. Critical Care Medicine. 1995, vol 23 no.4 pp785-786.

35. Herschman Z, Gudin J. Use of a triple lumen catheter to remove a pneumothorax. *Anesthesia & Analgesia* 1995, vol 80 no. 5 pp1059-60.
36. Herschman Z, Panei M. Continuous hemofiltration and platelet function. *Critical Care Medicine*, 1995, vol 25 no.5 pp 981-982.
37. Herschman Z. New opportunities in a shrinking market. Clinical toxicology and the critical care anesthesiologist. ITACCS, International Trauma Anesthesia and Critical Care Society News Letter. vol.5, no. 2, October, 31-32, 1995.
38. Herschman Z, Lorbert J, Rahal W. End tidal CO2 and prognosis. *Critical Care Medicine*. 1996, vol 23, pp1093.
39. Zeig NJ, Herschman Z. Preoperative pregnancy testing in ambulatory surgery. *Anesthesiology*, 1996, vol. 84 no. 5 . pp 1260-1261.
40. Herschman Z. Other ways to stimulate postoperative bowel function. *Anesthesia & Analgesia*, 1998 vol. 87 no.2 pp 500.
41. Herschman Z. Controlling costs of critical care requires new focus. *Anesthesia & Analgesia*, 2003 vol 97, no. 2 pp 607.
42. Herschman, Z. Axe is falling on Medicare issue. *ASA newsletter*, Vol 67 no. 8 pp 38.
43. Herschman Z. Evaluating a patient's airway. *Anesthesia & Analgesia*, 2003 vol 97, no. 3 pp 915.
44. Herschman Z. Hypothermia - In the operating room and beyond. *Respiratory Care*, 2004 vol 49, no. 2 pp 158-159.
45. Herschman Z. Rapid opiate detox- Pain management with some critical care. *NYSSA Sphere*, Vol 57, no.4 pp 31-33.

#### Abstracts:

1. Aaron CK, Herschman Z, Smilkstein MJ. Street pharmacology: a dangerous way to prolong the high. Presented at AAPCC, Atlanta, October 1989.
2. Oropello J, Wang J, Benjamin E, Herschman Z, Fischer E, Bogovic J, Iberti TJ. Effect of pentoxifylline on hemodynamics, oxygen transport,

and tissue metabolism in hemorrhagic shock. Presented at the Conference on Shock, Colorado, June 1990.

3. Herschman Z, Klapholz A, Blumberg G, Manion A, Iberti TJ. Simulated continuous flow ventilation vs. T-piece ventilation prior to extubation. Presented at the American Society of Critical Care Anesthesiologists, Las Vegas Nevada, October 1990.

4. Herschman Z, Wang J, Lee MH, Manion A. Hypomagnesemia in SICU subpopulations. Presented at the 4th Annual Trauma Anesthesia and Critical Care Symposium, Baltimore, May 1991.

5. Herschman Z, Chiang W. Enhanced efficacy of removal of theophylline by CAVHD. Presented at the 4th Annual Trauma Anesthesia and Critical Care Symposium, Baltimore, May 1991.

6. Herschman Z, Chiang W. Effects of various dialysates on the removal of theophylline using CAVHD. Annual meeting of the New Jersey Society of Critical Care Medicine, Philadelphia, PA, October 1992

7. Pitera R, Cardoso R, Herschman Z, Risk of air emboli from intravenous fluids. ITACCS Baltimore, MD, May 1993

8. Pamaar C, Ciolino R, Pak HR, Herschman Z. Differential effects of blood pressure measurements in the arm and lower extremity. ITACCS Baltimore, MD, MAY 1993

9. Herschman Z, Chiang WK. Effects of various dialysates on removal of theophylline. ITACCS Baltimore, MD, MAY 1993

10. Herschman Z, Pitera R. The use of helium in the treatment of a patient with cystic fibrosis and ventilatory failure. Anesthesia Update, Medical College of Wisconsin, Colorado, February 1994 (pending presentation)

11. Bilof M, Herschman Z. Hemodynamic effects of iatrogenic pneumoperitoneum. Ninth European Congress of Anesthesiology. Jerusalem, Israel, October, 1994.

12. Pitera R, Herschman Z. Helium -oxygen mixtures in the treatment of cystic fibrosis: a case report. Ninth European Congress of Anesthesiology, Jerusalem, Israel, October, 1994.

13. Herschman Z, Motlagh J. Use of transesophageal echocardiography (TEE) in noncardiac surgical patients. New Jersey Society of Critical Care Medicine Annual Scientific Symposium, New Brunswick, New Jersey, October 1994

14. Shih R, Herschman Z. Artificial surfactant administration in an animal model of hydrocarbon induced pulmonary toxicity. International Trauma Anesthesia and Critical Care Society (ITACCS) Baltimore, MD, May 1995.

15. Shih RD, Mercurio M, Morasco R, Hoffman RS, Weisman RS, Herschman ZJ, Meggs W, Goldfrank LR, Marcus SM. Artificial surfactant administration in an animal model of hydrocarbon induced pulmonary toxicity. American Congress of Clinical Toxicologists, Rochester, NY, September 1995.

16. Shih R, Herschman ZJ, Mercurio M, Morasco R, Hoffman R, Weisman R, Meigs W, Goldfrank LR, Marcus SM. Artificial surfactant administration in an animal model of hydrocarbon induced pulmonary toxicity. Annual Educational Symposium, New Jersey Chapter of the Society of Critical Care Medicine, New Brunswick, NJ, October 1995.

17. Herschman ZJ, Sattari R. Compatibility of LMA with Gastric tubes. Caribbean Society of Anesthesiologist. San Juan, Puerto Rico, November 1996.

18. Herschman ZJ, Dorian R. Phosphate homeostasis in hyperthermic HIV positive patients. Caribbean Society of Anesthesiologists. San Juan, Puerto Rico, November 1996

19. Diaczuk PJ, Herschman ZJ, Pizzola PA, De Forest PR. A new experimental model for evaluating mechanisms of gunshot spatter. California Association of Criminalists, 99<sup>th</sup> Semi-Annual Seminar. San Francisco, CA, May 2002.

20. Diaczuk PJ, Hieptas J, Nicolosi FM, Tota AS, Mayer GW, Herschman ZJ, De Forest PR. The soap box bullet recovery system—or the soap solution. American Academy of Forensic Sciences, Annual Meeting. Chicago, IL, February 2003.

21. Herschman ZJ, Jackiw JJ. A simple inexpensive method for visualizing cuticular scale patterns. Accepted for presentation, Eastern Analytical Society, Somerset, NJ, November 14–17, 2005.

Poster Presentations:

1. Wolff M, Herschman Z, Kahn R. Effects of jet ventilation on intracranial pressure under isocapneic conditions. Society of Neurosurgical Anesthesia and Critical Care, Williamsburg, May 1988.
2. Herschman Z, Klapholz A, Blumberg G, Manion A, Sonnenklar N. Simulated continuous flow ventilation vs T-piece ventilation prior to extubation. 4th Annual Trauma Anesthesia and Critical Care Symposium, Baltimore, May 1991.
3. Herschman Z, Klapholz A, Oropello J. Hypophosphatemia in SICU subpopulations. Anesthesia Update, Medical College of Wisconsin, Colorado, February 1992.
4. Dimich I, Singh PP, Herschman Z, Sonnenklar N. Role of adenosine in the diagnosis of postoperative supraventricular tachyarrhythmias. Presented at the American Society of Anesthesiologists, New Orleans, Louisiana, October 1992.
5. Herschman Z, Chiang W. Effects of various dialysates on the removal of theophylline using CAVHD. SCCM, 23 Educational and Scientific Symposium, Orlando FL, January 1994.
6. Herschman Z, Pitera R. Risk of air embolus from intravenous fluids. SCCM, 23 Educational and Scientific Symposium, Orlando Florida, January 1994.
7. Pitera R, Herschman Z. Risk of air embolus from intravenous fluids. Midwest Anesthesia Conference, Chicago II May 13-15, 1994
8. Herschman Z, Pitera R. Use of helium in the treatment of ventilatory failure in a patient with cystic fibrosis. Midwest Anesthesia Conference, Chicago II, May 13-15, 1994.
9. Herschman Z, Sattari R. Compatibility of laryngeal mask airway with gastric tubes. Tenth Annual Trauma Anesthesia and Critical Care Symposium, Baltimore MD, May 14-17, 1997.
10. Herschman Z, Diaczuk PJ, Pizzola PA, De Forest PR. A new experimental model for evaluating gunshot blood spatter and the mechanisms that produce it. American Academy of Forensic Sciences, Annual Meeting, Chicago, IL February 2003.

#### Lectures and Seminars:

1. Hemodynamics and hemodynamic monitoring. Union Hospital, New Jersey, September 1990.
2. Economics of trauma anesthesia and critical care. 4th Annual Trauma Anesthesia and Critical Care Symposium. Baltimore, MD, May 1991.

3. New approaches for weaning from mechanical ventilation. Doctors Hospital, New York June 1991.
4. Pathophysiology and diseases of the chest New York University School of Respiratory therapy. New York, August–October, 1991.
5. Management of mechanical ventilation in the critically ill. St. John's Hospital/ Catholic Medical Center. New York, August 1991.
6. How to approach the patient requiring mechanical ventilation. Community Hospital of Brooklyn, Brooklyn, October, 1991.
7. Managing patients requiring mechanical ventilation. Lutheran Medical Center, Brooklyn, October, 1991.
8. Factors involved in successfully removing patients from mechanical ventilation. Kingsbrook Jewish Medical Center. Brooklyn, November 1991.
9. Toxicology for the anesthesiologist. Saint Barnabas Medical Center, Livingston, New Jersey. December, 1991.
10. Trauma anesthesia. Dover General Hospital. New Jersey, February, 1992.
11. New techniques for removing patients from mechanical ventilation. Brookdale Hospital. Brooklyn, March 1992.
12. Pathology and evaluation of chest diseases. New York University School of Respiratory Therapy. New York. February – April 1992.
13. A systematic approach to removing patients from mechanical ventilation. Nassau County Medical Center. Nassau, May 1992.
14. Toxicology for the primary care physician. Annual conference on primary care, Cape Cod, Mass., Saint Claire's Hospital, Albany, NY, sponsor. August 1992.
15. Perioperative management of the high risk patient. Department of Obstetrics and Gynecology, Saint Barnabas Medical Center, Livingston, NJ, October 1992.
16. Toxicology for the Emergency Physician. Morristown Memorial Hospital, Morristown, NJ. March 1994.

17. Panel Discussion: a) Utility of weaning parameters in mechanically ventilated patients, b) Utility of serum lactate in critical care practice, c) Utility of stress ulcer prophylaxis in critically ill patients. Annual Educational Symposium of the New Jersey Chapter of the Society of Critical Care Medicine, New Brunswick, NJ October 1995.
18. Use of transesophageal echocardiography in the non-cardiac patient. Saint Barnabas Medical Center, Livingston, NJ , November 1995.
19. Pain Management in Endometriosis. Glen Cove Hospital, Glen Cove, NY. November 18, 1997.
20. Pain Management: Case Management Approach. Sheraton Woodbridge, Woodbridge, NJ. March 17, 1998.
21. Pain Management: New approaches. Newark Beth Israel Medical Center, Newark, NJ. May 20, 1998
22. Pain Management: New Techniques. Island Medical Center, Hempstead, NY. June 16, 1998.
23. Toxicology for the Practicing Anesthesiologist. Post Graduate Assembly of the New York State Society of Anesthesiologist. New York, NY. December 12-16, 1998.
24. Time out with the experts. Management of the Intoxicated patient. Post Graduate Assembly of the New York State Society of Anesthesiologists, New York, NY. December 12-16, 1998.
25. Pain Management. Grand Rounds, Department of Surgery, Newark Beth Israel Medical Center, Newark, NJ. March 8, 1999.
26. New approaches to Pain Management. Beth Israel Medical Center - Kings Highway Division, Brooklyn, NY. August 19, 1999.
27. Pain Management: New Techniques. Health South Rehabilitation Hospital. Toms River, NJ. April 7, 2002.

28. Medical uses of microscopy. New York Microscopical Society Meeting. John Jay College of Criminal Justice. NY, NY. November 5, 2002.

29. Moderator– DNA evidence. American Academy of Forensic Scientists, Annual Meeting. New Orleans, LA, February 22, 2005.

29. Anesthetic management and pain conditions. Department of Dentistry–Periodontics section, University of Medicine and Dentistry, Newark, NJ. May 23, 2005.

30. Bioterrorism. Symposium on Bioterrorism. Touro College, Bayshore, NY. January, 2006

#### Web Publications:

1. Zvi Herschman, MD. Forensic Medical Data Studies. Forensic computing as applied to the current practice of Medicine. NTI technologies, inc. <http://www.forensics-intl.com/art24.html>. Sept. 16, 2004.

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