

Carl Weil, MFAWM

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EXPERT WITNESS & RISK MANAGEMENT in the Outdoor Recreation fields of;

Primary fields of most frequent expert cases:

Archery, Cross bows, Compound bows, Tree stands, Carbon fiber arrows, Archery ranges, Archery hunting, Archery injuries, Camps, Camp Skills, Camp climbing walls, Camp safety operations, Camp staff qualifications, Rope courses, Guiding services, Guide standards and training, Rock Climbing - out doors & indoor gyms, rappelling, Camping, Mountaineering, Hunting & fishing, guided & Drop camps Horse Activities, Horse Events, Horse Boarding Stables, Western and English riding, Guided trail rides, Equine operations,

Additional expert cases

Shooting Sports, Rifle, Pistol, Shotgun, Shooting ranges, Shooting accidents, Agricultural: Appraisals, Guest resort ranches, Working ranches, Livestock appraisals, Outdoor Water sports, General Aviation, Wilderness Medicine, Emergency Medical Service

Carl Weil has earned many credentials helpful to his 40+ years of expert witness work. He earned the first **Master Fellow** degree in 2012 of the Academy of Wilderness Medicine educational branch of the 3,000 member Wilderness Medical Society. This degree helps him with depth of understanding in much of the recreational industry for injury occurrence and prevention.

His years of public speaking and clean cut western appearance help him when taking the stand to testify. He has reviewed over 3,000 outdoor businesses in the US, Canada and abroad as a risk manager. Lawyers find his honesty and clarity an asset on their cases. He has worked on approximately 300+ cases as an expert. He grew up on a family ranch in the Colorado Mountains and is a third generation guide. Public presentations in safety are frequent. He has a list of peer reviewed and non peer reviewed publications which follow. His unique monograph presentation on levels of outdoor liability and responsibility before the Wilderness Education Association was positively received. Scholastically he has two undergraduate university degrees and many hours of ongoing graduate work. He has worked on cases from coast to coast as well as out of the USA. Often he can review a case and offer an opinion without travel expense. He offers a free initial review. He has been accepted as an expert witness in civil and criminal cases. Roughly sixty percent of his work is for the plaintiff with forty percent for defense.

EDUCATION

Various schools taught at, academic study and research, articles published, paper written and reviewed by seven member doctorate committee	2012 - Master Fellow Degree Academy of Wilderness Medicine
Various schools attended over 5 yr term-	2012- Wilderness Medical Society Denali Education Award
Various schools attended to earn over 2 yrs -	2006 "Fellow", degree Academy of Wilderness Medicine

University of Northern Colo – Greeley, CO	2001-02 Graduate Courses in Recreation
University of Denver – Denver, CO	1980-84 Risk Management, Business
Arapahoe Community College – Littleton, CO	1978-Emergency Medical Services
Colorado State University – Ft. Collins, CO	1967-Bachelor of Science, Social Science, Economics, Agriculture, Industrial Arts
Colorado Mesa University – Grand Junction, CO	1964-Associate of Arts
Chapman College- Orange, CA	1962-Liberal Arts

Archery

1. 1955 started shooting archery.
2. 1964-1967 took some mechanical classes applicable to archery at Colorado State University.
3. 1984 attended Olympic archery competition as a spectator.
4. 1991 set up private archery course with 3 D targets.
5. 1996- on: instructs private archery lessons.
6. Case topics include:
 - 3D range safety-researched all US archery major organization rules.
 - Archery tree stand harness-researched harness manufactures methods and similar products.
 - Face injury blamed on bow design case.
 - Consulted on several cross bow case.
 - Appropriateness of children on range – response came from position of public school official, parent, youth archery instructor, youth program manager, and researching major organization rules.
 - Carbon fiber arrow failure - manufacture or user cause, various cases.

Mr. Weil has extensive experience with carbon fiber arrow personal injury cases of different manufacturers including investigating way arrows are used as well as care given to them. Mr. Weil has been able to determine through his investigative questions as well as inspection methods of arrows, bow and targets possible reasons of failure. He has pioneered testing with engineering laboratories. His strong mechanical background which includes gunsmithing, gives him a wide prospective that other archery experts may lack.

He has handled product liability cases including hunting tree stand equipment, bow design including compound and cross bows as well as arrows.

His familiarity with safe archery practices gives counsel the opportunity to find deviation from good risk management procedures. This familiarity is based on both extensive research and firsthand experience over 40 plus years as well as archery practices in and out of the USA. Most noticeably he has competed in the Himalayas in the kingdom of Bhutan where archery is the national sport. His personal archery experience dates back to his first long bow in the 1950s. He has case work in many states including Georgia, Illinois, Kentucky, Indiana, Virginia, Missouri, Texas and Ohio

He has experience running and using archery ranges. This extends from the Olympics to competitive 3D to camp archery facilities. He has advised in cases in most of these areas including instruction and children on archery courses.

Equine

1. 1946 begin riding.
2. 1955 begin competing gymkhana events.
3. 1958 begin instruction Western riding.
4. 1968 graduated from Colorado State University with a specialty in Agriculture Economics.
5. 1970 Worked with first of approximately 20 insurance companies on Equine Insurance.
6. 1976 begin equine appraisal work.
7. Involved in the formation Of the US Dressage federation.
8. 1984 worked in Equestrian events at US Olympics.
9. 1984-1996 worked numerous horse shows as a medic.
10. 1986 taught Equine liability at Colorado State University.
11. Case topics include:
 - Liability issues re care custody and control of Equine.
 - Horse valuation cases.
 - Guided trail ride liability cases.
 - Equine Insurance issues.
 - Equine Safety issues.

Mr. Weil was born on a horse Calvary post. He started riding at the age of three and has been involved in most every aspect of the Western and English horse world. He is experienced with all aspects of horse insurance as well as practical skills from vet work (having attended classes at Colorado State University) to farriering (having been taught by a 10Th Mountain Army farrier). He has worked with horses and mules on the range, in the arena, driving, riding, and showing as well as with appraisals. He has designed safety liability programs as well as property insurance programs for over a dozen insurance companies in this field.

He has written articles in several horse magazines as well as having been quoted in magazine and book articles in the safety and risk management field. He has been a medic at numerous horse shows on local and national levels.

He has done risk management reviews of hundreds of horse related business. He developed both forms and safety guidelines in this field.

Firearms

Having started target shooting and hunting under the tutelage of his Army Captain father with his first rifle (30-30 carbine) and pistol (Single action Army revolver) around the age of eight Mr. Weil continued to learn safety function and firearm problems. He has competed in NRA, College and USMC competition programs. He has certifications' as an instructor from NRA and the state of Utah as well as taken training classes from private schools and the USMC. He has experience with many firearms as a gunsmith. He has been qualified by the court and served as a criminal case fire arms expert witness.

Livestock

1. Born on horse Cavalry post WWII.
2. 1945-to present raised on and lived on cattle ranches with registered horse breeding operations.
3. 1966-1970 took agricultural classes at Colorado State University.

4. 1984 to 1989 raised numerous national cattle champions.
5. Worked on various (Sand hills, South park, Elbert county, Walsenburg, Jefferson county, Mesa County,) cattle ranches in Nebraska and Colorado.
6. Case topics include:
 - Liability issues regarding livestock [bovine, sheep, pigs, bison, horses] with various guest and operational ranch cases.
 - Liability issues regarding fencing issues and animal containment.
 - Injuries aspects from animals, including bull attack.
 - Valuations, including lots and individuals horses.
 - Ranching practices.
 - Safety layout of design operations.

Mr. Weil was raised on family ranches in Nebraska and Colorado prior to having his own ranch raising a national championship herd of Scotch Highland Cattle. He received a Bachelor of Science from the State Agriculture School at Colorado State University. With his Universality training and his decades of practical ranch experience he has been helpful to many cases in this field. He has knowledge of a broad number of aspects from fencing to ranching economics. He has done risk management reviews of many ranches. He developed both forms and safety guidelines in this field.

Guiding: camping/hunting/fishing

1. 3rd generation guide.
2. Worked as: horse, hiking, hunting and mountaineering guide.
3. Inspected hundreds of guide operations.
4. Case topics include:
 - Hiking guide at youth program involving youth death.
 - Fishing guides, including client death.
 - Remote camps, including medic with youth death.
 - Hunting camps, including fractured femur care.

As a third generation guide Mr. Weil has familiarity with fishing, hunting and sightseeing having experience from Alaska thru The Rockies to the great lakes. He has experience with scenic tourism from private carrier, watercraft, hiking, rail and aerial.

He has done risk management reviews of hundreds of business in this field. He has designed safety liability programs as well as property insurance programs for over a dozen insurance companies.

He is familiar with guided hunts as well as drop camp hunts by horse, foot as well as recreational vehicles. He is a current NRA instructor having received his first certificate as NRA instructor in 1967. He was a competitive national marksman in the USMC as well as club and collegiate competition. He has been a worker, range master as well as instructor on civilian and military ranges.

Mr. Weil has worked with camps since his early child hood. These camp experiences include military, religious, organizational, youth as well as adult camps. His first job after obtaining his second collage degree was directing the Colorado State 4H camp.

He has done risk management for hundreds of camps and guest ranches from east coast to west coast. He has worked common operations such as livery stables as well as the unusual, such as cattle drives and wagon trains.

He has worked with small guest ranches as well as larger both generalized and specialty. He has designed safety liability programs as well as property insurance programs for over a dozen insurance companies.

Rock Climbing / Climbing Gyms / Mountaineering

1. Climbing with instruction since late 1980's. Bouldering without instruction since 1950's.
2. Taught climbing in Boulder Colorado for four years
3. Climbed on four continents.
4. Guided on four continents.
5. Climber over two dozen 14,000 'mountains and several taller in the Himalayans and Mexico.
6. Provided planning for numerous mountaineering groups.
7. Case topics include:
 - School climbs and trips, including student death on 14,000's.
 - Climbing gear law suits.
 - Belaying accidents in and out of climbing gyms.
 - Ice climbing deaths.
 - Morbidity on mountaineering trips, guided and unguided.

Mr. Weil started solo trips in the mountains when he was in grade school. He has covered mountains of the US on both coast on foot and some horseback. He has been a team member in 2 Everest expeditions.

He has traveled to and on mountains in USA, Mexico, Asia, New Zealand as well as Europe. He has also guided in these areas. From 1988 to 2001 he was a professional member of the American Mountains guides Association as well as the organizations Risk manager for part of that time. He has been a safety speaker on numerous occasions. He has taught mountaineering as well as rock climbing and Leave No Trace Trainer programs. He holds a Master of Leave No Trace. His training has included many professional courses such as a nine day roped rescue course from AMSAR, the historical rope rescue leader for whom he was risk manager for 14 years. He took a graduate school class in rope and challenge courses to have better understanding of this sub field and how it applies to gym climbing and outdoor climbing. As a Marine he, in earlier days, worked out on what today are fitness skills or challenge course or obstacle courses at Camp Pendleton, Parris Island and Quantico.

He started arguably the first insurance program to insure rock climbing gyms and mountaineering in 1988. He worked with some of the first climbing gyms and provided forms to the industry. He was an American Alpine Club member at the founding meeting of one of today's climbing groups the Access Fund. He was an early member of the Outdoor Recreation Collation of America and The Climbing wall Group (CGA) which later became the Climbing Wall Association (CWA). He developed Mountaineering insurance and guiding programs. He has done underwriting, risk management and program development for 11 insurance companies. He developed forms, rates and safety guidelines in this field. Many of the professional groups still use his work product.

Emergency Medical Services (EMS)

Having started teaching in 1967 after taking all the associated university class in that field he remains still in the class room as well as in the protocol management field. He has been an EMT Training Director since mid 1990s and is still an NREMT training Director. He has taken various university classes in biological sciences and has a 40 plus year career in emergency medicine services having taught his first wilderness medicine class at Colorado State University in 1967. He took his first EMT course in 1972 and continues to work in the emergency pre hospital care field. He has the experience of work over 3 decades at Denver General Hospital and many other hospitals as well. He started the Elizabeth Colorado Ambulance company with a personal loan. The Elizabeth Ambulance went on to become a part the Elizabeth Fire district. He had the opportunity to work on several ambulance companies as well as starting the second EMS council in the state of Colorado. He has trained numerous rescue, fire department, military EMS, ambulance company personal, gym and traditional climbers as well as mountaineers for the past decades.

He has written numerous training documents and risk management protocols since 1988. He has run a Wilderness Advanced Life Support Course for many years which includes a cadaver lab that he directs. He has taught classes to many physicians. His teaching venues include colleges, universities, clinics, seminars, military groups and medical schools during the last decade. He has done consultation and education work for pharmaceutical companies. He was the first non physician to earn a Fellowship from the Academy of Wilderness Medicine. As of 12 - 2012 there were 300 Fellows and 900 candidates. He is the first of 3,000 WMS members to earn the Master Fellow degree (alpha designation).

He had the unusual experience to have spent over 10 years as consultant to the largest EMT insurer who also insured ambulances that he consulted on.

MOUNTAINEERING / OUTDOOR EXPERIENCE /CAMPS / GUIDING / CLIMBING

Case topics include:

- Climbing wall accidents.
- Mountaineering accidents and medical cases
- Climbing gear issues.
- Belaying accidents in and out of climbing gyms.
- Auto belay problems.
- Morbidity on mountaineering trips, guided and unguided.

1996-Guided Colorado wilderness client trip.

1995-To Present:

- Presenter of original liability paper 2005 WEA national conference
- Instructor, EMS Wilderness Medicine Seminar, Tamaron, Colorado.
- Instructor, Wilderness Medicine Seminar Colorado State Annual EMS Conference.
- Speaker, Wilderness Medicine US Army Conference, ICOR, Colorado Springs, CO.
- Hired to do safety inspections Eastern Canada Rafting companies including other activities.

1994-Speaker, Outdoor Risk management and safety and wilderness medicine AAHPRED National Meeting.

1992-Became intermediate rock climbing instructor Boulder Mountaineering School,

- Speaker, Outdoor Risk management and safety before UIAA Board
- Speaker, Outdoor Risk management and safety, International Travel and Adventure

Show, Chicago, IL

- 1991-Completed instructor course Wilderness Medicine National Associations Search and Rescue (NASAR)
- Personal Trek Iceland 3 weeks
 - Support Trek leader, Environment Control Designee 1991 American Everest Expedition
Led 2 peaks: Kalapatar 18,400' and Pecualde 19,100'
- 1989-1990 – Led private trips, Popo Mexico, 19,100'
- Became assistant instructor Boulder Mountaineering School, CMC, Boulder, CO
 - In first advanced rock climbing course, Boulder Mountaineering School, Boulder, CO
 - Panelist fourth Mountain Summit Conference- Sundance, Utah
- 1990-Developed mountaineering first aid course
- Appointed American Mountain Guides Safety Chairman
 - Staff member in charge of supplies, gear and logistics, backup medic, Everest Environmental Expedition
 - Speaker, panelist 3rd Mountain Summit Conference
- 1988-Became professional guide member AMGA
- Completed National Ski Patrol three day avalanche course
 - Paid guide (expenses), Instate Outings, Colorado MT Club
 - Graduated Basic Mountaineering School CMC, Boulder, CO
 - Graduated Wilderness EMT course thru NASAR
- 1986-Staff member, board member, risk management advisor, medical person, and guide for White Mesa Institute and outdoor education program through the College of Eastern Utah
- Started White Mesa Supply & Outfitters which became Wilderness Medicine Outfitters
- 1985-Started teaching specialized first aid / pre hospital care of my own program design
- 1972-Took first EMT class Colorado Dept of Health
- 1970-Took many personal outdoor trips including climbing as a leader and assistant leader.
Submitted several 14,000' peaks
- 1969-Co-directed Western Colorado Girl Scout Camp
- 1967-Director Colorado State 4H Youth Camp. Started teaching back country care at CSU
- 1943-Born on US Horse Cavalry post and grew up on working cattle and horse ranches with family guide and outfitting business

CERTIFICATIONS, CREDENTIALS or LICENSES EARNED

Radio operator 3rd class, former
Commercial pilot SEL, MEL, BAH / WOABH
Emergency Medical Responder NREMT - current
Emergency Medical Technician Wilderness I/C IV/MAST, former
Two Honorable Discharges, USMC
Rifle & Pistol Instructor, NRA
Certified Insurance Counselor conferred by examination 1978
Insurance, Surplus Lines Broker, former
Colorado Real-estate Agent, former
National ski patrol Instructor / Trainer, former
State of Colorado First Responder Examiner, former
State of Colorado First Responder School Director, Current

State of Colorado EMT Training center Director, Current
National Registry NREMT Training center Director, Current
Master of Leave No Trace
Fellow of Wilderness Medicine Academy of Wilderness Medicine
Master Fellow of Wilderness Medicine Academy of Wilderness Medicine

ASSOCIATIONS Member, Volunteer, Consultant, or Speaker (M, V, C, or S)

Outdoor:

American Alpine Club (M, S, and C)
Access Fund (M, S, C)
Adirondack Mountain Club (M)
Appalachian Mountain Club (M)
American Mountain Guides Assoc. (past M Professional, C, S)
Boulder Mountaineering School (M, V)
Colorado Mountain Club (M, C, S)
Mountain Summit Conferences (C, S)
National Sports Paddle Association (C)
Seattle Mountaineers (C)
White Mesa Institute/College of Eastern Utah (V, C)
Wilderness Medicine Outfitters (C, S, M)
Wilderness Medical Society (V, C, S, M)
UIAA (S)

Equine:

American Quarter Horse Assoc. (C)
Colorado Arabian horse Club (C, S)
Colorado Horse Rescue (C, S)
High Plains Dressage Chapter (M, C, V, S)
Mountain States Combined Training Association (M, C, V, S)
Mountain Region Endurance Riders (S)
Morgan Horse Club (C)
National Sports Saddle Association (V)
Parker/Elizabeth Riding Club (M, S)
Pony Clubs of America (C)
Tennessee walking horse Association of Colorado (M, C, V, S)
United States Dressage Association (M, C, S, V)
United States Combined Training Association (M, C, V, S)
United States Olympic Association (V)

PREHOSPITAL and EMS CARE / EDUCATION

Case topics include:

- Guides medical competency.
- Appropriate physicians and EMS personnel actions.
- Morbidity on mountaineering trips, guided and unguided.

1958 One of the founding members of Search And Rescue, Evergreen, Colorado
1959-62 American Legion Search and Rescue

1965-67 Colorado State University
 20 semester hrs. Under graduate and graduate level nutrition classes
 16 semester hrs. Physiology and veterinarian classes
 12 semester hrs. Athletic trainer classes
 1972 First EMT course taken
 1972 High School Teacher
 1972 Four year term School Board
 1976 CPR AHA Instructor
 1975 First president Elbert County EMS Council
 1976 Founder and first president Elizabeth Ambulance Company
 1987 National Association for Search & Rescue - Wilderness EMT
 1988 Instructor CO State University
 1992 Nat. Association for Search & Rescue - Wilderness EMT instructor
 1993 Nat. Association for Search & Rescue – Senior Facility
 1994 Credentialed in Basic Trauma Life Support
 1994 State of Colorado Instructor Coordinator
 1995 Instructor Colorado Mt College
 1996 CPR AHA Instructor Trainer
 1996 Instructor Pikes Peak Community College
 1996 Instructor Colorado College
 1998 Instructor Adams State College
 1999 Instructor Naropa College
 2000 and 2005 Instructor USMC
 2001 - 2002 Instructor Univ. of Minn.
 2002 - 2009 Instructor Red Rocks College
 2004 to 2016, Instructor Dodge Community College
 2008 to present, ECSI CPR Instructor Trainer
 2009 to present Instructor Aurora Community College
 2006 Earned Fellow Degree, Academy of Wilderness Medicine
 2012 Earned Master Fellow Degree, Academy of Wilderness Medicine, 1st alpha designee
 2017 Instructor College of South Carolina

SPECIAL EXPERIENCE

Developed and directs wilderness school specializing in wilderness medical training.
 Employed as risk management safety consultant in climbing and guiding endeavors.
 Employed as expert witness in outdoor and equine cases.
 Mountaineering – guiding, instruction, trips, and activities.
 Staff member at 1984 Olympic Equestrian Events & numerous horse events.
 Raised on a working cattle ranch with outfitting business.
 Worked in livery, outfitting, boarding, training, instruction and shoeing.

SAFETY/INSURANCE PROGRAM DESIGN Rated, designed safety standards, wrote underwriting, did program development for:

Empire Fire and Marine	Outfitter & Guide/Mountaineering/Climbing
TIG Insurance Co.	“ “ “
Transamerica Insurance Co.	“ “ “

Victoria Insurance	“	“	“
American Trust Insurance	“	“	“
Universal Security Insurance Co.	“	“	“
Phoenix Insurance Enterprises	“	“	“
United States Equine Business Federation	Horse insurance		
<i>Consulted on and or did program development for:</i>			
Foremost Insurance	Horse mortality		
National Sports Paddle Association	Water craft insurance and standards		
Colorado Western Insurance	Outfitter & Guide/Mountaineering		
Federal and state parks	Guided trail ride and rock climbing safety standards		
Climbing wall industry	Belaying systems, acknowledgments and flooring		

SIGNIFICANT DATES

2012 Earned “Master Fellow Degree”, Academy of Wilderness Medicine, Wilderness Medical Society

2005 trained Colorado USMC Company prior to deployment to Iraq

2005 Qualified as “Fellow”, Academy of Wilderness Medicine, Wilderness Medical Society

2000 Trained USMC Mountain Warfare Instructors

1994 WMO became first wilderness medicine training center to be approved by state of Colorado as well as numerous other agencies.

1994-Became underwriting consultant to large Canadian recreational insurance brokerage.

This brokerage specialized in White Water and their Hiring Mr. Weil represented A culmination of years of water safety work with white water and canoe companies, recreational water associations and insurance companies water programs.

1993-Sold bulk of insurance agency to K&K, Ft. Wayne, IN.

1991-Selected as program developer, manager for Transamerica for equine and outfitter.

liability. Designed first mountaineering rescue insurance for American Alpine Club.

1990-Designed first Access Fund climbing insurance.

1989-Appointed risk manager for AMGA.

1988-Carl Weil Insurance Agency exceeds \$1,000,000 in volume.

1987-Licensed in numerous states as agent or broker including the hardest, California which required \$50,000 bond and in Colorado as surplus lines agent.

1986-Wrote two of the largest equine associations in the USA. The US Dressage Federation and the US Combined Training Federation. Designed my first liability program.

1984-Purchased branch office of Rhulen Agency, horse and recreation specialty insurance company of New York.

-Achieved binding and rating authority with 3 mortality and 3 liability Insurance Co’s.

1978-Became one of 50 Certified Insurance Counselors in Colorado.

1976-Started Carl Weil Insurance, became countersigning agent for Frelinghuysen Insurance.

1975-Became department manager of large insurance agency with national accounts.

1973-Became Colorado insurance broker.

1972-Helped design equine mortality program for Midwest Mutual Insurance Company.

1970-Second tour of duty USMC 2nd Honorable Discharge,

1970- licensed CO agent specialty insurance.

1967-USMC 1st Honorable Discharge.

PUBLICATIONS

“Wilderness EMS Text”, Dr. Seth C. Hawkin editor, C.Weil and 31 others authors

Wolters Kluwer (11-2017)

“Escalating levels of outdoor liability” C. Weil, Director WMO, MFAWM

Wilderness & Environmental Medicine Magazine(8- 2016)

Wilderness First Responder (WFR) Scope of Practice (SOP)Weil and Schimelpfenig

Wilderness & Environmental Medicine Magazine(3- 2016)

“WFR-SOP” Schimelpfenig, Johnson, Hubbell, Frizzell, Mcvov, Nicolazzo, Weil, Kimmel –

WFR-SOP.Org (2016)

“Retrieval of additional epinephrine from auto injectors” Hawkins SC, Weil C, Baty F,

Fitzpatrick D, Rowell B - **Wilderness & Environmental Medicine Journal(2013)**

“SOP of WFA Courses” Johnson, Schimelpfenig, Hubbell, Frizzell, Mcvov, Nicolazzo, Weil,

Cull, Kimmel, - **Wilderness & Environmental Medicine Journal (2013)**

“Caution on EPIPEN” Hawkins, Weil, Fitzpatrick–Wilderness & Environmental Medicine(2012)

“Quick Reference Backcountry Medical Care – 4rd ed.”, C. Weil - *Wilderness Medicine*

Outfitters (2012)

“Wilderness First Responder/ WEMT Text” *Wilderness Medicine Outfitters (2011)*

“Wilderness First Aid Text WMO” *Wilderness Medicine Outfitters (2010)*

“Wilderness Advanced Life Support Text WMO” *Wilderness Medicine Outfitters (2011)*

“Quick Reference Backcountry Medical Care - 2nd ed.”, *Wilderness Medicine Outfitters (2006)*

“Levels of liability and training in outdoor pursuits” *Wilderness Medicine Outfitters (2005)*

“Quick Reference Backcountry Medical Care”, *Wilderness Medicine Outfitters (2004)*

“First Aid “ *Bow Hunter, Magazine, (2003)*

Various articles on water treatment and purification 1998-2003

“Wilderness Medicine Instructor Manual” *Wilderness Medicine Outfitters (2001)*

“Wilderness First Aid Text WMO” *Wilderness Medicine Outfitters (2000)*

“Wilderness First Responder/ WEMT Text” *Wilderness Medicine Outfitters (1998)*

“Winter Survival “ *High Plain Journal” (1997)*

“Horse Mortality Insurance “*In the Balance (1993)*

“Mountaineering Safety “ *Outdoor Retailer (1992)*

” Mountaineering Rescue Insurance “ *Rock and Ice (1992)*

” Outdoor Recreational Risks “*Agent Broker (1991)*

” Riding Safety “*Horse Illustrated (1991)*

” Horse Liability” *Rough Notes (1991)*

” Lowering Liability Costs” *EQUIS (1991)*

PROFESSIONAL BLOGS

AnaphylaxisEducators.com

News and views on anaphylaxis and its treatment with emphases on full information on auto injectors. Started 2012

WildernessMedicine.com

Salient comments and news on information affecting those giving care in the remote back country. Web page started 1994. Blog started 2009. Cw 2020