

# Research Accomplishments 2022-2023

Blessen Eapen, MD  
Chief, Physical Medicine & Rehabilitation Service  
UCLA/VA Greater Los Angeles Healthcare System  
PM&R Research Day  
August 29, 2023

**VA**



U.S. Department  
of Veterans Affairs

VA Greater Los Angeles Healthcare System



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UCLA/VA PM&R Scholars Present...





# Published Manuscripts

- **Eapen BC**, Bowles AO, Sall J, Lang AE, Hoppes CW, Stout KC, Kretzmer T, Cifu DX. The management and rehabilitation of post-acute mild traumatic brain injury. Brain Inj. 2022 Apr 16;36(5):693-702 Epub 2022 Feb 12. PMID: 35152817
- McGeary DD, Jaramillo C, **Eapen B**, Blount TH, Nabity PS, Moreno J, Pugh MJ, Houle TT, Potter JS, Young-McCaughan S, Peterson AL, Villarreal R, Brackins N, Sikorski Z, Johnson TR, Tapia R, Reed D, Caya CA, Bomer D, Simmonds M, McGeary CA. Mindfulness-Based Interdisciplinary Pain Management Program for Complex Polymorbid Pain in Veterans: A Randomized Clinical Trial. Arch Phys Med Rehabil. 2022 Aug 6:S0003-9993(22)00518-4. PMID: 35944602

# PUBLISHED MANUSCRIPTS



- Song K, Brintz BJ, Wang CP, McGeary DD, McGeary CA, Potter JS, Jaramillo CA, **Eapen BC**, Pugh MJ. Complex pain phenotypes: Suicidal ideation and attempt through latent multimorbidity. PLoS One. 2022 Apr 29;17(4):e0267844. eCollection 2022.PMID: 35486582
- Moring JC, Straud CL, Penzien DB, Resick PA, Peterson AL, Jaramillo CA, **Eapen BC**, McGeary CA, Mintz J, Litz BT, Young-McCaughan S, Keane TM, McGeary DD. PTSD symptoms and tinnitus severity: An analysis of veterans with posttraumatic headaches. Health Psychol. 2022 Mar;41(3):178-183PMID: 35298210
- Garcia A, Kretzmer TS, Dams-O'Connor K, Miles SR, Bajor L, Tang X, Belanger HG, Merritt BP, **Eapen B**, McKenzie-Hartman T, Silva MA. Health Conditions Among Special Operations Forces Versus Conventional Military Service Members: A VA TBI Model Systems Study. J Head Trauma Rehabil. 2022 Jul-Aug 01;37(4):E292-E298. Epub 2021 Oct 25.PMID: 34698680



## PUBLISHED MANUSCRIPTS

- McGeary DD, Resick PA, Penzien DB, McGeary CA, Houle TT, **Eapen BC**, Jaramillo CA, Nabity PS, Reed DE 2nd, Moring JC, Bira LM, Hansen HR, Young-McCaughan S, Cobos BA, Mintz J, Keane TM, Peterson AL. Cognitive Behavioral Therapy for Veterans With Comorbid Posttraumatic Headache and Posttraumatic Stress Disorder Symptoms: A Randomized Clinical Trial. JAMA Neurol. 2022 Aug 1;79(8):746-757. PMID: 35759281
- Kennedy JE, Cooper DB, Curtiss G, Shelton JL, Bowles AO, Tate DF, **Eapen BC**, Vanderploeg RD. Research Letter: Long-Term Outcomes Following Cognitive Rehabilitation for Mild Traumatic Brain Injury: A 5-Year Follow-Up of a Cohort From the SCORE Randomized Clinical Trial. J Head Trauma Rehabil. 2022 Nov-Dec 01;37(6):390-395. Epub 2022 Jul 20. PMID: 35862897.



## PUBLISHED MANUSCRIPTS

- Dennis EL, Newsome MR, Lindsey HM, Adamson M, Austin TA, Disner SG, **Eapen BC**, Esopenko C, Franz CE, Geuze E, Haswell C, Hinds SR 2nd, Hodges CB, Irimia A, Kenney K, Koerte IK, Kremen WS, Levin HS, Morey RA, Ollinger J, Rowland JA, Scheibel RS, Shenton ME, Sullivan DR, Talbert LD, Thomopoulos SI, Troyanskaya M, Walker WC, Wang X, Ware AL, Werner JK, Williams W, Thompson PM, Tate DF, Wilde EA. Altered lateralization of the cingulum in deployment-related traumatic brain injury: An ENIGMA military-relevant brain injury study. Hum Brain Mapp. 2023 Apr 1;44(5):1888-1900. Epub 2022 Dec 30. PMID: 36583562
- **Eapen BC.** Clinical Management and Rehabilitation of Post-COVID-19 Sequelae. Phys Med Rehabil Clin N Am. 2023 Aug;34(3):xiii-xiv. Epub 2023 Apr 28. PMID: 37419541
- Hamilton JA, Ketchum JM, Hammond FM, Peterson MD, Zasler ND, **Eapen BC**, Adamson MM, Galhorta PP, Harris O, Nakase-Richardson R. Comparison of veterans affairs and NIDILRR traumatic brain injury model systems participants with disorders of consciousness. Brain Inj. 2023 Mar 21;37(4):282-292. Epub 2022 Dec 20. PMID: 36539996.

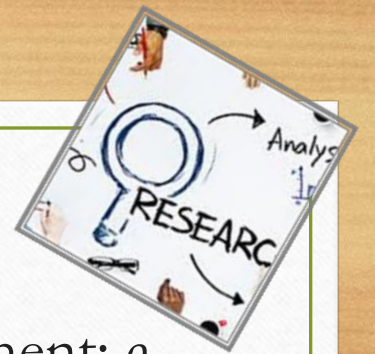


## PUBLISHED MANUSCRIPTS

- Nabity PS, Reed DE, McGeary CA, Houle TT, Jaramillo CA, Resick PA, **Eapen BC**, Litz BT, Mintz J, Penzien DB, Keane TM, Young-McCaughan S, Peterson AL, McGeary DD; Consortium to Alleviate PTSD. Mechanisms of change in posttraumatic headache-related disability: A mediation model. *Headache*. 2023 Mar;63(3):410-417. Epub 2023 Mar 10. PMID: 36905163.
- Subbarao BS, Silverman A, **Eapen BC**. Seizure Medications. 2022 May 1. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2023 Jan–. PMID: 29489165
- Subbarao BS, Fernández-de Thomas RJ, **Eapen BC**. Post Craniotomy Headache. 2022 Aug 1. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2023 Jan–. PMID: 29493922.
- Swan AA, Kennedy E, Cooper DB, Amuan ME, Mayo J, Tate DF, Song K, **Eapen BC**, Van Cott AC, Lopez MR, Pugh MJ. Comorbidity and polypharmacy impact neurobehavioral symptoms and symptom validity failure among post-9/11 veterans with mild traumatic brain injury. *Front Neurol*. 2023 Jul 19;14:1228377. PMID: 37538260; PMCID: PMC10395329.



# PUBLISHED MANUSCRIPTS



- Prakash S, **Kinder K**, Brown KE. Spleen size change after hepatitis C treatment: a simple parameter to predict clinical outcomes. J Investig Med. 2023 Aug;71(6):603-612. Epub 2023 May 5. PMID: 37144285
- **Grewal H**, Kim S, Katz NB, Case CM, Pingenot E, Chung YK, Chukwuma V, Mayer RS. Evaluation of the Association of Academic Physiatriests Medical Student Summer Clinical Externship. Am J Phys Med Rehabil. 2022 Jul 1;101(7):693-697. Epub 2022 Jan 18. PMID: 35034055
- Davis SM, Davis A, Wong T, **Mekany M**, Majors D, Perret Karimi D. Medical Leadership in Inpatient Rehabilitation Facilities in the United States. Am J Phys Med Rehabil. 2023 Aug 1;102(8):676-681. PMID: 36728973.

# PUBLISHED MANUSCRIPTS

- Limerick, G., Christo, D.K., **Tram, J. Moheimani, R.** Manor, J. Chakravarthy, K. Karri, J. Christo, P. Complex Regional Pain Syndrome: Evidence-Based Advances in Concepts and Treatments. *Curr Pain Headache Rep.* July 2023. PMID: 37421541.
- **Moheimani R,** Arastoo S, Lowder R, Reddy R, Kim H, **Chen A, Pangarkar S.** A survey of pain physicians: Needlesticks injuries. *Pain Pract.* 2023 Apr 17. PMID: 37067198.
- **Phuphanich ME, Convery QW, Nanda U, Pangarkar S.** Sympathetic Blocks for Sympathetic Pain. *Phys Med Rehabil Clin N Am.* 2022 May;33(2):455-474. PMID: 35526979
- **Chen AS, Solberg J,** Smith C, Chi M, Lowder R, Christolias G, Singh JR. Intra-Articular Platelet Rich Plasma vs Corticosteroid Injections for Sacroiliac Joint Pain: A Double-Blinded, Randomized Clinical Trial. *Pain Med.* 2022 Jul 1;23(7):1266-1271. PMID: 34850180.



## PUBLISHED MANUSCRIPTS

- Sandbrink F, Murphy JL, Johansson M, Olson JL, Edens E, Clinton-Lont J, Sall J, Spevak C; **VA/DoD Guideline Development Group**. The Use of Opioids in the Management of Chronic Pain: Synopsis of the 2022 Updated U.S. Department of Veterans Affairs and U.S. Department of Defense Clinical Practice Guideline. *Ann Intern Med*. 2023 Mar;176(3):388-397. Epub 2023 Feb 14. PMID: 36780654.
- Langer LK, Bayley MT, Lawrence DW, Comper P, Kam A, Tam A, Saverino C, Wiseman-Hakes C, Ruttan L, Chandra T, Foster E, Gladstone J. Revisiting the ICHD-3 criteria for headache attributed to mild traumatic injury to the head: Insights from the Toronto Concussion Study Analysis of Acute Headaches Following Concussion. *Cephalalgia*. 2022 Oct;42(11-12):1172-1183. Epub 2022 May 11. PMID: 35546269



# PUBLISHED MANUSCRIPTS



- Polich G, Thompson J, Molton I, **Herman S**, LaFaver K. Intensive rehabilitation for functional motor disorders (FMD) in the United States: A review. NeuroRehabilitation. 2022;50(2):245-254.
- Polich G, Zalanowski S, Maney J, Perez DL, Baslet G, Maggio J, O'Neal MA, Dworetzky B, **Herman S**. Development of an inpatient rehabilitation pathway for motor functional neurological disorders: Initial reflections. NeuroRehabilitation. 2022;50(2):231-243
- Polich G, Zalanowski S, Lewis JM, Sugarman S, Christopoulos K, Hebb C, Perez DL, Baslet G, Shah P, **Herman S**. Inpatient rehabilitation for acute presentations of motor functional neurological disorder (FND): A retrospective cohort study. Am J Phys Med Rehabil. 2023 Jun 1. PMID: 37339055.
- Kotler DH, Iaccarino MA, Rice S, **Herman S**. Return to Cycling Following Brain Injury: A Proposed Multidisciplinary Approach. Phys Med Rehabil Clin N Am. 2022 Feb;33(1):91-105. PMID: 34799005.

# PUBLISHED MANUSCRIPTS



- Taleb S, Lee JJ, Duncan P, **Cramer SC**, Bahr-Hosseini M, **Su M**, Starkman S, Avila G, Hochberg A, Hamilton S, Conwit RA, Saver JL. Essential information for neurorecovery clinical trial design: trajectory of global disability in first 90 days post-stroke in patients discharged to acute rehabilitation facilities. BMC Neurol. 2023 Jun 20;23(1):239. PMID: 37340330; PMCID: PMC10280859.
- Edwards D, Kumar S, Brinkman L, Ferreira IC, Esquenazi A, Nguyen T, **Su M**, Stein S, May J, Hendrix A, Finley C, Howard E, **Cramer SC**. Telerehabilitation Initiated Early in Post-Stroke Recovery: A Feasibility Study. Neurorehabil Neural Repair. 2023 Feb-Mar;37(2-3):131-141. Epub 2023 Mar 6. PMID: 36876946; PMCID: PMC10080366.
- Young BM, Yadav R, Rana S, Kim WS, Liu C, Batth R, Sakthi S, Farahmand E, Han S, Patel D, Luo J, Ramsey C, Feldman M, Cardoso-Ferreira I, Holl C, Nguyen T, Brinkman L, **Su M**, **Chang TY**, **Cramer SC**. Wrist Proprioception in Adults with and without Subacute Stroke. Brain Sci. 2022 Dec 23;13(1):31. PMID: 36672014; PMCID: PMC9856542.

# PUBLISHED MANUSCRIPTS

- **Kalasho B, Hernandez M, Flores S.** Discogenic Lumbar Pain. *PM&R Knowledge NOW*. American Academy of PM&R online resource. 2023.
- **Flores S.** Diabetic Neuropathy. *PM&R Knowledge NOW*. American Academy of PM&R online resource. 2022.
- **Flores S, Grewal H, & Underhill D.** Upper Extremity Proximal Mononeuropathies. <https://now.aapmr.org/upper-extremity-proximal-mononeuropathies/> *PM&R Knowledge NOW*. (2023, January 18)
- **Smith LA, Eapen BC.** Traumatic Brain Injury. [Traumatic Brain Injury | PM&R KnowledgeNow \(aapmr.org\)](#) *PM&R Knowledge NOW*. American Academy of PM&R online resource. (2023, January 12).



# PUBLISHED MANUSCRIPTS

- **Oshiro, RL.** Knee Orthosis for Femoral Neuropathy, Proceedings of UCLA Healthcare (Healthcare (<https://proceedings.med.ucla.edu/>)). Volume 26 (2022)
- Gustavson AM, Purnell A, Adly M, Awan O, Brau N, Braus NA, Bryant MS, **Chang L**, Cyborski C, **Darvish B**, et al. A Learning Health System Approach to Long COVID Care. *Federal Practitioner*. 2022;39(7). July 2022.
- Hempel S, Ganz D, Saluja S, Bolshakova M, Kim T, Turvey C, Cordasco K, **Basu A**, Page T, Mahmood R, Motala A, Barnard J, Wong M, Fu N, Miake-Lye IM. Care coordination across healthcare systems: development of a research agenda, implications for practice, and recommendations for policy based on a modified Delphi panel. *BMJ Open*. 2023 May 17;13(5):e060232. PMID: 37197809; PMCID: PMC10193077.





## PUBLISHED MANUSCRIPTS

### *Academic PM&R Chiropractic Team!*

- Bezdjian S, Whedon JM, **Russell R**, **Goehl JM**, Kazal LA Jr. Efficiency of primary spine care as compared to conventional primary care: a retrospective observational study at an Academic Medical Center. *Chiropr Man Therap*. 2022 Jan 6;30(1):1. PMID: 34991627; PMCID: PMC8740480.
- Gliedt JA, Reynolds M, Moonaz S, Long CR, **Russell R**, Schneider MJ. Identifying and addressing patient substance use: a survey of chiropractic clinicians. *Chiropr Man Therap*. 2023 Jul 3;31(1):18. PMID: 37400861; PMCID: PMC10316550.



# BOOKS



lapmrrresidency



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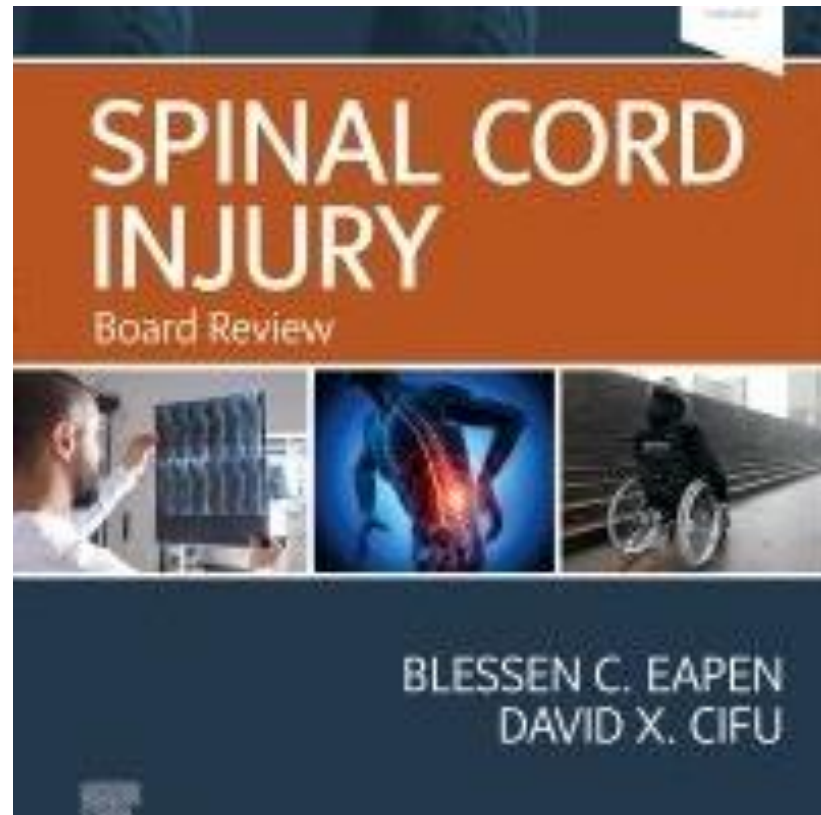
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## BOOKS

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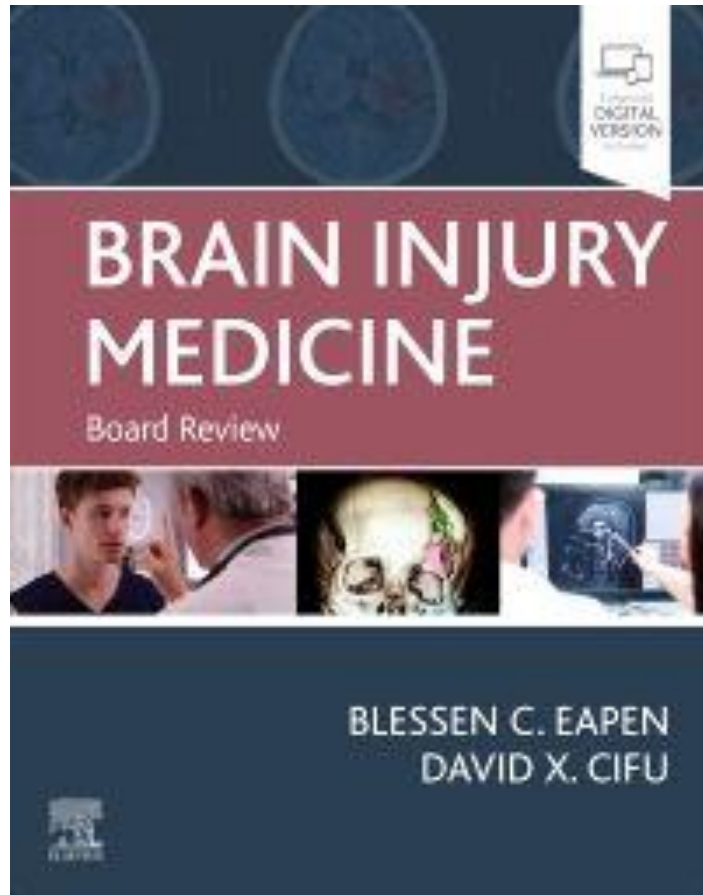
- *Pain Medicine in PM&R: Board Review*, 1<sup>st</sup> Edition.  
Elsevier. 2023
- **Editors: Cifu, Eapen**
- *26 of the Chapters are co-authored by Faculty, Alumni and/or current Trainees!*



## BOOKS

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- *Spinal Cord Injury: Board Review*. 1<sup>st</sup> Edition. Elsevier. November 2022. ISBN Number 9780323833899
- **Editors: Eapen, Cifu**



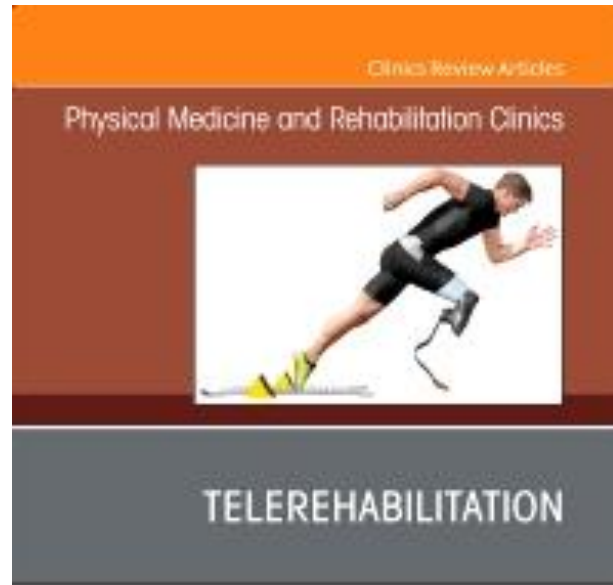
# BOOKS

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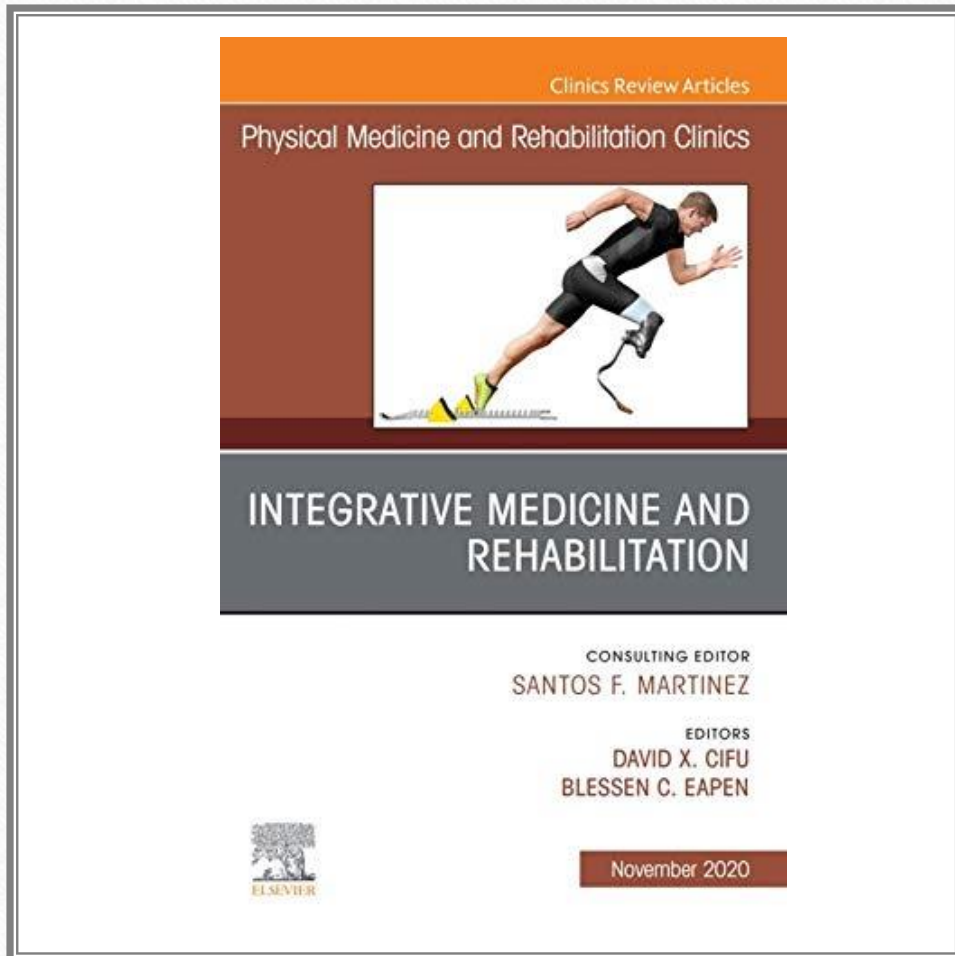
- *Brain Injury Medicine: Board Review*. 1<sup>st</sup> Edition. Elsevier. Sept 2020. ISBN-13: 978-0323653855
- **Editors: Eapen, Cifu**

# BOOKS

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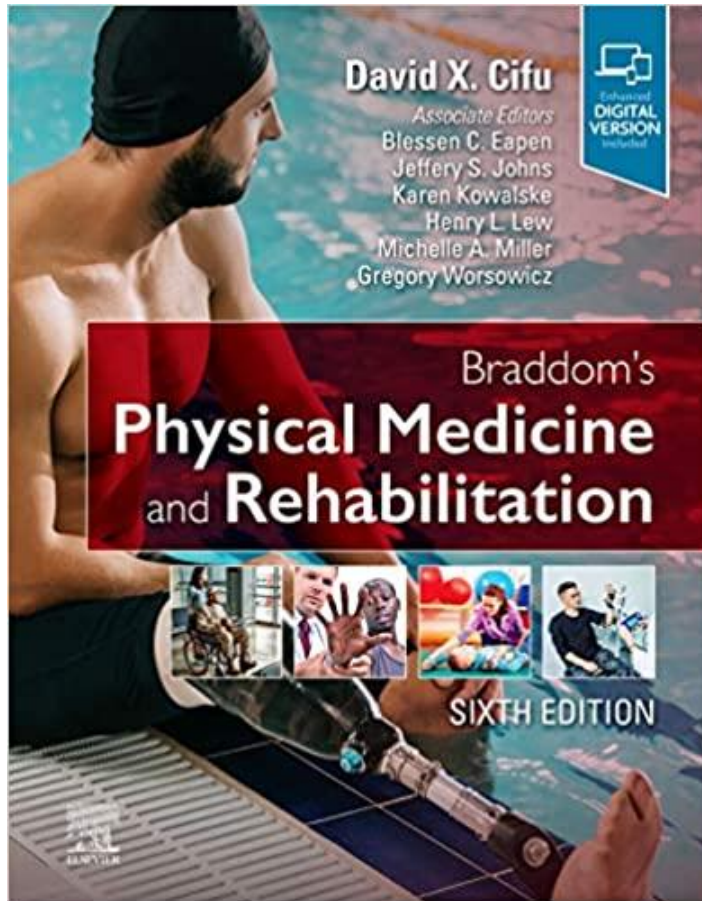
- *PM&R Clinics of North America: Telerehabilitation*. Elsevier. April 2021.  
ISBN-13: 978-0323835947
- **Editors: Cifu, Eapen**



# BOOKS

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- *PM&R Clinics of North America: Integrative Medicine and Rehabilitation.* Elsevier. Nov 2020. ISBN-13: 978-0323790925
- **Editors: Cifu, Eapen**



# BOOKS

- *Braddom's Physical Medicine and Rehabilitation. 6<sup>th</sup> Edition* Elsevier. Oct 2020.  
ISBN-13: 978-0323722162
- **Editor: Cifu**
- **Associate Editors: Eapen, Johns, Kowalski, Lew, Miller, Worsowicz**

## Pain Medicine in PM&R: Board Review, 1<sup>st</sup> Edition Elsevier 2023. Editors: Eapen, Cifu – BOOK CHAPTERS

- Tran V, Nguyen C, **Oshiro R.** Chapter 1: Anatomy and Physiology: Mechanisms of Nociceptive Transmission.
- Shimabukuro S., Chatterjee M., **Ovsiowitz RS.** Chapter 2: Pharmacology of Pain Transmission and Modulation.
- **Hadaegh, M.** Chapter 3. Development of Pain Systems.
- **Zappaterra M, Aragaki D, Nguyen A.** Chapter 4: Designing, Reporting, and Interpreting Clinical Research Studies about Treatments for Pain: Evidence-Based Medicine.





**Pain Medicine in PM&R: Board Review, 1<sup>st</sup> Edition**  
**Elsevier 2023. Editors: Eapen, Cifu – BOOK CHAPTERS**

- **Davis M, Nguyen C, Flores S.** Chapter 5: Public Health Aspects of Pain Medicine and Legal/Regulatory Environment
- **Vu K, Underhill D.** Chapter 6: Ethical Standards in Pain Management in Research.
- **Bui D, Sharma GS.** Chapter 7. Clinical Evaluation of Pain
- **Oshiro R, Tran V, Hsiao V.** Chapter 9: Clinical Nerve Function Studies and Imaging



## Pain Medicine in PM&R: Board Review, 1<sup>st</sup> Edition Elsevier 2023. Editors: Eapen, Cifu – BOOK CHAPTERS

- **Kalasho B**, Mardian A, Hanson E, **Alano R**, **Chang L**. Chapter 10: Psychosocial and Cultural Aspects of Pain
- **Kalasho B**, **Chang L**, Hanson E, Mardian A. Chapter 11: Sex and Gender Issues in Pain
- **Sharma GS**, Donovan J. Chapter 13: Antipyretic Analgesics: Nonsteroidals, Acetaminophen, and Phenazone Derivatives
- **Gerstman B**, Chung E, Lin T. Chapter 15: Miscellaneous Agents: pharmacokinetics, pharmacodynamics, adverse effects, drug interactions, indications/contraindications



**Pain Medicine in PM&R: Board Review, 1<sup>st</sup> Edition  
Elsevier 2023. Editors: Eapen, Cifu – BOOK CHAPTERS**

- **Hagens R, Gallup C.** Chapter 25: Acute Pain
- **Solberg J.** Chapter 26: Cervical Radicular Pain
- **Thai R.** Chapter 27: Neck Pain
- **Hanna A.** Chapter 28: Lumbar Radicular Pain
- **Ho C.** Chapter 29: Low Back Pain



## Pain Medicine in PM&R: Board Review, 1<sup>st</sup> Edition Elsevier 2023. Editors: Eapen, Cifu – BOOK CHAPTERS

- **Yang K.** Chapter 30: Musculoskeletal Pain
- **Leet J.** Chapter 31: Muscle and Myofascial Pain
- **Dinh NA, Nguyen T, McCarty R.** Chapter 32: Visceral Pain – Anatomy and Pain Modulation
- **Dinh LQ, Dinh A, He M, Pham QG.** Chapter 33: Visceral Pain – Classification and Management
- **Bjella J, Pham O, Thai R.** Chapter 34: Pain in Prgenancy and Labor



## Pain Medicine in PM&R: Board Review, 1<sup>st</sup> Edition Elsevier 2023. Editors: Eapen, Cifu – BOOK CHAPTERS

- **Chan M, Love SM.** Chapter 35: Headache
- **Arman S, Chang M.** Chapter 36: Orofacial Pain Disorders: Diagnosis, Treatment and Management
- **Hemmati D.** Chapter 37: Neuropathic Pain
- **Phuphanich M, Nguyen T.** Chapter 38: Complex Regional Pain Syndromes





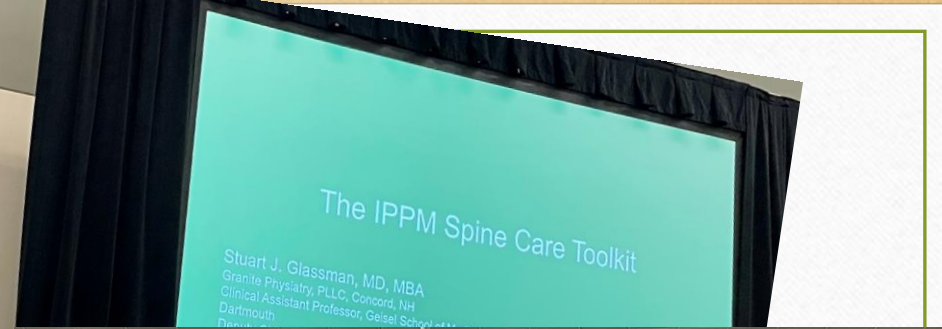
## BOOK CHAPTERS

- **Mukai A, Kim E.** Chapter 34. Pain Medicine. In Physical Medicine and Rehabilitation Pocketpedia. Fourth Edition. Rydberg L, Hwang S, editors. Springer Publishing Company; 2023 Jan 9.
- **Leet JG, Chen AS, Cheng DS.** Chapter 35. Spine. In Physical Medicine and Rehabilitation Pocketpedia. Fourth Edition. Rydberg L, Hwang S, editors. Springer Publishing Company; 2023 Jan 9.



## BOOK CHAPTERS

- **Baria, A., Liu, N., Wonders, Q. and Pangarkar, S., 2022.** Chronic pain in military veterans. In Features and Assessments of Pain, Anaesthesia, and Analgesia (pp. 225-234). Academic Press.
- **Sanchez, G.** Neuropharmacology in TBI. PM&R Clinics.
- **Smith LA, Bui D, Schulze D, Smith R, Nastasi A.** Chapter 9: Electrodiagnostics in Spinal Cord Injury. Spinal Cord Injury: Board Review, 1<sup>st</sup> Edition. Editors Eapen, B., Cifu, D. Elsevier, Philadelphia, 2023.



*AAPM&R Assembly – Baltimore 2022*  
Senior Representation & Dr. Glassman  
presents Value-Based Physiatry!

# ABSTRACTS/CONFERENCE PRESENTATIONS



# ABSTRACTS/POSTERS CONFERENCE PRESENTATIONS



**Blessen C. Eapen, MD** @BCEapenMD · 3s  
Amazing resident and faculty representation  
@AAPhysiatrists from @dgsomucla UCLA PM&R  
residency program! #Physiatry23 @DavidRSchulze  
@\_harmangrewal @DOM\_UCLA – at Hilton Anaheim



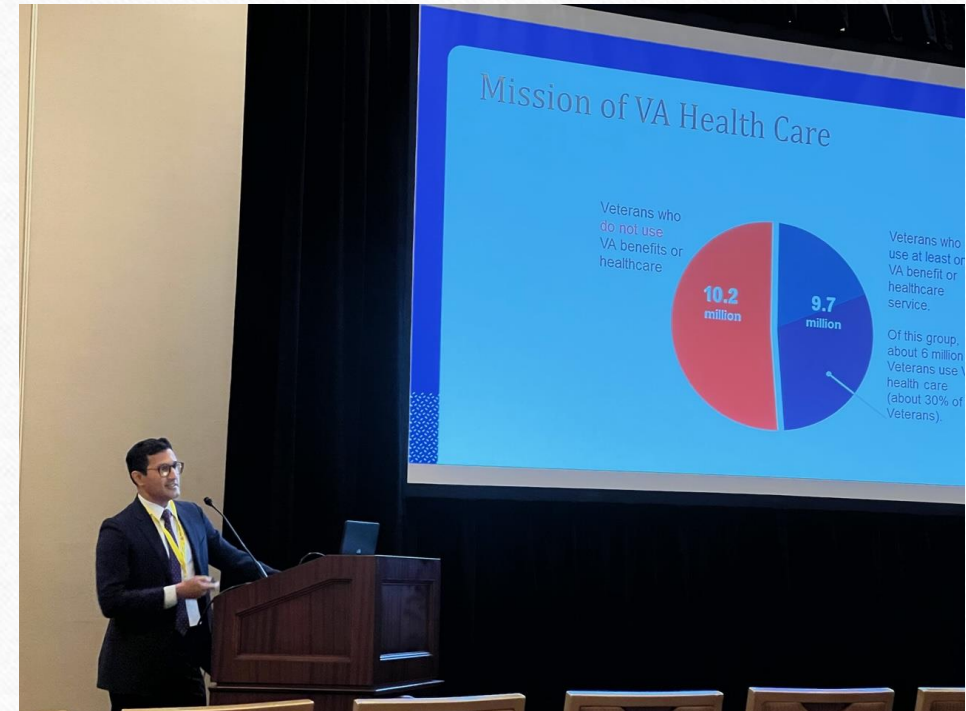
**AAP Annual Meeting – Anaheim, 2023**  
*Featuring Drs. Chung, Grewal, Schulze and more!*

## AAP Annual Meeting – Anaheim, 2023



*VA Council Post-Traumatic Headache Module  
– Drs. Eapen, Aragaki, Nanda*

## *VA Healthcare Highlights – Dr. Pangarkar*



# CONFERENCE PRESENTATIONS



## ABSTRACTS/POSTER PRESENTATIONS

- **Schulze DR, Zhang G, Chen L**, Quality of Life and Goals in Acute Rehab for a patient with a Spinal Cord Injury following a Chordoma, Academy of Academic Physiatrists (AAP) Feb 2023 Annual Meeting
- **Smith L, Chung M, Smith R, Su T, Makovsky K, Lou J, Nastasi A, Wallbom A, Oshiro R**. Hand Dexterity in Cervical Stenosis, Academy of Academic Physiatrists (AAP) Feb 2023 Annual Meeting
- **He M, Hunger T, Pham Q**. Prolotherapy for Spondylolisthesis-Induced Lower Back Pain: A Case Report. Academy of Academic Physiatrists (AAP) Feb 2023 Annual Meeting
- **Underhill D, Pham Q**. Resolving a Chronic, Intractable Headache with Trigger Point Injections: A Case Report. Academy of Academic Physiatrists (AAP) Feb 2023 Annual Meeting



## ABSTRACTS/POSTER PRESENTATIONS

- **Smith L, Grewal H, Saber M** Deep Vein Thrombosis in a Patient Taking Twice Daily Aspirin Prophylaxis After Elective Total Knee Arthroplasty: A Case Report, Academy of Academic Physiatrists (AAP) Feb 2023 Annual Meeting
- **Sharma A, Oshiro R.** Peripheral Neuropathy in a Rare Complication of Severe Rhabdomyolysis in High Functioning Young Male: A Case Report, Academy of Academic Physiatrists (AAP) Feb 2023 Annual Meeting
- **Chung M, Hussain A.** Paradoxical Use of Benzodiazepines in Anoxic Brain Injury. AAPM&R Annual Assembly, Baltimore, Oct 2022
- **Medeiros L, Smith L, Weiner E, Hussain A.** Subdural hemorrhage in autoimmune encephalitis: a severe and rare complication with impact on the rehabilitation setting 12th World Congress for Neurorehabilitation 2022.



## ABSTRACTS/POSTER PRESENTATIONS

- **Luo J, Weiner E, Zhang G, Phillips A, Mazandarani P, Darvish B, Flores S, Tran M, Aragaki D.** "Quality Improvement: Efficacy of a Cardiopulmonary Rehabilitation Hybrid Program during the COVID-19 Pandemic". Poster at American Academy of Physical Medicine and Rehabilitation Annual Assembly, October 2022, Baltimore, MD
- **Zhang G, Luo J, Weiner E, Aragaki D, Darvish B, Flores S, Tran M.** "Quality Improvement: Efficacy of a Cardiopulmonary Rehabilitation Hybrid Program during the COVID-19 Pandemic". Research Hub – Live Theater Research Spotlight: Practice Management, Leadership and Quality Improvement podium presentation at American Academy of Physical Medicine and Rehabilitation Annual Assembly, October 2022, Baltimore, MD



## ABSTRACTS/POSTER PRESENTATIONS

- **Hardik Parikh, Ryan Alano, Derek Bui, Lynn Chang.** Functional Outcomes in Patients with Long COVID Followed in a PM&R Clinic. Poster Presentation, AAP Meeting. May 2022
- **Alano RE, Droessler JT, Romeu-Mejia R.** Improvement in pain and skin manifestations due to suspected complex regional pain syndrome pre- and post-exercise therapy in a patient with severe traumatic brain injury. American Academy of Pain Medicine, 2022



## ABSTRACTS/POSTER PRESENTATIONS

- **Cho C, Wong T, Yeh B, Han J.** Pure Agraphia with Intact Keyboard Spelling in a Patient After Left Parieto-Occipital Mass Resection: A Case Report. St. Joseph's Medical Center Annual Research Symposium. May 2023
- Purcell J, **Cho C**, Chacko J, Swartz C. Multimodal Pain Management in Post-Op Total Knee and Hip Patients: A QI Study. St. Joseph's Medical Center Annual Research Symposium. May 2023



## ABSTRACTS/POSTER PRESENTATIONS

- **Schulze D, Bui D, Alano R, Ashfaq M, Barnard G, Chang L.** In-Person vs Telemedicine Image Referral Patterns for Patients Presenting with Low Back Pain. AAP Conference. New Orleans, LA. May 2022
- **Weiner E, Davis M, Ashfaq M.** Unusual Evaluation of Upper Extremity Pain and Dysesthesia. AMSSM Conference. Austin, TX. May 2022
- **Chung M, Smith R, Ashfaq M.** Differentiating between Victims and Culprits: A Case of Left Ankle Pain. AMSSM Conference. Austin, TX. May 2022





# FUNDED RESEARCH PROJECTS

- **Wallbom A.** Local Site Investigator: VA CSP, “Million Veteran Project (MVP): a partnership with Veterans,” CSPG002. Principal investigator: J. Michael Gaziano. This is a collaborative national genomic databank. – *7 Publications in 2022-2023!*
- **Wallbom A.** Local Principal Investigator: Sponsor Seikagaku Corporation. “A Multicenter, Randomized, Double-blind, Sham-controlled, Comparative Study of SI-6603 in Subjects with Lumbar Disc Herniation (Phase 3).” This is a Phase 3 sponsored medication study using SI-6603 which is already clinically approved in Japan. This project involves Neurosurgery, Radiology, and Interventional Pain (**Drs. Barnard and Pangarkar**) in a randomized controlled clinical trial.

# FUNDED RESEARCH PROJECTS

➤ PT170061 ( **Eapen**- PI)      DOD CDMRP      **2018-2021**  
\$1,471,456

Title: “Implementation of a Brief Cognitive Rehabilitation Intervention to Enhance Efficiency of Service Delivery for Service Members and Veterans With mTBI: Core-SCORE”

Goals: The purpose and objective of the study is to generate new knowledge about optimal cognitive rehabilitation prescription patterns, including frequency, intensity, and type. The specific aim is to use the Rehabilitation Treatment Specification System (RTSS) to develop a streamlined version of the Study of Cognitive Rehabilitation Effectiveness (SCORE) protocol and then administer the protocol to service members and veterans with mild TBI (mTBI). The intervention to be tested is a manualized therapist-directed cognitive rehabilitation treatment delivered in three 1-hour individual treatment sessions per week for 3 weeks. The projected outcomes are a treatment protocol (Core-SCORE) that can be delivered in person or via telehealth to minimize functional limitations after mTBI.

# FUNDED RESEARCH PROJECTS

- UTHSCSA (McGeary PI) DoD CDMRP **2023-2027**  
**(Eapen – Co-PI)** \$6,133,100

**Title: “Contribution of Psychological Health Comorbidity to Personalized Treatment for Headache Attributable to mTBI.”**

**Goals:** To address the significant need for patient-centered PTH treatment, we developed a program of research across four independent but complementary projects designed to address the following objectives:

- Project 1: Patient-Centered Treatment and Assessment for Headache
- Project 2: Factors Affecting Behavioral Treatment in Veterans with Headache Attributable to mTBI
- Project 3: Factors Affecting Pharmacological Treatment Effects in Veterans with Headache Attributable to mTBI
- Project 4: Development of a real-time prognostic tool for posttraumatic headache attributable to mTBI

# FUNDED RESEARCH PROJECTS

- UTHSCSA (McGeary PI) DoD CDMRP **2021-2025**  
**(Eapen – Co-PI)** \$13,888,964

Title: “Multisite Advancement of Research for Chronic Posttraumatic Headache”

Goals: This project aims to determine the efficacy of Combined Cognitive-Behavioral Therapy (CCBT) and Telemedicine-Based Combined Cognitive Behavioral Therapy (TCBT) for posttraumatic headache (PTH) in 525 active duty service members and veterans compared to treatment as usual (TAU) across seven geographically-dispersed sites.



# FUNDED RESEARCH PROJECTS

## Ziyad Ayyoub, MD – Rancho Los Amigos

- A Randomized, Double-blind, Placebo-controlled Study to Evaluate Safety, Efficacy, and Tolerability of ABBV-950 for the Treatment of Upper Limb Spasticity in Adult Post-Stroke Patients in submission, Protocol Study M23-499
- Assessing benefits from a long-acting toxin (LANT) from the patient perspective in adult upper limb spasticity (ULS), Principle Investigator, Rancho research Institute 2022
- Synchronize: real-world retrospective review of safety in patients who have been treated with botox for more than one therapeutic indication, Principle Investigator, Rancho research Institute 2022



# FUNDED RESEARCH PROJECTS

Ziyad Ayyoub, MD – Rancho Los Amigos

- A Multicenter, Interventional, Post-marketing, Randomized, Double-blind, Crossover Study to Evaluate the Clinical Safety and Efficacy of AbobotulinumtoxinA (Dysport®) in Comparison with OnabotulinumtoxinA (Botox®) when Treating Adults with Upper Limb Spasticity
- International, multicentre, observational, prospective, longitudinal study to assess the effectiveness of abobot-a injections for adult lower limb spasticity in a real-life cohort (abolish)



# FUNDED RESEARCH PROJECTS

## Ziyad Ayyoub, MD – Rancho Los Amigos

- A Phase 2/3, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Single-Treatment Efficacy and Safety Study of MYOBLOC® in the Treatment of Adult Upper Limb Spasticity Followed by an Open-Label Extension, Multiple-Treatment Safety Study of MYOBLOC
- A Phase 2, Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Dose-Ranging, Multi-Center Trial to Evaluate the Efficacy and Safety of DaxibotulinumtoxinA Injection for the Treatment of Upper Limb Spasticity (ULS) in Adults after Stroke or Traumatic Brain Injury



# FUNDED RESEARCH PROJECTS

*Dr. Ziyad Ayyoub's future plans - These are In Submission....*

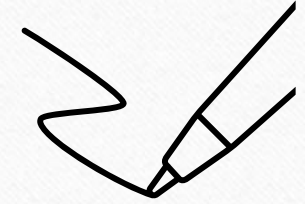
- A Phase 2, multicenter, randomized, double-blind, placebo-controlled study to assess the efficacy, safety, and tolerability of AVP-786 (deudextromethorphan hydrobromide [d6-DM]/quinidine sulfate [Q]) for the treatment of neurobehavioral disinhibition, including aggression, agitation, and irritability, in patients with traumatic brain injury (TBI) in submission
- Study Title: CLIN-10200-450: Assessing benefits from a long-acting toxin (IPN10200) from the patient perspective in adult upper limb (AUL) spasticity. In submission
- An Integrated Phase I/II, Multicenter, Double-blind, Randomized, Dysport and Placebo-controlled, Dose Escalation and Dose-finding Study to Evaluate the Safety and Efficacy of IPN10200 in the Treatment of Adult Upper Limb Spasticity in submission





# Editorial Leadership

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We look forward to showcasing this year's  
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