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| Carl William “Chip” Lange IVAddress: PO Box T, Cuba, MO 65453 Cell: 573-259-3071 Email: Chip@PracticalPOCUS.com |
| EDUCATION |
|  | MSBS in Physician Assistant Studies | 2013 |
| University of Toledo, Toledo, OhioMember of the Student Academy of the American Academy of Physician Assistants (SAAAPA)Scholarly Project: Ways students approach errors based on familiarity and level of training |
|  | BA in Biomedical Psychology | 2011 |
| Westminster College, Fulton, MissouriMember of Alpha Lambda Delta, Psi Chi, Habitat for Humanity, Tri-BetaCapstone Project: The effects of grip strength and texting on reaction times in driving scenariosResearch Project: Evaluating the effect of distractions on involuntary reflexes using a mental acuity paradigm |
|  | Certificate in Emergency Medical Technician | 2009 |
| East Central College, Union, Missouri |
| Current employment |
|  | Chief Executive Officer April 2018-Present *Practical POCUS,* Cuba, Missouri (Office Location – Providing Services Across United States)* Chief Executive Officer in charge of day-to-day operations, management, contractual agreements, bookkeeping, and staffing.
* Course director and presenter for this point of care ultrasound (POCUS) educational group which provides services across the United States.
* Administrator for projects including a multi-million-dollar grant to project training to healthcare professionals throughout the State of Missouri.
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|  | Emergency Medicine Physician Assistant October 2023-Present*Phelps Health,* Rolla, Missouri* Part-time employee providing care in the emergency department taking care of patients across a wide spectrum of acuity and disease processes.
* In addition to clinical practice, act as a clinical preceptor for students in the emergency department.
* Privileged in usual physician assistant skills along with additional procedures such as endotracheal intubation, arterial and central line placement, chest tubes, and ultrasonography.
* Hospital is a certified stroke and STEMI center.
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|  | EMS Physician Assistant December 2020-Present*North Crawford County Ambulance District,* Cuba, Missouri * Functioning as a PA for EMS primarily focusing on patient care but also assisting in educational opportunities and expanding the roles of PAs in EMS.
* Trained and able to provide the usual skills of a physician assistant along with critical care procedures including those previously listed such as intubation and advanced line placement.
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|  | Owner and Host June 2016-Present *TOTAL EM,* Cuba, Missouri (Online Resource – Found at totalem.org)* TOTAL EM is an online blog and podcast devoted to teaching emergency medicine through the principles of Free and Open Access to Medical Education (FOAMed).
* All blog posts and podcasts are available free of charge to expand on medical education.
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|  | Physician Assistant April 2015-Present*Lange Professional Services,* Cuba, Missouri (Office Location – Serves Cities in Missouri)* Primarily serve as an independent contractor in emergency medicine but available for other services.
* Other services include education both at bedside and with speaking engagements across the country as listed under “Pertinent Teaching and Speaking Events.”
* Privileged in usual physician assistant skills along with additional procedures such as endotracheal intubation, arterial and central line placement, chest tubes, and ultrasonography.
* Training and experience acting as a preceptor and clinical educator in emergency medicine.
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| Professional Summary |
|  | Firefighter August 2017-December 2021 *Cuba Fire Department,* Cuba, Missouri * Volunteer firefighter providing emergency services including fire suppression, rescues, and emergency medical services.
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|  | Physician Assistant October 2015-December 2019*Schumacher Clinical Partners,* St. Charles, Missouri (Primary Location Served)* Part-time employee providing care in emergency medicine in the main part of the emergency department taking care of patients across a wide spectrum of acuity and disease processes.
* Work in a state certified trauma, stroke, and STEMI center to provide high quality care and have completed additional measures of training to support these along with other time critical diagnoses.
* This clinical practice further differentiates and broadens the training and experience of other opportunities as an emergency medicine physician assistant.
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|  | Physician Assistant January 2014-April 2015*Texas County Memorial Hospital,* Houston, Missouri* Provided care in the emergency department especially during peak times, acute emergencies, and for complicated cases such as severe trauma patients or complex laceration repairs.
* Assisted or performed advanced and complicated procedures such as the placement of advanced airways, administration of thrombolytics, intraosseous line placement, and chest tube placement.
* Worked in the internal medicine clinic to provide care to complicated patients alongside specialists.
* Saw patients at a walk-in clinic and in their homes after recently being discharged from the hospital.
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|  | Lieutenant and Fire Instructor October 2013-August 2017*City of Houston Fire Department and Houston Rural Fire Association,* Houston, Missouri* Volunteer firefighter providing emergency services including fire suppression, rescues, and emergency medical services.
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|  | Firefighter 2009-2013*Central Callaway Fire Protection District,* Fulton, Missouri * Volunteer firefighter providing emergency services including fire suppression, rescues, and emergency medical services.
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|  | Emergency Medical Technician 2010-2012*Steelville Ambulance District,* Steelville, Missouri * Part-time emergency medical technician providing medical care in a rural ambulance district working alongside a paramedic for a wide variety of both emergency patients and those requiring transfer.
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|  | Accident & Emergency Intern 2010*King’s College Hospital,* London, England* Worked in a highly skilled and busy Level I Accident & Emergency department in London, England mostly in their trauma and resuscitation unit providing emergency medical care.
* Opportunities also included working with London’s ground and air ambulances which was also the first exposure to POCUS especially in the prehospital setting.
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| Board and COMMITTEE Involvement |
|  | Education Committee 2021-Present*National Association of EMS Physicians (NAEMSP)* |
|  | EMS Committee 2021-Present*Society of Emergency Medicine PAs (SEMPA)* |
|  | Advocacy Committee 2020-2022*Society of Emergency Medicine PAs (SEMPA)* |
|  | PA Liaison for Board of Directors 2020-Present*Missouri College of Emergency Physicians (MOCEP)* |
| Pertinent Teaching and speaking events |
|  | Point of Care Ultrasound (POCUS) Educator* Teaching both students and currently practicing clinicians how to perform and interpret POCUS.
* Most opportunities for teaching are primarily with Practical POCUS, but some are also with Lange Professional Services and the Society for Point of Care Ultrasound (SPOCUS).
* Opportunities in education include teaching clinically at emergency departments, at medical programs, and through specific conferences and other training events.
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|  | Guest Speaker for Blogs and Podcasts* Invited to speak as a specialist on a variety of topics.
* Guest on blogs and podcasts such as REBEL EM, FOAMfrat, EM Clerkship Podcast, PAINE Podcast, Curbside to Bedside, and The SGEM.
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|  | Free and Open Access Medical Education (FOAMed) Speaker* FOAMed is designed to provide important medical education with no cost to the consumer.
* Most engagements have been primarily through Tools of the Trade and Academic Learning in Emergency Medicine (TOTAL EM).
* Interviewed others on TOTAL EM who are content experts, innovators in medicine, have performed research, and/or have their own blogs and podcasts.
* Other speaking engagements include those in which attendees are not charged to attend such as outreach symposiums with continuing medical education (CME) credits.
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|  | Guest Speaker in Skin and Soft Tissue Infection Management* Invited to speak as a specialist in the diagnosis and management of skin and soft tissue infections.
* Most frequently a guest speaker to the internationally renowned FOAMed blog and podcast known as The Skeptic’s Guide to Emergency Medicine to critically appraise papers on these subjects.
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|  | Guest Speaker in Airway and Respiratory Management* Invited to speak as a specialist in the diagnosis and management of respiratory conditions such as asthma, croup, and chronic obstructive pulmonary disease (COPD).
* Also speak on airway management including non-invasive ventilation, endotracheal intubation, surgical airways, and airway adjuncts.
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|  | Grand Rounds and Conference Speaker* Speaking at grand rounds, conferences, and other major events across the country with a particular emphasis in Missouri and the Midwest in general.
* This includes opportunities to speak on a variety of topics including rural medicine, skin and soft tissue infection management, resuscitation, and POCUS.
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|  | List of Major Speaking Events* General Leonard Wood Army Community Hospital Grand Rounds – December 2024
* Missouri EMS Conference & Expo – 2024
* Mid Missouri EMS Conference – 2024
* Missouri Baptist Heart Center Symposium: STEMI and More – 2024
* Advanced Emergency Medicine Boot Camp – 2024
* Emergency Medicine Boot Camp – 2021-2024
* Initial Assessment Conference – 2021
* Critical Access – 2019 and 2020
* Wisconsin EMS Association Conference (WEMSA) – Both 2019 Events & 2020
* Saint Louis University Annual Acute Stroke Conference – 2019
* Association of Physician Assistants in Cardiothoracic and Vascular Surgery (APACVS) – 2018 & 2019
* American Academy of Physician Assistants (AAPA) with SPOCUS – 2018 & 2019
* American Association of Surgical Physician Assistants (AASPA) – 2018
* Jay Crump DO Memorial Emergency Medicine Symposium – 2017 & 2018
* University of New Mexico Grand Rounds – September 2017
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| papers published |
|  | Best Practices for Point of Care Ultrasound: An Interdisciplinary Expert Consensus April 2024*Paper – Published in POCUS Journal: Journal of Point of Care Ultrasound* |
|  | Accuracy of snake identification by nonexperts using social media 2022*Pending Publication – Presented at the Venomous Herpetology Symposium* |
|  | What is causing this patient’s chest pain? December 2020*Case Report – Published in JAAPA* |
|  | Rural Emergency Quality Series – Sepsis Care Primer (Parts 1 and 2) May 2017*Podcast – Presented via the American College of Emergency Physicians (ACEP)* |
|  | Ways students approach errors based on familiarity and level of training December 2013*Scholarly Project – Presented at University of Toledo Medical College* |
|  | The effects of grip strength and texting on reaction times in driving scenarios April 2011*Poster and Paper – Presented at Westminster College in Fulton, Missouri* |
|  | Evaluating the effect of distractions on involuntary reflexes using a mental acuity paradigm April 2010*Poster and Paper – Presented at Westminster College in Fulton, Missouri* |
| expert witness AND CONSULTING work |
|  | Medicolegal Expert Witness* Working with attorneys to provide an unbiased review of information provided in medicolegal cases.
* History of working with plaintiffs, defendants, and as an independent third-party to review cases and events to provide relevant feedback and expert opinions.
* Primarily consult on emergency medicine including EMS, physician assistant practice, and the use of point of care ultrasound (POCUS) in clinical medicine across various specialties.
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|  | Medical Consulting* Consulting for various groups on medical matters including POCUS, emergency medicine, medical blogging and podcasting, physician assistants, and rural/austere medicine.
* History of helping innovate new technologies and advancing various fields of medicine especially with POCUS as it benefits those in rural and remote settings including prehospital care.
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| Initial Dates of Licenses and Certifications |
|  | Certificate of Added Qualifications in Emergency Medicine | 2017 |
|  | Advance Trauma Life Support | 2015 |
|  | Fundamental Critical Care Support  | 2015 |
|  | Nationally Certified Physician Assistant | 2014 |
|  | Physician Assistant License, State of Missouri | 2014 |
|  | Fire Instructor I | 2014 |
|  | Pediatric Advanced Life Support | 2013 |
|  | Advanced Cardiac Life Support | 2011 |
|  | Firefighter I & II | 2011 |
|  | HAZMAT Awareness & Operations | 2011 |
|  | FEMA IS-100, IS-200, and IS-700 | 2010 |
|  | Emergency Medical Technician License, State of Missouri | 2009 |