CURRICULUM VITAE

Yakov Vorobeychik, M.D., Ph.D.

Director, Interventional Pain Management
Associate Professor in Anesthesiology and Neurology
Penn State College of Medicine
Penn State Milton S. Hershey Medical Center
500 University Drive, M.C. HU32
Hershey, PA 17033-0850
717-531-5680
yvorobeychik@hmc.psu.edu

CLINICAL POSITION:

July 2004 – Present **Attending Physician in Pain Medicine**

Division of Department of Anesthesiology

Milton S. Hershey Medical Center

Pennsylvania State University College of Medicine

Hershey, Pennsylvania

July 2002 – June 2003 **Attending Physician in Neurology**

Drexel (Former MCP/Hahnemann) University

Neurology Department Broad and Vine Streets Philadelphia, PA

April 1993 - July 1995 Senior Scientist (Equivalent to Associate Professor with Tenure)

Research Institute of General Pathology and Pathological Physiology

Laboratory of Pain Pathophysiology

Moscow, Russia

October 1991 - March 1993 Consultant in Pain Management Clinic of Moscow Medical

Institute named after N.A. Semashko

Neurology Department Moscow, Russia

September 1987 - August 1988 Neurologist

Moscow Clinic #92 Moscow, Russia

August 1984 - August 1986 Neurologist on Call

Moscow General Hospital #51

Neurology Department

Moscow, Russia

ACADEMIC POSITIONS:

July 2010 – Present Associate Professor of Anesthesiology & Neurology

Department of Anesthesiology Milton S. Hershey Medical Center

Pennsylvania State University College of Medicine

Hershey, Pennsylvania

July 2004 – June 2010 Assistant Professor of Anesthesiology

Department of Anesthesiology Milton S. Hershey Medical Center

Pennsylvania State University College of Medicine

Hershey, Pennsylvania

July 2004 - Present Assistant Professor of Neurology

Department of Neurology

Milton S. Hershey Medical Center

Pennsylvania State University College of Medicine

Hershey, Pennsylvania

May 2005 – Present **Director, Interventional Pain Management**

Milton S. Hershey Medical Center

Pennsylvania State University College of Medicine

Hershey, Pennsylvania

July 2002 – June 2003 Instructor

Drexel (Former MCP/Hahnemann) University

Neurology Department Broad and Vine Streets Philadelphia, PA

.

EDUCATION

July 2003-June 2004 Fellowship in Pain Management

Anesthesia Department

Massachusetts General Hospital, Boston, MA

July 2001-June 2002 Chief Neurology Resident

Neurology Department

MCP/Hahnemann University, Philadelphia, PA

July 1999-June 2002 **Neurology Residency**

Neurology Department

MCP/Hahnemann University, Philadelphia, PA

July 1998-June 1999 Internship

Internal Medicine Department

The Brooklyn Hospital Center, Brooklyn, NY

August 1995-May 1998 On July 26, 1995 I left Russia and came to the USA

I was studying and taking USMLE exams. STEP 1 was taken and passed in June 1996 STEP 2 was taken and passed in August 1997 STEP 3 was taken and passed in May 1998

Sept 1988-Sept 1991 Moscow Medical Institute, Moscow, Russia

Fellowship in Neurology Doctor of Philosophy

Sept 1986-August 1987 Moscow Medical Institute, Moscow, Russia

Post-graduate training in neurology

July 1983-July 1984 Kuibyshev Hospital #1, Kuibyshev, Russia

Internship

Sept 1977-June 1983 Kuibyshev Medical Institute, Kuibyshev, Russia

Doctor of Medicine

Board Certification:

Diplomat, American Board of Neurology and Psychiatry (ABNP)

2004 Certification in Pain Management, ABNP

Additional Certification:

Advanced Cardiac Life Support

Basic Life Support

THE SCHOLARSHIP OF RESEARCH AND CREATIVE ACCOMPLISHMENTS

Research and/or scholarly publications

- Y. Vorobeychik, Willoughby C, Mao J. "NMDA Antagonists in the Treatment of Pain" (Book chapter accepted for publication)
- Y. Vorobeychik. "Role of Ketamine in Managing Opioid-Induced Hyperalgesia". In: Mao J. (Ed). Opioid-Induced Hyperalgesia. New York. Informa. 2010, 124-133.
- D. Giampetro, Y. Vorobeychik. "Role of Adjuvant medications in Managing of Opioid-Induced Hyperalgesia". In: Mao J. (Ed). Opioid-Induced Hyperalgesia. New York. Informa. 2010, 165-173.
- Y. Vorobeychik, L. Chen, M. Bush, J. Mao. "Improved Opioid Analgesic Effect Following Opioid Dose Reduction". Pain Medicine 2008, 9(6): 724-727. Dr. Vorobeychik was the principle author.
- Y. Vorobeychik, M. Acquadro. "Use of Atomoxetine in a Patient with Fibromyalgia Syndrome and Attention Deficit Hyperactivity Disorder". Journal of Musculoskeletal Pain 2008, 16(3): 189-192. Dr. Vorobeychik was the principle author.
- Y. Vorobeychik, D. Giampetro. "Topical Lidocaine and Epidural Bupivacaine/Hydromorphone in the Treatment of Complex Regional Pain Syndrome Type 2". Pain Physician 2007, 10: 383-384. Dr. Vorobeychik was the principle author.
- R. Schwartzman and Y. Vorobeychik. "Complex Regional Pain Syndrome". In: Evans R (Ed): Neurology and Trauma. New York, Oxford University Press, 2006, 465-476.
- Y.M.Vorobeychik, M.Kukushkin, V.K.Reshetnyak, A.M.Ovechkin, A.V.Gnezdilov. "Treatment of Phantom Limb Pain by Tizanidin". S.S.Korsakov Journal of Neurology & Psychiatry (Zurnal Nevropatologii i Psikhiatrii imeni S.S.KORSAKOVA), 1997 vol. 3. P.36 39. Dr. Vorobeychik was the principle author.
- R.S.Megdyatov, Y.M.Vorobeychik, V.G.Dolgikh, V.K.Reshetnyak. "The Role of Zinc Ions in Pathogenesis of Trigeminal Neuralgia (Experimental and Clinical Study)".
 S.S.Korsakov Journal of Neurology & Psychiatry (Zurnal Nevropatologii i Psikhiatrii imeni S.S.Korsakova), 1995 vol. 5. P.14 18.
- Y.M.Vorobeychik. "The Role of Zinc Ions in Development of Pain Syndrome In Trigeminal Neuralgia". The International Symposium "Physiological and Biochemical Basis of Brain Activity. Abstracts. St. Petersburg, 1994, P.97.
- M.Kukushkin, V.K.Reshetnyak, Y.M.Vorobeychik. "Neurogenic Pain Syndromes and their Pathogenetic Therapy". Anesthesiology & Critical Care (Anestesiologia i Reanimazia), 1994 vol. 4, p.36-41.

 R.S.Megdyatov, Y.M.Vorobeychik. "Bivalent Cation Effect on Gamma- Aminobutyric Acid Metabolism: A Literature Review". S.S.Korsakov Journal of Neurology & Psychiatry (Zurnal Nevropatologii i Psikhiatrii imeni S.S.Korsakova), 1991 vol. 6. P.113-117.

Creative accomplishments

Description of outreach or other activities in which there was significant use of candidate's expertise (consulting, journal editor, reviewer for refereed journals or presses, peer reviewer of grants, speaking engagements, services to government agencies, professional and industrial association, educational institutions, etc.)

• Presentations at the Milton S. Hershey Medical Center Outside of the Department of Anesthesiology

Department of Ne	urology Grand Rounds
Department of 140	urorogy Orana Rounas

(One-hour presentation to 20 medical students, resident physicians, and faculty neurologists from Penn State University and surrounding communities)

"Neuropathic Pain"	December 10, 2004
"Interventional Procedures in Chronic Pain Management"	March 9, 2007
"Interventional Procedures for Chronic Back Pain"	March 25, 2011

"Complex Regional Pain Syndrome,"	March 2, 2005
(One-hour formal Lecture for 10 Neurology Residents as part of	
the Neurology Residency Lecture Series)	

"Pain Management"	November 2, 2007
Department of Internal Medicine Residency Program – Basic	November 12, 2008
Clinical Skills Course	August 25, 2009
(One hour presentation to 15 Internal Medicine Residents)	August 18, 2010

"Percutaneous Intradiscal Therapies"	March 4, 2008
Multidisciplinary Spine Conference	
(One hour presentation to 15 physicians, residents, and fellows)	

Multi-Disciplinary Spine Case Conference	January 23, 2009
(Dr. Vorobeychik was a panel member)	

"Provocation Discography. Tricks in statistics. 95% confidence intervals."

Multi-Disciplinary Spine Conference September 7, 2010

• Presentations made outside of Penn State Hershey Medical Center

"Interventional Procedures for Managing Chronic Pain" September 20, 2007
Pain Management from a Primary Care Perspective
Penn State Pain Management Conference

Holiday Inn Harrisburg East

(One hour presentation to 50-60 primary care practitioners and nurses)

"Intradiscal Therapies"

March 17, 2008

Visiting Professor for Interventional Pain Rounds

Massachusetts General Hospital, Harvard Medical School

Boston, MA

(One hour presentation to 30 pain physicians, fellows, and residents)

"Pathophysiology and Management of Chronic Pain Syndromes" March 19, 2008 Visiting Professor for Combined Anesthesia and Medical Grand Rounds, Caritas Carney Hospital, Tufts University Medical School Departments of Anesthesia and Medicine, Dorchester, MA (One hour presentation to 50 physicians and residents)

"Interventional Management of Chronic Low Back Pain" November 5, 2010 Visiting Professor for Neurology Department Grand Rounds Drexel University College of Medicine, Philadelphia, PA (One hour presentation to 50 physicians and residents)

- Reviewer for Peer-Reviewed Journal "Journal of Pain Research" June 2009 to Present
- Either Evidence of Research or Creative Accomplishments as Appropriate (patents, new product development, new art forms, citation index analysis, etc.).

Co-Investigator in the Proteomics Pain Biomarker Study. IRB Protocol No. 25019.

Co-Investigator in the Starter Grant "Identification of Genomic Markers for Complex Regional Pain Syndrome".

Comparison of CESI to conservative therapy such as medications and physical therapy – March 2011 – (Dr. Vorobeychik is the primary investigator)

• Description of New Courses and/or Programs Developed, Including Service Learning and Outreach Courses.

Developed interventional pain management curriculum for Pain Fellowship program.

Developed a lecture course focusing on Interventional Pain management for Pain Fellows.

Developed Interventional Technique Training Sessions on phantom for training of Pain Medicine Fellows - 2007

Practice Advisory regarding how to perform an appropriate neuromuscular examination as regards to potential complications of regional anesthesia (with Dr. Giampetro).

(OSCE) Objective Structured Clinical Examination
(Dr. Vorobeychik was the facilitator)

January 13, 2010 April 4, 2011

Description of new methods of teaching established courses and/or programs

Development of Interventional Technique Training Sessions on phantom for training of Pain Medicine Fellows

"Interlaminar Epidural Steroid Injection"	July 9, 2007
(Dr. Vorobeychik was the instructor)	July 10, 2008
	October 5, 2009
	September 13, 2010
"Medial Branch Block and Radiofrequency-cervical, thoracic,	August 13, 2007

"Medial Branch Block and Radiofrequency-cervical, thoracic, lumbar. (Dr. Vorobeychik was the instructor)

August 4, 2008 November 11, 2009 **November 4, 2010**

Cadaver Workshop to teach interventional procedures to Pain

Fellows and Anesthesiology Residents

(Two-hour workshop for 5 fellows and residents)

(Dr. Vorobeychik was the instructor) September 17, 2005

• Record of membership in professional and learned societies

1/2000 – Present	American Academy of Neurology
1/2003 - Present	American Pain Society
1/2004 - Present	American Society of Interventional Pain Physicians
1/2005 – Present	International Spine Intervention Society

• List of honors or awards for scholarship or professional activity

Scored in the 100th percentile nationwide on the in-service examination in last year of residency

• Technology Transferred or Adapted in the Field

Introduced the technique of performing cervical facet nerve blocks in lateral view. Introduced a single-needle technique of performing lumbar medial branch blocks. Participated in the introduction of kyphoplasty to the Pain Division

THE SCHOLARSHIP OF TEACHING AND LEARNING

Courses taught in resident instruction at Penn State for each semester with enrollments in each course

• Department of Anesthesiology Grand Rounds

(One-hour presentation to 30-50 medical students, resident physicians, and faculty anesthesiologists from Penn State University and surrounding communities)

"The Role of Interventional Pain Management in Chronic Pain March 1, 2007 Treatment"

• Formal Lecture for Anesthesia Residents

$(One-hour\ lecture\ to\ an\ average\ of\ 20\text{--}30\ resident\ physicians})$

Junior or Senior Anesthesiology Residency Core Program

"Interventional Pain Procedures" - Chronic Pain Block	October 27, 2010
"Introduction to Interventional Pain Procedures, Part II (CAII)	October 28, 2009
"Introduction to Interventional Pain Procedures, Part I (CAII)	October 14, 2009
"Introduction to Interventional Pain Management" (CA-II)	December 3, 2008
"Interventional Pain Management"	October 31, 2007
"Neuropathic Pain"	March 15, 2006

• Department of Anesthesiology Sub-specialty Didactic Conferences (One-hour lectures presented to 10-15 faculty, fellows and residents as part of the Pain Medicine Didactic Program)

part of the ram Medicine Didactic Frogram)	
"Neuropathic Pain, Part I"	December 22, 2004
"Neuropathic Pain, Part II"	December 29, 2004
"Discography, Part I"	April 6, 2005
"Discography, Part II"	April 20, 2005
"Sacroiliac Joint Arthropathy in Lights of Interventional Pain	
Management"	July 13, 2005
(Dr. Vorobeychik was the faculty advisor)	
"Introduction to Interventional Pain Management"	July 20, 2005
"Overview of Epidural Steroid Injections"	July 27, 2005
(Dr. Vorobeychik was the faculty advisor)	
"Interventional Pain Management"	August 31, 2005
"Surgical & Radiographic Anatomy of the Lumbar	
Radiofrequency Medial Branch Neurotomy"	December 14, 2005
"Facial Pain"	April 12, 2006
(Dr. Vorobeychik was the faculty advisor)	
"Radiofrequency Ablation of Lumbar Medial Branches, Part II"	April 19, 2006
"Introduction to Interventional Pain Management"	July 19, 2006
"Diagnostic Medial Branch Blocks"	September 13, 2006
"Surgical and Radiographic Anatomy of the Lumbar	
Radiofrequency Medial Branch Neurotomy"	September 20, 2006
"Introduction to Interventional Pain Management"	July 9, 2007
"Low Back Algorithms	July 23, 2007
"Surgical and Radiographic Anatomy of the Lumbar	
Radiofrequency Medial Branch Neurotomy"	September 5, 2007
"Diagnostic Medial Branch Blocks"	November 13, 2007
"Kyphoplasty/Vertebroplasty"	November 28, 2007
"Intradiscal Therapies, Part I"	December 5, 2007
"Intradiscal Therapies, Part II"	January 15, 2008
"Introduction to Interventional Pain Medicine"	July 9, 2008
"Low Back Algorithms"	August 19, 2008
"Diagnostic Medial Branch Blocks"	September 3, 2008

"Overview of Spinal and Vertebral Pathophysiology"	
By Saloni Sharma, MD (Dr. Vorobeychik was the faculty advisor)	September 10, 2008
Case and Question Session by Shabeera Husain, MBBS	•
(Dr. Vorobeychik was the faculty advisor)	September 16, 2008
"Surgical and Radiographic Anatomy of the Lumbar	
Radiofrequency Medial Branch Neurotomy"	October 14, 2008
"Intradiscal Therapies, Part I"	October 21, 2008
"Intradiscal Therapies, Part II"	November 12, 2008
"Kyphoplasty/Vertebroplasty"	February 11, 2009
"Overview of Painful Medical States"	
By Saloni Sharma, MD	M 07 0000
(Dr. Vorobeychik was the faculty advisor)	May 27, 2009
"Introduction to Interventional Pain Management"	July 8, 2009
"Low Back Algorithms"	August 18, 2009
"Diagnostic Medial Branch Blocks"	September 2, 2009
"Overview of Spinal/Vertebral Pathophysiology & Anatomy"	
By Dmitriy Fuzaylov, MD	Cantamban 0, 2000
(Dr. Vorobeychik was the faculty advisor)	September 9, 2009
"Surgical & Radiographic Anatomy of the Lumbar	Cantamban 15, 2000
Radiofrequency Medial Branch Neurotomy"	September 15, 2009
"Intradiscal Therapies, Part I" "Intradiscal Therapies Part II"	October 7, 2009
"Intradiscal Therapies, Part II" "Kyphoplasty/Vertebroplasty"	November 11, 2009 December 15, 2009
K VDDODIASIV/ V PRIPORODIASIV	December 15. Zuu9
** * * *	2000moer 12, 2003
"Basic Science Update"	2009
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow	
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator)	June 9, 2010
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management"	June 9, 2010 July 7, 2010
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms"	June 9, 2010 July 7, 2010 August 11, 2010
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms" "Diagnostic Medial Branch Blocks"	June 9, 2010 July 7, 2010
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms" "Diagnostic Medial Branch Blocks" "Adverse Events of Chronic Pain Procedures"	June 9, 2010 July 7, 2010 August 11, 2010
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms" "Diagnostic Medial Branch Blocks" "Adverse Events of Chronic Pain Procedures" By Johnson Ukpede, M.D. – Pain Fellow	June 9, 2010 July 7, 2010 August 11, 2010 September 1, 2010
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms" "Diagnostic Medial Branch Blocks" "Adverse Events of Chronic Pain Procedures" By Johnson Ukpede, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator)	June 9, 2010 July 7, 2010 August 11, 2010
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms" "Diagnostic Medial Branch Blocks" "Adverse Events of Chronic Pain Procedures" By Johnson Ukpede, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Surgical & Radiographic Anatomy of the Lumbar	June 9, 2010 July 7, 2010 August 11, 2010 September 1, 2010 September 8, 2010
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms" "Diagnostic Medial Branch Blocks" "Adverse Events of Chronic Pain Procedures" By Johnson Ukpede, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Surgical & Radiographic Anatomy of the Lumbar Radiofrequency Medial Branch Neurotomy	June 9, 2010 July 7, 2010 August 11, 2010 September 1, 2010 September 8, 2010 September 22, 2010
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms" "Diagnostic Medial Branch Blocks" "Adverse Events of Chronic Pain Procedures" By Johnson Ukpede, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Surgical & Radiographic Anatomy of the Lumbar Radiofrequency Medial Branch Neurotomy "Intradiscal Therapies", Part I	June 9, 2010 July 7, 2010 August 11, 2010 September 1, 2010 September 8, 2010 September 22, 2010 October 19, 2010
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms" "Diagnostic Medial Branch Blocks" "Adverse Events of Chronic Pain Procedures" By Johnson Ukpede, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Surgical & Radiographic Anatomy of the Lumbar Radiofrequency Medial Branch Neurotomy "Intradiscal Therapies", Part I "Intradiscal Therapies", Part II	June 9, 2010 July 7, 2010 August 11, 2010 September 1, 2010 September 8, 2010 September 22, 2010 October 19, 2010 November 10, 2010
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms" "Diagnostic Medial Branch Blocks" "Adverse Events of Chronic Pain Procedures" By Johnson Ukpede, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Surgical & Radiographic Anatomy of the Lumbar Radiofrequency Medial Branch Neurotomy "Intradiscal Therapies", Part I	June 9, 2010 July 7, 2010 August 11, 2010 September 1, 2010 September 8, 2010 September 22, 2010 October 19, 2010
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms" "Diagnostic Medial Branch Blocks" "Adverse Events of Chronic Pain Procedures" By Johnson Ukpede, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Surgical & Radiographic Anatomy of the Lumbar Radiofrequency Medial Branch Neurotomy "Intradiscal Therapies", Part I "Intradiscal Therapies", Part II "Kyphoplasty/Vertebroplasty"	June 9, 2010 July 7, 2010 August 11, 2010 September 1, 2010 September 8, 2010 September 22, 2010 October 19, 2010 November 10, 2010 December 1, 2010
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms" "Diagnostic Medial Branch Blocks" "Adverse Events of Chronic Pain Procedures" By Johnson Ukpede, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Surgical & Radiographic Anatomy of the Lumbar Radiofrequency Medial Branch Neurotomy "Intradiscal Therapies", Part I "Intradiscal Therapies", Part II "Kyphoplasty/Vertebroplasty"	June 9, 2010 July 7, 2010 August 11, 2010 September 1, 2010 September 8, 2010 September 22, 2010 October 19, 2010 November 10, 2010 December 1, 2010
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms" "Diagnostic Medial Branch Blocks" "Adverse Events of Chronic Pain Procedures" By Johnson Ukpede, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Surgical & Radiographic Anatomy of the Lumbar Radiofrequency Medial Branch Neurotomy "Intradiscal Therapies", Part I "Intradiscal Therapies", Part II "Kyphoplasty/Vertebroplasty" "Cervical Medial Branch Block"	June 9, 2010 July 7, 2010 August 11, 2010 September 1, 2010 September 8, 2010 September 22, 2010 October 19, 2010 November 10, 2010 December 1, 2010
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms" "Diagnostic Medial Branch Blocks" "Adverse Events of Chronic Pain Procedures" By Johnson Ukpede, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Surgical & Radiographic Anatomy of the Lumbar Radiofrequency Medial Branch Neurotomy "Intradiscal Therapies", Part I "Intradiscal Therapies", Part II "Kyphoplasty/Vertebroplasty" "Cervical Medial Branch Block" Moderator of Journal Club for Pain Medicine Division	June 9, 2010 July 7, 2010 August 11, 2010 September 1, 2010 September 8, 2010 September 22, 2010 October 19, 2010 November 10, 2010 December 1, 2010 February 8, 2011
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms" "Diagnostic Medial Branch Blocks" "Adverse Events of Chronic Pain Procedures" By Johnson Ukpede, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Surgical & Radiographic Anatomy of the Lumbar Radiofrequency Medial Branch Neurotomy "Intradiscal Therapies", Part I "Intradiscal Therapies", Part II "Kyphoplasty/Vertebroplasty" "Cervical Medial Branch Block" Moderator of Journal Club for Pain Medicine Division "Intradiscal Electrothermal Annuloplasty (IDET)" "Pain Clinic Emergencies" "Cooled Radiofrequency System for Treatment of Chronic	June 9, 2010 July 7, 2010 August 11, 2010 September 1, 2010 September 8, 2010 September 22, 2010 October 19, 2010 November 10, 2010 December 1, 2010 February 8, 2011 February 2, 2007
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms" "Diagnostic Medial Branch Blocks" "Adverse Events of Chronic Pain Procedures" By Johnson Ukpede, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Surgical & Radiographic Anatomy of the Lumbar Radiofrequency Medial Branch Neurotomy "Intradiscal Therapies", Part I "Intradiscal Therapies", Part II "Kyphoplasty/Vertebroplasty" "Cervical Medial Branch Block" Moderator of Journal Club for Pain Medicine Division "Intradiscal Electrothermal Annuloplasty (IDET)" "Pain Clinic Emergencies"	June 9, 2010 July 7, 2010 August 11, 2010 September 1, 2010 September 8, 2010 September 22, 2010 October 19, 2010 November 10, 2010 December 1, 2010 February 8, 2011 February 2, 2007
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms" "Diagnostic Medial Branch Blocks" "Adverse Events of Chronic Pain Procedures" By Johnson Ukpede, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Surgical & Radiographic Anatomy of the Lumbar Radiofrequency Medial Branch Neurotomy "Intradiscal Therapies", Part I "Intradiscal Therapies", Part II "Kyphoplasty/Vertebroplasty" "Cervical Medial Branch Block" Moderator of Journal Club for Pain Medicine Division "Intradiscal Electrothermal Annuloplasty (IDET)" "Pain Clinic Emergencies" "Cooled Radiofrequency System for Treatment of Chronic Pain from Sacroiliitis" "Anatomy and Pathophysiology of Spinal Cord Injury	June 9, 2010 July 7, 2010 August 11, 2010 September 1, 2010 September 8, 2010 September 22, 2010 October 19, 2010 November 10, 2010 December 1, 2010 February 8, 2011 February 2, 2007 August 28, 2008
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms" "Diagnostic Medial Branch Blocks" "Adverse Events of Chronic Pain Procedures" By Johnson Ukpede, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Surgical & Radiographic Anatomy of the Lumbar Radiofrequency Medial Branch Neurotomy "Intradiscal Therapies", Part I "Kyphoplasty/Vertebroplasty" "Cervical Medial Branch Block" Moderator of Journal Club for Pain Medicine Division "Intradiscal Electrothermal Annuloplasty (IDET)" "Pain Clinic Emergencies" "Cooled Radiofrequency System for Treatment of Chronic Pain from Sacroiliitis" "Anatomy and Pathophysiology of Spinal Cord Injury Associated with Regional Anesthesia and Pain	June 9, 2010 July 7, 2010 August 11, 2010 September 1, 2010 September 8, 2010 September 22, 2010 October 19, 2010 November 10, 2010 December 1, 2010 February 8, 2011 February 2, 2007 August 28, 2008 October 14, 2008
"Basic Science Update" By Marek Kurowski, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Introduction to Interventional Pain Management" "Low Back Algorithms" "Diagnostic Medial Branch Blocks" "Adverse Events of Chronic Pain Procedures" By Johnson Ukpede, M.D. – Pain Fellow (Dr. Vorobeychik was the moderator) "Surgical & Radiographic Anatomy of the Lumbar Radiofrequency Medial Branch Neurotomy "Intradiscal Therapies", Part I "Intradiscal Therapies", Part II "Kyphoplasty/Vertebroplasty" "Cervical Medial Branch Block" Moderator of Journal Club for Pain Medicine Division "Intradiscal Electrothermal Annuloplasty (IDET)" "Pain Clinic Emergencies" "Cooled Radiofrequency System for Treatment of Chronic Pain from Sacroiliitis" "Anatomy and Pathophysiology of Spinal Cord Injury	June 9, 2010 July 7, 2010 August 11, 2010 September 1, 2010 September 8, 2010 September 22, 2010 October 19, 2010 November 10, 2010 December 1, 2010 February 8, 2011 February 2, 2007 August 28, 2008

"Prevalence and Clinical Correlates of Vitamin D Inadequacy Among Patients with Chronic Pain" – Saloni Sharma, M.D		
Pain Medicine Fellow – Weekly Pain Division Journal		
Club (Dr. Vorobeychik was the moderator)	February 11, 2009	
"Spinal Cord Stimulation is an Effective Treatment for Chronic	,	
Intractable Visceral Pelvic Pain" Pain Division Journal Club		
(Dr. Vorobeychik was one of the moderators)	February 12, 2009	
"Management of Symptomatic Lumbar Degenerative Disc	, , , , , , , , , , , , , , , , , , ,	
Disease" Pain Division Journal Club		
(Dr. Vorobeychik was one of the moderators)	April 15, 2009	
"Fibromyalgia Symptoms are Reduced by Low Dose	1 , , , , ,	
Naltrexone: A Pilot Study" Pain Division Journal Club		
(Dr. Vorobeychik was one of the moderators)	June 2, 2009	
"Sonographic Visualization & Ultrasound-Guided Block of	,	
Third Occipital Nerve" Pain Division Journal Club		
(Dr. Vorobeychik was one of the moderators)	September 17, 2009	
"Study: Substantial Amount of Patients Not Taking Opioids		
As Prescribed" Pain Division Journal Club		
(Dr. Vorobeychik was one of the moderators)	October 13, 2009	
"Case Series of Pulsed Radiofrequency Treatment of Myofascial	November 10, 2009	
Trigger Points & Scar Neuromas" Pain Division Journal Club	· · · · · · · · · · · · · · · · · · ·	
(Dr. Vorobeychik was one of the moderators)		
"Does Discography Cause Accelerated Progression of		
Degenerative Changes in the Lumbar Disc" Pain Division		
Journal Club (Dr. Vorobeychik was one of the moderators) April 13, 2010		
"NASS Newly Released Vertebroplasty Randomized Controlled		
Trials" – Pain Division Journal Club		
(Dr. Vorobeychik was one of the moderators)	August 25, 2010	
"Crossroads of Pain and Addiction" - Pain Division Journal		
Club (Dr. Vorobeychik was one of the moderators)	March 8, 2011	
Moderator of Journal Club for Anesthesiology Residency Program		
"Pain Management"	November 17, 2008	
	January 17, 2011	
Teaching Programs for Medical Students		
(One-hour lecture to about 40-50 Medical Students)		
Island Curriculum related to the ACCMF Core Competencies	•	

Island Curriculum related to the ACGME Core Competencies

"Pain Mechanisms and Physiology"	July 11, 2006
"Pathophysiology and Treatment of Chronic Pain"	January 7, 2008
"Pathophysiology and Treatment of Chronic Pain"	April 8, 2008
"Pathophysiology and Treatment of Chronic Pain"	April 7, 2009

• Teaching Programs for Medical Students

(Two two-hour Small Group Sessions to about 10-15 Medical Students

Dr. Vorobeychik was the moderator)

Island Curriculum related to the ACGME Core Competencies

"Chronic Pain"
"Chronic Pain"
"Chronic Pain"

January 9, 2008 April 7 & 8, 2009 **April 7, 2010**

Courses and workshops taught in support of outreach-based instruction, including continuing and distance education, service learning courses, international programs, cooperative extension programs, and clinical assignments at Penn State

• Chronic Interventional Pain Cadaver Workshop

September 17, 2005

Hershey, Pennsylvania

(Two-hour workshop for 5 fellows and residents)

(Dr. Vorobeychik was one of the instructors)

Advising responsibilities

• Pain Medicine Fellows trained:

Nicholas DeAngelo, D.O.

Benjamin Lee, M.D.

Jill Eckert, D.O.

David Giampetro, M.D.

Eric Roslonski, D.O.

Robert Overbaugh, M.D.

Mark Moran, M.D.

W. Alec Tisdall, M.D.

Chheany Ung, M.D.

Jason Bundy, M.D.

Mary Chasko Bush, M.D.

Simon Faynzilberg, M.D.

Shabeera Husain, M.B.B.S.

Saloni Sharma, M.D.

Shabeera Husain, M.B.B.S. Marek Kurowski, M.D. Dmitriy Fuzaylov, M.D. Bassem Asaad, M.D.

Steven Stulc, D.O. – in training Johnson Ukpede, M.D. – in training Channing Willoughby, M.D. – in training

Bhawna Jha, M.D. – in training

Other evidence of resident and/or outreach-based teaching and advising effectiveness (e.g., performance of students in subsequent courses, tangible results and benefits derived by clientele; recipient of teaching awards)

- Received 3.97 out of 4 score from the anesthesia residents on resident teaching performance
- Director of Interventional Pain Management since May 2005
- Listed as one of the top five Pain Medicine Fellowships by American Society of Regional Anesthesia based on volume of interventional procedures performed by fellows.
- Always fill slots in the Pain Medicine Fellowship
- The following Pain Fellows entered academic pain practice after finishing Pain Medicine Fellowship:

Jill Eckert, D.O.

David Giampetro, M.D.

July 2004 –September 2005

July 2005 – June 2006

Nicholas DeAngelo, MD February 2004 – January 2005

Teaching materials available as supplementary materials, including such items as case studies and teaching portfolios

• Yearly Crisis Resource Management sessions were conducted. This was simulation-based instruction regarding crisis management for the Pain Medicine Fellows.

March 9, 2005 & March 16, 2005; March 8, 2006 & March 15, 2006 March 5, 2007; March 25, 2008 & April 3, 2008

April 16, 2009 April 20, 2010

PATIENT CARE ACTIVITIES

Statement of clinical assignment, including time commitment

• Clinical Assignments

Pain Management (Inpatient and Outpatient) 100% (Evaluation and treatment of patients with a multitude of diverse chronic pain conditions)

- Clinical Time Commitments
 - a. Outpatient Pain Medicine Center (Majority of time –90%) (Evaluation and treatment of chronic pain patients as well as performance of procedures for the treatment of chronic pain)
 - b. Surgical Pain Management Procedures in the Operating Room (1 day per month) (Performance of complicated procedures such as trial and implantation of spinal cord stimulators and intrathecal drug delivery systems, as well as performance of radiofrequency neurolysis of facet nerves.)
 - c. Interventional Pain Management Procedures in the Hershey Outpatient Surgical
 Center (3 times per month)
 (Performance of fluoroscopically guided spinal injections such as epidural steroid,
 transforaminal, facet joint, sacroiliac joint.)
 - d. Acute Pain Rounds & Call (Every third or fourth weekend)
 (Management of patients with acute postoperative pain who have a continuous epidural infusion or regional anesthetic for postoperative pain control.)

SERVICE AND THE SCHOLARSHIP OF SERVICE TO THE UNIVERSITY, SOCIETY, AND THE PROFESSION

A. Service to the University

Record of committee work at campus, college, department and University levels

- Clinical Technology & Equipment Committee, Dept. of Anesthesiology
 Penn State Hershey Med Center, Hershey, PA
 January 2006 Present
- Radiology Safety Officer for Hershey Outpatient Surgical Center, Hershey, PA
 December 2008-Present

B. <u>Service to Society as a Representative of the University (limit the list to those activities</u> that use the candidate's professional expertise).

Participation in community affairs

- This presentation was done at a free community day focused on total spine health "Can injections help relieve your back pain?"
 "Interventional Pain Management"
 May 8, 2010
- Service to governmental agencies at the international, federal, state, and local levels Expert Consultant to Pennsylvania Department of Public Welfare (Bureau of Program Integrity) since 2007
- Testifying as an Expert Witness Testified as an expert witness in 2002.

C. Service to the Disciplines and to the Profession.

Active Participation in Professional and Learned Societies (e.g., offices held, committee work, and other responsibilities

Membership on national/international professional society committee

• An active member of Standards Committee of International Spine Intervention Society February 2009 – Present

Revised Apr 2011