



Articles eligible for FAWM credits (as of July 23, 2021)

Red text – core credits

Blue text – elective credits

2611 - Protection Against Cold in Prehospital Care: Wet Clothing Removal or Addition of a Vapor Barrier, Henriksson

09-036 Cold Physiology (1 Credit Hours)

2612 - Exercise-Associated Hyponatremic Encephalopathy in an Endurance Open Water Swimmer, Rogers

07-017 Exercise-Associated Hyponatremia (1 Credit Hours)

2613 - The Effect of Acetazolamide on Saccadic Latency at 3459 Meters, Faull

03-022 High Altitude Pharmacology (1 Credit Hours)

2621 - Current Hemorrhage Control Techniques for Backcountry Care: Part One, Tourniquets and Hemorrhage Control Adjuncts, Drew, Bennett, LittleJohn

12-049 Hemorrhage Control Techniques (1 Credit Hours)

2622 - Cerebral Hemodynamics at Altitude: Effects of Hyperventilation and Acclimatization - Sanborn, Edsell, Kim, et. al.

*03-001 Physics & Physiology of Altitude (1 Credit Hours)**

2623 - Smoking Increases the Risk of Acute Mountain Sickness - Vinnikov, Brimkulov, Blanc

*03-002 High Altitude Disorders (1 Credit Hours)**

2631 - Field Ultrasound Evaluation of Central Volume Status - J Pitman, G Thapa, NS Harris

*03-001 Physics & Physiology of Altitude (1 Credit Hours)**

2632 - Management of a Pediatric Snake Envenomation - Sean P. Bush, MD; Shannon B. Kinlaw, MD

09-021 Envenomation by Snakes (1 Credit Hours)

2633 - Jellyfish Stings: A Practical Approach - Grace J. Maalouf, MD, et. al.

01-006 Marine Envenomations (1 Credit Hours)

2641 - WMS Practice Guidelines for the Treatment of Pitviper Envenomations - Kanaan, et. al.

09-021 Envenomation by Snakes (1 Credit Hours)

2642 - A Novel Method to Decontaminate Surgical Instruments for Operational and Austere Environments - Cunningham, et. al.

*08-001 General Field Sanitation and Hygiene Measures (1 Credit Hours)**

2643 - Lyme Disease: What the Wilderness Provider Needs to Know - Forrester, et. al.

02-024 Lyme Disease (1 Credit Hours)

2711 - Primary Care in Extreme Environments: Medical Clinic Utilization at Antarctic Stations, James M. Pattarini, MD, MPH, et.al.

04-004 Medicine at the Poles (1 Credit Hours)

2712 - Orbital Compartment Syndrome: Alternative Tools to Perform a Lateral Canthotomy and Cantholysis, Kenneth V. Iserson, MD

*12-005 Ocular Trauma and Emergencies (1 Credit Hours)**

2713 - A New Proposal for Management of Severe Frostbite in the Austere Environment, Emmanuel Cauchy, MD, et.al.

*09-002 Frost Bite and Trench Foot (1 Credit Hours)**



2721 - Risk of Avalanche Involvement in Winter Backcountry Recreation - Benjamin Zweifel, et. al.

06-022 Accident Prevention for the Wilderness Traveler (1 Credit Hours)

2722 - Outdoor Activity and High Altitude Exposure During Pregnancy - Linda Keyes, et. al.

03-011 Pregnancy at High Altitude (1 Credit Hours)

2723 - WMS Practice Guidelines for the Prevention and Treatment of Drowning - Andrew C. Schmidt, et. al.

*09-004 Submersion Injuries (1 Credit Hours)**

2731 - Pathophysiologic Determination of Frostbite Under High Altitude Environment Simulation in Sprague-Dawley Rats - Jie Hu, et.al.

*09-002 Frost Bite and Trench Foot (1 Credit Hours)**

2732 - Thermoregulation During Extended Exercise in the Heat: Comparisons of Fluid Volume and Temperature - Walter S. Hailes, et. al.

07-015 Nutrition and Hydration for Athletes in Extreme Environments (1 Credit Hours)

2733 - HEMS in Alpine Rescue for Pediatric Emergencies - Stefan Taubenböck, et. al.

*12-002 Pre-hospital Patient Assessment (1 Credit Hours)**

2741 - Pressures of Wilderness Improvised Wound Irrigation Techniques: How Do They Compare? - John B Luck, et. al.

*12-012 General Wound Management in the Wilderness (1 Credit Hours)**

2742 - Pulling Harder Than the Hamate Tolerates: Evaluation of Hamate Injuries in Rock Climbing and Bouldering - Christoph Lutter, et. al.

07-006 Injuries from Climbing (1 Credit Hours)

2743 - Management of Burn Injuries in the Wilderness: Lessons from Low-Resource Settings - Cindy C. Bitter, et. al.

*12-014 Burn Management (1 Credit Hours)**

2811 - An Assessment of Diarrhea Among Long-Distance Backpackers in the Sierra Nevada - Derek J. Meyer, MD, et. al.

*02-009 Traveler's Diarrhea (1 Credit Hours)**

2812 - The Effects of a 36-Hour Mixed Task Ultraendurance Race on Mucosal Immunity Markers and Pulmonary Function - David Bellar, PhD, et. al.

*07-001 Exercise Physiology (1 Credit Hours)**

2813 - WMS Practice Guidelines for Prev. and Management of Avalanche and Non-Avalanche Snow Burial Accidents - Christopher Van Tilburg, MD, et. al.

09-037 Suffocation in Powder Snow (0.5 Credit Hours)

03-025 Overview of Avalanche (0.5 Credit Hours)

2821 - Prophylactic Acetaminophen or Ibuprofen Result in Equivalent Acute Mountain Sickness Incidence at High Altitude - Nicholas C. Kanaan, et. al.

03-022 High Altitude Pharmacology (1 Credit Hours)

2822 - Animal, Microbial, and Fungal Borne Skin Pathology in the Mountain Wilderness: A Review - William E Brandenburg, et. al.

02-054 Infectious Disease in Adventure Travel (1 Credit Hours)

2823 - Prevention of Friction Blisters in Outdoor Pursuits: A Systematic Review - Robert Worthing, Raechel Percy, Jeremy Joslin

*05-008 Foot Gear and Care of the Feet (1 Credit Hours)**



2831 - Cervical Spine Alignment in Helmeted Skiers and Snowboarders with Suspected Head and Neck Injuries - Jared Murray, BA; David A. Rust, MD

*12-033 Management of Spinal Trauma (1 Credit Hours)**

2832 - Descriptive Epidemiology, Medical Evaluation, and Outcomes of Rock Climbing Injuries - James W. McDonald, MD, et. al.

03-023 Injuries from Climbing (1 Credit Hours)

2833 - Similarities Between Large Animal-Related and Motor Vehicle Crash-Related Injuries - Abigail M. Tremelling, MD, et. al.

*09-007 Animal Attacks (1 Credit Hours)**

2841 - Exercise-Associated Hyponatremia, Hypernatremia, and Hydration Status in Multistage Ultramarathons - Brian J. Krabak, et. al.

07-017 Exercise-Associated Hyponatremia (1 Credit Hours)

2842 - Trends in Skin and Soft Tissue-Related Injuries in NOLS Wilderness Expeditions - Kimberly A. Stanford, et. al.

*12-010 Soft Tissue Injuries and Contusions (1 Credit Hours)**

2843 - Proton Pump Inhibitor Use Is Associated With a Reduced Risk of Infection with Intestinal Protozoa - Johnathan M. Sheele

*02-005 Parasites & Protozoal infections in the Traveler (1 Credit Hours)**

2911 - An Update on Fatalities due to Venomous and Non-Venomous Animals in the US (2008-2015) - Jared A. Forrester, et. al.

09-008 Overview of Envenomation (1 Credit Hours)

2912 - Cutaneous Vascular Responses of the Hands and Feet to Cooling, Rewarming, and Hypoxia in Humans - Heather C. Massey, et. al.

09-036 Cold Physiology (1 Credit Hours)

2913 - Knowledge of the Avalanche Victim Resuscitation Checklist and Utility of a Standardized Lecture in Italy - Giacomo Strapazzon, et. al.

03-020 Avalanche Rescue (1 Credit Hours)

2921 - Effect of Helmet Use on Traumatic Brain Injuries and Other Head Injuries in Alpine Sport - Nicolas Bailly, et. al.

07-007 Injuries from Skiing and Snow Boarding (1 Credit Hours)

2922 - Snakebites Treated in North Carolina Emergency Departments, 2013-2015 - Katherine J. Harmon, et. al.

*09-020 Envenomation by Reptiles (1 Credit Hours)**

2923 - Hospital-Treated Snow Sport Injury in Victoria, Australia: A Summary of 2003-2012 - Emma J. Siesmaa, et. al.

07-007 Injuries from Skiing and Snow Boarding (1 Credit Hours)

2931 - Case Report: Severe Frostbite in Extreme Altitude Climbers - The Kathmandu Iloprost Experience - Prativa Pandey, et. al.

*09-002 Frost Bite and Trench Foot (1 Credit Hours)**

2932 - Metabolic Demand of Hiking in Wildland Firefighting - Joseph A. Sol, et. al.

*07-001 Exercise Physiology (1 Credit Hours)**



2933 - Causes of Death Among Avalanche Fatalities in Colorado: A 21-Year Review - Alison Sheets, et. al.

06-002 Avalanche Rescue (1 Credit Hours)

2941 - Climbing-Related Injury Among Adults in the United States: 5-Year Analysis of the National Emer. Dept. Sample - Joseph D. Forrester, et. al.

03-023 Injuries from Climbing (1 Credit Hours)

2942 - Medical Incidents and Evacuations on Wilderness Expeditions for the Northwest Outward Bound School - Forrest C. Wells, Craig R. Warden

*12-001 Overview of Medical Emergencies in the Wilderness (1 Credit Hours)**

2943 - The Effects of Acetazolamide on Exercise Performance at Sea Level and in Hypoxic Env. - Alexander M. Posch, Stewart Dandorf, David C. Hile

03-022 High Altitude Pharmacology (1 Credit Hours)

3011 - Reduced Acetazolamide Dosing in Countering Altitude Illness - Scott E. McIntosh, et. al.

03-022 High Altitude Pharmacology (1 Credit Hours)

3012 - Epidemiology of Cardiac Events During Prehospital Care in Mountain Rescues - Carmen M. Martinez-Caballero, Eva Sierra Quintana

*03-007 The Effect of High Altitude on Underlying Medical Problems (1 Credit Hours)**

3013 - Success Rates with Digital Intubation - Andrew L. Juergens II, et. al.

*12-017 Emergency Airways (1 Credit Hours)**

3021 - Impact of a Half Dome Cable Permitting Process on Search and Rescue (SAR) Activity - Susanne J Spano, et. al.

*06-001 Overview of Search and Rescue (1 Credit Hours)**

3022 - BASE Jumping Injuries Presenting to Emergency Departments in the United States - Joseph D. Forrester, et. al.

07-018 Overview of Sports Medicine (1 Credit Hours)

3023 - Environmental Deaths in the Northern Territory of Australia, 2003-2018 - Marianne Tiemensma

12-048 Medicine in Austere Settings (1 Credit Hours)

3031 - Cougar (*Puma concolor*) Injury in the United States - Yoyo Y. Wang, Thomas G. Weiser, Joseph D. Forrester

*09-007 Animal Attacks (1 Credit Hours)**

3032 - Risk of Death and Major Injury from Natural Winter Hazards in Helicopter and Snowcat Skiing in Canada - Matthias Walcher, et.al.

07-007 Injuries from Skiing and Snow Boarding (1 Credit Hours)

3033 - Recovery of Heart Rate Variability After Exercise Under Hot Conditions: The Effect of Relative Humidity - Oriol Abellán-Ayón, et.al.

16-024 Techniques for Effective Heat Acclimatization (1 Credit Hours)

3041 - WMS Practice Guidelines for the Prevention and Treatment of Frostbite: 2019 Update - Scott McIntosh, et.al.

*09-002 Frost Bite and Trench Foot (1 Credit Hours)**

3042 - WMS Practice Guidelines for the Prevention and Treatment of Heat Illness: 2019 Update - Grant S. Lipman, et.al.

*09-009 Heat Illness and Dehydration (1 Credit Hours)**



3043 - WMS Practice Guidelines for the Treatment and Prevention of Drowning: 2019 Update - Andrew C. Schmidt, et. al.

*09-004 Submersion Injuries (1 Credit Hours)**

3111-Exercise in Thermal Inversions: PM2.5 Air Pollution Effects on Pulmonary Function and Aerobic Performance - Dale Wagner

09-024 Special Heat Problems in Urban Settings (1 Credit Hours)

3112-Cardiovascular Disease and Triathlon-Related Deaths in the United Kingdom - Jeremy S. Windsor, et. al.

*02-007 Chronic Medical Conditions and Wilderness Traveler (1 Credit Hours)**

3113-WMS Clinical Practice Guidelines for the Management of Exercise-Associated Hyponatremia: 2019 Update - Brad Bennett, et.al.

07-017 Exercise-Associated Hyponatremia (1 Credit Hours)

3121- Hypertension and Acute Mountain Sickness in Himalayan Trekkers in Nepal - Charles Duke, et.al.

*03-002 High Altitude Disorders (1 Credit Hours)**

3122- Aviation Sports Crashes in the Austrian Mountains: A 10-Year Retrospective Study - Bernd Wallner, et.al.

*09-012 Aerospace Medicine (1 Credit Hours)**

3123- Total Energy Intake and Self-Selected Macronutrient Distribution During Wildland Fire Suppression - Brent Ruby, et.al.

*09-011 Nutrition in Extreme Environments (1 Credit Hours)**

3131- Evaluation of Three Field Rewarming Techniques During Cold Weather Military Training - Douglas Jones, et.al.

*09-019 Recognition and Management of Hypothermia (1 Credit Hours)**

3132- Developing Cricothyroidotomy Skills Using a Biomaterial-Covered Model - Cigdem Ozkaya Senuren, et.al.

13-010 Teaching Procedures (1 Credit Hours)

3141- Prehospital Use of Ketamine in Mountain Rescue - Katia Vanolli, et.al.

*12-003 Pain Management in the Wilderness Setting (1 Credit Hours)**

3142 - Athlete's Heart in Elite Sport Climbers - Isabelle Schöffl, et.al.

07-006 Injuries from Climbing (1 Credit Hours)

3143 - Emerging Tickborne Viral Infections: What Wilderness Medicine Providers Need to Know - James H. Diaz

*02-051 Emerging Infections (1 Credit Hours)**

3144 - Determination of Death in Mountain Rescue - Corinna A. Schön, et.al.

06-012 Forensic Search and Rescue (1 Credit Hours)

3211 - Influence of Fluid Delivery Schedule and Composition - Alejandro M. Rosales, et.al.

*07-002 Homeostasis and Fluid Resuscitation (1 Credit Hours)**

3212 - Altitude Related Disorders on Mt. Kilimanjaro, Tanzania - Marieke C.J. Dekker, et.al.

*03-002 High Altitude Disorders (1 Credit Hours)**

3213 - Acute Kidney Injury Following Star Fruit Ingestion- Nalaka Herath, et.al.

*09-010 Plant Toxins and Dermatitis (1 Credit Hours)**



3221 - The Role of ProBNP on Prognosis in Scorpion Stings- Ufuk Utku Gökçe, et.al

16-002 Desert Arthropods (1 Credit Hours)

3222- Underrecognized Tickborne Illnesses: Borrelia Miyamotoi and Powassan Virus - David Della-Giustina, et.al

*02-002 Tic-borne Illness (1 Credit Hours)**

3223- Evaluation of Environmental Conditions on Self-Selected Work and Heat Stress in Wildland Firefighting - Joseph A. Sol, et.al

05-030 Fire Safety for Wildlands (1 Credit Hours)