



K9 Casualty Care

Converting Your TEMS Skills to K9s

Pilot Edition · prepared for Los Angeles Fire Department · 12 August 2026



Closest Emergency Vet for Today

MASH - Metropolitan Animal Specialty Hospital
Board-certified specialists plus emergency clinicians

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mash.vet

Vet ER CA - Los Angeles -
Metropolitan Animal
Specialty Hospital (MASH)



#TheDogISMyHomework



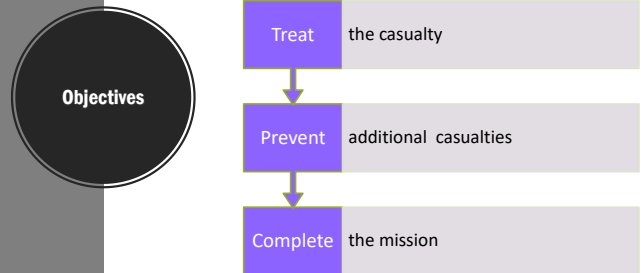
- #MakingADifference #ForDogsSake
- Send evidence of any homework assignment to any of the following:
 - Woof@K9MEDIC
 - Post to FaceBook and tag #K9MEDIC
 - Text to Jo: 805-758-4859
- Jo sends free stuff (currently sending t-shirts)
 - Note: not a formal legal 'contest' or 'draw'

Tactical Context

- Incoming fire
- Darkness/limited visibility
- Environmental factors
- Casualty transportation problems
- Delays to definitive care
- Command decisions



After Securing the Scene:



TCCC/TECC - Timing and Sequencing is Everything

GOOD MEDICINE CAN SOMETIMES BE BAD TACTICS.

*The Right Things To Do
AND
The Right Time to Do Them*

...focusing on the most Preventable Causes of Death



3 Phases of Care



PHASE 1:

"Care Under Fire" /
"Direct Threat Care"

90% Tactics
+ 10% Medicine



PHASE 2:

"Tactical Field Care" /
"Indirect Threat Care"

50% Tactics
+ 50% Medicine



PHASE 3:

"TacEvac" /
"Evacuation"

90% Medicine
+ 10% Tactics



MMMARCHHH ASSESSMENTS

K9 CASUALTY CARE



PHASE 1

"Care Under Fire" / "Direct Threat Care"

MMM

K9 CASUALTY CARE



- M** - MOVE / Recall
M - MUZZLE - Hasty
M - MASSIVE HEMORRHAGE - Hasty

K9 CASUALTY CARE



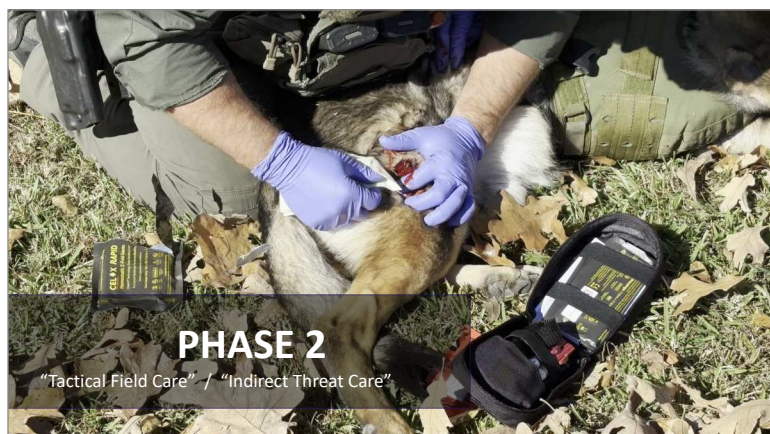
MOVE / Recall



MUZZLE Hasty



MASSIVE HEMORRHAGE Hasty



PHASE 2

"Tactical Field Care" / "Indirect Threat Care"

MOVE



MUZZLE



MASSIVE HEMORRHAGE



Upgraded to
 Improved,
 Direct Action
 Baskerville, MEDs



FULL >>>



Massive Hemorrhage: Blood Sweep



- Active bleeding is not always obvious!
 - Fur
 - Ground cover may absorb blood
- Perform hands-on 360 degree Blood sweep against the fur
 - Limbs: *Sweep, Pits, Check*
 - Tail: *Sweep, Base, check*
 - Body: *Against Fur*
 - Head:



Massive Hemorrhage: Blood Sweep — K9 MEDIC Best Practices

- *Fast and Flat hands*
- *Position of Comfort for Dog*

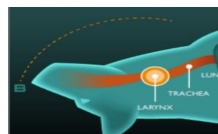
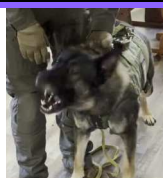
Simon Says
Practice
 All together
 Step by Step

Against fur:

- Limbs: *Sweep, Pits, Check*
- Tail: *Sweep, Base Check*
- Body: Divide into sections moving from tail to head
- Head: Quick bleeding inspection (neuro later)



Airway



- Barking or whining confirms airway
- IF Unconscious
 Head into the inline position
Nose – Ears – Spine: All in a line
- Consider intubation / SX airways
 (based on scope)



Respirations: Respiratory Rake — K9 MEDIC® Best Practices

- Respiratory Rake — finding holes in chest
 - Relevant holes can be small
 - Fingers pressed tight together, bent, perpendicular
 - Scratching/scraping/raking against fur to identify small hole in fur
 - Upper chest to groin area
- Why?
 - Tension Pneumothorax



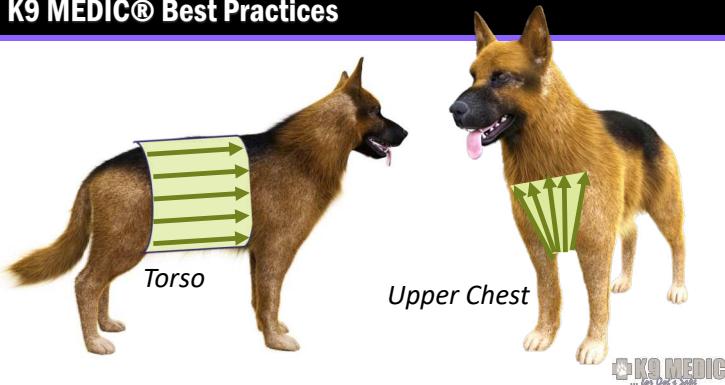
Respirations: Respiratory Rake — K9 MEDIC® Best Practices

- **Hand Positions:**
 - Bent nails, catch on pant seam for feel

Try It
Now



Respirations: Respiratory Rake — K9 MEDIC® Best Practices



Respirations: Respiratory Rake — K9 MEDIC® Best Practices

- On Stuffle in Position of Comfort
- Barrel: Parallel to Spine
- Chest Plate: Vertical Stripes Up, from pit to pit

Simon Says
Practice
All together
Step by Step



Circulation: ReCheck Wounds, Check Pulse



1. ReCheck Wound Management
2. Check Pulse to determine fluid admin
 - Femoral Pulse Check
 - Easiest to find
 - Determines fluid administration
 - If Weak/Absent Pulse
 - Then, consider fluid administration
 - Until femoral pulse returns



Head Injuries



- Mechanism of Injury?
- Assess
 - LOC / Behavior
 - Eyes PERLA
 - Fluid in Ears/Nose



Hyperthermia



- Can co-exist with trauma related injuries
- Rule out heat injury BEFORE actively warming patient
- Be cautious of muzzle use on any K9 with heat panting
- No need to temp in this phase
 - Situation
 - Handler reporting
 - Panting and behaviour presentation



Hypothermia

- Common with:
 - Massive Hemorrhage
 - Shock
 - Environmental Exposure
 - IV Fluid Resuscitation



- Shock patients will start to match ambient temp

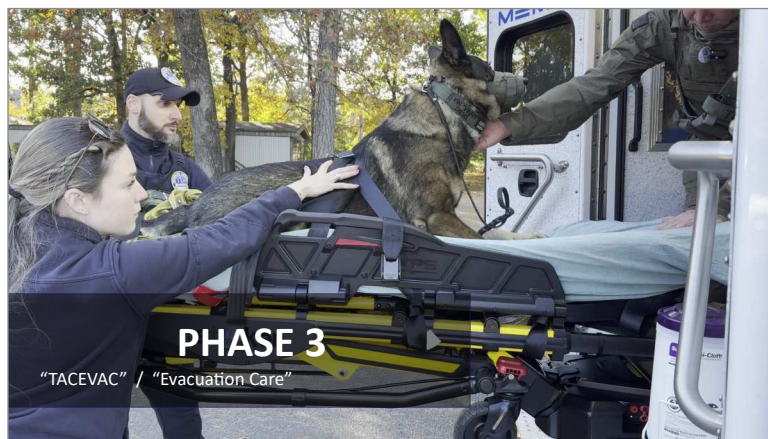


Hypothermia Prevention

• **ACTIVELY WARM** to
PREVENT Hypothermia
BEFORE it occurs



- ✓ Keep off cold surfaces
- ✓ Wrap (Burrito) vs Cover
- ✓ ADD heat sources



PHASE 3: Tac Evac / Evac



You're Not Home Yet...

- Full Vitals
- Full Head to Tail
- Full Intervention



MMMARCHHH - Overview



PHASE 1: Care Under Fire / Direct Threat Care:

- **MOVE!**
- **Muzzle:** Hasty version
- **Massive Hemorrhage:** Hasty version



PHASE 2: Tactical Field Care / Indirect Threat Care

- **Muzzle:** Full muzzle or improvised leash/gauze/etc or **Med** for Chemical Restraint
- **Massive Hemorrhage:** Peripheral Pressure Dressing and Hemostatic Agents
- **Airway:** Position Head / Intubation / Surgical
- **Respiration:** Chest Seal and Decompress Tension Pneumothorax
- **Circulation:** Recheck for major bleeds, Pulse Check
- **Head Injury:** Mechanism, LOC, Eyes/Ears/Nose
- **Heat Injury:** Rule Out
- **Hypothermia:** Prevent!



PHASE 3: Tac Evac / Evac

- Full Vitals
- Full Head to Tail
- Full Interventions



MMMARCHHH – Phase 2 Hands-on Practice

- Muzzle:** Full muzzle or improvised leash/gauze/etc or **Meds**
- Massive Hemorrhage:** Peripheral Pressure Dressing + Hemostatic Agents
- Airway:** Position Head / Intubation / Surgical
- Respiration:** Chest Seal, Decompress Tension Pneumo
- Circulation:** Recheck for major bleeds, Pulse Check
- Head Injury:** Mechanism, LOC, Eyes/Ears/Nose
- Heat Injury:** Rule Out
- Hypothermia:** Prevent!

*Simon Says
Practice
All together
Step by Step*

MMMARCHHH INTERVENTIONS

K9 CASUALTY CARE



M

MMARCHHH

– MASSIVE HEMORRHAGE

K9 CASUALTY CARE



**Always pair Massive Bleeding with
Muzzle Safe, Muzzle Check™**



**MUZZLE
/MED**



**MASSIVE
BLEEDING**



Massive Hemorrhage

- Any active bleeding with large quantity at fast rate
- Some wounds are scary, but not much bleeding
- Not Sure?
 - Better to assume bleeding is a life threat than to ignore



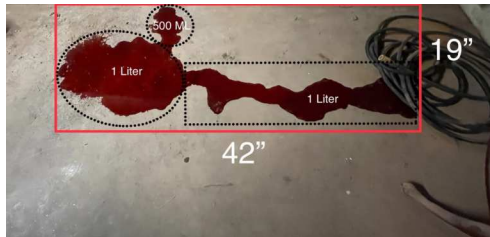
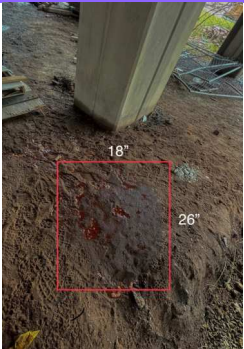
Massive Hemorrhage



- Average 60lb K9 = 2.5L of blood
 - ~80-90mL/kg of blood (same as pediatric)



Massive Hemorrhage: Realistic Environments



REAL CASE

K9 Enzo, LVMPD Las Vegas, NV: Mar 29, 2024

SITUATION

- Belgian Malinois, ~3 yrs old, 1 year on the job.
- Stabbed repeatedly by barricaded subject just bitten

Pre-Hospital

- Hands-on, pressure dressing, IV
- Rushed to a nearby veterinary hospital, then flown by the LVMPD air unit to veterinary trauma hospital.

In-Hospital

- Surgery and ICU overnight.
- Transfused with donor blood from Las Vegas Animal Blood Bank.
- Delayed crash on ~day 2: further transfusions

OUTCOME:

- Back on duty mid-July 2024 — about 5 months.
- No lasting effects;
- 3 apprehensions in his first weeks back!



Photos: LVMPD via FOX5 Vegas · Sources: LVMPD press release 03/29/2024, 8 News Now (KLAS)



REAL CASE

K9 Enzo, LVMPD Las Vegas, NV: Mar 29, 2024



Photos: LVMPD via FOX5 Vegas · Sources: LVMPD press release 03/29/2024, 8 News Now (KLAS)



Massive Hemorrhage – Assessment Reminder



Perform hands-on 360 degree Blood sweep against fur:

- Limbs: *Sweep-Pit-Check*
- Tail: *Sweep-Base-Check*
- Body: *Against Fur*
- Head: *Quick Check*



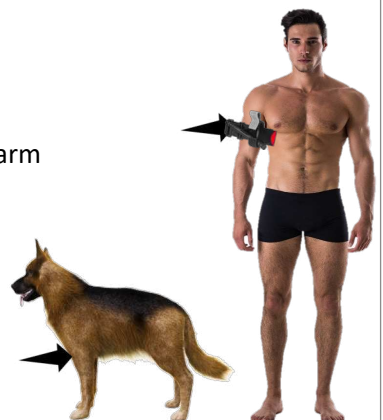
Massive Hemorrhage: What tools? When? Who?



Let's consider...

... a K9 Handler was shot in arm
What would we use?

But if a K9 was shot in the
same relative location??



5 Human vs K9 Differences

1. Small Diameter Limb

- like pediatric
- direct pressure often works

2. Cross-section shape:

- elliptical  vs circular 
- direct pressure often works

3. Cone vs cylinder Limb:

- more difficult to secure in place



5 Human vs K9 Differences

4. Fur:

- reduces friction

5. Increased Skin Mobility

- bandages shift



Circulation: Tourniquets (TQs) for K9?

• “CATs DON’T Work on Dogs”

- Nothing with windlass (hard stick)

• That’s OK because Dogs don’t NEED TQs

- Janice Baker research
- Differences described

• Hemostatic Agents + Pressure Dressings = BEST Option



K9 MEDIC
...for dogs & cats

Anyone not convinced about using hemostatic agents?

K9 MEDIC
...for dogs & cats

But Wait.... I thought Direct Pressure Worked? Do I need to use Hemostatic Agents too?



- Yes, direct pressure **may** be effective for K9 wounds...
- SF Medics learn to stop human bleeding with plain gauze But they still they carry hemostatic agents. Because it's the **Best Care!**

• ForDogsSake.... Spend the extra \$35 bucks for your dog ...and it's backup for you too.

K9 MEDIC
...for dogs & cats

But What about amputations?

- Use Other Tourniquets ONLY if Complete Amputation “stump”
- Then, 1st choice
- But still nothing with a windlass
- Fortunately, often bleed less than intact wounds
- Which TQ?



Photo with permission: #CriticalCareVeterinarian

K9 MEDIC
...for dogs & cats

SWAT-T

Stretch-Wrap-And-Tuck – aka “Multi-TOOL”



- ✓ Small and lightweight
- ✓ Multi-species
- ✓ Multi-purpose
- × More difficult to use
- × Slick surface when wet
- △ Not recommended for primary human adult TQ

K9 MEDIC
...for dogs & cats

SWAT-T

Stretch-Wrap-And-Tuck – aka “Multi-TOOL”

SWAT-T as Tourniquet

- K9 Amputation Only
- Above the Wound
- Full Tension
- Stop the Bleed

SWAT-T as Pressure Dressing

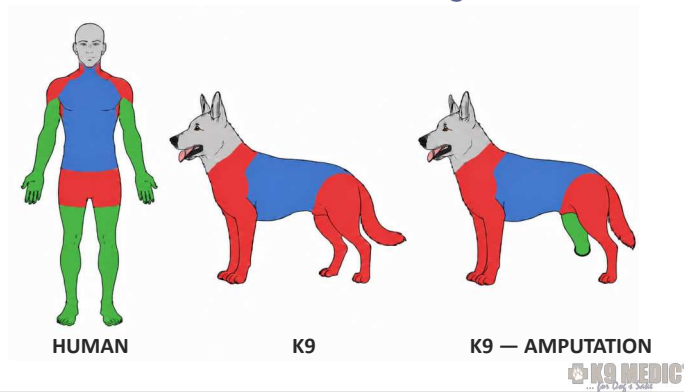
- Intact Limbs
- Over wound packing
- Moderate Tension
- Maintain the packing

ToDo SWAT-T pressure dressing and amputation pics

K9 MEDIC
...for dogs & cats

Treatment Zones

● PACK ● TQ ● SEAL



Massive Hemorrhage: Hemostatic Agents

- Impregnated with chemical to promote clotting
- AVOID most granular “sawdust” forms
 - Older versions
 - Veterinary toe-nail products
- Approved list includes:
 - QuikClot Combat Gauze
 - Chitogauze
 - Celox
 - X-Stat



Massive Hemorrhage: K9 MEDIC Favorite — Celox Rapid

- Fastest working
 - Just **1min** compared to **3min** pressure hold
- Most widely effective
 - Chitosan
 - Works outside clotting cascade
 - ☒ Hypothermia
 - ☒ Blood thinning products



Massive Hemorrhage: Wound Packing — Best Practices Update

Goal: hemostatic agent directly to source and secured

- Not getting to source:
 - Take time to scoop, watch for source, pooling direction, otherwise may be ineffective
- “Powerball” (ie knot at beginning)?
 - No: two hands, takes time, does not increase efficacy if it was better, it would come that way
- “Over the shoulder” (or pocket)?
 - No: less control, wet environment may preactive agent, does not increase speed



Massive Hemorrhage: Wound Packing — Best Practices Update

- Large packing loops?
 - No: does not control bleed effectively, nor faster
- Not waiting for X minutes
 - Essential to confirm bleeding has stopped, otherwise patient is still bleeding out
- Not removing and replacing with new hemostatic gauze if bleeding is not stopped
 - If bleeding continues, most likely user error (see above), try again.
 - Hemostatic to source is highly effective



Massive Hemorrhage: X-Stat 12 and 30 Hemostatic Agent



Video Notes

- Contra-indicated for areas “Not amenable to tourniquets”
- But... for dogs, no area IS amenable to tourniquets, so consider use for areas such as the outer thigh which is otherwise very difficult



Massive Hemorrhage: TXA – Tranexamic Acid

Antifibrinolytic agent: blocks breakdown of blood clots, which prevents bleeding

INDICATIONS

- Hemorrhagic shock
- Head injury

DOSE:

- 0.5 gram slow IV push
- ASAP but NOT later than 3 hours after injury



Massive Hemorrhage: EMS Summary

✓ SAME

- Hemostatic Agents
- X-Stat
- TXA
- Blood is Better
- Low Volume Resuscitation until Femoral Pulse returns

!! DIFFERENT

- Muzzle in Place
- No Windlass TQs
- TQs: Amputations Only
- Otherwise: hemostatic and pressure dressing
- One-time Universal Recipient
- Dose: 250mL Crystalloids



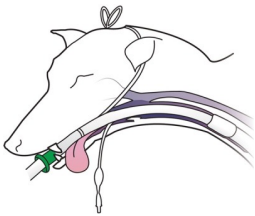
MMMARCHHH

A – AIRWAY

K9 CASUALTY CARE



Airway: K9 Endotracheal Intubation



Airway: Intubation

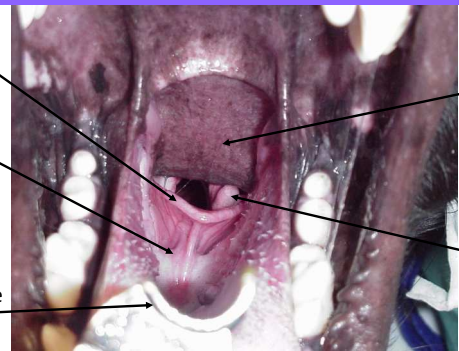
Epiglottis

Base of tongue

Laryngoscope

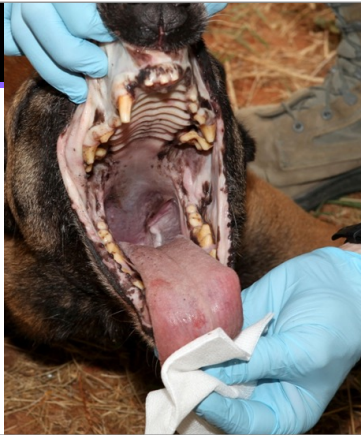
Soft palate

arytenoid cartilage



Airway: Intubation

- Must be unconscious or anaesthetized
- Sternal or lateral positioning
- Size 10-12mm for 30 kg (~65lb) +



Airway: Surgical Airways

Cricothyrotomy

- Faster
- Less complications
- K9-TECC preferred method

Tracheostomy

- K9-TCCC accepted method

- Note: Cric-Kit balloon is too small to seal in K9 airway



Airway: Other Devices

Don't Use

- NPAs:
 - Not enough space due to turbinates
- iGels, King LTs,
 - Not large enough to seal K9 larger airway



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R – RESPIRATORY

K9 CASUALTY CARE



Respirations: Tension Pneumothorax

- **DIFFERENCES:**
 - Fur
 - Fenestrated Mediastinum
 - Patient Communication / Responder Safety
- **AGENDA**
 - Signs and Symptoms
 - Respiratory Rake
 - Needle decompression indication and technique



Respirations: Tension Pneumothorax — Assessments

- Progressive respiratory distress
 - Fast, shallow, increased effort, absent lung sounds
 - Tripod position
- Increasing Hypoxia and decreasing circulation
 - Pale/blue mucous membranes
 - Slow cap refill
 - Increased heart/pulse rate
- Overall Distress



Respirations: Respiratory Rake — K9 MEDIC® Best Practices

- Respiratory Rake
 - Fingers pressed tight together, bent, perpendicular
 - Scratching/scraping/raking against fur to identify small hole in fur
 - Upper chest to groin area
- Why?
 - Tension Pneumothorax



Respirations: Open Chest Wounds – Vented Chest Seal

- Convert all “Open” chest wounds to “Closed”
- TCCC/TECC principles recommend Vented Seal
- K9 MEDIC® recommends any centrally located vent for K9s
- Clip hair “if possible” or part hair
- Dog Skin may move to cover wound
- Check for additional chest wounds



Respirations: Open Chest Wound – Improved Seal



Respirations: Tension Pneumo — Needle Decompression

- Objective: Release abnormal collection of air
 - ↑ Circulation: removes pressure on heart and vessels
 - ↑ Respiration: removes pressure on lungs
- Formal Landmark:
 - 7th – 9th intercostal space
- K9 MEDIC® preferred technique
 - TensionX™



Dog Differences

K9 MEDIC® Guidance

- Decompression **only once dog passes out**
- Can't tell dog to 'stay still', dangerous if moving
- Decompress with catheter **AND** needle
 - Dog skin moves (due to subcutaneous space) and will kink catheter
- **After decompression:**
 - Remove needle, leave catheter in place (if multiple available)
 - Catheter may kink, but may allow further air and serves as documentation

*"Monitor for Distress...
Monitor for Collapse...
... THEN Decompress"*



Respirations: Penetrating Chest Wound

✗ Do NOT remove object

✓ Secure BUFF Around it
vs Securing the actual object:

- Big
- Ugly
- Fat
- Fluffy

➡ Air-tight seal around it



Photo Credit: DOD MWDS



Respirations: Penetrating Chest Wound

✗ Do NOT remove object

✓ Secure BUFF Around it
vs Securing the actual object:

- Big
- Ugly
- Fat
- Fluffy

➡ Form an air-tight seal around it if possible



MMMARCHHH

C – CIRCULATION

K9 CASUALTY CARE



Circulation: Fluid Choices for Blood Loss



BEST CASE:
Replace what's lost with blood products

1. Know your Veterinary Hospitals
2. Bring a Walking Dog Donor
 - Best Practice: know your dog's blood type
 - ALL dogs are **Universal Recipient** for ONE event 🙌



Circulation: Fluid Choices for Blood Loss

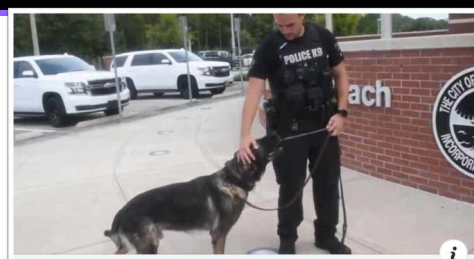
“

He (K9 Ali's Handler) *escorted me* once I hit Daytona *all the way* to the vet.

And when he got there, *they needed blood*, and he was there with his dog and *volunteered the dog*, and immediately gave a blood transfusion for surgery.

”

K9 Ax's Handler, AJ Davis



FOX35ORLANDO.COM

Daytona Beach K-9 donates blood to fellow police dog shot while on duty



Circulation: Fluid Choices — Crystalloids (if blood not available/applicable)

Follow your current human protocols/products:

- Normal Saline
- Lactated Ringers
- Plasma-Lyte

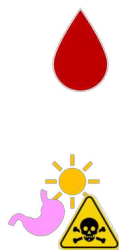


Circulation: Fluid Choices — Crystalloids (if blood not available/applicable)

FLUIDS QUICK GUIDE for 60lb K9:

Bleeding: Low volume
250mL 5mL/lb (10mL/kg)

Everything Else
500mL 10mL/lb (20mL/kg)



Circulation Skills: IV/IO positions



Circulation Skills: Dog Differences

- Fur and thicker skin
- Mobility of fur over SubQ space hold skin taught
- Tendency to chew/paw at catheters
- Risk of being bit
- Biggest differences will be
 - Restraint
 - IV Taping
 1. Tab
 2. Notch
 3. Criss Cross
 4. Cover



Circulation Skills: IV Landmarks

- Forelimb
- Cephalic
 - Required for GDV

- Hindlimb
- Lateral Saphenous



Circulation: IO Landmarks

GREATER TUBERCLE
of the proximal humerus

Proximal Tibia



Circulation: EZ IO Needle Lengths

Needle		
PD (Pediatric)	15mm - Pink	Proximal tibia only — small dog or thin tissue
AD (Adult)	25mm - Blue	DEFAULT — humeral head or tibia
LD (Large Adult)	45mm - Yellow	Humeral head on a large or heavily muscled dog



Circulation: TXA – Tranexamic Acid

Antifibrinolytic agent: blocks breakdown of blood clots, which prevents bleeding

INDICATIONS

- Hemorrhagic shock
(internal or external bleeding)
- Head injury

DOSE:

- 0.5 gram slow IV push
- ASAP but NOT later than 3 hours after injury



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H – HEAD INJURIES

K9 CASUALTY CARE



Head Injuries

- Mechanism of Injury?

- Assess
 - LOC
 - Fluid in Ears/Nose
 - Eyes PERLA

- Consider
 - Transport at 30% slope



*"For Head Injuries,
Keep the Head High"*



MMMARCHH

H – HEAT INJURIES

K9 CASUALTY CARE



Hyperthermia



- Can co-exist with trauma related injuries
- Rule out heat injury
BEFORE actively warming patient
- Be cautious of muzzle use
on any K9 with heat panting
- No need to temp in this phase
 - Situation
 - Handler reporting
 - Panting and behaviour presentation



Heat: Leading cause of preventable death

HEAT STROKE

Leading Cause of Preventable Death
50% Mortality Rate

PREVENTION

is How you Win this Game



Heat: Emergency Cooling

You **CAN'T** Cool a Dog Too **FAST**

But...

You **CAN** Cool a Dog Too **FAR**

Temp at least every 3-5min

And

Stop active cooling at 103°F/40°C



MMMARCHH

H

- HYPOTHERMIA PREVENTION

K9 CASUALTY CARE



Hypothermia

• Common with:

- Massive Hemorrhage
- Shock
- Environmental Exposure
- IV Fluid Resuscitation



- Shock patients will start to match ambient temp



Hypothermia: Importance...

EMS Reminder...

A review of transfusion- And trauma-induced hypocalcemia: Is it time to change the lethal triad to the lethal diamond?
*December 2019
*Journal of Trauma and Acute Care Surgery 88(3):1
DOI:10.1097/TA.00000000000002570



Hypothermia Prevention

- **ACTIVELY WARM** to PREVENT Hypothermia **BEFORE** it occurs



- ✓ Keep off cold surfaces
- ✓ Wrap (Burrito) vs Cover
- ✓ ADD heat sources



Hypothermia: Tools

- Emergency/Blizzard Blanket
- Thermal Angel
- IV Fluid Warmer
- Hypothermia Prevention Management Kit HPMK
- Hand warmers
- Warm water bottles



K9 Hati Photo with permission: Project K9 MED



PHASE 3

"TACEVAC" / "Evacuation Care"

TacEvac: Transportation

Best Transportation

- Handler vehicle
- Ambulance
- Helicopter



It depends...

- Shortest ETA
- Interior Space
- Scope of care



Consider

- Traffic control
- Escorts
- LZ if applicable



TacEvac: Destination

Know before you go

- Hours
 - 24 Hr - Fully staffed
- Capabilities
 - Surgeon, Blood products, Specialty
 - Anti-venom?
- Payment Pre-arranged
 - How much?
 - For what?
- Arrival
 - Call ahead
 - Where



Ethos Specialty Hospital Sorento CA, Accredited VetCOT Trauma Center



REAL CASE

K9 Huk, JSO

Jacksonville, FL: Jul 22, 2022

SITUATION

- Shot 3 times going after armed suspects after a pursuit/crash.
- Wounds to neck and limbs.

Pre-Hospital

- Flown across Duval County to First Coast Veterinary Specialists.

In-Hospital

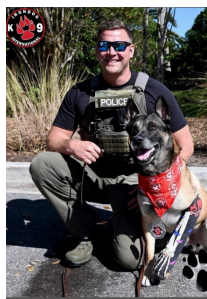
- 5 major surgeries, 50+ procedures, hyperbaric O2 therapy, PT.
- 30 Mar 2023: left front leg amputated.

OUTCOME:

- Retired to live with his handler, Officer Plaughter.
- Awarded a Purple Heart



Recovery supported by IronDog K9 International



Class Follow-Up

- **EVALUATIONS** Tell us what to improve what to keep.
- **HOMEWORK** Do the work and let us know about it.
- **YOUR CERTIFICATE** Issued through the Online Academy tonight.

K9 MACHO

K9 CASUALTY CARE



KEEP GOING

- **Host a Class** We Come to You
- **3-Day Full Class** 3-Day Handler Course. Spring and Fall
- **Trainer Academy** Train your own agency or HQ Instructor
- **GEAR** Handler / EMS kits, Mannikans and supplies
- **Consulting** VEMS, Protocol, Product Eval/Dev
- **SOCIAL** Keep in touch!

K9 MACHO

DogDesk@K9MEDIC.com · 1-855-4K9-MEDIC · K9MEDIC.com



K9 Casualty Care

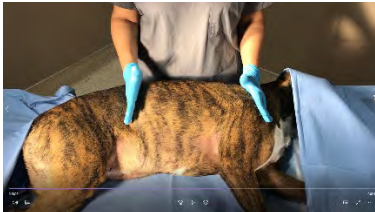
Converting Your TEMS Skills to K9s

1. Indications:

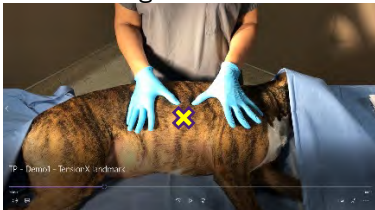
- a. Penetrating trauma to torso
- b. Major Respiratory Distress leading to collapse

2. Starting Position

- a. Dog lateral recumbent
- b. Responder against patient's spine

3. "Slide out" to "Parallel":

- a. Cranial aspect of shoulder
- b. Caudal aspect of ribs (at spine)

4. "eXtend" together:

- a. 'X' is middle (dividing ribs in half)

5. Move back one rib:

- a. .

6. Position to top 1/3 of rib, also highest/widest point of ribcage**7. "Bevel to back/dorsal/'me'", inserted perpendicular, sliding off rib cranially:****8. Angle Ventrally:****9. Wait for air to release.****10. Remove entire catheter including needle****11. If patient does not respond immediately, flip dog over and repeat on other side.****12. Reassess patient and repeat entire process if needed**

Small Animal Coma Scale

Motor activity	Time:	Time:	Time:	Time:	Time:
Normal gait, normal spinal reflexes	6				
Hemiparesis, tetraparesis, or decerebrate activity	5				
Recumbent, intermittent extensor rigidity	4				
Recumbent, intermittent extensor rigidity with opisthotonus	3				
Recumbent, constant extensor rigidity with opisthotonus	2				
Recumbent, hypotonia of muscles, depressed or absent spinal reflexes	1				
Brain stem reflexes					
Normal pupillary light reflexes and oculocephalic reflexes	6				
Slow pupillary light reflexes and normal to reduced oculocephalic reflexes	5				
Bilateral unresponsive miosis with normal to reduced oculocephalic reflexes	4				
Pinpoint pupils with reduced or absent oculocephalic reflexes	3				
Unilateral, unresponsive mydriasis with reduced or absent oculocephalic reflexes	2				
Bilateral, unresponsive mydriasis with reduced or absent oculocephalic reflexes	1				
Level of consciousness					
Occasional periods of alertness and responsive to environment	6				
Depression or delirium, capable of responding to environment but response may be inapp	5				
Stupor, responsive to visual stimuli	4				
Stupor, responsive to auditory stimuli	3				
Stupor, responsive only to repeated noxious stimuli	2				
Coma, unresponsive to repeated noxious stimuli	1				
TOTAL SCORE					
List current medications that may affect examination (e.g., opioids, sedatives, antidepressants, etc)					
Score interpretation:	3-8 Grave	9-14 Guarded	15-18 Good		

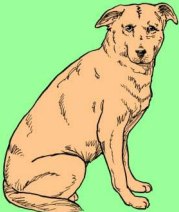
Date _____

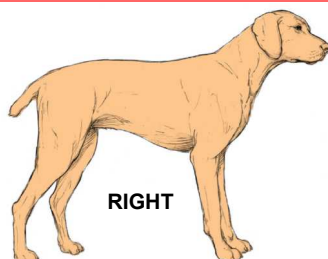
Time _____

Canine Acute Pain Scale

Rescore when awake

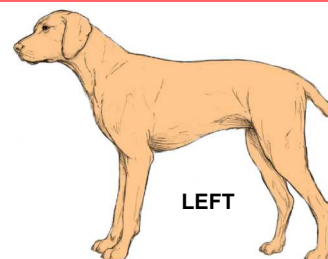
- ☐ Animal is sleeping, but can be aroused - Not evaluated for pain
☐ Animal can't be aroused, check vital signs, assess therapy

Pain Score	Example	Psychological & Behavioral	Response to Palpation	Body Tension
0		☐ Comfortable when resting ☐ Happy, content ☐ Not bothering wound or surgery site ☐ Interested in or curious about surroundings	☐ Nontender to palpation of wound or surgery site, or to palpation elsewhere	Minimal
1		☐ Content to slightly unsettled or restless ☐ Distracted easily by surroundings	☐ Reacts to palpation of wound, surgery site, or other body part by looking around, flinching, or whimpering	Mild
2		☐ Looks uncomfortable when resting ☐ May whimper or cry and may lick or rub wound or surgery site when unattended ☐ Droopy ears, worried facial expression (arched eye brows, darting eyes) ☐ Reluctant to respond when beckoned ☐ Not eager to interact with people or surroundings but will look around to see what is going on	☐ Flinches, whimpers cries, or guards/pulls away	Mild to Moderate Reassess analgesic plan
3		☐ Unsettled, crying, groaning, biting or chewing wound when unattended ☐ Guards or protects wound or surgery site by altering weight distribution (i.e., limping, shifting body position) ☐ May be unwilling to move all or part of body	☐ May be subtle (shifting eyes or increased respiratory rate) if dog is too painful to move or is stoic ☐ May be dramatic , such as a sharp cry, growl, bite or bite threat, and/or pulling away	Moderate Reassess analgesic plan
4		☐ Constantly groaning or screaming when unattended ☐ May bite or chew at wound, but unlikely to move ☐ Potentially unresponsive to surroundings ☐ Difficult to distract from pain	☐ Cries at non-painful palpation (may be experiencing allodynia, wind-up, or fearful that pain could be made worse) ☐ May react aggressively to palpation	Moderate to Severe May be rigid to avoid painful movement Reassess analgesic plan



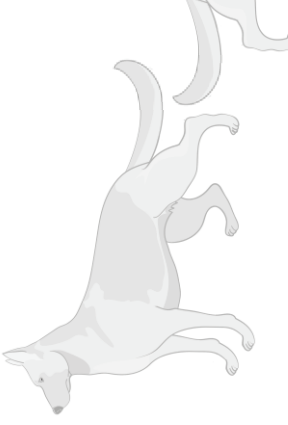
RIGHT

- Tender to palpation
 X Warm
 ■ Tense



LEFT

Comments _____

 K9 MEDIC™ <i>... for Dog & Sale</i>		K9 PATIENT CARD	
EVAC: ☐ CRITICAL ☐ URGENT ☐ ROUTINE ☐ HANDLER			
K9 NAME:	DATE:	TIME:	
GENDER: M/F (S/N/U)	AGE:	WEIGHT:	
ALLERGIES:			
HANDLER:		AGENCY:	
MECHANISM OF INJURY: (CHECK ALL THAT APPLY)			
☐ EXPLOSION ☐ GSW ☐ FALL ☐ VEHICLE ☐ PENETRATING			
☐ BLUNT ☐ BURN ☐ HEAT ☐ OTHER: (HEAD/LACERATION/ETC)			
		MARK INJURIES WITH X	
			
THIS 4x6 CARD ~ 1.5% BODY SURFACE AREA OF 65lb DOG			
TIME			
RESPONSIVENESS			
MUCOUS MEMBRANE			
CAP REFILL TIME			
PULSE/HEART RATE			
RESP RATE			
RESP QUALITY			
PULSE OX			
PAIN SCALE (1-10)			
TEMPERATURE			
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K9

PATIENT CARD

TREATMENT: (CHECK ALL THAT APPLY)

DRESSING:
☐HEMOSTATIC
☐PRESSURE
☐OTHER:

TURNIQUET:
☐EXTREMITY

AIRWAY:
☐INTACT
☐CRIC
☐ET-TUBE
☐XXT FBO

BREATHING:
☐O2
☐CHEST SEAL (V/UNV)
☐NEEDLE-D
☐CHEST TUBE

CIRCULATION:	NAME	VOLUME	ROUTE	TIME
FLUID / BLOOD				

MEDICATIONS	NAME	DOSE	ROUTE	TIME
ANALGESIC				
ANTIBIOTIC				
OTHER				

OTHER TX:

NOTES:

FIRST RESPONDER:

TEL:

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My Homework Assignments

1. _____ ☐
2. _____ ☐
3. _____ ☐
4. _____ ☐
5. _____ ☐
6. _____ ☐
7. _____ ☐
8. _____ ☐
9. _____ ☐
10. _____ ☐



Click-Reward:

We know that the only way to make a difference for your K9 is to ensure that you actually take action after you leave the class. So, to help keep you motivated, every once in a while, we choose someone who has done their homework and send them a free t-shirt or other cool SWAG! Take a picture of any of your homework assignments and either post them to our FB page or tag #K9MEDIC #Homework (or email us if you don't do the Social Media thing) to be included!