

**THE UNIVERSITY OF TEXAS MEDICAL BRANCH
SCHOOL OF MEDICINE**

CURRICULUM VITAE

NAME: **GULSHAN DOULATRAM, MD** March 2019

PRESENT POSITION

& ADDRESS:

Professor
Division Chief of Pain Medicine
Pain Clinic Medical Director
The University of Texas Medical Branch
Department of Anesthesiology
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Galveston, Texas 77555-0591
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BIOGRAPHICAL:

Citizenship: US
Home Address: 15510 Pinenut Bay Ct
Houston, TX 77059

EDUCATION:

01/00-01/01 **Fellowship in Pain Management**
The University of Texas Medical Branch
Galveston, Texas

10/95-12/99 **Anesthesiology Resident**
The University of Texas Medical Branch
Galveston, Texas

10/95-10/96 **Internship**
The University of Texas Medical Branch
Galveston, Texas

12/91-12/95	Master of Science Department of Human Biological Chemistry and Genetics The University of Texas Medical Branch Galveston, Texas
11/85-12/91	MBBS (Bachelor of Medicine and Bachelor of Surgery) Kilpauk Medical College Madras, India

BOARD CERTIFICATION:

American Board of Anesthesiology
American Board of Pain Medicine
Advanced Cardiac Life Support Program
Basic Cardiac Life Support Program

LICENSURE INFORMATION:

Texas Medical License
DEA (Drug Enforcement Administration)
DPS (Controlled Substance Registration)

PROFESSIONAL WORK HISTORY AND TEACHING EXPERIENCE:

9/1/15-present	Professor of Anesthesiology The University of Texas Medical Branch, Galveston, TX
2/1/18- present 3/1/19- present	Pain Medical Director Division Chief of Pain
7/1/08- 1/31/18	Pain Fellowship Program Director The University of Texas Medical Branch, Galveston, TX
8/1/07-8/31/15	Associate Professor of Anesthesiology The University of Texas Medical Branch, Galveston, TX
4/1/01-7/31/07	Assistant Professor of Anesthesiology The University of Texas Medical Branch, Galveston, TX
1993-1995	Research Assistant

Department of Human Biological Chemistry and Genetics
The University of Texas Medical Branch
Galveston, Texas

1992-1993

Research Assistant

Department of Radiation Safety
The University of Texas Medical Branch
Galveston, Texas

1991

Medical Intern

Aswini Soundarya Nursing Home
Madras, India

1990-1991

Intern

Royapettah Hospital
Madras India

TEACHING RESPONSIBILITIES AT UTMB:

2001- present:

Resident (Anesthesiology residents and rotating residents from Oral Surgery, Plastic Surgery, Orthopedic Surgery, Internal Medicine, Family Medicine and Pediatrics) and medical student education both in operating rooms (clinical instruction) and during scheduled departmental lectures (didactics) and simulator sessions, with an emphasis in obstetric anesthesia, acute pain, regional anesthesia, vascular anesthesia and airway management.

Our residents rotate through one month blocks and work with several faculty in each block. I teach in the following blocks: General OR, ENT, Ambulatory Anesthesia, PACU, Regional Anesthesia, Vascular Anesthesia, Remote Anesthesia, OB Anesthesia and Acute Pain. In a typical month block, I will personally instruct and supervise at least ten different residents at all levels of Training (PGY1-4) and several third and fourth year students.

Resident (UTMB and Non UTMB Anesthesiology residents and medical student education in the Pain clinic and Interventional procedure room)

Fellow (Pain and Geriatric Family Medicine Fellows) education in the Pain clinic, Interventional Procedure Room and In Patient Pain Service.

Each July 1st, I coordinate the orientation for the new incoming pain Fellows.

Medical School:

- 2017- present Facilitator- Practice of Medicine 3 (POM 3)
- 2017- present Integrated Curriculum Examiner (ICEE)
- 2014 Facilitator, Renal, Fluid and Electrolyte (PBL)
 Problem Based Learning Format
 Thirty hour commitment over four weeks
 Eight third year medical students
 Global assessment as facilitator- rated very good to excellent
 each year
- 2014 Instructor, Palliative care and Pain Minimester Course for medical students
- 2013-2014 Integrated Curriculum Examiner
 Conducted twelve examinations for medical students
- 2010-2012 Medical Student Interviewer
 Conducted 16 interviews every year on medical student applicants
- 2008- present Director of Education, Pain Fellowship Program
 Coordinate and Oversee Curriculum Development for Pain fellows
- 2004- present: Course Director and Preceptor, Ambulatory Course Selective in Pain
 Develop, coordinate and implement curriculum for Medical
 Students in their fourth year to gain exposure to clinical, practice
 Management of chronic and palliative cancer pain
- 2001, 2006-2007 Facilitator, Practice of Medicine
- Problem Based Learning Format
 - Four hour commitment over the entire year
 - Ten first year medical students.
 - Global assessment as facilitator rated very good to excellent each year
- 2003-2005 Facilitator, Gastrointestinal Problem Based Learning (PBL)
- Problem Based Learning Format
 - Thirty hour commitment over four weeks
 - Eight third year medical students
 - Global assessment as facilitator- rated very good to excellent
each year

Anesthesiology Residency:

- 2013/1/31/18 Director, Pain Rotation for Anesthesiology Residents, UT Houston
- Develop, coordinate and implement curriculum for Anesthesiology Residents,
One every month
 - Develop competency based program objectives, coordinate didactic and

clinical experiences to meet objectives, develop and implement evaluation system of residents and program in attainment of competencies

2008- 1/31/18

Director, Pain Rotation for Anesthesiology Residents

- Develop, coordinate and implement curriculum for Anesthesiology Residents, Four every month
- Develop competency based program objectives, coordinate didactic and clinical experiences to meet objectives, develop and implement evaluation systems of residents and program in attainment of competencies

2001-1/31/18

Didactic Coordinator, Develop and present lectures to residents in Acute, Cancer and Chronic Pain

Pain Fellowship:

2012- 1/31/18

Director, Geriatric Fellow Pain Rotation, Exposure of one day a week for the year

2008- 1/31/18

Program Director, Pain Fellowship, Key duties include

- Develop, coordinate and implement curriculum for Pain fellows, 3 fellows
- Develop competency based program objectives, coordinate didactic and clinical experiences to meet objectives, develop and implement evaluation systems of fellows and program in attainment of competencies
- Ensure compliance with Accreditation Council for Graduate Medical education(ACGME) and Residency Review Committee (RRC) guidelines for fellow education; preparation of an accurate statistical and narrative description of the program (Program Information Form) as required by RRC
- Successfully passed 2010, 2013 RRC onsite visits with accreditation for 2 and 5 years respectively
- Oversee Recruitment and Selection Process and activities

2008- present

Pain Didactic Grid Block Coordinator, Coordinate didactic activities in one month Blocks covering all areas of the Core curriculum

2008- 1/31/18

Coordinator, Morbidity and Mortality Conference, held every alternate month

Medical Student and Resident Advisor:

As a faculty advisor duties include: Counselling on selection of anesthesiology and Pain Management as career choice and feasibility of match, evaluated and edited personal statements, wrote letters of recommendations.

2017-2018

Janki Patel

2017-2018	Victoria Trinh
2017-2018	Monisha Parikh
2017-2018	Micheal Dib
2016-2017	Aduddell, Bryan
2016-2017	Stefan Gilthorpe
2016-2017	Andrew Khoury
2016-2017	John Ngo
2016-2017	Adam Romman
2013- 2014	Ann Nguyen (Medical student)
2013-2014	Jennifer Hardy
2013-2014	Timothy Bednar
2013-2014	Romman, Adam
2013-2014	Sutton, Blake
2010-2011	Sassan Ehdai
2009-2010	Michelle Nguyen
2008-2009	Roberto Diaz
2008-2009	Adrian Olvera

Fellow Advisor

Michael Medina, 2017-2018
Danish Ali, 2017-2018
Stefan Gilthorpe, 2017-2018
Nicholas Juan 2016-2017
Timothy Bednar 2016-2017
Blake Sutton, 2016-2017
Jennifer Dais 2015-2016
James M Fay 2015-2016
David E Hirsch 2015-2016
Scott A Burlison 2014- 2015
Bennjamin D Fronk 2014- 2015
Mike Martinez 2014-2015
Ankur R Khosla 2013-2014
William L Yancey 2013-2014
David M Keelen 2012-2013
Ted T Lin, 2012-2013
Roberto J Diaz, 2011-2012
Sassan C Ehdaie, 2011-2012
Toure Knighton, 2010- 2011
Vu Tran, 2010-2011
Aimee McAnally, 2009-2010
Scott Lin, 2009-2010
Michael Cook, 2008-2009
Kalyan Kuna, 2008-2009

RESEARCH ACTIVITIES AND GRANTS:

Meeting Abstracts:

1. Reynolds D and Doulatram G, Too Hot to Trot: Burning Feet as a Rare Neuropathic Complication of Trial Spinal Cord Stimulation: Annual Meeting at American Society of Regional Anesthesia. November 2018
2. Jain, N and Doulatram G: The Role of Multimodal Analgesia in Treatment – Refractory Scurvy. Annual Meeting of American Society of Anesthesiology, October 2018
3. Ahmed T. Haque, Monisha Parikh and **Doulatram G**. Successful Treatment of Complex Regional Pain Syndrome Type 2 With A Lumbar Sympathetic Block in The Setting of Arthrogyposis Multiplex Congenita. Annual Meeting of American Society of Anesthesiology, October 2018
4. Babazade R, Doctor N, Krishnamurthy P, Vadhera R, Varma A, **Doulatram G** and Turan A. Association between Acute Pain after Cesarean Delivery and Postpartum Depression. 2018 World Congress on Regional Anesthesia and Pain Medicine, April 2018
5. Babazade, R, Ngo J, Krishnamurthy P, Varma A **Doulatram G**, Kinsky M, Vadhera R. Association between Acute Post-Cesarean Section Pain and Postpartum Infection: A Retrospective Cohort Study. 2018 World Congress on Regional Anesthesia and Pain Medicine, April 2018
6. Walton D, Juan N, **Doulatram G**: Opioid Crisis after Routine Intrathecal Pump Exchange. Annual Meeting of American Society of Anesthesiology, October 2017
7. Khoury A, Ali D and **Doulatram G**: Band-like Headache in an Antepartum Patient: A Diagnostic Dilemma, Annual meeting of American Society of Regional Anesthesia, November 2017
8. Medina M and **Doulatram G**. It's not visceral! Use of ultrasound guided subcostal TAP block to treat Anterior cutaneous nerve entrapment syndrome(ACNES), Annual meeting of American Society of Regional Anesthesia, November 2017
9. Trinh V, Gilthorpe S and **Doulatram G**: Intraoperative Torsades de Pointes in a patient on Chronic Methadone , Annual meeting of American Society of Regional Anesthesia, November 2017
10. Sutton, B, Alquicira-Macedo F, Jafari A, and **Doulatram G** :Implementation of the Global Pain Scale into Chronic Pain Clinic with comparisons to the Historical Numerical Rating Scale, Quality Symposium , UTMB, May2017

11. Alquicira-Macedo F and **Doulatram G** DEX it or not? Use of dexamethasone as an adjunct to peripheral nerve blocks- Literature review- Third place. Gulf Atlantic Anesthesia Residents' Research Conference, May, 2017
12. Simpson GT, Sutton, B, **Doulatram G** and Cook, M. Dural Puncture with Caudal Steroid Injections without subsequent Post Dural Puncture Headache. Annual meeting of American Society of Regional Anesthesia, November, 2016
13. Khoury A, Orillosa S, Hustak E, Williams C, **Doulatram G**, Solanki D, Garcia E, Huang L, Wilkes D Efficacy, Safety, and Feasibility of the Morphine Microdose Method in Community-Based Clinics. Gulf Atlantic Anesthesia Residents' Research Conference, April , 2016
14. Bednar T, **Doulatram G**, Sam N Comparing Silicone Polymer to PMMA cement fo use in Kyphoplasties and Vertebroplasties accepted for presentation at the 42nd Annual Regional Anesthesiology and Acute Pain Medicine Meeting April 6-8, 2017 San Francisco, California
15. Gilthorpe S and **Doulatram G**. Genicular Nerve Radiofrequency Ablation in Chronic Refractory Knee Pain: A Safer Alternative to Intra-articular Steroids in a Geriatric Patient? Annual Meeting of American Society of Anesthesiologists, San Diego, October 2015
16. Hirsch D and **Doulatram G**. Case studies: Spinal cord stimulation in a case of refractory pain caused by syringomelia. Annual meeting of Texas Pain Society, October 2015
17. Romman A, Aduddell B, Krishnamurthy P, Ranganathan G, Williams C, **Doulatram G**. Urine Drug Screening and Post-Screening No Shows and Dropouts among Pain Patients. Annual meeting of American Society of Regional Anesthesia, Miami, November 2015.
18. Aduddell B, Burlison S and **Doulatram G**. Use of Spinal Cord Stimulator (SCS) in a case of refractory neuropathic pain due to syringomyelia Annual meeting of American Society of Regional Anesthesia, Miami, November, 2015
19. Ho, Thuan, Trinh, Tan, Li, Husong and **Doulatram, G**. Digital twitching of amputated limb during sciatic nerve block with nerve stimulation, is it real? Annual meeting of American Society of Regional Anesthesia, Las Vegas, May 2015
20. Avagyan H, Bednar T and **Doulatram G**. Opioid induced hyperalgesia: Too much of a good thing? Gulf Atlantic Anesthesia Resident Conference, Puerto Rico, May 2015
21. Hoang S, White A, Celis, B, **Doulatram G**. "Hard to see the forest through the trees": Cardiovascular collapse after a brachial plexus block. Annual meeting of American Society of Anesthesiologists, New Orleans, October 2014

22. Chang Y, Cook, M, **Doulatram G**, Govindaraj R .Full mouth extraction for a Tonsillar Mass: Common Scenario, Tricky Airway. Annual meeting of American Society of Anesthesiologists, New Orleans, October 2014
23. Khosla A and **Doulatam G**, Stiff Man Syndrome, Texas Pain Society, October 2013
24. Yancey W and **Doulatram G**, Post-surgical Neuralgia, Texas Pain Society, October 2013
25. Srinivisan S, Masel B, Ngyuyen D, Vadhera R, **Doulatram G**, and Govindaraj R. Striated Crease line is the anatomical landmark for neuraxial anesthesia in morbidly obese parturient. American Society Of Regional Anesthesia, April 2014
26. Khosla A, Masel B, Solanki D, Wilkes D and **Doulatram G**. A little goes a long way: successful treatment of complex chronic lupus induced pain with microdose hydromorphone, Annual Meeting of American Society of Regional Anesthesia and Pain Medicine, Phoenix, November 2013
27. Yancey W, Govindaraj R, Viera M and **Doulatram G**. Cluneal Nerve Block with 20 % dextrose: an alternative approach to treat low back pain? Annual meeting of American Society Of Regional Anesthesia, Phoenix, November 2013
28. Srinivasan S, Govindaraj R, **Doulatram G**, "Long-term curative treatment for sacroiliac joint pain". Annual meeting of Indian Society of Anesthesiologists Annual Meeting; Indore, India.2013
29. Srinivasan S, Govindaraj R, **Doulatram G**, Nguyen D. "Treating CRPS type -1 with Dexmetomidine instead of Clonidine". Annual meeting of American Society of Regional Anesthesia Annual Meeting; Phoenix, AZ, 2013
30. Ehdaie, S, Medeiros, F., Lin, T, **Doulatram G**, Williams W, Ranganathan, G. Peripheral Stimulator for Ulnar Neuropathy. Annual meeting of North American Neuromodulation Society, 16th Annual Meeting, Las Vegas, December 6-9, 2012
31. Hardy J, Masel B, White A, **Doulatram G**. Microdosing Opioids via Implantable Intrathecal Pumps for the Treatment of Chronic Pain: A Beneficial Option for the Elderly? The Sealy Center on Aging and Research Services, August 2013
32. Lin, T., Lin, S., **Doulatram G**, Ranganathan, G. Baclofen intrathecal trial induced atypical transient paraplegia: A Case Report. Gulf Coast Cluster for Translational Pain Research, 3rd Annual Symposium, Poster 15:March 2011

33. Lin, T., Lin, S., **Doulatram G**, Ranganathan, G. Baclofen intrathecal trial induced atypical transient paraplegia: A Case Report. Proceedings of the 36th Annual Meeting of the Gulf Atlantic Anesthesia Residents' Research Conference, 36: 2010
34. Ranganathan G, Knighton TA, **Doulatram G**, Williams C. Peripheral Ulnar Nerve Stimulator Placed for Isolated Right Ulnar Neuropathy, Presented at National NeuroModulation Society, 2011
35. **Doulatram G**, Keelen D, Lin S and Ranganathan G, Spinal Cord Stimulation in the treatment of visceral abdominal pain. American Pain Society, May, 2011
36. Hsu J and **Doulatram G**, Opioid-induced hyperalgesia: the painful truth behind the analgesia. Gulf Atlantic Anesthesia Research Conference, April 2011
37. Keelen D and **Doulatram G**. The use of dorsal column stimulation in a patient with visceral abdominal pain, , Gulf Atlantic Residents Research conference 2009
38. Fuke C and **Doulatram G**. Motor Stimulation Guided Percutaneous Lead Placement for Peripheral Nerve Stimulation. The University of Texas Medical Branch, Galveston, TX Department of Anesthesiology Pain Management – American Society of Regional Anesthesia, April 2008
39. **Doulatram G** , Farmer L, Fischer S, Bedell E, Porter R, Levy R. Anesthesia Machine checkout and Troubleshooting: Does how we Teach Residents Impact retention? Best abstract and poster presentation at the International Simulation Meeting
40. **Doulatram G**, Farmer L, Fischer S, Bedell E, Porter R, Levy R. Anesthesia Machine Checkout and Troubleshooting: Does How We Teach Residents Impact Retention? submitted at Society of Education in Anesthesia, June 2007
41. **Doulatram G**, and Brasier AR, Transcriptional Regulation of the Interleukin 6 (IL-6) promoter by Epidermal Growth Factor (EGF, University of Texas Medical Branch, Galveston, Texas. Presented at the McLaughlin Foundation Symposium, 1994.
42. Srivastava SK, **Doulatram G**, Corba A and Varma TK. Isolation and Characterization of an insulin receptor-associated novel 66kDa GTP binding protein, Gir from the human placenta. American Diabetic Association, 1992.

QI / RESEARCH PROJECTS:

1. Doulatram and Sam N. Improving the room times and provider times to improve delays and patient satisfaction – 2018-2019
2. Doulatram G and Foy R, Improving patient satisfaction using the Patient Agenda Form, 2018
3. Doulatram, Foy R and Gratiot J, Improving access to the Pain clinic using a Weekly Faculty Review process, 2018
4. Ali D and Doulatram G, Improving the no-show rate amongst new patients, 2017-2018
5. Walton D, J. Varias, A. Nguyen, A. Jafario and Doulatram G, To increase the patient knowledge regarding peripheral nerve blockade for surgery, 2017-2018
6. Tim Bednar, Andrew Khoury, Peni Sanjoto and Doulatram G, Pain Clinic Efficiency QI through monthly education. 2016-2017
7. Nicholas Juan, Erik Hustak and Doulatram, Improve clinic efficiency by streamlining the case request process in the pain clinic. 2016-2017
8. Sutton, B, Alquicira-Macedo F, Jafari A, and Doulatram G :Implementation of the Global Pain Scale into Chronic Pain Clinic with comparisons to the Historical Numerical Rating Scale, 2016-2017
9. Dais J and Doulatram, Improving the TDC Telemedicine clinic and Procedure Scheduling Process, 2015-2016
10. Fay J and Doulatram G, Improving MyChart Compliance, 2015-2016
11. Hirsch D and Doulatram G, Improve standardized measurement of benefit of interventional procedures performed by the pain clinic using the Pain disability index, 2015-2016
12. Romman A, Gillthorpe S, Burlison S, and **Doulatram G**, Opioid Risk Tool Compliance: Improve Documentation and Compliance when implementing opioid therapy: 2014-2015
13. Martinez M , Williams C , Aduddell B, Alcorn W and **Doulatram G**, Pain Clinic Patient Satisfaction and Understanding Score Quality Control Project, 2014-2015

14. Fronk B, Juan N and Bednar T and **Doulatram G**, Improve performance on Pain Service Preparedness Checklists by all residents and fellows rotating through pain clinic, 2014-2015
15. Klein G, Lindsey R and **Doulatram G**. Serum Levels of 25 hydroxyvitamin D as a Risk Factor for Fragility Fracture, June 2014
16. Wilkes D, **Doulatram G**, Solanki D. IRB approved protocol Ultra Low-Dose Intrathecal Morphine Efficacy Analysis: A Retrospective Case Series Study.
17. The Safety and Efficacy of Electrotransport (E-TRANS[®]) Fentanyl Compared to IV PCA Morphine for the Treatment of Post-Operative Pain” protocol C-2000-007-00. ALZA - PI: **Co- Investigator: Doulatram G**, 9/00 through 3/01
18. On Open Evaluation of the Safety and Clinical Utility of E-Trans (Fentanyl) for the Management of Post-Operative Pain Following Short-Stay Surgical Procedures C-2000-009-00. ALZA - PI: **Co-Investigator: Doulatram G**, 9/00 through 4/01
19. ELAN - PI: An Open-Label, Long-Term Safety and Tolerability Study of Ziconotide Administered Intrathecally to Patients with Chronic Severe Pain. **Co-Investigator: Doulatram G**. 9/00 through 3/01

COMMITTEE RESPONSIBILITIES:

2017- present	Faculty Group Practice (FGP)Clinical Operations Committee
2015-2017	ASA Educational Track Subcommittees on Pain Medicine
2014- 2016	Member, Faculty Senate
2013- present	Member, Visiting Professor Committee
2013- 1/31/18	Member, Graduate Medical Education Committee
2013- present	Member, GME Quality Improvement and Program Review Committee
2013-1/31/18	Chair, Pain Program Evaluation Committee
2013- present	Member, Clinical Competence Committee in Pain
2013-present	Chair, Quality Improvement Committee for Pain
2010	Co-Chair, Internal Review Committee, Pulmonary and Critical Care Fellowship
2009	Co- Chair, Internal Review Committee, Radiology Residency program
2009	Co-Chair, Internal Review Committee, Preventive Medicine
2008- present	Chair, Multidisciplinary Pain Committee
2007	Chair, Risk Management Ad Hoc Committee
2006	Member, Risk Management Ad Hoc Committee
2003- present	Member, Department Education Committee

2003- present	Member, Resident Selection Committee
2003- present	Delegate, District 8, Texas Society of Anesthesiology (TSA)
2003-2011	Coordinator of Combined Marine Biological Institute Conferences
2003-2011	Clinical supervisor- Medical Student Anesthesia Employees
2003	Member, ACGME Core Competencies Review Committee

ADMINISTRATIVE RESPONSIBILITIES:

2016	Associate Editor-Interventional Pain Management Reports
2013	Planning Committee for Texas Pain Society, Bastrop
2012-present	Editor for Pain Physician Journal
2008- present	Pain Fellowship Program Director
2004-present	Course Director, Ambulatory Course Selective (ACS) for Pain for Medical Students
2005-2016	Departmental Coordinator, Problem based learning (PBL) facilitation for SOM students
2005-present	Didactic Coordinator for Pain
2004-present	Course Director, Ambulatory Course Selective (ACS) for Pain for Medical Students
2004-2008	Coordinator, Journal Club for OB Anesthesia
2003-2008	Coordinator of Combined Neuroscience/ Pain Conferences
2003-2008	Clinical supervisor- Medical Student Anesthesia Employees
2003-1/31/18	Coordinator, Journal Club for Pain

MEMBERSHIP IN SCIENTIFIC SOCIETIES:

Texas Pain Society (TPS)
American Society of Regional Anesthesia and Pain Medicine (ASRA)
International Society of Spinal Injection (ISIS)
American Society of Anesthesiologists (ASA)
Texas Society of Anesthesiologists (TSA)
American Medical Association (AMA)
Texas Medical Association (TMA)
American Society of Interventional Pain Physicians (ASIPP)
Society of Obstetric Anesthesiology and Perinatology (SOAP)
Indian Medical Association
Tamilnadu Medical Association

HONORS:

1991-1992	James E. Beal II Memorial Scholarship for Academic Excellence
1985-1990	State Government Scholarship Tamil Nadu, India
1983-1985	Awards for Outstanding Performance in Physics and Mathematics

BIBLIOGRAPHY:

Published:

1. Keelen D and **Doulatram G**. The Use of Dorsal Column Stimulation in a Patient with Visceral Abdominal Pain. The Journal of Pain, Vol 12. 4. supplement 2 April 2011
2. Wilkes D, Ganceres N, **Doulatram G**, Solanki D. Alcohol neurolysis of the sciatic and femoral nerves to improve pressure ulcer healing. Pain Practice. 9(2): 145-9, 2009 Mar-Apr.
3. Dais J, Khosla A, **Doulatram G**. The Successful Treatment of Opioid Withdrawal-Induced Refractory Muscle Spasms with 5-HTP in a Patient Intolerant to Clonidine: A Case Report. Pain Physician. 2015 May-Jun; 18(3):E417-20.
4. Krishnamurthy P, Govindaraj R, Williams C and **Doulatram G**, Impact of Urine Drug Screening on No Shows and Dropouts among Pain Patients: A Propensity-matched Cohort Study. Pain Physician, 2015
5. Efficacy of Epidural Injections in Managing Chronic Spinal Pain: A Best Evidence Synthesis. Kaye AD, Manchikanti L, Abdi S, Atluri S, Bakshi S, Benyamin R, Boswell MV, Buenaventura R, Candido KD, Corder HJ, Datta S, **Doulatram G**, Gharibo CG, Grami V, Gupta S, Jha S, Kaplan ED, Malla Y, Mann DP, Nampiaparampil DE, Racz G, Raj P, Rana MV, Sharma ML, Singh V, Sooin A, Staats PS, Vallejo R, Wargo BW, Hirsch JA.. Efficacy of Epidural Injections in Managing Chronic Spinal Pain: A Best Evidence Synthesis. Pain Physician. 2015 Nov;18(6):E939-1004.
6. Efficacy, Safety, and Feasibility of the Morphine Microdose Method in Community-Based Clinics Denise M. Wilkes, MD, PhD, Susan J. Orillosa, MD, Erik C. Hustak, MD, Courtney G. Williams, MD Gulshan R. Doulatram, MD Daneshvari R. Solanki, FRCA Eduardo A. Garcia, MD, Li-Yen M. Huang, PhD. DOI: <https://doi.org/10.1093/pm/pnx132>. Pain Medicine, June 2017

BOOK CHAPTERS:

1. **Doulatram G** and Burlison S, Chest wall Blocks and Neurolysis. American Society of Interventional Pain Physicians Essentials of Interventional Techniques in Managing Chronic Pain, 2018
2. **Doulatram G** and Martinez M, Suprascapular Block. American Society of Interventional Pain Physicians Essentials of Interventional Techniques in Managing Chronic Pain, 2018
3. **Doulatram G**, and Fronk B, Hypogastric plexus block. American Society of Interventional Pain Physicians Essentials of Interventional Techniques in Managing Chronic Pain, 2018
4. **Doulatram G**. Neuromuscular Blockade, 'Data Interpretation in Anesthesia – A Clinical Guide, 2017

5. **Doulatram G.** Epidural Hematoma, 'Data Interpretation in Anesthesia – A Clinical Guide, 2017
6. **Doulatram G** and Armendi A, Drug testing, Data Interpretation in Anesthesia – A Clinical Guide, 2017
4. **Doulatram G** and Raj T. Diabetic Neuropathy. Clinical Cases in Pain Management, 2013
5. **Doulatram G**, Raj T and Khosla A. Alcohol Related Neuropathy. Clinical Cases in Pain Management, 2013
6. **Doulatram G**, Raj T and Yancey W. HIV associated Neuropathy. Clinical Cases in Pain Management, 2013
7. **Doulatram G**, Govindaraj Rand Raj T, Substance Abuse in Pregnancy. Substance Abuse: Inpatient and Outpatient Management for Every Clinician, 2013
8. **Doulatram G and Newlands SD.** Anesthesiology. In Head and Neck Surgery-Otolaryngology 4th edition, Bailey BJ (ed); Lippincott Williams and Wilkins, Philadelphia, PA, pp.141-154, 2006.
9. **Doulatram G** and Tran V.Pain Management right after you have surgery, Understanding Pain, 2010,
10. **Doulatram G** and Koyyalagunta L.Complex Regional Pain Syndrome I and II, Orthopedica Knowledge Online 2/2011.

In preparation:

1. **Doulatram G.** Syringomyelia, Neuropathic Pain: A Case Based Approach to Practical Management. Edited by Jianguo Cheng, 2016 (submitted)
2. **Doulatram G** and Hustak E, Assessment and Diagnosis of Neuropathic pain, Neuropathic Pain: A Case Based Approach to Practical Management. Edited by Jianguo Cheng, 2016 (submitted)

**PRESENTATIONS
INTERNATIONAL:**

1. **Workshop Director:** Hands on Ultrasound Guided Regional Anesthesia and Chronic Pain Workshop. PSG Medical School, India, August 9 and 10, 2014

Speaker:

1. Radiofrequency Denervation under Ultrasound, LSORA – 4rd Ultrasound Workshop in Pain Management- 10/28-10/29/17
2. Radiofrequency Denervation under Ultrasound, LSORA – 3rd Ultrasound Workshop in Pain Management- 10/28-10/29/16

3. Intrathecal drug delivery (IDD) - Evidence based Update. Anesthesia and Pain Association of Yunnan Province, Annual Continuing Education Program, September 17th, 2015.
4. Assessment and Optimization of Nerve Blocks. Royal Perth Hospital, Australia, August 2nd, 2014
5. Upper Extremity Nerve Blocks. Royal Perth Hospital, Australia, August 2nd, 2014
6. Management of Neuropathic pain, PSG Medical School, Coimbatore, India. August 9th, 2014
7. Principles of Radiological Anatomy for Low Back Pain, PSG Medical School, Coimbatore, India. August 9th, 2014
8. Sacroiliac Joint Radiofrequency Ablation. PSG Medical School, Coimbatore, India. August 9th, 2014
9. Demonstration of Interventional Pain Procedures using Fluoroscopy. PSG Medical School, Coimbatore, India. August 10th, 2014
10. Introduction to Interventional Procedures in the Treatment of Chronic Back Pain. Ortho One Spine Institute, Coimbatore, India, December 4th, 2013
11. Lower extremity Nerve Blocks. Regional Anesthesia Workshop at the College of Sri Lanka, January 16, 2012
12. Hands on demonstration of nerve blocks and tunneled catheters in pigs. Regional Anesthesia Workshop at the College of Sri Lanka, Colombo, January 16, 2012
13. Upper Extremity Nerve Blocks. Ultrasound Regional Anesthesia Workshop at 7th South Asian Congress of Anesthesiology (SACA), Kathmandu, Nepal, February, 2007

NATIONAL/ REGIONAL:

Conference Director: Second Texas Anesthesia Conference on Obstetric and Regional Anesthesia (TACO-RA), Houston, March 2-4th, 2017.

Workshop Director: Second Texas Conference on Obstetrics and Regional Anesthesia (TCORA), Houston, March 2-5th, 2017

Conference Director: Second Texas Anesthesia Conference on Obstetric and Regional Anesthesia (TACO-RA), Houston, March 2-5 th, 2016.

Workshop Director: Second Texas Conference on Obstetrics and Regional Anesthesia (TCORA), Houston, March 2-5 th, 2016

Workshop Director: First Texas Conference on Obstetrics and Regional Anesthesia (TCORA), Galveston, Feb27- March 1st 2015

Course Director: First Texas Conference on Obstetrics and Regional Anesthesia (TCORA), Galveston, Feb27- March 1st 2015

Workshop speaker

1. Popliteal approach to Sciatic and I PACK block- Texas Society of Anesthesia Regional Anesthesia Workshop- Annual Meeting of Texas Society of Anesthesiology, 9/2018
2. Lower limb-LFCN, femoral, obturator, adductor canal, genicular nerve, Popliteal Sciatic, Tibial and peroneal nerves. LSORA – 4rd Ultrasound Workshop in Pain Management- 10/28-10/29/17
3. Lower limb- LFCN, femoral, obturator, adductor canal, genicular nerve, Popliteal Sciatic. LSORA – 3rd Ultrasound Workshop in Pain Management- 10/28-10/29/16
4. PECS, Serratus Anterior and Paravertebral blocks, 6th Annual TCH Perioperative Ultrasound Workshop, August 2017
5. PECS blocks- Third Texas Conference on Obstetrics and Regional Anesthesia, Houston, March 5, 2017
6. Ankle Block, Annual Texas Society Of Anesthesiology, September 2016
7. Demonstration of King tube, Airway workshop, Second Texas Conference on Obstetrics and Regional Anesthesia, Houston, March 2, 2016
8. Axillary Blocks, Second Texas Conference on Obstetrics and Regional Anesthesia, Houston, March 5, 2016
9. Lumbar Plexus and Neuraxial Blocks, First Texas Conference on Obstetrics and Regional Anesthesia, Galveston, Feb27- March 1st 2015
10. Supraclavicular Nerve Blocks. Texas Society of Anesthesiology, Annual Meeting, Texas, September 2014

11. Sciatic Nerve Block. Texas Society of Anesthesiology, Annual Meeting, Texas, September 2012
12. Upper extremity Nerve Blocks. Annual Ultrasound Guided Regional Anesthesia Workshop, University of Texas at Houston, January 2012
13. Upper extremity Nerve Blocks. Annual Ultrasound Guided Regional Anesthesia Workshop, University of Texas at Houston, January 2011
14. Lower extremity Nerve Blocks. Annual Ultrasound Guided Regional Anesthesia Workshop, University of Texas at Houston, January 2009
15. Lumbar Plexus Nerve blocks and Femoral Nerve blocks at Texas Society of Anesthesiology, Annual Meeting, Texas, September 2010
16. Upper extremity Nerve Blocks. 5th Annual Ultrasound Guided Regional Anesthesia workshop, University of Texas at Houston, January 2010
17. Sciatic Nerve Blocks, at the Texas Society of Anesthesiology, Annual Meeting Texas, September 2009
18. Annual Ultrasound Guided Regional Anesthesia Workshop, University of Texas at Houston, January 2009
19. Popliteal Nerve Blocks- Texas Society of Anesthesiology, Annual Meeting, Bastrop, Texas, September 2008
20. Upper and Lower extremity Nerve Blocks. Biannual Ultrasound Guided Regional Anesthesia Workshop, January 19-20, 2008 at University of Texas M. D. Anderson Cancer Center, Houston, Texas, January, 2008
21. Upper Extremity Nerve Blocks- 4th Annual Regional Anesthesia Workshop, Brooke Army Medical Center, San Antonio, Texas, March 2007
22. Airway Blocks. Airway workshop, UTMB Simulation Center, February 2007
23. Instructor- Supraclavicular Nerve Block, Texas Society of Anesthesiology- Annual Meeting, San Antonio, Texas, September 2006
24. Femoral Nerve Blocks, Lower Extremity Peripheral Nerve Block: Update and Cadaver Workshop, Moody Gardens Hotel in Galveston, Texas, October 2005
25. Instructor- Axillary and Wrist blocks, Regional Anesthesia workshop, Annual TSA meeting, San Antonio, September 2005

SPEAKER:

1. General Principles of Pain Management- Expanding your Arsenal. Managing Chronic Pain: Adding Tools to the Toolbox Geriatric Noon Conference, February 2019
2. Chronic Opioid Therapy and Enhanced Perioperative Recovery Programs. Texas Medical Association, San Antonio, May 2018
3. Adjuvants to Peripheral Nerve Blockade- 6th Annual TCH Perioperative Ultrasound Workshop, August 2018
4. Adjuvants to Peripheral Nerve Blockade- 6th Annual TCH Perioperative Ultrasound Workshop, August 2017
5. Complications of Ultrasound Regional Anesthesia-- Third Texas Conference on Obstetrics and Regional Anesthesia, Houston, March 5, 2017
6. Radiofrequency Denervation using Ultrasound, London Society Of Regional Anesthesia, October 2016
7. Obesity and Obstructive Sleep Apnea in Pregnancy: Anesthetic Challenges, Second Texas Conference on Obstetrics and Regional Anesthesia, Houston, March 3, 2016
8. Upper extremity Blocks, Second Texas Conference on Obstetrics and Regional Anesthesia, Houston, March 2, 2016
9. UTMB introduction to PBLD facilitation, Faculty Development Series, Department of Anesthesiology, December 16, 2015, Galveston
10. Evidence-Based Medical and Interventional Practices to Control Pain UTMB Health Pain, UTMB Nursing Education Advancement & Resources Department. March 7, 2015, Galveston
11. Ban, what Ban? Substance Abuse in Pregnancy, An Emerging problem for pain control in the parturient. First Texas Conference on Obstetrics and Regional Anesthesia, Galveston, Feb27- March 1st 2015
12. Transverse Abdominus Plane and Lumbar Plexus Blocks. First Texas Conference on Obstetrics and Regional Anesthesia, Feb27- March 1st 2015

13. Opioid induced Hyperalgesia, Anesthesiology Neuro Science Combined Conference, UTMB, Galveston January, 2013
14. Diabetic Neuropathy, Department of Endocrinology, UTMB, May 2012
15. Management of Neuropathic Pain, Anesthesiology Neuro Science Combined Conference, January, 2011
16. Management of Neuropathic pain: An Update, Brazosport Medical Center, January, 2011
17. Peripheral Nerve Stimulation, Multidisciplinary Pain Conference, UTMB, December 2010
18. Management of Neuropathic Pain: An Update- Texas Society of Anesthesiologists 2007 Annual Meeting, September 6-9, 2007 at Hyatt Regency Lost Pines Resort, Lost Pines, Texas, September 2007
19. "Managing the Pain" Presentation, Texas City. Geriatric Learning Dinners, November 2006
20. Chronic Regional Pain- Texas Society of Anesthesiology, Interim Meeting, Houston, Texas, May 2006
21. Post herpetic Neuralgia, Pain Education series, UTMB hospital, June 2006
22. Essentials of Pain Management, Texas City Primary Health Care Clinic, Texas City, June 2004

DEPARTMENTAL GRAND ROUNDS/ PAIN LECTURES:

Audience: Anesthesiology Residents and Pain Fellows, Faculty and Medical students

2005

3/10/2005	Hypothermia
5/25/2005	Junior Lecture: Opioids
1/6/2005	Geriatric Pain
2/4/2005	Pediatric Pain
3/11/2005	Opioid Tolerance
4/15/2005	Pelvic Pain
5/20/2005	Pain Measurement
6/3/2005	Pain Assessment
7/15/2005	Physical examination of Pain Patient
7/21/2005	Evaluation of Back Pain
8/5/2005	Neuropathic Pain

8.12.2005 Epidural steroid injections
9/16/2005 Preemptive analgesia
10/21/2005 Complex Regional Pain Syndrome
11/4/2005 Fibromyalgia
12/9/2005 Opioids

2006

1/25/2006 Junior Lecture: Opioids
3/27/2006 Axillary and Mid humeral Blocks
4/24/2006 Complications of Regional Anesthesia
6/9/2006 OB-Commonly Used Drugs in OB
6/30/2006 OB-Journal Club
8/29/2006 Complex regional pain syndrome
1/6/2006 Geriatric Pain
2/3/2006 Pediatric Pain
3/10/2006 Opioid Tolerance
4/21/2006 Pelvic Pain
7/7/2006 Pain Measurement
7/7/2006 Pain Assessment
7/13/2006 Physical examination of Pain Patient
6/9/2006 Neuropathic Pain
5/12/2006 Preemptive analgesia
8/11/2006 Complex Regional Pain Syndrome
9/15/2006 Fibromyalgia
7/20/2006 Evaluation of Low Back Pain
8/8/2006 Opioids
9/19/2006 Supraclavicular Block
10/6/2006 Opioid Induced Hyperalgesia
11/7/2006 Radiofrequency ablation in the Treatment of Back Pain
12/19/2006 Epidural Steroid injections

2007

1/10/2007 Junior Lecture: Opioids
3/13/2007 Hypothermia
2/9/2007 Geriatric Pain
3/9/2007 Pediatric Pain
4/13/2007 Opioid Tolerance
5/11/2007 Pelvic Pain
7/2/2007 Orientation to Pain Fellows
7/6/2007 Pain Measurement
7/6/2007 Pain Assessment
7/20/2007 Physical examination of Pain Patient
8/10/2007 Neuropathic Pain
9/14/2007 Preemptive analgesia
10/12/2007 Complex Regional Pain Syndrome

6/2/2010 Opioids
8/17/2010 Complex Regional Pain Syndrome/Neuropathic Pain
1/11/2010 Geriatric Pain
2/8/2010 Pediatric Pain
3/8/2010. Opioid Tolerance
4/12/2010 Pelvic Pain
7/5/2010 Orientation to Pain Fellows
7/9/2010 Pain Measurement
7/9/2010 Pain Assessment
7/19/2010 Physical examination of Pain Patient
5/10/2010 Neuropathic Pain
6/7/2010 Preemptive analgesia
8/9/2010 Complex Regional Pain Syndrome
9/6/2010 Fibromyalgia
10/11/2010 Evaluation of Low Back Pain
11/4/2010 Opioids
12/6/2010 Radiofrequency ablation in the Treatment of Back Pain
12/20/2010 Epidural Steroid injections

2011

5/18/2011 Opioids
1/10/2011 Geriatric Pain
2/14/2011 Pediatric Pain
3/7/2011 Opioid Tolerance
7/1/2011 Orientation to Pain Fellows
4/11/2011 Pelvic Pain
7/6/2011 Pain Measurement
7/6/2011 Pain Assessment
7/13/2011 Physical examination of Pain Patient
5/9/2011 Neuropathic Pain
6/13/2011 Preemptive analgesia
8/15/2011 Complex Regional Pain Syndrome
9/5/2011 Fibromyalgia
10/10/2011 Evaluation of Low Back Pain
11/14/2011 Peripheral Nerve Stimulation
12/5/2011 Radiofrequency ablation in the Treatment of Back Pain
12/19/2011 Epidural Steroid injections

2012

4/30/2012 Regional Anesthesia and Anticoagulation
5/16/2012 Opioids
5/29/2012 Local Anesthetics and Management
8/27/2012 Complex Regional Pain Syndrome/Neuropathic Pain
1/9/2012 Geriatric Pain
2/13/2012 Pediatric Pain
3/5/2012. Opioid Tolerance

4/16/2012	Pelvic Pain
7/2/2012	Orientation to Pain Fellows
7/9/2012	Pain Measurement
7/9/2012	Pain Assessment
7/16/2012	Physical examination of Pain Patient
5/14/2012	Neuropathic Pain
6/11/2012	Complex Regional Pain Syndrome
8/13/2012	Fibromyalgia
9/3/2012	Evaluation of Low Back Pain
10/15/2012	Opioid Induced Hyperalgesia
11/12/2012	Peripheral Nerve Stimulation
12/10/2012	Radiofrequency ablation in the Treatment of Back Pain
12/17/2012	Epidural Steroid injections
2013	
5/15/2013	Opioids
10/2/2013	Faculty Development Phillips Conference Room
10/30/2013	BTA Spine Anatomy/Physiology and Regional Anesthesia
7/1/2013	Orientation to New Residents and Fellows
7/8/2013	Taxonomy of Pain Syndromes
8/2/2013	Spinal Injections - Epidural Steroid Injections
9/9/2013	Sympathetic Blocks
9/27/2013	Neuropathic Pain
10/18/2013	Radiofrequency Ablation-Principles and Uses
10/28/2013	Keywords Pain
11/4/2013	General Evaluation of The Pain Patient and Management
11/8/2013	Complex Regional Pain Syndrome
11/25/2013	Pain Test Exam
12/3/2013	Examination and Evaluation of the Pain Patient
12/5/2013	Neuropathic Pain
2014	
3/12/2014	BTA Pain Anatomy and Pain pathways
4/29/2014	Neonatal resuscitation and EXIT procedures
5/6/2014	Regional Anesthesia and Anticoagulation
8/18/2014	Complex Regional Pain Syndrome/Neuropathic Pain
1/10/2014	Opioid Tolerance
1/13/2014	Neuropathic Pain
2/3/2014	Introduction to Pain Clinic
2/7/2014	Opioid Tolerance
2/10/2014	Neuropathic Pain
3/10/2014	Neuropathic Pain
3/17/2014	Sympathetic Blocks
3/28/2014	Written Pain Examination
4/21/2014	Neuropathic Pain

5/1/2014	Introduction to Pain Clinic
5/2/2014	Peripheral Nerve Stimulation
5/12/2014	Neuropathic Pain
5/19/2014	Sympathetic Blocks
5/29/2014	Pain Keywords
6/2/2014	Introduction to Pain Clinic
6/9/2014	Neuropathic Pain
6/13/2014	Pain Board Topics
6/30/2014	Written Pain Examination
7/3/2014	General Principles Of Pain Evaluation and management
7/21/2014	Taxonomy of Pain Syndromes
7/22/2014	Neuropathic Pain

Faculty Development, Anesthesiology Faculty:

8/18/2004	Educational strategies- Pearls from SEA
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