

**Curriculum Vitae**  
**SEAN M. SERELL, M.D.**

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**SUMMARY OF EXPERTISE**

- Board-certified anesthesiologist in active clinical and educational practice for the past 17+ years. Specialty areas of focus include orthopedic and ambulatory surgery with extensive experience performing peripheral nerve blocks and managing post-operative pain.
- Director of Anesthesia and peri-operative services for 10 years at a high volume orthopedic surgery and recovery center including drafting policies and procedures for assessment of appropriate patient selection for outpatient surgical services.
- Founder of Secure Medication Systems LLC, a company that developed and manufactures locking prescription vials to restrict access to medications of potential abuse. Holder of multiple patents and product awards for innovation in this field.
- Educator for the University of Colorado School of Medicine including medical student, resident, EMT, and physician instruction and certification.
- Board governance experience over a 9 year period of service on the Northern Colorado Anesthesia Professionals Board of Managers, including serving as chairman of the board. Additional experience with corporate policies and procedures involving the formation of a separate billing, practice management and medical information technology company.

## **EDUCATION**

Westmont College - B.S., Cellular Biology and Art	1993 - 1997
Georgetown University School of Medicine - M.D.	1997 - 2001
Arrowhead Regional Medical Center - Internship, Transitional	2001 - 2002
University of Washington - Residency, Anesthesiology	2002 - 2005
Academy of Wilderness Medicine - Fellowship, Wilderness Medicine	2018 - Present

## **LICENSURE AND SPECIALTY BOARD CERTIFICATION**

State of Washington, Medical License	2002 - 2017
State of Colorado, Medical License	2005 - Present
American Board of Anesthesiology, Diplomate	2007 - Present

## **ACADEMIC AFFILIATIONS**

University of Colorado School of Medicine, Assistant Clinical Professor	2020 - Present
University of Colorado Boulder, Ann and H.J. Smead Aerospace Engineering Sciences, Volunteer Clinical Faculty	2019 - Present

## **WORK HISTORY**

Northern Colorado Anesthesia Professionals, Physician Partner, Fort Collins, CO  
2005 - Present

- Active anesthesia physician for Northern Colorado Anesthesia Professionals (NCAP) in clinical and educational practice over the past 17+ years in Northern Colorado hospitals and ambulatory surgery centers. Emphasis on outpatient surgery and regional anesthesia techniques including peripheral nerve blocks, epidural and intrathecal (spinal) anesthesia modalities (>25,000 blocks placed in clinical practice).
- Director of Anesthesia Services for Orthopaedic Center of the Rockies and the associated Convalescent Care Center from 2008-2018, including development of multiple policies and procedures for appropriate patient selection for ambulatory surgery, safety and quality improvement initiatives and staff and patient education activities.
- Served on Board of Managers 1/2009-1/2018, including Chairman of the Board, during a period of rapid growth and expansion of the company and covered facilities.

- Fostered strong partnership with the UCHhealth organization and initiated multiple quality improvement projects across the group and facility locations as both the Director of Quality and Education.
- Educator as both an Assistant Clinical Professor with the University of Colorado School of Medicine, teaching medical students, residents and physicians, and also with the University of Colorado Boulder Department of Aerospace Engineering Science for the Medicine in Space and Surface Environments course. Coordination with graduate and undergraduate students to design, fabricate and launch a High Power Rocket prototype for delivery of medical supplies at the Mars Desert Research Station in Hanksville, Utah.
- Certified Instructor for the American College of Surgeons for the Advanced Trauma and Life Support (ATLS) course. 4/2012 - 4/2021.

Premier Anesthesia, Locum Tenens Physician, Alpharetta, GA 2007 - 2008

Secure Medication Systems LLC, Greenwood Village, CO 2010 - Present

- Founder and Past-President of parent company of Safe-Rx, a company that designs locking prescription vials for pharmacies in dispensing controlled substances and other medications of potential abuse.
- Engaged in the fight against the rising opioid epidemic by creating safer homes for families across the country with pilfer-resistant and tamper evident medication storage solutions. Certified products to meet Child Resistant Testing protocols for 16 CFR 1700 to be both child-resistant and senior friendly.
- Holder of multiple patents and design awards for Locking Prescription Vials.
- Served on Board of Managers after first round of financing secured from 7/2017-3/2020.

Encompass Medical Partners LLC, Fort Collins, CO 2013 - 2019

- Company created to further expand medical billing, credentialing, practice management and medical information technologies for anesthesia and internal medicine groups.
- Developed corporate policies and procedures and instituted robust national quality reporting metrics for multiple medical groups.
- Served on Board of Managers from 1/2013 - 1/2015.

- Founder of a new Prefecture (regional launch site organization) for the Tripoli Rocketry Association at the Mars Desert Research Station to use in conjunction with the University of Colorado Boulder Medicine in Space and Surface Environments education program.
- Coordination with U.S. Department of Transportation and the Federal Aviation Administration to obtain Certificate of Waiver or Authorization for launch and recovery of a Class 2 High-Power rocket within controlled airspace.
- Served as Prefect (President) for the organization - 10/2019 - Present.

### **CERTIFICATIONS**

- Basic Life Support (BLS)
- Advanced Cardiac Life Support (ACLS)
- Pediatric Advanced Cardiac Life Support (PALS)
- Neonatal Advanced Cardiac Life Support (NALS)
- Advanced Trauma and Life Support (ATLS)
- Tripoli Rocketry Association - Level 3 Certification for High Power Rocketry

### **PATENTS**

#### **Encoding tool for a combination cap**

Patent number: 9890558

Abstract: Disclosed is an encoding tool used to encode a programmable combination locking cap. The encoding tools disclosed have an angled blade and alignment mechanisms so that a combination cap is easily encoded and placed on a container that optionally has an angled blocker so that the angled blocked efficiently blocks the combination of the programmable combination locking cap.

Type: Grant

Filed: April 6, 2015

Date of Patent: February 13, 2018

Assignee: SECURE MEDICATION SYSTEMS, LLC

Inventor: Sean Serell

#### **Container having a programmable combination locking cap**

Patent number: 8875915

Abstract: Disclosed is a bottle having a programmable combination locking cap. The locking cap has an upper cap, which locks onto a canister. The locking cap has various layers of rings so that the rings can be aligned in a combination code in order to remove the locked cap from the canister.

Type: Grant

Filed: September 12, 2012

Date of Patent: November 4, 2014

Assignee: Secure Medication Systems, LLC

Inventor: Sean Serell

### **Locking cap**

Patent number: D741713

Type: Grant

Filed: July 29, 2014

Date of Patent: October 27, 2015

Assignee: Secure Medication Systems, LLC

Inventor: Sean Serell

### **Rectangular locking container**

Patent number: D742116

Type: Grant

Filed: December 22, 2014

Date of Patent: November 3, 2015

Assignee: Secure Medication Systems, LLC

Inventor: Sean Serell

### **Locking container**

Patent number: D746058

Type: Grant

Filed: July 29, 2014

Date of Patent: December 29, 2015

Assignee: Secure Medication Systems, LLC

Inventor: Sean Serell

### **Locking container**

Patent number: D747606

Type: Grant

Filed: December 22, 2014

Date of Patent: January 19, 2016

Assignee: Secure Medication Systems, LLC

Inventor: Sean Serell

### **Rectangular locking container**

Patent number: D747607

Type: Grant  
Filed: July 29, 2014  
Date of Patent: January 19, 2016  
Assignee: Secure Medication Systems, LLC  
Inventor: Sean Serell

### **SMART CONTAINER INSERT**

Publication number: 20180280246

Abstract: Disclosed is a messaging system that can be used with either a locked or unlocked container to indicate an elapsed time, such as an elapsed time for taking medication, unauthorized movement, or opening of the container. A capsule placed in the container communicates to an application that may generate alerts for vial openings, failure to open vial when medication due, pilfering or unauthorized movement. A battery in the capsule can be recharged through contacts or induction charging. Various types of sensors can be used in the capsule, including pressure sensors, light sensors, an accelerometer, a capacitive sensor, and a conductive sensor.

Type: Application

Filed: April 2, 2018

Publication date: October 4, 2018

Applicant: Secure Medication Systems, LLC

Inventors: Milton Cohen, Sean Serell

This listing includes patent applications that are pending as well as patents that have already been granted by the United States Patent and Trademark Office (USPTO).

### **PRESENTATIONS**

- Evaluation of a Novel Video Laryngoscope for Airway Instrumentation - 2005
- Peri-operative Myocardial Infarction and Hip Fractures - 2009
- Utilization of Ultrasound for Peripheral Nerve Blocks - 2010
- Upper Extremity Nerve Blocks - Workshop Instructor - 2010
- Pediatric Drowning and Hypothermia - 2010
- NCAP Guideline - Appropriate Patient Selection for Ambulatory Surgery Centers - 2010
- NCAP Guideline - Anticoagulation Guidelines for Neuraxial & Peripheral Nerve Procedures - 2011
- NCAP Guideline - Perioperative Management of Coronary Stents - 2011
- NCAP Guideline - NPO (Fasting) Guidance - 2012

- Pharmacy Education with Dispensing of Narcotics - Survey Results -2015
- Management of a Malignant Hyperthermia Crisis in the Ambulatory Surgery Setting - 2018
- Fire in Space - 2018
- Mars Desert Research Station - Prototype PDM Testing - 2019
- Mars Desert Research Station Rocket II - 2019
- MiSSE (Medicine in Space and Surface Environments) course Clinical Faculty - 2022

### **FACILITY AFFILIATIONS**

Anderson Podiatry Center Surgery, Fort Collins, CO, Inactive - 9/2005-4/2015  
 Centennial Peaks Hospital, Louisville, CO, Inactive - 7/2013-9/2014  
 Good Samaritan Medical Center, Lafayette, CO, Inactive - 8/2013-10/2014  
 Greeley Surgery Center - Satellite of MCR, Greeley, CO, Active - 11/2012-Present  
 Harmony Surgery Center, Fort Collins, CO, Active - 7/2005-Present  
 Kadlec Regional Medical Center, Richland, WA, Inactive - 12/2007-6/2008  
 Longmont United Hospital, Longmont, CO, Inactive - 1/2013-1/2015  
 Longs Peak Hospital, Longmont, CO, Active - 8/2017-Present  
 Longs Peak Surgery Center, Longmont, CO, Active - 2/2013-Present  
 Loveland Surgery Center, Loveland, CO, Inactive - 9/2005-Present  
 MCR Surgery Center, Loveland, CO, Inactive - 4/2008-9/2010  
 Medical Center of the Rockies, Loveland, CO, Active - 10/2006-Present  
 Mountain Vista Surgery Center, Greeley, CO, Inactive - 4/2008-12/2015  
 OCR Ambulatory Surgery Center, Fort Collins, CO, Active - 4/2006-Present  
 OCR Convalescent Care Center, Fort Collins, CO, Active - 4/2006-Present  
 Poudre Valley Hospital, Fort Collins, CO, Active - 6/2005-Present  
 Skyline Surgery Center, Loveland, CO, Active - 3/2007-Present  
 Spring Creek Surgery Center, Fort Collins, CO, Inactive - 8/2005-2/2008  
 Surgery Center of Fort Collins, Fort Collins, CO, Inactive - 8/2005-5/2015  
 Greeley Hospital, Greeley, CO, Active - 7/2019-Present