

Kevin L. Zacharoff, M.D., F.A.C.I.P., F.A.C.P.E., F.A.A.P.

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January, 2019

BACKGROUND

- Residency Training in Anesthesiology and Pain Medicine
 - o Residency o Pediatric Fellowship
- 20+ Years of Clinical Anesthesiology/ Pain Medicine Practice in a community hospital on Long Island, New York — Ste Catherine of Siena Medical Center
 - o Retired from clinical practice in 2005 due to peripheral vascular condition o Continuing Emeritus Medical Staff Appointment in good standing o Currently Member of and Past Chair (—8-years) Credentials Committee o Current Chair of Ethics Committee (since 2015) o Past Member of Disaster Committee O Past Member and Chair of Quality Assurance Quality Improvement Committee o Past and Current Member of Bylaws Committee o Past Member of Pharmacy and Therapeutics Committee o Past Chair Information Technology Committee O Past President of the Medical Staff/ Chair Executive Medical Staff Committee

Clinical background in Anesthesiology, Pain Management, and Pediatric Anesthesiology

- - o Encompassing all areas of anesthesia, pain medicine and general medical therapeutics
 - Patient assessment
 - o Pain assessment
 - Physiologic principles
 - Anatomy
 - Pharmacology

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- o Opioid risk assessment
- o Cultural variations in patient populations Interpretation of diagnostic and laboratory tests
- o Treatment and Follow-up

Over 15 Years as Consultant and Pain Educator

- o Various medical education initiatives as well as public health initiatives
- o Topics Include:
 - o Principles of Basic Medicine
 - o Pain Assessment
 - o Use of Chronic Opioid Therapy in Managing Chronic Non-Cancer Pain
 - o Opioid Analgesic Risk Evaluation and Mitigation Strategies
 - o Prescription Drug Monitoring Programs
 - Technology in Chronic Pain Management
 - Core Competencies of Primary Care Clinicians and Chronic Pain Management
 - o The Role of Education in Safe and Effective Pain Management
 - o Ethical Dilemmas and Compassionate Care
 - Variety of Pain-related Topics
 - o Clinical Situations
 - o Public Speaking
 - o Events Included:
 - o Medical School Lectures/ Grand Rounds
 - o Advisory Board Meetings
 - o Food and Drug Administration (FDA) Advisory Committee Meetings
- o Speaker Training
- o Continuing Medical Education Meetings
 - o Market Research Meetings
 - o Expert Interviews
 - o NDA Preparation
 - o Florida Department of Health SafeRx Drug Safety Initiative

Faculty Member and Clinical Instructor 2007-Present

- o SUNY Stony Brook School of Medicine

Executive Editor of the PAINWeekJournal
Editorial Review Board Pain Medicine
Editorial Review Board Journal ofPain
Editorial Review Board Drug and Alcohol Review
Editorial Review Board Pharmacoepidemiology and Drug Safety
Editorial Review Board British Medical Journal Open
Editorial Review Board of The Journal of Addictive Diseases

o Background in Pain Management and Education

O Managed content and direction for 2 nationally known pain websites for 10 years

- www.PainEDU.J.org or www.painAC'TION.com

o Faculty member at PAINWeek 2007

- "Bringing Balance to Appropriate Opioid Use to Meet Patient Needs" o Faculty member and moderator at PAINWeek, 2008,

2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018. Sessions included:

- "Meet the Experts — Case Studies in Fibromyalgia: Connecting the Dots from Diagnosis to Management"
- Electronic Medical Records: Moving into the Digital Age of Pain Management
- Medication Safety: Are OTC Medications Safer Than Rx Medications?
- Medication Safety: Medical Errors and Drug-Drug Interactions ■ opioid REMS Update 2011 ■ opioid REMS Update 2012
- Opioids inside the Institutional Setting
- Opioids Update: Abuse-Deterrent Technology
- Chronic Pain in Children: Are They a Population at Risk?
- The State of Pain Education in 2014
- Prescription Drug Monitoring Programs
- When Acute Pain Becomes Chronic
- The Groundhog Day Phenomenon
- Technology in Pain Medicine: Big Data or Ball of Confusion?
- Managing Chronic Pain — The Imperfect Solution
- Communication and Pain Management
- The Pressures of Managing Chronic Pain Patients in Clinical Practice
- The Regulatory Agency Will See You Now
- Is that Naloxone in Your Pocket or are You Just Happy to See Me?
- The Other Opioid Crisis: Heroin and Fentanyl
- From Here to Infirmity: The Chronic Pain Patient Experience
- Pain, Drugs, and Ethics o Presenter on behalf of FDA at hydrocodone rescheduling advisory committee meeting, January 2013
- The Role of Pain Education in Safe and Effective Pain Management

■ Authored Texts

- The PainEDU.org Manual: A Pocket Guide to Pain Management y^d Ed.
- The PainEDU.org Manual: A Pocket Guide to Pain Management 4th Ed.
- Managing Chronic Pain with Opioids in Primary Care, 2ndEd. ■ Cross-Cultural Pain Management: Effective Treatment of Pain in the Hispanic Population
- Your Guide to Pain Management: A Road Map for paimACTION.com

■ Scientific Publications

- Transposing the Adverse Social Dynamics of Adolescent Addiction into

More Effective Treatment & Clinician Resilience. Matthew T. Lee, Stephen G. Post, Andrew B. Wylie, George S. Leibowitz, Chelsea Gelboin-Burkhart, Dishaw Holiprosad, Byron R. Johnson, Aaron B. Turk,

Kevin L. Zacharoff & Nur Zakirkhodjaev. Transposing the Adverse Social Dynamics of Adolescent Substance Use Disorders into More Effective Treatment and Clinician Resilience. Alcoholism Treatment Quarterly. December, 2018.

<https://doi.org/10.1080/07347324.2018.1559004> o Zacharoff, KL. Darknet on the Edge of Town. The PAINWeek Journal. September, 2018. In press.

- Zacharoff, KL. Pain, Drugs, and Ethics. The PAINWeek Journal. September 2017.V01. 5, Q3. 62-68.
- Finkelman MD, Smits N, Kulich RJ, Zacharoff KL, Magnuson BE, Chang

H, Dong J, Butler SF. Development of Short-Form Versions of the Screener and Opioid Assessment for Patients with Pain-Revised (SOAPP-R): A Proof-of-Principle study. Pain Medicine. 2017; 18: 1292-1302.

- o Trudeau ICJ, Hildebrand C, Garg P, Chiauzzi E, ZacharoffKL. A Randomized Controlled Trial of the Effects of Online Pain Management Education on Primary Care Providers. Pain Medicine. 2016 Dec 29.
- o Butler SF, Zacharoff KL, Charity S, Black RA, Chung E, Barreveld A,

Clark MS, Jamison RN. Impact of an Electronic Pain and Opioid Risk Assessment Program: Are There Improvements in Patient Encounters and Clinic Notes? *Pain Medicine*. 2016; *Pain Medicine*. Nov; 17(11):2047-2060.

- o Finkelman MD, Kulich RJ, Zacharoff KL, Smits N, Magnuson BE, Dong J, Butler SF. Shortening the Screener and Opioid Assessment for Patients with Pain-Revised (SOAPP-R): A Proof-of-Principle Study for Customized Computer-Based Testing. *Pain Medicine*. 2015; 16: 2344-2356.
- o Trudeau KJ, Pujol LA, DasMahapatra P, Wall R, Black RA, Zacharoff K. A randomized controlled trial of an online self-management program for adults with arthritis pain. *Journal of Behavioral Medicine*. 2015 Jun; 38(3):483-96.
- o Opioids, REMS and Education. *Painview*. VOL. 10/NO. 1 — Spring 2014.
- o Butler SF, Zacharoff K, Charity S, Lawler K, Jamison RN. Electronic opioid risk assessment program for chronic pain patients: barriers and benefits of implementation. *Pain Practice*. 2014 Mar; 14(3):E98E105.
- o Butler SF, Zacharoff KL, Budman SH, Jamison RN, Black R, Dawsey R, Ondarza A. Spanish Translation and Linguistic Validation of the Screener and Opioid Assessment for Patients with Pain-Revised (SOAPP-R). *Pain Medicine*. 2013.
- o Bromberg J, Wood ME, Black RA, Surette DA, Zacharoff KL, Chiauzzi EJ. A randomized trial of a web-based intervention to improve migraine self-management and coping: *Headache*. 2012 Feb; 52(2):244-61.
- o Chiauzzi E, Trudeau KJ, Zacharoff K, Bond K. Identifying primary care skills and competencies in opioid risk management. *Journal of Continuing Education of Health Professionals*. 2011 Fall; 31(4):231-40.
- o Reid MC, Bennett DA, Chen WG, Eldadah BA, Farrar JT, Ferrell B, Gallagher RM, Hanlon JT, Herr K, Horn SD, Inturrisi CE, Lemtouni S, Lin yw, Michaud K, Morrison RS, Neogi T, Porter LL, Solomon DH, Von Korff M, Weiss K, Witter J, Zacharoff KL. Improving the pharmacologic management of pain in older adults: identifying the research gaps and methods to address them. *Pain Medicine*. 2011 Sep; 12(9):1336-44. Chiauzzi E, Black RA, Frayjo K, Reznikova M, Grimes Serrano JM, Zacharoff K, Wood M. Health care provider perceptions of pain treatment in Hispanic patients. *Pain Practice*. 2011 May-Jun;

11(3):267-77.

- o Chiauuzzi E, Pujol LA, Wood M, Bond K, Black R, Yiu E, Zacharoff K. painACTION-back pain: a self-management website for people with chronic back pain. Pain Medicine. 2010 Jul; 11(7):1044-58.

- o Co-Investigator for Numerous National Institutes of Health Research Grants

- o The Pain Assessment Information Network — Clinical Advisory System (PainCAS)
- o Managing Pain and Addiction in Primary Care (MAP-PC)
- o Development of and Adolescent Screener and Opioid Assessment for Patients with Pain (A-SOAPP)
- o Development of a Mobile Applications for Teenagers with Chronic Headache
- o Development of an Opioid Screener for Patients in the Emergency Department (SOAPP-ED)

- Author of Articles for Clinicians and Patients Including:

- o The Logic of Pain Management
- o Rational Polypharmacy in Pain Management
- o Fibromyalgia Syndrome
- o Risk Management
- o Abuse-deterrent Opioids
- o Opioid-induced Constipation
- o Opioid Risk Assessment
- o Pain Medications: How Long is Too Long?
- o The First Line of Tamper Resistance of Prescription Pain Medications is. . . You
- o The Beers Criteria
- o Effectively Communicating Medication Benefits and Risks - Are We Getting Better?
- o A Systematic Approach to the Use of Opioids in the Treatment of Chronic Pain
 - o The opioid REMS
 - o New Approaches to Combating Abuse of Opioids
 - o Overview of Osteoarthritis
 - o Osteoarthritis and Physical Activity — Are Patients Doing Their Part?
 - o Introduction to Complex Regional Pain Syndrome
 - o Recommendations for Acetaminophen
 - o The Role of the Patient-Health Care Provider Relationship in Chronic Pain Management
 - o Chronic Opioid Therapy: Driving and Work Safety
 - o From RiskMAPs to REMS
 - o Current Approaches to the Treatment of Post-herpetic Neuralgia
 - o A Brief History of the SOAPP@
 - o Assurance of Safe and Appropriate Use of Opioids: Who Will Lead the Way?
 - o The Role of Rationale Polypharmacy in Pain Management
 - o Pediatric Pain
 - o The Risk of Opioid Abuse in Primary Care Patients with Chronic Pain
 - o The Role of Opioid Rotation in Managing Chronic Pain
 - o Medication

Safety and Managing Pain: Opioids o Medication Safety and Managing Pain: OTC Medications o Setting Realistic Goals and Expectations for Patients with Chronic Pain o Perioperative Pain Management o Patient Education in Chronic Pain Management o Educating Patients about Medication-Related Adverse Effects o Monitoring Patients on Chronic Opioid Therapy o Opioid Risk Stratification and Patient Selection in Clinical Practice o Pathophysiology of Pain

■ Scientific Presentations

- o Implementation of the Screener and Opioid Assessment for Patients in Pain (SOAPP@) into a large integrated health care system o painACTION.com and PainEDU.org: A Synergistic Integration of Behavioral and Medical Approaches to Managing Chronic Pain o Current Trends in Treatment of Hispanic Pain Patients: A Survey of Health Care Providers o painACTION.com: An Interactive Self-Management Website for Chronic Pain Patients o Managing Addiction and Pain in Primary Care: MAP-PC o painACTION.com: An Interactive Self-Management Website for Migraine Pain o Electronic Medical Records: Moving into the Digital Age of Pain Management o Medication Safety: Are OTC Medications Safer Than Rx Medications? o Medication Safety: Medical Errors and Drug-Drug Interactions o opioid REMS Update 2012 o The Role of Education in Safe and Effective Pain Management o Initial Validation of an Electronic Version of the SOAPP@-R
- O Development of the Pain Assessment Interview Network — Clinical Advisory System (painCAS@), A Systematic Computer-Administered Assessment of Chronic Pain Patients o The Role of a Pain Tracking Tool: A Survey of Healthcare Providers and Patients o painACTION.com: An Internet-based Behavioral Intervention to Support Migraine Self-Management and Coping o painACTION.com: An Interactive Self-Management Website For Chronic Back Pain Patients o The Use of Concept Mapping to Determine Educational Needs for a Primary Care Opioid Risk Management Course o A Web-based Behavioral Intervention to Facilitate Migraine Self-Management and Coping: painACTION.com o Distinct Chronic Pain Diagnoses and Website Usage Patterns: A Secondary Analysis of Clinical Trial Data o painACTION.com: Web-based Support to Self-Manage Neuropathic Pain o Survey of Healthcare Providers on Clinical Technology and Transition to Electronic Opioid Risk Assessments o Healthcare Provider Perspectives on Managing Pain in the Geriatric

Population o Healthcare Providers' Perceptions about Opioid REMS Education o Perceived Clinical Value of Data Collected by Opioid Risk Assessments o Impact of an Electronic Pain and Risk Assessment on Documentation and

Clinical Workflow o Perceived Clinical Value of Pain Assessment Data o A randomized controlled trial of an online pain self-management program for people with arthritis pain o A Web-Based Program to Educate Chronic Pain Patients about Safe Opioid

Medication Management o Electronic Opioid Risk Assessment Program for Chronic Pain Patients o The Integration of Healthcare Provider and Patient Education with a

Standardized Chronic Pain Assessment o Prescriber Attitudes Regarding Treating Patients with Extended-

Release/Long-Acting Opioids o What does pain treatment look like in the real world? Utility of the PainCAS dataset?

o A Proof of Concept for Short Forms of the Screener and Opioid Assessment for Patients with Pain-Revised (SOAPP -R)

o Leadership and Administrative Experience Including:

o Past President of the Medical Staff St. Catherine of Siena Medical Center o Fellow of the American College of Physician Executives

■ Experience in Many Facets of Medical Education:

o Strategic direction, review, and editing of scientific writer's work in medical education projects o Medical writing (clinically oriented work) o Meeting Moderation o Speaker Training o Webinar Faculty Member & Moderator o Advisory Board Moderation o Advisory Board Faculty Member o Staff Education o Medical Advertising consulting with respect to Brand Strategy o Market Research o Risk Management Consultant to Industry

■ Healthcare Technology Experience:

o Past committee chair and consultant for implementation of corporate-wide electronic medical record system o Consultant for individual medical practices on electronic health record selection and implementation

PROFESSIONAL INFORMATION

1981-1985

Anesthesiology Residency at Westchester County Medical Center, Valhalla
New York

- One year fellowship specialization in Pediatric Anesthesiology

1985-Present

■ Medicine

- St. Catherine of Siena Medical Center, Smithtown, New York
 - Clinical Anesthesiologist at St. Catherine of Siena Medical Center until 2004
 - Current Member of Medical Staff
 - Current Member of Credentials Committee
 - Current Chair of Ethics Committee
 - State University of New York Stony Brook School of Medicine
 - Current Faculty and Clinical Instructor at State University of New York at Stony Brook School of Medicine
 - Current Member of the FDA Anesthetic and Analgesic Drug Products Advisory Committee
 - Current Member of the New York State Society Committee on Pain Management
 - Past Chief of Medical Staff, St. Catherine of Siena Medical Center
 - Past Chair of Credentials Committee
 - Past Chair of Information Technology Committee
 - Past Chair of Quality Improvement Committee
 - Past Chair of Medical Executive Committee
 - Past Chair of Disaster Committee
 - Past Chair of Pharmacy & Therapeutics Committee
 - Current Chair of Ethics Committee
- Initiated the practice of bringing parents into the operating room until anesthetic induction ■ <http://query.nytimes.com/gst/fullpage.html?res=9C0CE3DA1E3AF934A35752COA966958260>
- New York Times Article Attached
- Covered by all local news stations
- Focus of recent article in the New York Daily News Business Section
 - http://www.nydailynews.com/money/2008/03/17/2008-03-17_disability_insurance_isnt_a_fortune_and.html

■ Current Medical Licensure

- New York
- Pennsylvania
- Arizona

2008-2015

- Vice President of Medical Affairs at Inflexxion, Inc. (As Consultant) ■
Oversight of all pain and opioid risk projects ■ Preparation and participation in:
 - Research projects and NIH grants
- Educational initiatives
- Compliance
 - Clinical direction

2007-Present

- Faculty and Clinical Instructor at the SUNY Stony Brook School of Medicine
- Medicine in Contemporary Society/ Medical Ethics
- Themes in Medicine
- Pain, Drugs, and Ethics
- Course Director on Addiction on Pain for 4th year medical students

2015-Present

- Ethics Committee Chair
 - St. Catherine of Siena Medical Center, Smithtown, New York

2004-Present

- Consultant and Pain Educator

2017-2021

- Member of the Anesthetic and Analgesic Drug Products Advisory Committee for the Food and Drug Administration

CERTIFICATIONS AND MEMBERSHIP

- Diplomate of the American Board of Anesthesiology
- Fellow of the American Academy of Pediatrics
- Fellow of the American College of International Physicians ■ Fellow of the American College of Physician Executives

PROFESSIONAL MEMBERSHIPS

- American Medical Association
- American Society of Anesthesiology
- New York State Society of Anesthesiologists
- American Pain Society
 - Member Pediatric Special Interest Group
- American Academy of Pain Medicine
- American Academy of Hospice and Palliative Care
- International Association of Pain and Chemical Dependency

- Fellow of the American Academy of Pediatrics
- Fellow of the American College of International Physicians
- American Society of Regional Anesthesia and Pain Medicine ■ Fellow of the American College of Physician Executives
- Past Delegate to World Healthcare Congress
- Past Delegate to New York State Society of Anesthesiologists

ADDITIONAL ACTIVITIES AND ACCOMPLISHMENTS

- Best Editorial Reviewer 2016 Pharmacoepidemiology and Drug Safety
- Recipient 2014-2015 American Society of Pain Educators "Pain Educator of the Year Award"
- Executive Editor of the PAINWeek Journal
- Past Member of the Board of Directors of the American Society of Pain Educators
- Past Member of the Board of Directors of the Voices Against Brain Cancer Foundation o Co-Chair of Grant Committee
- Past Support Group Leader for the New York City Chapter of the National Headache Foundation

LANGUAGES SPOKEN

- English
- Spanish

PERSONAL INFORMATION

- Born and raised in Brooklyn, New York October 5, 1957
- Residence o Long Island, New York
- Married, 1 Child