First Aid Away From Home

What to Do When Accidents Happen on the Trail

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Acknowledgements

- Acton/ Agua Dulce Public Library
- Joan Fry
- Acton/ Agua Dulce Country Journal



Overview

- **Basic Principles**
- First Aid Kits
 - Short trail rides
 - o Long trail rides
 - o In the horse trailer
- Specific Conditions
 - o Colic
 - o Laceration
 - o Rattlesnake bite
 - Heat stress/dehydration
 - o Tying up/muscle cramps



Basic Principles

- An ounce of prevention is worth a pound of cure Know the trail conditions, including availability of water

 - o Be appropriately fit (horse and human) and trained
 - o Keep your equipment in good working order
 - o Be cautious in extreme weather
 - o Ride with a buddy when possible
- Don't panic
- First aid is just that. It is not a substitute for veterinary attention.
- Wear a helmet
 - o You can't help your horse if you are incapacitated
- Take a cell phone. Make sure it is charged. Attach it to you, not your horse.
- Carry identification
 - o On you
 - o On your horse

First Aid Kits

- " Short trail ride (1-2 hours around the neighborhood)
 - o Human first aid kit (pill vial survival kit)
 - Wrap pill vial with cord and/or duct tape
 - " 2-3 Band Aids
 - Small tube/straw of antibiotic ointment
 - " Alcohol wipe
 - " Pain reliever such as Advil or Tylenol
 - " Antihistamine such as Benadryl
 - o Equine first aid kit
 - " Hoof pick
 - " Sharp pocket knife or multi-tool
 - " Wire cutter
 - " Vet wrap
 - " Maxi pad or disposable diaper
 - " Two 6-inch pieces of hose



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First Aid Kits

- " Longer ride (several hours)
 - o Human first aid kit
 - o Equine first aid kit
 - " Hoof pick
 - " Sharp pocket knife or multi-tool
 - " Wire cutter
 - " Thermometer
 - " Vet wrap
 - " Maxi pad or disposable diaper
 - " Two 6-inch pieces of hose
 - "Space blanket (desensitize to this before you leave home)
 - " Instant cold pack
 - " Flashlight
 - " Easy Boot or other hoof boot
 - " Sponge or miracle towel
 - " Insect repellent roll-on or wipes

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First Aid Kits

In the horse trailer

- o Clean drinking water
- o Electrolytes (paste or powder)
 - Should not be used if horse is not drinking
 - " If offered in water, offer unadulterated water as well
- o Stethoscope
- o Thermometer
- Scissors
- o Bandage material
 - Sheet cotton, brown gauze, vetrap, elastikon
 - "Standing bandage (no-bow or pillow wrap, standing wrap or flannel)
 - " Polo wrap
 - o Can hold a dressing in place but not good for support
- o Eye wash
- o Sterile non-stick pads
- o Gauze squares or pound cotton
- o Surgical scrub (Nolvasan or Betadine)
- Cooler/anti-sweat sheet/blanket
- o Duct tape

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What About Prescription Drugs?



Banamine

- o Non-steroidal anti-inflammatory drug
- Fever reducer, pain reliever, antiendotoxin, anti-spasmodic
- o Use:
 - " Colic
 - " Musculoskeletal pain/inflammation
 - " Fever
- o Potential side effects
 - " Stomach ulcers
 - " Kidney damage
 - Clostridial abscesses if given intramuscularly
- o If used, take vital signs first
- If veterinary attention is available within an hour, do not give Banamine prior to the vet visit

What About Prescription Drugs? Phenylbutazone o Non-steroidal anti-inflammatory drug o Fever reducer, pain reliever " Musculoskeletal pain/inflammation " Fever o Potential side effects Stomach ulcers " Kidney damage " Severe tissue damage if injected outside a blood vessel. o If used, take vital signs first o Do not use multiple NSAIDs together or in combination with corticosteroids Do not share prescription medication with other people.

What About Prescription Drugs?

- " Antibiotics
 - o Antibiotics will be prescribed by your veterinarian if indicated
 - o It is not necessary to keep antibiotics "on hand" in a first aid kit.
- "Why can't I get prescription drugs?
 - Legally, drugs must be prescribed for a particular animal for a particular condition
 - " "Just in case" does not qualify
 - Drugs cannot be prescribed for an animal without a current active relationship with a veterinarian
 - " Minimum requirement is a physical examination within the last year.

Colic on the Trail

- " Signs may be mild/non-specific
 - Decreased energy
 - Looking at sides
 - o Pawing, kicking at belly
 - o May want to stop, roll
- " What to do
 - o Dismount
 - Loosen cinch
 - o Try to prevent rolling
 - o Take vital signs if possible
 - o Call veterinarian
 - o Get back to civilization as soon as possible.



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Colic

" What about Banamine?

- o Oral administration.
 - Effect in approximately 1 hour, but may be prolonged in colic cases due to altered gut motility
- o IM administration
 - " Action in 20-30 minutes
 - " Risk of severe muscle abscessation
- o IV administration
 - " Action in approx. 15 minutes
 - " Risk of intra-carotid injection
- o Take vital signs FIRST
- o Do not give if your horse is dehydrated
- o If you have a vet on the way, just wait
 - "Vet will assess the horse and give Banamine IV if it is indicated
 - " Rapid onset
 - " No risk of muscle abscesses

Lacerations

- Wounds can be tears or punctures
- " Concerns
 - o Blood loss
 - Contamination/infection
 - For penetrating wounds, contact with important anatomical structures such as tendon sheaths, joints, internal organs can be complicating factors.
- " What should I do?
 - Stop bleeding
 - " Direct pressure
 - " Tourniquet for arterial bleeds



Lacerations

- " What should I do?
 - o Prevent contamination
 - " Flush with clean water +/- antibacterial solution such as Betadine
 - Apply antibacterial ointment
 - " Cover with bandage if possible
 - Prevent further injury
 - " Penetrating foreign bodies: often best to leave in place unless it will cause further damage
 - Nails in hooves (at home, should be left in place until radiographs can be taken)
 - o Near joints or other high motion areas
 - o Return to civilization as soon as possible
 - Seek veterinary attention
 - If it is not safe to move the horse, send or call for help to come to your location.

Snake Bite

- Southern Pacific Rattlesnake
- "Bites usually occur on the nose or legs
- " Prevention
 - o Be aware
 - o Try to stay on cleared trails
- " What do I do?
 - o Clean bite site with antibacterial scrub
 - If nostrils begin to swell, place short lengths of hose in nostrils to preserve breathing ability
 - Hospitalization for IV fluids, anti-inflammatories, antibiotics, nutritional support, tracheostomy recommended ASAP.
 - " Haul directly to hospital
 - " Local vet can evaluate and stabilize

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Heat Stress/Dehydration

Signs

- Lethargy
- o Reluctance to move
- High heart and respiratory rates that do not return to normal within 10-15 minutes of stopping exercise.
 - " "Inversion:" respiratory rate higher than heart rate
 - " Flared nostrils
- o Abnormal heart rhythm possible
- o High body temperature (>103.5)
- o Dark gums, may be tacky
- o Signs of dehydration (skin tenting, sunken eyes, tacky gums)
- Sweating may be profuse or suddenly stop

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Heat Stress/Dehydration

" Risk factors

- Hot weather, particularly along with high humidity
- o Poor conditioning ("weekend warrior")
- Excessive weight/obesity
- o Heavy coat
 - " Indian summer
 - " Warm snap mid-winter
 - " Cushing's disease
- Conformation
 - " Heavily muscled horses (draft, draft cross, "bulldog" quarter horse)
 - Don't efficiently dissipate heat (surface area to volume ratio)
 - Large muscle masses generate a lot of heat
- Medical conditions
 - " Respiratory disease
 - " Cushing's disease
 - " Anhidrosis (inability to sweat)



Heat Stress/Dehydration

" What should I do?

- Stop exercise
- o Strip tack
- o Seek shade and air circulation
- o Take vital signs (this will help you monitor your progress)
- o If available, apply cool (but not ice) water
 - " Best: rinse the body, scrape the water, repeat
 - " If water is limited, apply to groin, inside hind legs, behind elbows, under neck, top of head/behind ears
- Short walks to keep blood circulating
- o Offer drinking water
- Monitor vital signs every 5 minutes
 - " If not improving within 15 minutes or
 - " If temperature approaches 106, call for veterinary assistance to your location.

Heat Stress/Dehydration



What to do

- o Monitor vitals every 5 minutes
 - " Heart rate <60 beats per minute
 - Respiratory rate <60 breaths per minute</p>
 - " Body temperature <103
- Slowly walk (do not ride) back to civilization
 - " Check vitals after 5 and 15 minutes for relapse
- o Offer drinking water
- o Give electrolytes if drinking
 - " Paste
- " Powder in water or feed
 - Offer plain water as well
- o Pursue veterinary attention

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Muscle Cramps/Tying Up

Signs

- o Reluctance to move
- o Hard muscles, especially noticeable in haunches
- o Cramping muscles
- o May see discolored urine
- High heart and respiratory rates
 - " Pain
 - " Electrolyte abnormalities
 - " Heat stress

" What do I do?

- o Dismount
- Loosen cinch
- o Do not force exercise
 - " This can cause further muscle damage

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Muscle Cramps/Tying Up

- " What do I do?
 - o Keep muscles warm (cold days)
 - " Space blanket
 - " Saddle blanket over large muscle groups
 - " Your jacket
 - Massage large muscle groups
 - " Haunches
 - " Back
 - " Shoulders
 - " Neck
 - Monitor vital signs
 - Monitor for discolored urine
 - " Myoglobin from damaged muscles is excreted through the kidneys and can cause kidney damage

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Muscle Cramps/Tying Up

- " What do I do?
 - o When comfortable, slowly lead back to civilization
 - Seek veterinary attention
- " What about drugs?
 - o NSAIDs such as Banamine and bute can exacerbate kidney damage
 - o Muscle relaxants may make your horse unsafe to navigate the trail
 - o Acepromazine may cause a drop in blood pressure
 - Your veterinarian will evaluate your horse and prescribe appropriate drugs.
- "Blood work and a search for the underlying cause of the episode is recommended.
 - Check organ function
 - o Multiple potential causes for muscle cramping (HYPP, PSSM, RER, etc.)

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