David M Giampetro, M.D.

Assistant Professor of Anesthesiology and Neurology
Director, Pain Medicine Fellowship
Penn State Hershey Pain Medicine and College of Medicine
500 University Drive, M.C. HU32
Hershey, PA 17033-0850
(717) 531-5680
dgiampetro@hmc.psu.edu

CLINICAL POSITION:

July 2006 – Present	**Attending Physician in Pain Medicine** Division of Department of Anesthesiology Penn State Hershey Pennsylvania State University College of Medicine Hershey, Pennsylvania

ACADEMIC POSITIONS:

July 2008 – Present	**Director Pain Medicine Fellowship** Department of Anesthesiology Penn State Hershey Pennsylvania State University College of Medicine Hershey, Pennsylvania
July 2007 – June 2008	**Co-Director Pain Medicine Fellowship** Department of Anesthesiology Penn State Hershey Pennsylvania State University College of Medicine Hershey, Pennsylvania
December 2006 – July 2007	Curriculum Coordinator of Pain Fellowship Department of Anesthesiology Penn State Hershey Pennsylvania State University College of Medicine Hershey, Pennsylvania
December 2006 – Present	**Assistant Professor of Neurology** Department of Neurology Penn State Hershey Pennsylvania State University College of Medicine Hershey, Pennsylvania
July 2006 - Present	**Assistant Professor of Anesthesiology** Department of Anesthesiology Penn State Hershey Pennsylvania State University College of Medicine Hershey, Pennsylvania

EDUCATION

7/2005 – 6/2006	The Pennsylvania State University College of Medicine Interventional Pain Management Fellowship	Hershey, PA
7/2002 – 6/2005	Cleveland Clinic Foundation Florida Neurology Residency	Weston, FL
7/2001 – 6/2002	University of Florida Health Science Center Jacksonville Internal Medicine Internship	Jacksonville, FL
8/1997 – 5/2001	The Pennsylvania State University College of Medicine Doctorate of Medicine	Hershey, PA
8/1993 – 5/1997	The Pennsylvania State University Bachelor of Science in Chemistry with Highest Distinction	University Park, PA

BOARD CERTIFICATION

2006	Adult Neurology Diplomat, American Board of Psychiatry and Neurology
2007	Certification in Pain Management, American Board of Psychiatry and Neurology

ADDITIONAL CERTIFICATION

Advanced Cardiac Life Support
Basic Cardiac Life Support

THE SCHOLARSHIP OF RESEARCH AND CREATIVE ACCOMPLISHMENTS

Research and/or scholarly publications

- Articles published in refereed journals (include only articles in refereed journals in this section)
  - Vorobeychik Y, Giampetro D. Topical Lidocaine and Epidural Bupivicaine/Hydromorphone in the Treatment of Complex Regional Pain Syndrome Type 2. *Pain Physician*: May 2007:10:511-517
  - A Slow and Awkward Child – a case of central core disease *Archives of Pathology and Laboratory Medicine.* 128 (4), 481-2, 2004
  - Modeling Chemical Vapor Deposition (CVD) Diamond Film Growth with Diamantane-Derived Radicals in Solution: Permissive Evidence in Support of the Garrison-Brenner Mechanism for Incorporation of Carbon into the Dimer Sites of the {100} Diamond Surface**.** *J. Org. Chem.*, **64** (20), 7612 -17, 1999

- **Parts of Books**
  - Giampetro D, Vorobeychik, Y. "Role of Adjuvant Medication in Managing Opioid-Induced Hyperalgesia." *Opioid-Induced Hyperalgesia*. Ed Jianren Mao. Informa Healthcare USA: New York, NY, 2010. 164-173. Print
  - **Sharma S, Giampetro D. "Opioid Side Effects"** ***Textbook of Pain Medicine. Ed Gordin, Vitaly. Springer. Accepted - Publication Pending***

- Manuscripts in progress (second- and fourth-year reviews only)
  - **Book chapter on side effects of opioid therapy, co-authoring with former fellow Dr Saloni Sharma (Submitted for publication)**
  - **Case series on ultrasound guided peripheral nerve blocks and neurolysis in the treatment of chronic pain**

- Poster Presentation
  - **Undiagnosed Multiple Glomus Tumors As a Treatable Cause of Intractable Chronic Leg Pain . Cooke J, Fox E, Giampetro D, Harbaugh K.**
  - **Response to Epidural Steroid Injections in Patients with Radiculopathies Diagnosed with or without EMG**. **Evan Freedman DO[1], David Gill MD[1], David Giampetro MD**

Record of participation in, and description of, seminars and workshops (short description of activity, with titles, dates, sponsor, etc.); indication of role in seminar or workshop, e.g., student, invited participant, etc.

- Chief Resident Leadership and Management Skills Seminar May 12-14, 2004

Emory University School of Medicine. Atlanta, GA.

- Regional Anesthesia Study Center of Iowa Cadaver and Animal Based — July, 2005
  Workshop in Regional Anesthesia. Hershey, PA.
- Percutaneous Discectomy and Radiofrequency Orientation and Training — May 20, 2006
  Hershey, PA. Sponsored by Stryker.
- Spinal Cord Stimulation Cadaver Workshop — September 16, 2006
  Baltimore, MD. Sponsored by ANS.
- Balloon Kyphoplasty Training Workshop — February, 10, 2007
  Paterson, NJ. Sponsored by Kyphon.
- **Crisis Management Course, Simulation Lab** — March 8, 2006
  Hershey, PA — March 5, 2007
  March 25, 2008
  April 3, 2008
  April 16, 2009
  April 20, 2010
- Grantsmanship: The preparation of a successful research grant — July 7, 2007
  Hershey, PA
- International Spine Interventional Society 15th Annual Scientific Meeting — July 18-21, 2007
  Baltimore, MD
- Dr. Niels Jensen's Pain Board Review Course — August 24-26, 2007
  East Hanover, NJ
- Dannemiller Memorial Education Foundation — September 10-14, 2007
  An Intensive Review of the Specialty of Pain Medicine:
  A Pain Board Oriented Review Program on CD ROM
- Graduated Junior Faculty Development Program – *A year long intensive course to help junior faculty develop successful academic careers* — August, 2008
  Penn State Hershey Medical Center, Hershey, PA
- **Cooled RF workshop** — **February 13, 2011**
  Miami, FL

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 made outside of Penn State Hershey Medical Center

  1. Pain Management from a Primary Care Perspective — September 20, 2007
     Penn State Pain Management Conference
     "Medication Management in Neuropathic Pain"
     Holiday Inn Harrisburg East
     (One hour presentation to 50-60 primary care practitioners and nurses)

2. Neurology Grand Rounds, Cleveland Clinic Foundation Florida Department of Neurology (One-hour lectures presented to 5-10 faculty, fellows and residents)

Neurology Grand Rounds	August 17, 2002
Neurology Grand Rounds	November 12, 2003

3. Neurology Resident Lectures, Cleveland Clinic Foundation Florida (One-hour lectures presented to 5-10 faculty, fellows and residents)

Clinical-Pathologic Correlation	October 16, 2002
Neurology Basic science lecture	October 24, 2002
Neurology Basic science lecture	January 4, 2003
Clinical-Pathologic Correlation	March 19, 2003
Neurology Basic science lecture	September 26, 2003
Neurology Basic science lecture	December 19, 2003
Clinical-Pathologic Correlation	March 17, 2004
Neurology Basic science lecture	April 30, 2004
Clinical-Pathologic Correlation	May 19, 2004
Neurology Basic science lecture	June 4, 2004
Neurology Basic science lecture	July 30, 2004
Neurology Basic science lecture	September 17, 2004
Epilepsy Conference	November 17, 2004
Neurology Basic science lecture	December 10, 2004
Neurology Basic science lecture	January 28, 2005
Neurology Basic science lecture	March 15, 2005
Neurology Basic science lecture	April 8, 2005
Neurology Basic science lecture	June 17, 2005

4. Multi-Disciplinary Spine Case Conference — January 23, 2009

   (Dr. Giampetro was a panel member)

5. Multi-Disciplinary Spine Conference Lecture — March 3, 2009

   "Medication Management for Chronic Pain"

6. **Multi-Disciplinary Spine Conference Lecture — March 1, 2011**
   "Review of Spontaneous IT Tears with Low Pressure Headaches"
   Presented by Bhawna Jha, M.D. – Pain Medicine Fellow
   (Dr. Giampetro was the moderator)

Funded projects, grants, commissions, and contracts:

- A comparison of cold pain threshold and tolerance in chronic pain patients on chronic opioids to those not on chronic opioids – an investigation into the phenomenon of Opioid Induced Hyperalgesia. Approved for the Anesthesiology Research Starter Grant ($10,000)
  - Project has been closed for the time-being.

- **Response to ESI in patients with radiculopathies confirmed with EMG/NCS.**

Record of membership in professional and learned societies

- American Academy of Neurology — 2002 to Present
- International Spine Intervention society — 2006 to Present
- American Academy of Pain Medicine — 2008 to Present
- Nominated to the Education Committee of the American Academy of Pain Medicine — 2008 to Present

Description of new courses and/or programs developed, including service learning and outreach courses

- 1st Annual Central Pennsylvania Conference on Pain Management. — September 20, 2007
  Description: Overview of pain management for the primary care provider
- Spine Center community day presentation: — June 13, 2009
  "Overview of medication management for neuropathic pain"
- **Participated in Spine Center telethon on ABC27** — March 13, 2008
  "**We've Got Your Back"** — May 14, 2009
  March 24, 2011

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

- Continued Revision the Pain Fellowship curriculum — April 2007 to present
  1. Weekly lecture series providing:
     a. In-depth information regarding the more common diagnoses and treatments in pain medicine
     b. An overview of the topics to be mastered for the pain boards
     c. A series of lectures on interventional pain management (in collaboration with Dr. Yakov Vorobeychik)
  2. Developing a board review question and answer course for pain fellowship
  3. Developed and modifying OSCE for pain fellowship
  4. Completed and pre-test and post-test for the residents and fellows to assess their progress. This will be revised in the future as feedback has indicated it is too challenging a test

List of honors or awards for scholarship or professional activity

- Junior Faculty Development Course Appointee — June 2007
- Chief Resident, Department of Neurology, Cleveland Clinic Florida — 2004 – 2005
- Doctor's Day Humanitarian Award – Future — 2004

- Mellinger Scholarship 1998
- Pfizer Undergraduate Research Fellowship Award 1996
- Evan Pugh Scholar Award 1996 and 1997
- Golden Key National Honor Society/KPMG Scholarship 1995
- The President Sparks Award 1995
- The President's Freshman Award 1994
- Lubrizol Scholarship 1994 – 1997
- University Scholar – Penn State University 1993 – 1997

Other evidence of impact in society of research scholarship and creative accomplishments

- Investigated a possible role for CMV proteins in the inhibition of HIV replication. Mentor David Spector, Ph.D., Penn State College of Medicine. Summer, 1998

THE SCHOLARSHIP OF TEACHING AND LEARNING

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

1. Department of Anesthesia Sub-specialty Didactic Conferences
   (One-hour lectures presented to 10-15 faculty, fellows, and residents as part of the Pain Lecture Series)

"Introduction to epidural steroid injections"	July 27, 2005
"Neurologic exam of the upper extremities"	September 28, 2005
"Management of Adverse events in the Pain Clinic"	October 19, 2005
"Neurologic exam of the lower extremities"	January 18, 2006
"Headache"	April 12, 2006
"Introduction to epidural steroid injections"	August 2, 2006
"Neuromuscular exam for the pain physician I"	August 9, 2006
"Neuromuscular exam for the pain physician II"	August 16, 2006
"Neuromuscular exam for the pain physician III"	August 30, 2006
"SI Joint"	October 4, 2006
"Overview of Anatomy & Secondary Headaches"	March 7, 2007
"Neuromuscular exam for the pain physician I"	July 11, 2007
"Neuromuscular exam for the pain physician II"	July 13, 2007
"Overview of neuropathy/neuropathic pain"	July 25, 2007
Case and Question Session (Dr. Giampetro was moderator)	August 22, 2007
"SI joint – Introduction to epidural steroid injection"	September 19, 2007
"Overview of anatomy and secondary headaches"	January 30, 2008
"Pregnancy, Nursing and Labor Epidurals"	June 4, 2008
"Neurological & Musculoskeletal Exam for the Pain Physician I"	July 15, 2008
"Neurological & Musculoskeletal Exam for the Pain Physician II"	July 23, 2008
"Overview of Neuropathy/Neuropathic Pain"	July 30, 2008
"Pain Clinic Emergencies" Pain Division Journal Club (Dr. Giampetro was one of the moderators)	August 28, 2008
"SI Joint/Introduction to Epidural Steroid Injections"	October 1, 2008
"Overview of Discogenic Pain & Discography" Janak Vidyarthi, M.D. – Pain Medicine Fellow (Dr. Giampetro was the moderator)	October 8, 2008
"Cooled RF System for Treatment of Chronic Sacroiliitis" Pain Division Journal Club (Dr. Giampetro was one of the moderators)	October 14, 2008
"Psychology/Psychiatry for Pain Patients"	December 3, 2008
"Anatomy & Pathophysiology of Spinal Cord Injury" Pain Division Journal Club (Dr. Giampetro was one of The moderators)	December 9, 2008
DVD – "Regional Anesthesia of the Upper Extremities (Dr. Giampetro was the moderator)	December 31, 2008
"Percutaneous Thermocoagulation Intradiscal Techniques for Discogenic Techniques for Discogenic Low Back Pain" Weekly Pain Medicine Journal Club (Dr. Giampetro was the moderator)	January 20, 2009
DVD – "Neurosurgical Procedures for Pain" (Dr. Giampetro was the moderator)	January 20, 2009
"Overview of Ergotamines & Other Headache Meds" (Dr. Giampetro was the moderator)	February 17, 2009
"Spinal Cord Stimulation is an Effective Treatment for Chronic Intractable Visceral Pelvic Pain" Pain Division Journal Club (Dr. Giampetro was one of the moderators)	February 12, 2009

"Cervicogenic Headache – Invasive Procedures"	
Weekly Pain Medicine Journal Club	
(Dr. Giampetro was the moderator)	February 17, 2009
"Overview of Head/Brain Anatomy and secondary headaches"	March 17, 2009
"Neurological & Musculoskeletal Exam for the Pain Physician I"	July 13, 2009
"Neurological & Musculoskeletal Exam for the Pain Physician II"	July 22, 2009
"Overview of Neuropathy/Neuropathic Pain"	July 28, 2009
"Adverse Events of Chronic Pain Procedures"	
Bassem Asaad, M.D. – Pain Medicine Fellow	
(Dr. Giampetro was the moderator)	September 14, 2009
"SI Joint/Introduction to Epidural Steroid Injections"	September 30, 2009
"Psychology/Psychiatry for Pain Patients"	January 6, 2010
"Basic Science Update on CRPS"	
Dmitriy Fuzaylov, M.D.-Pain Medicine Fellow	
(Dr. Giampetro was the moderator)	January 19, 2010
"Overview of Head/Brain Anatomy & Secondary Headaches"	March 1, 2010
"Neurosurgical procedures for pain"	March 16, 2010
"Overview of Osteoarthritis and other painful states"	
Bassem Asaad, M.D.-Pain Medicine Fellow	
(Dr. Giampetro was the moderator)	**March 22, 2010**
"Neurological & musculoskeletal exam for the Pain Physician, Part I"	**July 20, 2010**
"Neurological & musculoskeletal exam for the Pain Physician, Part II"	**July 26, 2010**
"Overview of neuropathy/neuropathic pain"	**July 28, 2010**
"Overview of spinal/vertebral pathophysiology & anatomy"	
Channing Willoughby, M.D. – Pain Medicine Fellow	
(Dr. Giampetro was the moderator)	**August 25, 2010**
"SI joint/Introduction to ESI"	**September 29, 2010**
"Psychology/Psychiatry for pain patients"	**January 12, 2011**
"Basic Science Update"	
Johnson Ukpede, M.D. – Pain Medicine Fellow	
(Dr. Giampetro was the moderator)	**January 19, 2011**
"Overview of osteoarthritis and other pain medical states"	
Steven Stulc, D.O. – Pain Medicine Fellow	
(Dr. Giampetro was the moderator)	**February 16, 2011**
"Overview of anatomy and secondary headaches"	**February 23, 2011**

2. Department of Anesthesia Grand Rounds
(one hour presentation to 30-50 anesthesia residents and anesthesia faculty from Penn State University and surrounding communities)

"Chronic Pain Case Presentation"	August 7, 2008
"Opioid Induced Hyperalgesia"	March 4, 2010

3. Formal Lecture for Anesthesia Residents
(One-hour lecture to an average of 20-30 resident physicians)

<u>Senior Anesthesiology Residency Core Program</u>	
"Review of Neurologic Exam"	November 7, 2007
"Review of the musculoskeletal exam"	November 7, 2007
<u>Junior Anesthesiology Residency Core Program</u>	
"Neuropathic Pain"	November 5, 2008
	November 4, 2009
"Introduction to Epidural Steroid Injections"	November 5, 2008
"Neurophysiology"	October 13, 2009

"The brain cerebral blood flow, Effects of Anesthetic Drugs & Neuromonitoring"	October 13, 2009
"Neuropathic Pain States"	**October 20, 2010**
"Residency Junior Core Lecture - Neurophysiology: Brain, cerebral blood flow, effects of anesthetic, etc"	**November 2, 2011**

4. Anesthesiology Case Conference
(15 minute presentation to 10-20 faculty and residents)

"CNS Vasculitis"	November 1, 2007

5. Department of Neurology Grand Rounds
(One-hour presentation to 30-50 medical students, resident physicians, and faculty neurologists from Penn State University and surrounding communities)

"Opioid Induced Hyperalgesia,"	November 16, 2007

6. Teaching Programs for Medical Students

Island Curriculum for medical students on Pain Medicine (Dr. Giampetro was the facilitator for two small group sessions of 10 medical students in each group)	January 9, 2008 **April 6, 2010** **April 5, 2011**
Neurology "Break-Out" session about the neurologic examination during medical student year 2 physical diagnosis course (Dr Giampetro was the facilitator for 20 medical students during An hour-long session)	February 21, 2008
Island curriculum for medical students on Neurology (Dr. Giampetro was a facilitator for 6 small groups of about 10 Medical students per group – the objective was to introduce the students to interviewing and examining a neurology patient. Dr Giampetro's station was in regards to excessive sleepiness)	June 25, 2008
Problem Based Learning – Neuroscience block (Dr Giampetro was a PBL facilitator for five sessions of PBL during the Neuroscience block. Each session was 3 hours long and included eight students)	January 9, 2009 January 13, 2009 January 16, 2009 January 20, 2009 January 23, 2009 January 8, 2010 January 12, 2010 January 15, 2010 January 19, 2010 January 22, 2010 **January 4, 2011** **January 7, 2011** **January 11, 2011** **January 14, 2011** **January 18, 2011**
Lecture to Medical Students for Island Curriculum	
"Management of Chronic Pain"	April 7, 2009
"Management of Chronic Pain"	**April 6, 2010** **April 5, 2011**

7. Internal Medicine Residency Basic Clinical Skills Course

"Pain Management"	October 2, 2008
"Pain Management"	**August 25, 2010**

8. Neurology Residency Lecture Series

"Introduction to Epidural Steroid Injections"	November 20, 2008
"Medical Management of Neuropathic Pain"	November 3, 2008
"Overview of Pain Assessment"	September 8, 2009
"Overview of Pain Diagnosis"	September 15, 2009
"Overview of Pain Assessment"	**October 5, 2011**
"Overview of Pain Diagnosis"	**October 26, 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

- **Interventional Technique Session on phantom** — July 24, 2007
  SI Joint Injection, Intra-articular Facet Joint Injection — July 14, 2008
  (lumbar, thoracic, cervical) — October 12, 2009
  (Dr. Giampetro was the instructor) — **September 23, 2010**

- **Interventional Technique Session on phantom** — August 28, 2007
  Lumbar Transforaminal Epidural Steroid Injection, S1 — August 26, 2008
  transforaminal Epidural Steroid Injection, Piriformis Muscle — November 30, 2009
  Block (Dr. Giampetro was the instructor) — **November 11, 2010**

- **(OSCE) Objective Structured Clinical Examination**
  (Dr. Giampetro was the facilitator) — January 13, 2010
  June 2, 2010
  April 4, 2011

Advising responsibilities

- Fellowship educational responsibility includes a commitment to advising fellows with a focus on the ACGME six core competencies of Patient care, Medical Knowledge, Professionalism, Practice Based Learning, Systems Based Practice, and Interpersonal/Communication Skills
- Pain Medicine Fellows trained:

Mark Moran, M.D.	Bassem Asaad, M.D.
W. Alec Tisdall, M.D.	Dmitriy Fuzaylov, M.D.
Chheany Ung, M.D.	Marek Kurowski, M.D.
Jason Bundy, M.D.	**Steven Stulc, D.O. – in training**
Mary Chasko Bush, M.D.	**Johnson Ukpede, M.D. – in training**
Simon Faynzilberg, M.D.	**Channing Willoughby, M.D. – in training**
Saloni Sharma, M.D.	**Bhawna Jha, M.D. – in training**
Janak Vidyarthi, M.D.	
Shabeera Husain, M.B.B.S.	

- Medical Student Research Project
  - Supervised Earl Wilson for his MSRP on OIH. September 2008-April 2009

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)

- Fellows trained so far have a 100% Pain Board pass rate
- Program Director for Pain Medicine Fellowship since 2008
- Always fills slots for the fellowship with some of the best candidates available

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. Outpatient Spine Center (2 days per month)

     (Evaluation and treatment of chronic pain patients)
  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 fourth week)

     (Management of patients with acute postoperative pain who have a continuous epidural infusion or regional anesthetic for postoperative pain control.)
  e. Outpatient Subspecialties clinic – Camp Hill (one day per three weeks)

     (Evaluation and treatment of chronic pain patients)

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

Service to the University

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

Penn State Hershey Medical Center Committees

- Graduate Medical Education Committee (GMEC) — 2008 – Present

Record of administrative support work (college representative, etc.)

- Co- director of the Pain Medicine Fellowship — 2007 to 2008
- Director of the Pain Medicine Fellowship — 2008 to present

Other

- Interviewing medical student applicants — 2008 to present
- Revised interview process for Pain Fellowship — September 2009
- **Participated in internal review of the Heart and Vascular Interventional Fellowship program** — **April 9, 2011**
- **Participated in internal review of the Neurophysiology and Neuromuscular Disorders Fellowship programs** — **November 9, 2011**

Service to society as a representative of the University

Testifying as an expert witness

- Expert witness in a child-support case where a patient was claiming his low back pain prevented him from working and paying child-support payments. — December 13, 2007
- **Testified as an expert witness in case involving a patient who might lose custody of her child due to opioid dependence** — **March 30, 2011**
- Baseball coach for East Hanover Baseball League — Feb 2008 – present

Service to the disciplines and to the profession

Organizing conferences, service on conference committees

- Organized a month long review course for the Neurology Residency In Service Training examination February through March 2005