

SCENARIO GUIDEBOOK





INDEX

MEDICAL	Pages 5 – 27
Accidental Overdose, 2-year-old	
Seizure, Febrile, 15-month-old	
Seizure, Epilepsy, 4-year-old	
Diabetic, 15-year-old	
Abdominal Pain, 14-year-old	
Cardiac, 3-year-old	
Sepsis, 2-year-old	
Sepsis, PICC Line Infection, 15-year-old	
Sudden Infant Death Syndrome (SIDS), 5-month-old	
Code Blue, 3-year-old	24 – 25
Code Blue, 11-year-old	
RESPIRATORY	Pages 29 – 39
Asthma, 10-year-old	
Croup, 4-year-old	
Bronchitis, 9-year-old	
Epiglottitis, 6-year-old	
Tracheostomy, 2-year-old	
TRAUMA	Pages 41 – 60
Child Abuse, 2-year-old	
Motor Vehicle Crash, 4-year-old	
Near Drowning, 4-year-old	
Burns, Smoke Inhalation, 16-year-old	
Burns, Accidental Scalding, 3-year-old	
MV vs Pedestrian, 4-year-old	
Abdominal Injuries, 10-year-old	54 – 55
Gun Shot Wound, 14-year-old	
Hanging, Code Blue, 14-year-old	
Trauma Center Locations	60-61

INDEX, continued

COMMUNICATIONS	Pages 62 – 69
Language Barrier, 5-year-old EMSC EMS Communication Cards	
PEDIATRIC SAFE TRANSPORT	Pages 70 – 80
NASEMSO Safe Transport of Children by EMS: Interim Guidance Safe Transport, Uninjured/Not III Safe Transport, III/Injured but Requiring No Intensive Interventions/Mo Safe Transport, III/Injured Requiring Intensive Interventions/Monitoring Safe Transport, Requiring Spinal Immobilization or Supine Transport Safe Transport, Multiple Patients	73 – 74 nitoring 75 – 76 ;77 – 78 79

This project is/was supported by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) under grant number H33MC06726 Emergency Medical Services for Children. This information or content and conclusions are those of the author and should not be construed as the official position or policy of, nor should any endorsements be inferred by HRSA, HHS or the U.S. Government.

MEDICAL SCENARIOS



ACCIDENTAL OVERDOSE

Goals/Objectives:	Dispatch Information:	
 Scene safety 	A call was received from a frantic adult stat	
 Assess and secure airway 	was unresponsive on the bedroom floor. Patient is breathing, but not currently alert	
• Recognition and treatment for unresponsive state		
• Recognition of transport necessit		Additional Resources Requested:
	Unresponsive	Police and Fire Departments, ALS
Scene Description:		
	der gentleman waving at you from the porch	
•	Is are noted to be present. You are escorted to	
	ed floor with an older woman at her side. Wom	an identifies self as patient's grandma
 Patient was reportedly napping 		
Initial Impression: Patient is dress	ed appropriately for time of year. You notice a	pill bottle under the bed.
Vital Sign – Set 1	Physical Exam	HPI: Patient has been putting
AVPU: Unresponsive		everything in their mouth lately
B/P: 80/palpation	HEENT:	, , , , ,
HR: 70, regular	Head: No trauma noted	S/S: Unresponsive
Resp: 10, labored	Eyes: Sluggish and pinpoint	
O ₂ Sat: 90% (room air)	Ears: Unremarkable	Allergies: NKDA
Pain:	Nose: Unremarkable Oral Cavity: Lips noted to have white	Medications: Daily Vitamin
GCS : 3 (1,1,1)	substance on them. Half of a white pill is	
BGL:	noted in the patient's mouth	PmHx: RSV at 1 year of age
Vital Sign – (prior to Naloxone)		
AVPU: Unresponsive	Chest:	Last Meal: Pizza and chips for lunch
B/P: 82/64	Equal chest rise and fall noted	Events Prior: Napping in bedroom
HR: 78, regular	Clear equal in all lung fields	Was checked on an hour previou
Resp: 10, labored		and was asleep in the bed
O ₂ Sat: 94% (O ₂ applied)	Back:	and was asleep in the bed
Pain:	No external trauma noted	Current on Immunizations? Yes
GCS : 3 (1,1,1)		
BGL: 84 mg/dl	Abdomen/Pelvis:	Patient Weight: 12kgs
Vital Sign – (after Naloxone)	Unremarkable	Notes:
AVPU: Alert, Confused		Grandmother advises that she wa
B/P: 100/60	Extremity:	caring for a friend last week that ha
HR: 110, regular	No external trauma noted	knee surgery. Her friend stayed in thi
Resp: 18, nonlabored	Othern	room and was taking Lortab for post o
O ₂ Sat : 98%	Other:	pain relief
Pain: 0	Skin: Cool, pale and dry	
GCS: 14 (4,4,6)	EKC: Sinus Phythm	Pill bottle found is for Lortab 7.5mL
BGL:	EKG: Sinus Rhythm	

Transport Consideration: Secure patient properly on cot Transport in seated position secondary to possible vomiting

• Respirations return within normal limits

• Patient remain tired, Pupils now PERL

After Naloxone administration:

• Patient can maintain own airway

Suggested Treatment:

O₂, Suction if necessary, Monitor,

IV/IO, Administration of Naloxone

ACCIDENTAL OVERDOSE

Additional Things to Consider about the Scene:

- Possibly have grandma call friend and inquire about number of pills missing
- Family centered care

Additional Things to Consider during Treatment/Transport:

- If dealing with an unknown medication, contact the Poison Control Center
- When administering Naxolone, it is a slow push and titrated to desired effect
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility
- Contact patient's legal guardian, if possible

Additional Educational Resources to Consider:

- Poison Control Center
 - https://www.poison.org
- Palmetto Poison Center
 - https://www.sc.edu/study/colleges_schools/pharmacy/centers/ palmetto_poison_center/index.php
 - o 1700 College Street, Columbia, SC 29208
 - o **(800)-222-1222**



Things to consider based on your EMS protocols, procedures and/or policies:

_Naloxone Dose: _____

SEIZURE: FEBRILE

Goals/Objectives:	Dispatch Information:	
 Assess and secure airway 	Responding to a 15-month-old male having a seizure. Patient's father called 911 after he	
 Recognition of risk and/or 	brought child into his room when child would r	•
presence of secondary	kept thrashing around and then realized he wa	as having a seizure.
trauma		
 Recognition of transport 	Chief Complaint:	Additional Resources Requested:
necessity	Seizure	Police and Fire Department, ALS
Scene Description:		
 December 21st at 0100 		
	grees F with 1 inch of new snow on top of 2 inches	s of ice
 Patient's father meets Fire ar 	nd EMS in living room with child	
 Home noted to be clean 		
Initial Improvement Dations is in	a sie waar besie en beslel het feelde en Destienst is slaam van de	
	n pajamas being held by father. Patient is sleepy an	-
Vital Sign – Set 1	Physical Exam	HPI: See events prior below
AVPU: Alert	HEENT:	S/S: pale, GCS 11 initially; limp limbs
B/P : 80/50	Head: Unremarkable	but will move to pain
HR: 124, regular	Eyes: Initially, Left – sluggish, Right - quick	
Resp: 30, non-labored	Ears: Unremarkable	Allergies: NKDA
O ₂ Sat: 94% (room air)	Nose: Unremarkable	
Pain:	Oral Cavity: Unremarkable	Medications: None
GCS: 11 (3, 4, 4)	Patient able to clear and control own airway	DmHy, For infection three weeks are
BGL:		PmHx: Ear infection three weeks ago
Vital Sign – Set 2	Chest:	Last Meal: Dinner, 7hr ago
AVPU: Alert	Equal chest rise and fall noted	
B/P: 96/52	Lung sounds clear	Events Prior: Patient's mother is out o
HR: 138, regular	No external trauma noted	town, so father brought son into their
Resp: 28, non-labored	Back:	room to sleep. Patient awoke his fathe
O₂ Sat: 98% (O ₂ applied)	No trauma noted	when he was noted to be moaning
Pain:		Current on Immunizations? Yes
GCS: 12 (3, 4, 5)	Abdomen/Pelvis:	Current on immunizations? Yes
BGL: 107 mg/dl	No guarding noted upon quadrant palpation	Defient Weight (d)
	No trauma noted	Patient Weight: 11kgs
Vital Sign – Set 3	Pelvis stable	Notes:
AVPU: Alert		Body Temp: 99.4
B/P: 90/70	Extremity:	
HR: 120, regular	No trauma noted to legs or arms	ECG: Sinus Tachycardia
Resp: 24, non-labored	PMS x 4 (presumed, since child moves limb	
O₂ Sat: 98% (O ₂ applied)	away when pain applied)	Father denies noting any recent fevers
Pain:		
GCS: 13 (4, 4, 5)	Other:	
BGL:	Skin: pale, warm	
Suggested Treatment:	No step off's or tenderness noted to neck	Transport Consideration:
O ₂ , Monitor, Airway		Securing patient properly on cot
monitor/control	Pupils noted to be PERL 10 minutes into call	Guardian ride along

SEIZURE: FEBRILE

Additional Things to Consider about the Scene:

- Will family allow you to view where the seizure activity took place
- Family centered care

Additional Things to Consider during Treatment/Transport:

- Is or was patient taking any medications for his recent ear infection
- Is incontinence noted
- Was a cooling agent and/or activity done by family prior to your arrival
- Oral cavity can have trauma secondary to biting of the tongue
- Weigh the pros and cons of starting an IV on this patient
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- Temperature Measurement in Pediatrics
 - o https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2819918/

Measurement method	Normal temperature range
Rectal	36.6°C to 38°C (97.9°F to 100.4°F)
Ear	35.8°C to 38°C (96.4°F to 100.4°F)
Oral	35.5°C to 37.5°C (95.9°F to 99.5°F)
Axillary	34.7°C to 37.3°C (94.5°F to 99.1°F)

Things to consider based on your EMS protocols, procedures and/or policies:

^{*}Graphic obtained from medguidance

SEIZURE: EPILEPSY

	incide and are surrently with her	
You are waved to the door by	inside and are currently with her the school's main office	
	regular street clothes noted to lying in caregiver's	
	shallow. Patient is not currently seizing. All seizu	re activity ended about a minute ago.
Vital Sign – Set 1	Physical Exam	HPI: See events prior below
AVPU: Painful		
B/P: 98/62	HEENT:	S/S: Initially; limp limbs, but will
HR: 144, regular	Head: Small "goose egg" spot to R temporal	respond to pain
Resp: 36, non-labored	Eyes: Initially, Right pupil is dilated, non-	Allergies: NKDA
O ₂ Sat: 90% (room air)	reactive Ears: Unremarkable	
Pain:	Nose: Unremarkable	Medications: Multivitamin, Keppra
GCS: 5 (1, 1, 3)	Oral Cavity: Unremarkable	120mg BID
BGL:	Patient able to clear and control own airway	
Vital Sign – Set 2		PmHx: Seizures, Concussion at 3yo
AVPU: Verbal Inappropriate	Chest:	Last Meal: Snack, 45min ago
B/P: 96/52	Equal chest rise and fall noted	
	Lung sounds clear	Events Prior: Classmates said patient
HR: 138, regular Resp: 28, non-labored	No external trauma noted	slipped on climbing structure and hit
	Dealer	her head on the railing. Teacher
O ₂ Sat: 98% (O ₂ applied)	Back:	witnessed the patient fall onto soft
	Small red mark noted to patient's mid-back	recycled tire material
GCS : 10 (3, 2, 5)	on the right side	Current on Immunication 2 V
BGL: 107 mg/dl	Abdomen/Pelvis:	Current on Immunizations? Yes
	No guarding noted upon quadrant palpation	Patient Weight: 17kgs
Vital Sign – Set 3	No trauma noted	Notes:
AVPU: Alert, Confused	Pelvis stable	Body Temp: 97.1
B/P: 90/70	Enders with a	,
HR: 120, regular	Extremity:	ECG: Sinus Tachycardia
Resp: 24, non-labored	No trauma noted to legs or arms PMS x 4 (presumed, since child moves limb	Parants will most at local bosnital
O ₂ Sat: 98% (O ₂ applied)	away when pain applied)	Parents will meet at local hospital. Patient moans and whimpers with any
Pain:		intervention. Muscles are weak, and
GCS: 13 (4, 4, 5)	Other:	patient is easily restrained and
BGL:	Skin: Pale, warm	compliant during treatment
Suggested Treatment:	No step off's or tenderness noted to neck	Transport Consideration:
O ₂ , Monitor, C-spine	Duraile beth actives to DEDL during the second	Securing patient properly on cot
precautions	Pupils both return to PERL during transport	
•	1	1

Chief Complaint:

Seizure

• Spring afternoon at local preschool/daycare, high of 88 degrees

Goals/Objectives:

trauma

necessity

Scene Description:

• Assess and secure airway

• Recognition of risk and/or

presence of secondary

• Recognition of transport

Responding to a 4-year-old female having a seizure at school. Patient is a known epileptic, well-controlled on medication. Patient was playing with friends on the playground when the other children alerted the teacher she was having a seizure.

Additional Resources Requested:

Police and Fire Department, ALS

SEIZURE: EPILEPSY

Additional Things to Consider about the Scene:

- Have there been any changes to her medications
- How far was the fall from the playground equipment to the ground
- Did patient fall on her head or land on another body part
- How exactly was the patient carried into the school from the playground
- Family centered care

Additional Things to Consider during Treatment/Transport:

- Have there been any changes to her medications
- When was her last lab work completed
- Is incontinence noted
- Oral cavity can have trauma secondary to biting of the tongue
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- Epilepsy Foundation
 - o https://www.epilepsy.com/living-epilepsy/parents-and-caregivers/about-kids



Things to consider based on your EMS protocols, procedures and/or policies:

_Sedative_____

_Anticonvulsant_____

^{*}Graphic obtained from findmeacure.com

DIABETIC: KETOACIDOSIS

Goals/Objectives:	Dispatch Information:	
• Assess and secure airway	Responding to a 15-year-old female patient	complaining of nausea, vomiting and
 Recognition of risk and/or 	weakness while attending a summer school activity. Patient is a known diabetic and in	
presence of secondary illness	the office of the school nurse. Patient's blood glucose monitor is reading "high" on	
Recognition of transport	bedside glucometer.	
necessity	Chief Complaint:	Additional Resources Requested:
necessity	Hyperglycemia	Police and Fire Department, ALS
Scene Description:		
	ees Foutside and rising. Bright sunshine, slight bre	9e7e
,	school nurse office, where the patient is lying on	
-	her eyes and looks at you when you approach	C
Initial Impression: Dationt is we	aring shorts and t-shirt lying on exam table of nur	sa's office
Vital Sign – Set 1	Physical Exam	HPI: Patient was not feeling well this
AVPU: Alert		morning and skipped breakfast. Patient
	HEENT:	could not focus in class, left for the
B/P: 108/68	Head: Patient states she has a headache	restroom and vomited. Patient then
HR: 112, regular	Eyes: PEERL	went to school nurse. Patient does not
Resp: 24, nonlabored	Ears: Unremarkable	monitor her diet nor does regular blood
O ₂ Sat: 98% (room air)	Nose: Unremarkable	testing, but does take her insulin as
Pain:	Oral Cavity: Dry tongue, membranes	scheduled
GCS: 15 (4, 5, 6)	Patient able to clear and control own airway	scheduleu
BGL:		S/S: Feels weak, Headache
Vital Sign – Set 2	Chest:	AU 1
AVPU: Alert	Equal chest rise and fall noted	Allergies: Amoxicillin, penicillin
B/P: 106/62	Lung sounds clear	Medications: Insulin BID, Multivitamin
HR: 138, regular	No external trauma noted	
Resp: 28, nonlabored	Back:	PmHx: Type I Diabetes,
O ₂ Sat: 98% (room air)	No trauma noted	
Pain: 2		Last Meal: Dinner, last night
GCS: 15 (4, 5, 6)	Abdomen/Pelvis:	Events Prior: See above
BGL: "HIGH" dl/mg	Guarding noted upon quadrant palpation	
_	Patient says her entire abdomen hurts	Current on Immunizations? Yes
	No trauma noted	Defient Weight: CEL
Vital Sime Sat 2	_ Pelvis stable	Patient Weight: 65kgs Notes:
Vital Sign – Set 3		
AVPU: Alert	Extremity:	Body Temp: 100.3
B/P : 109/70	No trauma noted to legs or arms	ECG: Sinus Tachycardia
HR: 110, regular	PMS x 4	,
Resp: 24, nonlabored	Other:	Patient realizes during assessment with
O ₂ Sat: 98% (room air)	Skin: Flush, Warm, Dry	appropriate questioning that she drank
Pain:		a lot of water yesterday and has been
GCS: 15	Patient complains of blurred vision during	urinating more often the last two days
BGL:	- transport	
Suggested Treatment:		Transport Consideration:
O ₂ , Monitor, Airway		Securing patient properly on cot
Management, Fluids		

DIABETIC: KETOACIDOSIS

Additional Things to Consider about the Scene:

- Know the range limitations for 'lows' and 'highs' on the monitor you are using
- Is the patient in air conditioning or outside temperatures throughout the day
- Family centered care

Additional Things to Consider during Treatment/Transport:

- Know the range limitations for 'lows' and 'highs' on the monitor you are using
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- American Diabetes Association
 - \circ www.diabetes.org
- American Academy of Pediatrics: Healthy Children
 - o www.healthychildren.org/English/health-issues/conditions/chronic/Pages/Diabetes.aspx

HYPOGLYCEMIA **HYPER**GLYCEMIA BLURRED PALLOR SWEATING **SLEEPINESS** DRY MOUTH INCREASED VISION THIRST LACK OF FREQUENT IRRITABILITY HUNGER HEADACHE URINATION WEAKNESS

Things to consider based on your EMS protocols, procedures and/or policies:

_Range on service glucometers _____

*Graphic obtained from Daily Health Post

ABDOMINAL PAIN

Goals/Objectives:	Dispatch Information:	
 Assess and secure airway 	You are called to the local hotel where the caller states her 14-year-old daughter is	
 Recognition of risk and/or 	experiencing abdominal discomfort. Caller states that have been in the car driving for	
presence of secondary illness	the last 8 hours. When patient got out of the car, she stated she did not feel well and has	
or trauma	not quit crying stating the pain is too much to bear.	
Recognition of transport	Chief Complaint:	Additional Resources Requested:
necessity	Abdominal Pain	Police and Fire Department, ALS

Scene Description:

- It is a hot July day with outside temperatures reaching 102 degrees F. Current time is 1930
- Patient is found laying in hotel bed in the fetal position, crying
- There is a small trash can to also be noted in the bed with that patient

Initial Impression: Patient is in obvious pain and refuses to sit up or move upon EMS arrival. Patient is crying but slows to respond appropriately to questioning.

Vital Sign – Set 1 AVPU: Alert B/P: 122/84 HR: 116, regular Resp: 22, nonlabored O2 Sat: 98% (room air) Pain: 9 GCS: 15 (4, 5, 6) BGL:	Physical Exam HEENT: Head: Unremarkable Eyes: PERL Ears: Unremarkable Nose: Unremarkable Oral Cavity: Unremarkable Patient able to clear and control own airway	 HPI: Patient states she wasn't feeling well earlier, but thought she was just tired. About an hour ago she had a sudden onset of lower abdominal pain S/S: Nausea, Fever, Abdominal pain Allergies: NKDA Medications: Birth Control
Vital Sign – Set 2 AVPU: Alert	Chest: Equal chest rise and fall noted	PmHx: None
B/P: 126/90 HR: 122, regular	Lung sounds clear No external trauma noted	Last Meal: Refused lunch
Resp: 22, nonlabored	Back:	Events Prior: Patient has been asleep in the car most of the day
O2 Sat: 98% (room air) Pain: 9 (7 with medication) GCS: 15 (4, 5, 6)	Has some radiating pain to lower back Abdomen/Pelvis:	Current on Immunizations? Yes
BGL: 84 mg/dl (if assessed)	Guarding noted upon palpation, radiating	Patient Weight: 49kgs
Vital Sign – Set 3 AVPU: Alert B/P: 118/78	pain noted from right lower quadrant No trauma noted Pelvis stable	Notes: Body Temp: 101.6 F
HR: 112, regular	Extremity:	ECG: Sinus Tachycardia
Resp: 20, nonlabored O2 Sat: 98% (room air)	No trauma noted to legs or arms PMS x 4	Patient denies being sexually active
Pain: 9 (6 with medication) GCS: 15 (4, 5, 6) BGL:	Other: Skin: Pale, warm	Patient's menstrual cycle is normal, and she is on day 17
	No step off's or tenderness noted to neck	Patient states pain increases when walking
Suggested Treatment: O ₂ , Monitor, IV, Fluids, Pain control	Patient had a bowel movement about 1400	Transport Consideration: Securing child properly on cot

ABDOMINAL PAIN

Additional Things to Consider about the Scene:

• Family centered care

Additional Things to Consider during Treatment/Transport:

- Modesty of patient during exam
- Asking personal questions without guardian or others hearing answers
- Considerations; ectopic pregnancy, ovarian cyst, menstrual cramps, constipation, appendicitis
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- American Academy of Pediatrics: Healthy Children
 - www.healthychildren.org/English/healthissues/conditions/abdominal/Pages/default.aspx



Things to consider based on your EMS protocols, procedures and/or policies:

*Graphic obtained from researchgate.net

CARDIAC

Goals/Objectives:	Dispatch Information:		
 Assess and secure airway 	You are called to the home of a 3-year-old having trouble breathing. Caller states her		
Assessment of family history	daughter was outside running around and became very tired and now cannot catch her		
 Recognition of possible 	breath. This is the first nice day outside since	breath. This is the first nice day outside since they had a colder winter and the patient	
cardiac complication	was excited to play outdoors. Patient also is telling mother her chest hurts.		
 Recognition of transport 	Chief Complaint:	Additional Resources Requested:	
necessity	Difficulty Breathing	Police and Fire Department, ALS	
Scene Description:			
• Warm day in late March. First	st day above 50 degrees in months. The sun is shinir	ng, and it is around 1600	
• Patient is found sitting on th	e back porch in her father's lap. Patient is struggling	g to breath as you approach her	
• Patient looks at you but doe	s not move, smile or speak		
	dressed in shorts and a t-shirt. Patient is visible scare		
Vital Sign – Set 1	Physical Exam	HPI: Patient has not been ill but afte	
AVPU: Alert	HEENT:	her 3-year-old check-up, th	
B/P: 126/70		pediatrician thought it necessary t	
HR: 132, regular	Head: Bobbing while trying to catch breath Eyes: PERL	involve a cardiologist to evaluate	
Resp: 32, labored	Ears: Unremarkable	persistent heart murmur and anxiety	
O2 Sat: 86% (room air)	Nose: Nasal flaring noted	S/S: Cyanosis, Difficulty breathing	
Pain:	Oral Cavity: Dry, pursed lips, cyanosis noted	Dizziness, Chest pain	
GCS : 15 (4, 5, 6)	Patient is trying hard to control her breathing	Dizziliess, cliest pairi	
BGL:		Allergies: NKDA	
Vital Sign – Set 2	Chest:		
AVPU: Alert	Equal chest rise and fall noted, shallow	Medications: Aspirin, Ativan	
B/P: 122/80	Lung sounds diminished in all lobes	PmHx: Currently being evaluated for	
HR: 126, regular	No external trauma noted	cardiac condition, anxiety	
Resp: 28, labored	Patient states her chest is 'tight'		
O2 Sat: 84% (room air) 94% C	2 Dealer	Last Meal: Lunch at 1130	
	² Back:		

Events Prior: Playing outside

Current on Immunizations? Yes

Patient Weight: 12kgs Notes:

Body Temp:

ECG:

Mother states that last week they say a specialist at the Children's Hospital to discuss possible cardiac conditions

Patient has these episodes and gets very anxious

Transport Consideration: Securing child properly on cot

- 16 -

Extremity: No trauma

Unremarkable

Abdomen/Pelvis:

No trauma noted

Pelvis stable

No trauma noted to legs or arms PMS x 4

Other:

Pain: 4

GCS: 15 (4, 5, 6) **BGL:** 92 mg/dl

Vital Sign – Set 3

HR: 118, regular

O2 Sat: 95% (O2)

GCS: 15 (4, 5, 6)

AVPU: Alert

B/P: 118/76

Pain: 3

BGL:

Patient begins to calm down with oxygen administration

Resp: 24, slightly labored

Suggested Treatment:

O₂, Monitor, Airway

Management

Skin: Pale, Cool, Moist No step off's or tenderness noted to neck

No guarding noted upon quadrant palpation

Patient releases from her dad and feels better sitting straight up. She can speak in 4-5-word sentences with oxygen administration

CARDIAC

Additional Things to Consider about the Scene:

• Family centered care

Additional Things to Consider during Treatment/Transport:

- Contacting specialty hospital/physician for treatment guidelines
- Any documentation from the physician about current condition
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- American Academy of Pediatrics: Healthy Children
 - o www.healthychildren.org/English/health-issues/conditions/heart/Pages/default.aspx
- American Heart Association: Cardiovascular Conditions of Childhood
 - www.heart.org/HEARTORG/Conditions/More/CardiovascularConditionsofChildhood/Car diovascular-Conditions-of-Childhood_UCM_314135_SubHomePage.jsp



Things to consider based on your EMS protocols, procedures and/or policies:

SEPSIS

Goals/Objectives:	Dispatch Information:	
• Assess and secure airway	You are called to a home where the caller is stating his 2-year-old daughter is lethargic	
• Recognition of risk for sepsis	and not acting like normal. Patient came home from daycare yesterday and went straigh	
secondary to recent infection	to bed without dinner. His wife had to wake the child this morning after she did not come	
Recognition of transport	downstairs for breakfast.	
necessity	Chief Complaint:	Additional Resources Requested:
	Lethargic	Police and Fire Department, ALS
Scene Description:	, <u> </u>	
 It is a cool fall Saturday mornin 	g at 0900	
	s lap on the couch. Patient does not move or look	cup as you enter the home
	are present. Mother hands you a prescription and	
	urinary tract infection secondary to bubble bath	
-	aring pajamas and does not follow movement of	
Vital Sign – Set 1	Physical Exam	HPI: Patient cannot seem to shake any
AVPU: Alert	HEENT:	illnesses since starting daycare 3 weeks
B/P: 80/60	Head: Unremarkable	ago
HR: 110, regular	Eyes: PERL, keeps eyes closed during exam	S/S: Decreased appetite, Lethargy,
Resp: 28, labored	Ears: Unremarkable	Fatigue, Nausea, Increased pain
O ₂ Sat: 96% (room air)	Nose: Unremarkable	Taligue, Nausea, mercasea pant
Pain: Constantly moaning	Oral Cavity: Dry	Allergies: NKDA
GCS: 15 (3, 4, 5)	Patient able to clear and control own airway	
BGL:		Medications: Tylenol
Vital Sign – Set 2	Chest:	PmHx: Recent UTI
AVPU: Alert	Equal chest rise and fall noted, shallow	
B/P: 84/58	Lung sounds clear	Last Meal: Lunch yesterday
HR: 116, regular	No external trauma noted	
Resp: 30, labored	Back:	Events Prior: Patient has been
O₂ Sat: 97% (O ₂) 94% (room	Unremarkable	sleeping constantly and unable to keep
air)	Oniemarkable	any food down
Pain: Screams when touched	Abdomen/Pelvis:	Current on Immunizations? Yes
GCS : 15 (4, 5, 6)	Guarding in all quadrants upon palpation	
BGL: 70 mg/dl	No trauma noted	Patient Weight: 10kgs
Vital Sign – Set 3	Pelvis stable	Notes:
AVPU: Alert	Esternita	Body Temp: 103.5 F
B/P: 76/52	Extremity:	
HR: 114, regular	No trauma noted to legs or arms PMS x 4	ECG: Sinus Tachycardia
Resp: 28, labored		Mother states that physician advised
O ₂ Sat: 97% (O ₂) 94% (room	Other:	no more bubble baths and that patient
air)	Skin: Pale and clammy	would need help while cleaning after
Pain:	No step off's or tenderness noted to neck	using the restroom
GCS: 15 (4, 5, 6)		
BGL:	Patient has had a decrease in urinating and no	
Suggested Treatment:	bowel movement for 2 days	Transport Consideration:
O ₂ , Monitor, IV, Fluids		Securing child properly on cot
		Guardian riding

SEPSIS

Additional Things to Consider about the Scene:

• Family centered care

Additional Things to Consider during Treatment/Transport:

- What other infections or illnesses has the patient experienced recently
- What over-the-counter medication(s) have been used, if any
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- American Academy of Pediatrics: Healthy Children
 - www.healthychildren.org/English/health-issues/conditions/infections/Pages/Sepsis-in-Infants-Children.aspx
- The Rory Staunton Foundation: For Sepsis Prevention
 - o rorystauntonfoundationforsepsis.org/



Things to consider based on your EMS protocols, procedures and/or policies:

*Graphic obtained from The Rory Staunton Foundation

SEPSIS: PICC LINE INFECTION

Goals/Objectives:	Dispatch Information:	
 Recognition of risk and/or presence of sepsis Recognition of sepsis treatment (nodictric fluid) 	You are responding to a 15-year-old female where we been sick for a few days per mother, and sud confused for the last hour.	•
treatment/pediatric fluid resuscitation guidelines	Chief Complaint:	Additional Resources Requested:
Recognition of transport	Unresponsive	Police and Fire Department, ALS
necessity	onesponsive	Police and File Department, ALS
Scene Description:		
• Female shows you inside and to	de. No rain/storms around, slight chill to the air. F a bedroom. Two other children are being ushere and rocking her slowly while crying and patting he noted with patting.	ed from the room by another adult
Initial Impression: Patient is in p	ajamas and limp in mother's arms.	
Vital Sign – Set 1	Physical Exam	HPI: Patient is four days post-chemo
AVPU: Painful		and has been ill. Patient has been
B/P: 78/40	HEENT:	awake some of the day but returned
HR: 134, regular	Head: Unremarkable	to be after becoming tired and
Resp: 30, shallow	Eyes: PEERL, will resist light shone in eyes with	confused. Mother came to get her
O ₂ Sat: 91% (room air)	weak movement of head/neck Ears: Unremarkable	dinner and found her unresponsive.
Pain:	Nose: Unremarkable	S/S: Pale, Flaccid, No movement
GCS : 8 (2, 2, 4)	Oral Cavity: Note to be slightly pale, moist	
BGL:	Oral Cavity. Note to be slightly pale, moist	Allergies: NKDA
Vital Sign – Set 2	Chest:	
AVPU: Painful	Equal chest rise and fall noted, shallow	Medications: Chemo medications,
B/P: 76/52	Lung sounds clear in uppers, diminished in	Steroids, Probiotics, Multivitamins
HR: 132, regular	lowers	PmHx: Leukemia for last two years
Resp: 28, shallow	No external trauma noted	FIIITX. LEUKEITIIA TOFTASL LWO YEARS
O ₂ Sat: 98% (O ₂) (91% No O ₂)	Back:	Last Meal: Lunch, 7hr ago
Pain:	Unremarkable	Current on Immunizations? No
GCS: 8 (2, 2, 4)	Abdomen/Pelvis:	
BGL: 198 dl/mg	No guarding noted upon quadrant palpation	Patient Weight: 45 kgs
Vital Sign – Set 3	No trauma noted	Notes:
AVPU: Painful (V if fluids given)	Pelvis stable	Body Temp: 104.5
B/P: 80/60, if fluids (otherwise,		ECG: Sinus Tachycardia
hypotensive)	Extremity:	
HR: 120, regular	PMS x 4 (presumed, since child moves limb	Patient will open eyes to sound once
Resp: 24, non-labored	away when pain applied)	fluids are started and 250-400mL of
O ₂ Sat: 98% (O ₂ applied)	Left arm noted to look red around site of PICC	fluids are given. (20cc/kg bolus)
GCS: With fluids: 10 (3, 3, 4),	Line; if colored bandage moved, will see crusty	
otherwise still 8 (2, 2, 4)	yellow at site of entrance to body. Mother	Nearest children's hospital is where
	states it is 'not as long as normal'	the patient is treated for her cancer
Suggested Treatment:	Other:	Transport Consideration:
O ₂ , Monitor, Fluids, Airway	Skin: Pale, Hot, Flushed	Securing patient properly on cot
monitor/control		Guardian riding along

SEPSIS: PICC LINE INFECTION

Additional Things to Consider about the Scene:

- Cleaning solutions or maintenance schedule for the PICC line
- Additional health care needs or equipment to take during transport
- Family centered care

Additional Things to Consider during Treatment/Transport:

- Review the patient care plan from patient's specialist on treatment modalities
- Directly contact the patient's specialist for best desired treatment
- Alternative route for medication/fluid administration
- Stabilize PICC line, however do not use, reinsert or pull completely out
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility; specialty hospital in resources allow

Additional Educational Resources to Consider:



Things to consider based on your EMS protocols, procedures and/or policies:

^{*}Graphic obtained from slideshare.net

SUDDEN INFANT DEATH SYNDROME

Goals/Objectives:	Dispatch Information:	
 Scene preservation Acknowledgement of situation Communication with 	You are dispatched to a home for an unrespon- daughter had been put to sleep in her own crib hysterical on the phone and unable to follow di state the infant is cold to the touch.	and was found unresponsive. Mother is
guardians - verbiage	Chief Complaint: Unresponsive Infant	Additional Resources Requested: Police and Fire Department, ALS

Scene Description:

- It is a cool fall morning around 0600
- You arrive on scene and PD advises the scene is safe for you to enter
- Patient is found in a crib on her back next to the mother's bed. There are no blankets or additional items in the crib
- Patient is wearing a onesie

Initial Impression: Patient is cold to the touch with rigor mortis present in jaw and upper extremities. Code black.

Vital Sign – Set 1	Physical Exam	HPI: Patient is breastfeeding and has
AVPU: Unresponsive	HEENT:	no complications with intake or output.
B/P: HR: 0	Head: Unremarkable	Normal diapers yesterday and no illnesses to report
	Eyes: Constricted and pinpoint	innesses to report
Resp: 0 O ₂ Sat:	Ears: Unremarkable	S/S:
Pain:	Nose: Unremarkable	
GCS: 3 (1,1,1)	Oral Cavity: Cyanosis noted to lips and jaw is	Allergies: None
BGL:	stick, rigor present	Medications: None
Vital Sign Sat 2	Chest:	
Vital Sign – Set 2 AVPU:	Absent lung sounds upon auscultation in all	PmHx: Full term birth with no
B/P:	lobes	complications during pregnancy
HR:	No external trauma noted	Last Meal: Patient ate before bed
Resp:	Back	around 2200 the night before
O ₂ Sat:	Back:	
Pain:	Mottling noted	Events Prior:
GCS:	Abdomen/Pelvis:	Current on Immunizations? Yes
BGL:	No trauma noted	
	Pelvis stable	Patient Weight: 7.3kg
Vital Sign – Set 3	Enders with a	Notes:
AVPU:	Extremity:	PD remains present as EMS unzips
B/P:	No trauma noted to legs or arms Upper extremities noted to have rigor	onesie to assess patient
HR:	opper extremities noted to have rigor	EMS triages code black within 8
Resp:	Other:	minutes of arriving on scene
O ₂ Sat:	Skin: Pale and cold to the touch	minutes of arriving of scene
Pain:		PD accepts responsibility for patient
GCS:		
BGL:		
Suggested Treatment:		Transport Consideration:
Supportive care for family		

SUDDEN INFANT DEATH SYNDROME

Additional Things to Consider about the Scene:

- Assessing where the patient is found and/or sleeping area is important for documentation
- Noting guardians' reaction and documentation of their account of event
- Family centered care

Additional Things to Consider during Treatment/Transport:

- Preservation of scene as this is a death investigation until the coroner states otherwise
- If needed, notify medical control early
- Availability and contact with either service chaplain and/or faith-based leader for family
- Working with PD on who will give the death notification to family
- Being aware of verbiage to use and respectful acts towards family during notification
- Anticipate anger and/or other reactions from family
- Stay calm. Family will ask hard questions and you may not have the answers they want to hear

Additional Educational Resources to Consider:

- South Carolina State Child Fatality Advisory Committee
 - https://scfacsc.org/about/



Things to consider based on your EMS protocols, procedures and/or policies:

_Is there a local Safe Sleep Instructor in your area? _____

*Graphic obtained from kokomoperspective.com

Goals/Objectives:	Dispatch Information:	
 Assess and secure airway 	You are called to a local restaurant when the caller states a 3-year-old male is having	
 Recognition of obstruction 	difficulty breathing and speaking. Patient was eating dinner with his family when	
 Recognition of respiratory 	everyone started screaming and one male starting patting patient on the back. Patient is	
distress and/or failure	coughing now, but unable to speak	
	Objet Completet	Additional Decourses Demucated

Recognition of transport
 necessity
 Difficulty Breathing; Possible Choking
 Police and Fire Department, ALS

Scene Description:

- A spring day in April. 72 degrees F outside. Around 1800. You had a 3-minute response time as you were down the road
- You arrive to the restaurant and are escorted back to a room decorated in birthday balloons and presents
- Adults are moving other children and point you to a corner when a child and man are standing

Initial Impression: Patient is standing with male behind him. Patient's face is red, and he looks at you momentarily and then back to the floor. Patient is noted to be wearing an "I am 3" t-shirt. Patient stops coughing as you approach him.

Vital Sign – Set 1 (Distress) AVPU: Alert B/P: Unable to obtain HR: 100, weak Resp: 32, labored O ₂ Sat: 88% (room air) Pain: GCS: 12 (4, 2, 6) BGL:	Physical Exam HEENT: Head: Bobbing with each breath Eyes: PERL Ears: Unremarkable Nose: Nasal flaring noted Oral Cavity: Small object seen in back of throat Lips are noted to have cyanosis present	 HPI: Patient was eating some pizza and started coughing S/S: Tachypnea, Stridor, Retractions, Inability to cough Allergies: NKDA Medications: Multivitamin PmHx: None
Vital Sign – Set 2 (Failure) AVPU: Unresponsive B/P: Unable to obtain HR: 80, weak Resp: 42, labored, shallow O ₂ Sat: Unable to obtain Pain:	Chest: Poor chest rise and fall noted, almost absent Inspiratory stridor noted, retractions present No external trauma noted Back: Unremarkable	Last Meal: Currently eating Events Prior: Kept running around while eating Current on Immunizations? Yes
GCS: 3 (1, 1, 1) BGL: 94 mg/dl	Abdomen/Pelvis: No guarding noted upon quadrant palpation	Patient Weight: 14kgs
Vital Sign – Set 3 (Code Blue) AVPU: Unresponsive	No trauma noted Pelvis stable	Notes: Body Temp:
B/P: Unable to obtain HR: 50, weak Resp: 0 O ₂ Sat: Unable to obtain Pain: GCS: 3 (1, 1, 1) BGL:	Extremity: No trauma noted to legs or arms PMS x 4 Other: Skin: Pale, Warm, Moist No step off's or tenderness noted to neck	ECG: Sinus Tachycardia to Bradycardia Patient triage code blue. CPR is started You have pediatric Magill forceps available
Suggested Treatment: O ₂ , Monitor, Airway Management, IV, Medications		Transport Consideration: Securing patient properly on cot

Additional Things to Consider about the Scene:

- Additional crew members for CPR
- Family centered care

Additional Things to Consider during Treatment/Transport:

- Modesty of the patient when performing CPR
- 3 most common causes of upper airway obstruction; infection, airway swelling and foreign body airway obstruction
- Management of FBAO; Evaluate, Identify, Intervene
- Do not perform a blind finger sweep. This can lodge an object further into the trachea
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

Pediatric Advanced Life Support (PALS)

 https://acls-algorithms.com/pediatric-advanced-life-support/

Conscious

<1 year: Give 5 back slaps then 5 chest thrusts >1 year: Abdominal thrusts Unconscious Start CPR Universal Sign of Choking







Things to consider based on your EMS protocols, procedures and/or policies:

*Graphic 1 obtained from Healthwise *Graphic 2 obtained from goodtoknow *Graphic 3 obtained from Potomac Pediatrics

Goals/Objectives:	Dispatch Information:	
 Assess and secure airway 	You are dispatched to the local elementary school. The caller advised that there was a	
 Recognition of additional 	basketball tournament being played and an 11-year-old player collapsed while running	
resources early in call	down the court. The caller advises that another person has been sent to get the AED.	
 Use of resources/tools 	Caller relays dispatch CPR instructions to other bystanders treating the patient.	
 Recognition of transport 	Chief Complaint:	Additional Resources Requested:
necessity	Unresponsive, CPR in progress	Police and Fire Department, ALS
Scene Description:	-	
• It is a Saturday in early Nove	mber. It is 42 degrees F outside and cloudy	
You are escorted by other by	standers to the hallway opposite the gymnasium do	or you entered
You see an off-duty firefighter	er/EMT doing compressions. An AED is attached and	counting down to the next shock
Initial Impression: Patient is Iv	ying supine on the ground with his chest exposed an	d AFD patches correctly placed.
Vital Sign – Set 1	Physical Exam	HPI: Patient was playing basketball and
AVPU: Unresponsive		showed no signs of distress or fatigue
B/P: Unable to obtain	HEENT:	Coach states that patient has not been
HR: 0	Head: Unremarkable	sick recently
Resp: 0	Eyes: Sluggish, left nonreactive	Slok recently
O ₂ Sat: Unable to obtain	Ears: Unremarkable	S/S : Unresponsive, apneic, pulseless
Pain:	Nose: Unremarkable	
	Oral Cavity: Dry	Allergies: Unknown
GCS : 3 (1, 1, 1)		Medications: Unknown
BGL:	Chest:	Medications. Onknown
Vital Sign – Set 2	Equal chest rise and fall noted with BVM	PmHx: Unknown
AVPU: Unresponsive	No external trauma noted	
B/P: Unable to obtain	Back:	Last Meal: Snack before the game
HR: 0	Unremarkable	
Resp: 0		Events Prior: Patient played the first
O ₂ Sat: Intubated,	Abdomen/Pelvis:	quarter and the 5 minutes of the
Capnography applied	No trauma noted	second quarter. Patient collapsec
Pain:	Pelvis stable	without warning while running
GCS: 3 (1, 1, 1)	Extremity:	Current on Immunizations? Unknown
BGL: 72 mg/dl	No trauma noted to legs or arms	Patient Weight: 40kgs
Vital Sign – Set 3	All extremities are flaccid	Notes:
AVPU: Unresponsive		Body Temp: 98.0 F
B/P: Unable to obtain	Other:	body remp. solor
HR: 0	Skin: Pale, Cool, Dry	ECG: Asystole
Resp : 0	No step off's noted to neck	
O ₂ Sat: Intubated		CPR is being properly performed
	After airway is secured, lung sounds are noted	Coach attempting to contact patient's
Pain:	to be present and equal in all lobes. Chest rise	legal guardian. Aunt and uncle on scene
GCS: 3 (1, 1, 1)	is adequate with ventilations	
BGL:		Transment Ormald
Suggested Treatment:		Transport Consideration:
O_2 , Airway Management,		Securing child properly on cot
Monitor, IV/IO access,	-	
Medications, CPR, Defibrillatio	n	

Additional Things to Consider about the Scene:

• Family centered care

Additional Things to Consider during Treatment/Transport:

- Exact down time, use of an AED, bystander effective CPR
- Modesty of patient and respect for family and bystanders when performing CPR
- Most common causes of Sudden Cardiac Arrest in children are structural cardiac abnormalities
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- American Academy of Pediatrics: Healthy Children
 - o www.healthychildren.org/English/health-issues/conditions/heart/Pages/default.aspx
 - www.healthychildren.org/English/news/Pages/Understanding-Pediatric-Sudden-Cardiac-Arrest.aspx



Things to consider based on your EMS protocols, procedures and/or policies:

_Are there known community AED locations _____

^{*}Graphic obtained from defibshop.co.uk

PAGE INTENTIONALLY LEFT BLANK

RESPIRATORY SCENARIOS



ASTHMA

Goals/Objectives:	Dispatch Information:	
 Assess and secure airway 	You are responding to a 10-year-old female with difficulty breathing. Caller states that	
• Treatment of asthma, primary	two breathing treatments have been given with no improvement. Caller says this was a	
and secondary levels of	sudden onset and the patient does have a history of asthma.	
treatment		
Recognition of transport	Chief Complaint:	Additional Resources Requested:
necessity	Difficulty Breathing	Police and Fire Department, ALS

Scene Description:

• The patient is sitting on front porch with adults and a few other children of same age around

• It is an August evening with ambient temperature noted to be 82 degrees Fahrenheit. Dusty and dry outside

Initial Impression: Patient is sitting with arms tight to her body pushing against concrete step. Patient is leaning forward at the hips. Mouth is open, skin on face noted to be pale and damp with sweat. Patient looks up at you as you approach.

Vital Sign – Set 1	Physical Exam	HPI: Trouble breathing for last 20 min
AVPU: Alert	HEENT:	S/S: Pale, tripoding, tachypneic
B/P: 110/52	Head: No trauma noted	Sis. Pale, tripoung, tachypheic
HR: 134, regular	Eyes: PERL	Allergies: NKDA
Resp: 48, labored	Ears: Unremarkable	
O ₂ Sat: 88% (room air)	Nose: Unremarkable	Medications: Multivitamin, Albuterol
Pain: 0	Oral Cavity: Dry, pale	inhaler; daily, rescue inhaler; PRN
GSC: 15	Patient able to clear and control own airway	
BGL: (see below if requested)		PmHx: Asthma
Vital Sign – Set 2	Chest:	Last Meal: Dinner, approx. 1hr ago
AVPU: Alert	Equal chest rise and fall noted	Last mean binner, approx. In ago
B/P: 99/62	Audible wheezing upper lung fields	Events Prior: Patient forgot to take
HR: 128, regular	Minimal air movement in lower fields	inhaler dose this morning. Patient was
Resp: 44, labored	Shallow breathing with retractions and	playing with her siblings when she
O ₂ Sat: 94% (Neb/O ₂ applied);	accessory muscle usage noted	started gasping for air
86% (no Neb/O ₂ applied)	Back:	
Pain: 0	No external trauma noted	Current on Immunizations? Yes
GSC: 15		Patient Weight: 35kgs
BGL: 87 mg/dl	Abdomen/Pelvis:	i atoni meigin. Soks
Vital Sign – Set 3	All quadrants soft and non-tender	Notes:
AVPU: Alert	Pelvis stable	Body Temp: 98.6 F
B/P: 98/70		
HR: 130, regular	Extremity:	EKG: Sinus Tachycardia, no ectopy
Resp: 40, labored	No trauma noted to legs or arms	
O ₂ Sat: 98% (O ₂ /Neb applied);	PMS x 4	If no oxygen applied, SpO_2 does not
80% (no Neb/O ₂ applied)		improve
Pain: 0	Other:	
GSC : 15	Skin: warm, pale, and damp	If no nebulizer or steroids are given,
BGL:		patient continues to worsen during
	4	transport to hospital
Suggested Treatment:		Transport Consideration:
Nebulizer, O ₂ , Steroids,		Securing patient properly on cot
Magnesium, Monitor		Parent or guardian ride along

ASTHMA

Additional Things to Consider about the Scene:

- Is the Albuterol at home in date
- What kind of system does the patient use for treatments
- Family centered care

Additional Things to Consider during Treatment/Transport:

- Remove patient from any irritants present
- Any recent illnesses or new foods
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- American Academy of Pediatrics: Healthy Children
 - https://www.healthychildren.org/English/health-issues/conditions/allergiesasthma/Pages/Asthma-Fables-and-Facts.aspx
- Easy Auscultation: Lung Sounds Training Sessions
 - o https://www.easyauscultation.com/lung-sounds



Things to consider based on your EMS protocols, procedures and/or policies:

_Bronchodilator_____

Steroid

*Graphic obtained from simplybiology.com

CROUP

Goals/Objectives:	Dispatch Information:		
Assess and secure airway	You are called to an apartment complex for a 4-year-old female having trouble breathing.		
• Recognition of importance for	Patient was asleep and woke her mother up saying she was coughing. Patient also has a		
position of comfort	fever and mother does not have any medication to give her at home.		
Recognition of transport			
necessity	Chief Complaint:	Additional Resources Requested:	
necessity	Difficulty Breathing	Police and Fire Department, ALS	
Scene Description:		rollee and file Department, ALS	
	ide and 0220		
 It is January, 18 degrees F outsi A young child is seen waying yo 	bu down in the middle of the roadway and directs	you to the anartment	
	•		
• You enter the apartment to him	d a female holding a child on the bathroom floor.	The shower is running	
Initial Impression: Patient is in a	apparent distress and only looks at you for a seco	nd as you enter the room. The child is	
•	shirt. Patient is noted to have a deep bark-like co	•	
Vital Sign – Set 1	Physical Exam	HPI: Sudden onset of coughing	
AVPU: Alert			
B/P: 110/60	HEENT:	S/S: Labored breathing, Hoarse and	
HR: 130, regular	Head: Unremarkable	deep cough, fever	
Resp: 18, labored	Eyes: PERL		
O ₂ Sat: 92% (room air)	Ears: Unremarkable	Allergies: NKDA	
Pain:	Nose: Nasal flaring noted	Medications: Multivitamin	
GCS : 15 (4, 5, 6)	Oral Cavity: Lips are dry and cracked		
BGL:	Chest:	PmHx: None	
-			
Vital Sign – Set 2	Equal chest rise and fall noted, shallow Inspiratory stridor and slight retractions noted	Last Meal: Dinner at 1830	
AVPU: Alert	No external trauma noted	Evente Briery Detient was descine in	
B/P: 116/70		Events Prior: Patient was sleeping in	
HR: 128, regular	Back:	her room. She has had a cold for the	
Resp: 16, labored	Unremarkable	last several days	
O₂ Sat: 96% (O ₂), 92% (room		Current on Immunizations? No	
air)	Abdomen/Pelvis:		
Pain: 2	No guarding noted upon quadrant palpation	Patient Weight: 21kgs	
GCS : 15 (4, 5, 6)	No trauma noted		
BGL: 72 mg/dl (if obtained)	Pelvis stable		
Vital Sign – Set 3	Extramity	Notes:	
AVPU: Alert	Extremity: No trauma noted to legs or arms	Body Temp: 101.4 F	
B/P: 116/66	PMS x 4		
HR: 132, regular		ECG: Sinus Tachycardia	
Resp: 18, labored	Other:		
O ₂ Sat: 96% (O2), 90% (room	Skin: Pink, Hot, Dry	As you take the child outside, you note	
air)	No step off's or tenderness noted to neck	a relaxation and decreased coughing	
Pain: 2		Datiant can snaak in 2 to 4 word	
GCS : 15 (4, 5, 6)		Patient can speak in 3 to 4-word	
BGL: 15 (4, 5, 6)		sentences	
	-	Transport Consideration:	
Suggested Treatment: O ₂ , Monitor, Airway		Transport Consideration:	
management, Positioning		Securing patient properly on cot Position of comfort	
management, rositioning			

CROUP

Additional Things to Consider about the Scene:

- Are any other family members sick
- Family centered care

Additional Things to Consider during Treatment/Transport:

- Keeping the patient calm is imperative as the airway is already compromised
- Is the child scheduled to see a pediatrician for an immunization update
- When transporting, do not have the heater on full blast nor pointed directly on patient
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- American Academy of Pediatrics: Healthy Children
 - https://www.healthychildren.org/English/health-issues/conditions/chestlungs/Pages/Croup-Treatment.aspx
- Easy Auscultation: Lung Sounds Training Sessions
 - o https://www.easyauscultation.com/lung-sounds



Things to consider based on your EMS protocols, procedures and/or policies:

*Graphic obtained from news-medical.net

BRONCHITIS

Goals/Objectives:	Dispatch Information:	
 Assess and secure airway Recognition of importance for position of comfort Recognition of transport 	You are dispatched to the local elementary school. The school nurse states she has a 9 year-old male having trouble breathing and keeps coughing. Patient has had a cold fo the last 2-3 days and today is his first day back. School nurse advises they are unable to reach the patient's parents.	
necessity	Chief Complaint:	Additional Resources Requested:
	Shortness of Breath, Increased fatigue	Police and Fire Department, ALS

Scene Description:

- Early December, mid-morning around 1030
- School security personnel escort you to the school nurse's office
- Patient is noted to be on the exam table, nurse at his side with 4 other children with cold-like symptoms in the office

Initial Impression: Patient is noted to struggling for air and restless. Patient has taken off his sweater and undershirt is noted to be sweaty. Wheezing can be heard upon moving closer to the patient.

Vital Sign – Set 1	Physical Exam	HPI: Patient cannot 'shake' this cold
AVPU: Alert	HEENT:	S/S: Headache, Sore throat, Tired,
B/P : 122/70	Head: Unremarkable	Shortness of breath, Fever
HR: 130, regular	Eyes: PERL	Shorthess of Breath, rever
Resp: 28, shallow	Ears: Right ear is red in color	Allergies: NKDA
O2 Sat: 88% (room air)	Nose: Snot noted to be dripping from nose	
Pain:	Oral Cavity: Unremarkable	Medications: Cough medicine for the
GCS: 15 (4,5,6)	, Cough noted with phlegm production	last 2 days
BGL:		PmHx: Recent cold
Vital Sign – Set 2	Chest:	
AVPU: Alert	Equal chest rise and fall noted, shallow	Last Meal: Donut around 0800
B/P: 122/80	Wheezing noted in upper lobes	
HR: 134, regular	Retractions present	Events Prior: Patient was in math class
Resp: 30, shallow	No external trauma noted	when he started feeling anxious and
O 2 Sat: 94% (O2), 86% (room	Back:	could not catch his breath
air)	Unremarkable	Current on Immunizations? Yes
Pain: 0		
GCS : 15 (4, 5, 6)	Abdomen/Pelvis:	Patient Weight: 40kgs
GCS: 15 (4, 5, 6) BGL: 94 mg/dl		Patient Weight: 40kgs
GCS: 15 (4, 5, 6) BGL: 94 mg/dl Vital Sign – Set 3	Abdomen/Pelvis:	Patient Weight: 40kgs Notes:
GCS: 15 (4, 5, 6) BGL: 94 mg/dl Vital Sign – Set 3 AVPU: Alert	Abdomen/Pelvis: No guarding noted upon quadrant palpation	Patient Weight: 40kgs
GCS: 15 (4, 5, 6) BGL: 94 mg/dl Vital Sign – Set 3 AVPU: Alert B/P: 120/78	Abdomen/Pelvis: No guarding noted upon quadrant palpation No trauma noted Pelvis stable	Patient Weight: 40kgs Notes: Body Temp: 101.0 F
GCS: 15 (4, 5, 6) BGL: 94 mg/dl Vital Sign – Set 3 AVPU: Alert B/P: 120/78 HR: 132, regular	Abdomen/Pelvis: No guarding noted upon quadrant palpation No trauma noted Pelvis stable Extremity:	Patient Weight: 40kgs Notes:
GCS: 15 (4, 5, 6) BGL: 94 mg/dl Vital Sign – Set 3 AVPU: Alert B/P: 120/78 HR: 132, regular Resp: 30, shallow	Abdomen/Pelvis: No guarding noted upon quadrant palpation No trauma noted Pelvis stable Extremity: No trauma noted to legs or arms	Patient Weight: 40kgs Notes: Body Temp: 101.0 F
GCS: 15 (4, 5, 6) BGL: 94 mg/dl Vital Sign – Set 3 AVPU: Alert B/P: 120/78 HR: 132, regular Resp: 30, shallow O ₂ Sat: 96% (O2/neb), 86%	Abdomen/Pelvis: No guarding noted upon quadrant palpation No trauma noted Pelvis stable Extremity:	Patient Weight: 40kgs Notes: Body Temp: 101.0 F ECG: Sinus Tachycardia
GCS: 15 (4, 5, 6) BGL: 94 mg/dl Vital Sign – Set 3 AVPU: Alert B/P: 120/78 HR: 132, regular Resp: 30, shallow O ₂ Sat: 96% (O2/neb), 86% (room air)	Abdomen/Pelvis: No guarding noted upon quadrant palpation No trauma noted Pelvis stable Extremity: No trauma noted to legs or arms	Patient Weight: 40kgs Notes: Body Temp: 101.0 F ECG: Sinus Tachycardia Patient only able to speak in 4-5-word
GCS: 15 (4, 5, 6) BGL: 94 mg/dl Vital Sign – Set 3 AVPU: Alert B/P: 120/78 HR: 132, regular Resp: 30, shallow O ₂ Sat: 96% (O2/neb), 86% (room air) Pain: 0	Abdomen/Pelvis: No guarding noted upon quadrant palpation No trauma noted Pelvis stable Extremity: No trauma noted to legs or arms PMS x 4 Other:	Patient Weight: 40kgs Notes: Body Temp: 101.0 F ECG: Sinus Tachycardia Patient only able to speak in 4-5-word sentences. States nothing is helping him catch his breath
GCS: 15 (4, 5, 6) BGL: 94 mg/dl Vital Sign – Set 3 AVPU: Alert B/P: 120/78 HR: 132, regular Resp: 30, shallow O ₂ Sat: 96% (O2/neb), 86% (room air) Pain: 0 GCS: 15 (4, 5, 6)	Abdomen/Pelvis: No guarding noted upon quadrant palpation No trauma noted Pelvis stable Extremity: No trauma noted to legs or arms PMS x 4	Patient Weight: 40kgs Notes: Body Temp: 101.0 F ECG: Sinus Tachycardia Patient only able to speak in 4-5-word sentences. States nothing is helping
GCS: 15 (4, 5, 6) BGL: 94 mg/dl Vital Sign – Set 3 AVPU: Alert B/P: 120/78 HR: 132, regular Resp: 30, shallow O ₂ Sat: 96% (O2/neb), 86% (room air) Pain: 0 GCS: 15 (4, 5, 6) BGL:	Abdomen/Pelvis: No guarding noted upon quadrant palpation No trauma noted Pelvis stable Extremity: No trauma noted to legs or arms PMS x 4 Other: Skin: Pale, Warm, Moist	Patient Weight: 40kgs Notes: Body Temp: 101.0 F ECG: Sinus Tachycardia Patient only able to speak in 4-5-word sentences. States nothing is helping him catch his breath Patient states he is getting tired
GCS: 15 (4, 5, 6) BGL: 94 mg/dl Vital Sign – Set 3 AVPU: Alert B/P: 120/78 HR: 132, regular Resp: 30, shallow O ₂ Sat: 96% (O2/neb), 86% (room air) Pain: 0 GCS: 15 (4, 5, 6) BGL: Suggested Treatment:	Abdomen/Pelvis: No guarding noted upon quadrant palpation No trauma noted Pelvis stable Extremity: No trauma noted to legs or arms PMS x 4 Other: Skin: Pale, Warm, Moist	Patient Weight: 40kgsNotes: Body Temp: 101.0 FECG: Sinus TachycardiaPatient only able to speak in 4-5-word sentences. States nothing is helping him catch his breathPatient states he is getting tiredTransport Consideration:
GCS: 15 (4, 5, 6) BGL: 94 mg/dl Vital Sign – Set 3 AVPU: Alert B/P: 120/78 HR: 132, regular Resp: 30, shallow O ₂ Sat: 96% (O2/neb), 86% (room air) Pain: 0 GCS: 15 (4, 5, 6) BGL:	Abdomen/Pelvis: No guarding noted upon quadrant palpation No trauma noted Pelvis stable Extremity: No trauma noted to legs or arms PMS x 4 Other: Skin: Pale, Warm, Moist	Patient Weight: 40kgsNotes: Body Temp: 101.0 FECG: Sinus TachycardiaPatient only able to speak in 4-5-word sentences. States nothing is helping him catch his breathPatient states he is getting tired

BRONCHITIS

Additional Things to Consider about the Scene:

- Any recent illnesses or outbreaks within the school community
- Family centered care

Additional Things to Consider during Treatment/Transport:

- Encourage patient to excrete phlegm if coughed up, produced
- Continuous monitoring and notation of lung sound changes
- Obtain contact information to guardians listed in school paperwork
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- The Nemours Foundation
 - o https://kidshealth.org/en/teens/bronchitis.html
 - Easy Auscultation: Lung Sounds Training Sessions
 - o https://www.easyauscultation.com/lung-sounds



Things to consider based on your EMS protocols, procedures and/or policies:

Bronchodilator

*Graphic obtained from news-medical.net

EPIGLOTTITIS

Goals/Objectives:	Dispatch Information:	
 Assess and secure airway 	You are responding to a 6-year-old female with difficulty swallowing. Patient is also	
 Recognition of stridor and 	having some trouble breathing. She has been sick for a few days, but this is a sudden	
possible epiglottitis	onset and she is drooling a lot.	
• Recognition of importance for		
position of comfort	Chief Complaint:	Additional Resources Requested:
 Transport necessity 	Difficulty Swallowing, difficulty breathing	Police and Fire Department, ALS
Scene Description:	•	
Assess and secure airway		

Assess and secure airway

- Upon arrival, a man waves from the front porch, then steps inside the open door
- The living room is tidy. A female is noted to be sitting next to the patient
- Male identifies as patient's father, and female as patient's mother

Initial Impression: Patient is sitting with hands clutching edge of sofa cushions. Patient's eyes lift to meet the crew, and she looks scared. Significant amount of drool noted to be dripping from patient's mouth and into a towel on her lap.

she looks scared. Significant amount of droof noted to be dripping from patient's mouth and into a tower of her lap.			
Vital Sign – Set 1	Physical Exam	HPI: Has been sick with sore throat,	
AVPU: Alert	HEENT:	cough last few days. Suddenly unable	
B/P : 108/70	Head: No trauma noted	to swallow in last 30min, got worse	
HR: 124, regular	Eyes: PERL	with drooling	
Resp: 30, shallow	Ears: Unremarkable		
O ₂ Sat: 98% (room air)	Nose: Unremarkable	S/S: large amount of saliva out of	
Pain: 0	Oral Cavity: Pink, mouth slightly open,	mouth, shallow breathing, stridor audible	
GCS : 15	significant amount of saliva dripping	audible	
BGL: (see below if requested)		Allergies: Penicillin	
Vital Sign – Set 2	Chest:		
AVPU: Alert	Equal chest rise and fall noted	Medications: None	
B/P: 99/62	Clear lung fields	PmHx: None	
HR: 126, regular	Stridor noted with respirations		
Resp: 32, shallow	Shallow breathing, nonlabored	Last Meal: Lunch, approx. 3 hours ago	
O ₂ Sat: 97% (room air); 98%	Back:	Evente Drien March 19	
(nebulizer applied)	No external trauma noted	Events Prior: Was reading	
Pain: 0		Current on Immunizations? Yes	
GCS : 15	Abdomen/Pelvis:		
BGL: 78 mg/dl	No guarding noted upon quadrant palpation	Patient Weight: 29kgs	
Vital Sign – Set 3	No trauma noted Pelvis stable	Notes:	
AVPU: Alert	Pelvis stable	Body Temp: 101.2F	
B/P: 104/70	Extremity:	FCC: Cinus Taskysandia, na astany	
HR: 122, regular	No trauma noted to legs or arms	ECG: Sinus Tachycardia, no ectopy	
Resp: 32, shallow	PMS x 4	Patient tolerates the nebulizer for	
O ₂ Sat: 98% (room air/O2/neb)	Othory	nebulized epinephrine (or racemic	
Pain: 0	Other:	epinephrine) treatment	
GCS : 15	Skin: Warm		
BGL:	No step off's or tenderness noted to neck		
Suggested Treatment:		Transport Consideration:	
O ₂ , Monitor, IV, Airway		Securing patient properly on cot	
Management			
	- 36 -		

EPIGLOTTITIS

Additional Things to Consider about the Scene:

• Family centered care

Additional Things to Consider during Treatment/Transport:

- Information on recent illness
- Acute epiglottitis usually leads to generalized toxemia
- There is no seasonal predilection to epiglottitis
- Tracheal intubation of a patient with epiglottitis must be regarded as a potentially difficult procedure
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- American Academy of Pediatrics: Healthy Children
 - www.healthychildren.org/English/health-issues/conditions/ear-nosethroat/Pages/Epiglottitis.aspx



Things to consider based on your EMS protocols, procedures and/or policies:

*Graphic obtained from YouTube
TRACHEOSTOMY

Goals/Objectives:	Dispatch Information:	
 Assess and maintain airway Recognition of need to suction trach Recognition of transport 	You are responding to a 2-year-old male with difficulty breathing. Patient has a tracheostomy since motor vehicle accident that happened six months ago. He has also had a fever for the last several days. Patient is on his own ventilator that parent is willing to operate during transport.	
necessity	Chief Complaint:	Additional Resources Requested:
	Difficulty breathing, Fever	Police and Fire Department, ALS

Scene Description:

- As you arrive, you note a wheelchair ramp to the front porch, leading from the driveway
- Patient has a trach and is on a home ventilator. Hallways are wide enough for a cot to be maneuvered
- Patient's mother says she had to increase patient's FiO₂ on the ventilator from his normal 30% to 80% to keep his SpO₂ normal.

Initial Impression: Patient is sitting in an at-home hospital bed, semi-fowler's position. You hear noisy breathing and the patient has a wet cough with weak effort. He looks at you when you enter the room.

Vital Sign – Set 1 AVPU: Alert B/P: 88/56 HR: 124, regular Resp: 40, shallow O ₂ Sat: 98% (FiO ₂ 80%)	Physical Exam HEENT: Head: No trauma noted Eyes: PERL, Spontaneous movement Ears: Unremarkable Nose: Some nasal drainage, yellow/cloudy;	 HPI: Fever for three days, increasing congestion. More lethargic than normal. Normally off except for at night, but today 100% usage S/S: Fever, skin hot and flushed, tachycardic, lethargic, decreased SpO₂
Pain: 0 GSC: 12 (able to make sounds) BGL: (see below if requested) Vital Sign – Set 2 AVPU: Alert 0/58 HR: 122, regular	Neck: Trach in place, secured around the neck Oral Cavity: Pink, slightly dry; mom recently applied chapstick-type protectant to lips Chest: Equal chest rise and fall noted Coarse lung sounds	Allergies: Penicillin (hives) Medications: Tylenol, ibuprofen for fever; probiotics, multivitamin, DHA PmHx: MVC resulting TBI; pneumonia
Resp: 44, shallow O ₂ Sat: 98% (FiO ₂ 80%) Pain: 0 GSC: 12 (able to make sounds) BGL: 90 mg/dl	Shallow breathing, nonlabored Frequent weak coughs, wet Back: No external trauma noted	Last Meal: via GI tube, 2 hour ago Current on Immunizations? Yes Patient Weight: 12.7kg
Vital Sign – Set 3 AVPU: Alert B/P: 87/56 HR: 126, regular Resp: 40, shallow (no change with any treatments) O ₂ Sat: 98% (FiO ₂ 80%) Pain: 0 GSC: 12 (able to make sounds) BGL:	Abdomen/Pelvis: All quadrants soft and non-tender Pelvis stable GI tube in place, looks clean Extremity: No trauma noted to legs or arms Other: Skin: hot to touch, flushed No recent trauma known	Notes: Body Temp: 103.2 F EKG: Sinus Tachycardia, no ectopy Patient uses cloth diapers, which mom recently changed; fewer number of wet diapers than normal. Patient's mom can accompany patient & operate the transport ventilator
Suggested Treatment: Suction, O ₂ , Steroids, position of comfort, monitor		Transport Consideration: Securing patient properly on cot, Parent ride along/ventilator use

TRACHEOSTOMY

Additional Things to Consider about the Scene:

- Maintain as sterile environment as you can
- Family centered care

Additional Things to Consider during Treatment/Transport:

- The guardian will be your most abundant resource
- D-O-P-E = Dislodged, Obstructed, Pneumothorax, Equipment
- Alerting receiving hospital about additional medical needs; ventilator, replacement trach
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- Nationwide Children's
 - o www.nationwidechildrens.org/tracheostomy-care-how-to-suction-your-childs-trach-tube





Things to consider based on your EMS protocols, procedures and/or policies:

*Graphic 1 obtained from amdnext.com *Graphic 2 obtained from Fairview.org

PAGE INTENTIONALLY LEFT BLANK

TRAUMA SCENARIOS



CHILD ABUSE

Goals/Objectives:	Dispatch Information:	
 Stay nonjudgmental and calm 	You are dispatched to a 2-year-old lethargic male patient at a local daycare. Guardian	
 Recognition of suspected 	dropped off the patient approximately 20 minutes ago and stated that the patient was	
abuse, injury pattern	more tired this morning than normal. Staff states that the patient is now vomiting and	
 Recognition of transport 	keeps falling asleep.	
necessity to appropriate	Chief Complaint:	Additional Resources Requested:
facility	Lethargic patient, vomiting	Police and Fire Department, ALS

Scene Description:

- It is a warm, summer morning at 0815
- Patient is found in the front office being held by a staff member. Another member is trying to make contact with family
- Patient is noted to be in his long sleeve pajamas. Staff state these are the clothes that he came in this morning
- Small amounts of vomitus is noted on patients hands, shirt and on the staff member holding him

Initial Impression: Patient makes no eye contact with EMS upon arrival and lays limp without movement during your assessment. Bruising is noted on the patients left ear and he moans when you touch the left side of his head

Vital Sign – Set 1	Physical Exam	HPI: Patient refused to wake for
AVPU: Verbal	LIFENT.	breakfast. 5 minutes after, he started
B/P: 90/60	HEENT:	projectile vomiting
HR: 130, regular	Head: Hematoma noted to the left temporal Eyes: Left pupil is sluggish, Right is dilated	
Resp: 24, shallow	Ears: Bruising noted to left ear	S/S: Vomited approx. 50cc's
O ₂ Sat: 96% (room air)	Nose: Unremarkable	Allergies: None on file
Pain:	Oral Cavity: Child is missing teeth	
GCS : 10 (3,3,4)	Patient able to clear and control own airway	Medications: None on file
BGL:	,	PmHx: An unexplained seizure approx.
Vital Sign – Set 2	Chest:	4 weeks ago
AVPU: Verbal	Equal chest rise and fall noted, shallow	
B/P: 94/82	Lung sounds clear	Last Meal: Patient refused breakfast
HR: 126, regular	Bruises of different colors noted to left side	
Resp: 24, shallow	Back:	Events Prior: Patient has laid on the
O ₂ Sat: 98% (O ₂) and 96%	Red marks are noted on left lower back	floor since being brought to school.
(room air)		Guardian denied any illnesses
Pain:	Abdomen/Pelvis:	Current on Immunizations? Yes
GCS : 10 (3,3,4)	Guarding noted in left lower quadrant	
BGL: 80 mg/dl (if assessed)	Slight distention noted to upper quadrants	Patient Weight: 9kgs
Vital Sign – Set 3	Pelvis stable	Notes:
AVPU: Verbal	Extremity:	ECG: Sinus Tachycardia
B/P: 96/76	Bruising noted to upper extremities	Shaff matter that matient has been
HR: 132, regular	PMS x 4 (presumed, since child moves limb	Staff notes that patient has been having increased wet diapers and
Resp: 24, shallow	away when pain applied)	scares easily the last few weeks
O ₂ Sat: 98% (O ₂)	0//	scales easily the last lew weeks
Pain:	Other:	Staff state that no injury reports had
GCS : 10 (3,3,4)	Skin: Pale, warm	been filed recently at school
BGL:	Patient moans when neck is palpated	
Suggested Treatment:		Transport Consideration:
O ₂ , Monitor, IV access		Securing patient properly on cot
		Appropriate trauma facility

CHILD ABUSE

Additional Things to Consider about the Scene:

- Has staff noted any behavioral changes
- Is the incident described possible with injury patterns and/or evidence visualized on scene
- Family centered care; in this case, the daycare facility staff members

Additional Things to Consider during Treatment/Transport:

- Remove patient from dangerous or unhealthy situation and transport to hospital
- Trending of vital signs is important when considering suspected head trauma
- Documentation of statements by individuals on scene needs to be properly quoted
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility
- State law in Kansas states that as a prehospital care provider, you are a mandatory reporter of suspected child abuse. Follow local policy and procedure for reporting

Additional Educational Resources to Consider:

- South Carolina Department of Social Services
- Online child abuse recognition education provided by Children's Hospital Colorado
 - http://www.identifychildabuse.org/



Things to consider based on your EMS protocols, procedures and/or policies:

_Nearest trauma center (see page 60-61) _____

*Graphic obtained from Pediatric EM Morsels

MOTOR VEHICLE CRASH

Goals/Objectives:	Dispatch Information:	
 Remove patient from dangers 	You are responding to a rollover accident with a known fatality of the driver and a 4	
 Assess and secure airway 	year-old ejected patient. Vehicle was traveling at highway speeds when it lost control	
• Recognition of Cushing's Triad	and rolled 3 times after going off the road. A nurse is on scene maintain c-spine and is	
 Recognition of transport 	triaging code red.	
necessity to most appropriate	Chief Complaint:	Additional Resources Requested:
facility	MVC, Ejection	Police and Fire Department, ALS
Scene Description:		
	0. A thunderstorm came through last night and ar	rea received 2 inches of rain
• The patient is found approxima	tely 10 feet from the vehicle. Extensive damage is	s noted to SUV
• Patient is face up in a muddy fie	eld with bystanders at his side	
Initial Impression: Multi-system	trauma patient. Patient ejected and found approx	ximately 10 feet from vehicle.
Vital Sign – Set 1	Physical Exam	HPI: Bystanders state that the patier
AVPU: Painful appropriate		came out of an open window on the 2
B/P: 130/80	HEENT:	rollover of the vehicle
	Head: Abrasion noted to right temporal	
HR: 70, regular	Eyes: Sluggish	S/S: Decreased LOC, Incontinenc
Resp: 14, shallow	Ears: Unremarkable	noted, shallow breathing
O ₂ Sat: 94% (room air)	Nose: Blood noted to right nostril	
Pain:	Oral Cavity: Unremarkable	Allergies: Unknown
GCS: 9 (2, 2, 5)	Patient currently breathing on his own	
BGL:	, 3	Medications: Unknown
Vital Sign – Set 2	Chest:	PmHx: Unknown
AVPU: Painful appropriate	Equal chest rise and fall noted, shallow	FIIIIX. OIKIOWII
B/P: 134/80	Lung sounds clear, slightly diminished in right	Last Meal: Unknown
	upper lobe	
HR: 68, regular	Laceration noted to right thoracic, no blood	Events Prior: Patient's vehicle wa
Resp: 12, shallow		traveling at highway speed and for
O ₂ Sat: 94% (O2) 90% (room	Back:	unknown reasons left the roadway
air)	Redness noted to right lower back	
Pain:	Abdomen/Pelvis:	Current on Immunizations? Unknow
GCS : 9 (2, 2, 5)	No rebound tenderness noted	Patient Weight: 18kgs
BGL: 80 mg/dl (if assessed)	Pelvis stable	Patient weight: 18kgs
Vital Size Sat 2		Notoci
Vital Sign – Set 3	Extremity:	Notes:
AVPU: Painful appropriate	Small lacerations noted to all extremities	Body Temp: 98.5 F
B/P : 140/90	Bleeding is controlled. No deformities noted	ECG: Sinus and Sinus Bradycardia
HR: 52, regular	PMS x 4 (presumed, since child moves limb	
Resp: 12, shallow	away when pain applied)	Patient vomits as you begin transport
O ₂ Sat: 96% (Interventions)	0.1	
88% (Room air or just O ₂)	Other:	Reassessment of lung sounds revea
Pain:	Skin: Pale, warm	right side is now absent (during
GCS: 9 (2, 2, 5)	No step off's or tenderness noted to neck	transport)
BGL:	Patient whimpers as you palpate extremities	
Suggested Treatment:		Transport Consideration:
O ₂ , Monitor, C-spine, IV, Airway	during your assessment	Securing patient properly on cot
management		

MOTOR VEHICLE CRASH

Additional Things to Consider about the Scene:

- Provider and bystander safety; vehicle stability if working below or around vehicle
- Safe removal of patient from field to ambulance
- Family centered care

Additional Things to Consider during Treatment/Transport:

- Preparation of and for airway management
- Preparation of and for seizure activity
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- Pediatric Trauma Society: Clinical Resources
 - o http://pediatrictraumasociety.org/resources/clinical-resources.cgi
- Cushing's Triad
 - o http://www.emergencymedicalparamedic.com/what-is-cushings-triad/



Things to consider based on your EMS protocols, procedures and/or policies:

_ Nearest trauma center (see page 60-61) _____

*Graphic obtained from slideshare.net

NEAR DROWNING

Dispatch Information:

Goals/Objectives:

 Assess and secure airway 	You are responding to a possible drowning at the local swimming pool. Swim lessons are being conducted, however the patient is a 4-year-old male, not participating in any class. Patient was reported underwater for 2-3 minutes.	
 Treatment of hypothermia 		
• Recognition of risk and/or		
presence of secondary trauma		
• Recognition of transport	Chief Complaint:	Additional Resources Requested:
necessity	Difficulty Breathing	Police and Fire Department, ALS
Scene Description:		•
• Community Pool going from 2	foot to 10 foot in water depth and has been open	for one week
• It is a May evening with ambie	nt temperature noted to be 64 degrees Fahrenhe	t
• As you arrive you note multiple	e parents and children crying and waving you into	the gated area
• Lifeguard on scene is kneeling	with patient. Patient in sitting upright position ag	ainst the chain link fence
Initial Impression: Patient is in	regular street clothes noted to be wet sitting upri	ght, coughing and whimpering
Vital Sign – Set 1	Physical Exam	HPI: See events prior below
AVPU: Alert		
B/P: 88/52	HEENT:	S/S: Vomit, coughing, anxious
HR: 124, regular	Head: No trauma noted	
Resp: 28, unlabored	Eyes: PERL	Allergies: NKDA
O ₂ Sat: 92% (room air)	Ears: Unremarkable	Medications: Multivitamin
Pain:	Nose: Clear fluid noted	
GCS: 14	Oral Cavity: Vomitus noted	PmHx: Unremarkable
BGL:	Patient able to clear and control own airway	
Vital Sign – Set 2	Chest:	Last Meal: Eating snack 5 min before
AVPU: Alert	Equal chest rise and fall noted	Events Brier: Datient was playing pear
B/P : 90/62	Crackles noted in lower lobes	Events Prior: Patient was playing near pool when pregnant mother saw him
HR: 108, regular	Upper lung lobes clear	leaning over to retrieve a toy
Resp: 24, nonlabored	No external trauma noted	
O ₂ Sat: 98% (O2 applied)		Current on Immunizations? Yes
Pain: 0	Back:	
GCS: 15	No external trauma noted	Patient Weight: 16kgs
BGL: 87 mg/dl		
Vital Sign – Set 3	Abdomen/Pelvis:	Notes:
AVPU: Alert	No guarding noted upon quadrant palpation	Body Temp: 97.1
B/P: 90/70	All quadrants soft and slight distension noted	EKG: Sinus Tachycardia
-	to upper left quadrant Pelvis stable	
HR: 112, regular		Patient vomits approx. 100cc's during
Resp: 24, nonlabored	Extremity:	packaging for transport
O ₂ Sat: 98% (O2 applied)	No trauma noted to legs or arms	
Pain: 0	PMS x 4	
GCS: 15		
BGL:	Other:	
Suggested Treatment:	Skin: Cool, pale and damp	Transport Consideration:
O ₂ , Suction, Monitor,	No step off's or tenderness noted to neck	Securing patient properly on cot
	No step off s or tenderness noted to neck	Parent or guardian ride along

NEAR DROWNING

Additional Things to Consider about the Scene:

- Water temperature
- Chemicals of the pool and last treatment
- Family centered care

Additional Things to Consider during Treatment/Transport:

- Drying and warming of the patient
- Patient modesty if/when removing clothing
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- Consumer Product Safety Commission
 - https://www.cpsc.gov/safety-education/neighborhood-safetynetwork/toolkits/drowning-prevention
- South Carolina Safe Kids
- Local recreation boards



Things to consider based on your EMS protocols, procedures and/or policies:

_Nearest trauma center (see page 60-61) _____

*Graphic obtained from International Drowning Research Alliance (IDRA)

BURN; SMOKE INHALATION

Goals/Objectives:	Dispatch Information:	
 Assess and secure airway 	The fire department has requested you to respond to a scene of an extinguished house	
 Assess for risk of secondary 	fire. Patient is a 16-year-old male that was asleep in the basement when he heard the	
trauma	smoke detectors going off. He awoke to find a fire on the upper level of his home.	
 Recognition of transport 		
necessity and destination	Chief Complaint:	Additional Resources Requested:
	Trouble breathing; possible smoke inhalation	Police and Fire Department, ALS
Scene Description:		
	t being attended to by the fire department	
	gone back into the home numerous time trying to	remove animals
 Home is a complete loss accor 	ding to fire department	
	ving a hard time catching his breath and can only	speak in short sentences. Patient is note
to have a continuous cough tha		
Vital Sign – Set 1	Physical Exam	HPI: See Events Prior
AVPU: Alert	HEENT:	S/S: Cough; producing soot, nauseate
B/P: 130/80	Head: Unremarkable	oro. cough, producing soot, hauseate
HR: 125, regular	Eyes: PERL	Allergies: NKDA
Resp: 26, labored, shallow	Ears: Unremarkable	
O2 Sat: 92% (room air)	Nose: Singed nasal airs	Medications: None
Pain: 7	Oral Cavity: Lips noted to be red and swollen	Dealling Dealling
GCS: 15	Patient able to clear and control own airway	PmHx: Broken leg two years ago
BGL:		Last Meal: Lunch 12 hours ago
Vital Sign – Set 2	Chest:	
AVPU: Alert	Equal chest rise and fall noted, shallow	Events Prior: Sleeping when awake
B/P: 126/84	Lung sounds diminished in all lobes	by house on fire. Patient spent appro
•	No external trauma noted	15 minutes getting animals before fin
HR: 115, regular		department removed him from scene
Resp: 28, labored, shallow	Back:	
O ₂ Sat: 96% (O ₂) 92% (room	Unremarkable	Current on Immunizations? Yes
air)	Abdomen/Pelvis:	Patient Weight: 54kgs
Pain: 7	No guarding noted upon quadrant palpation	Fallent Weight. 54kgs
GCS: 15	No trauma noted	
BGL: 105 mg/dl	Pelvis stable	Notes:
Vital Sign – Set 3		
AVPU: Alert	Extremity:	Body Temp:
B/P: 132/90	First degree burns noted to hands	ECG: Sinus Tachycardia
HR: 118, regular	PMS x 4	
Resp: 28, labored, shallow	Other	Patient requests a drink of water
O ₂ Sat: 98% (nebulizer) 96%	Other:	numerous times during contact
(O ₂)	Skin: Pale, warm	
Pain: 7	No step offs or tenderness noted to neck	Patient has increased nausea during
GCS: 15		transport
BGL:	Patient complains of throat scratching and	
Suggested Treatment:	hurting	Transport Consideration:

Secure patient properly on cot

Position of comfort for breathing

O₂, Monitor, IV, Pain and

Airway Management

BURN; SMOKE INHALATION

Additional Things to Consider about the Scene:

- Safe access and egress from fire scene
- Family centered care

Additional Things to Consider during Treatment/Transport:

- Remove patient for burn source and/or stop the burning process
- Oxygen should be delivered via Nonrebreather at 15 liters
- O₂ saturations may <u>*not*</u> be reliable.
 - \circ The sensor could be measuring both carbon and oxygen as 'good' O₂
- Prepare to secure airway for patient if he is unable to maintain own airway
 - Prepare for increased swelling and unidentifiable landmarks
- Keep patient compartment warm in ambulance, assessing for signs of shock
- Do not fluid overload the patient. Follow protocols for proper fluid administration
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport patient in position of comfort, ease of breathing
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- American Burn Association
 - o http://ameriburn.org/education/



Things to consider based on your EMS protocols, procedures and/or policies:

_Calculation method for Total Body Surface Area (TBSA)

_Calculation method for Fluid Resuscitation_____

_Nearest verified Burn Center_____

*Graphic obtained from clincalgate.com

BURN; ACCIDENTAL SCALDING

Goals/Ob	ectives:
----------	----------

- Assess and secure airway
- Recognition of splash patterns and additional burns

Dispatch Information:

You are dispatched to a local retirement center when the caller states her 3-year-old grandson pulled a cup of coffee off the table and onto his face and arm. Caller states that the little boy is crying and scared but will not let go of her, so she can see the injured area.

Additional Resources Requested:

Police and Fire Department, ALS

 Recognition of transport necessity to appropriate facility

Scene Description:

• Escorted by security to an independent living area of the retirement community

Burn injury

Chief Complaint:

- Female is holding patient on her lap and he has his head hidden from you as you enter the tidy living room
- Grandmother states she made a cup of coffee and set it on the table to get patient's breakfast. 16oz cup was full
- Cup noted on floor with coffee stained carpet

Initial Impression: Possible 1st and 2nd degree burns noted to visible area of patient's head, face and arm. Patient able to speak but will only talk to grandmother. No distress noted as he is crying.

Vital Sign – Set 1	Physical Exam	HPI: Grandmother was 3 feet away
AVPU: Alert	HEENT:	when patient pulled cup down
B/P: 90/60	Head: Left temporal area is red and small	S/St Deduces to left hand, lower and
HR: 132, regular	blisters noted	S/S: Redness to left hand, lower and upper arm. Redness and blisters noted
Resp: 24, nonlabored	Eyes: PERL	to left side of head and face
O ₂ Sat: 97% (room air)	Ears: Left ear is red	to left side of field and face
Pain: 8	Nose: Unremarkable	Allergies: None
GCS : 15 (4, 5, 6)	Oral Cavity: Unremarkable	-
BGL:	Patient able to clear and control own airway.	Medications: Multivitamin
Vital Sign – Set 2	Left side of face is red, small blisters noted	PmHx: None
AVPU: Alert		FIIIIX. None
B/P: 92/70	Chest:	Last Meal: Cracker 20 minutes ago
HR: 136, regular	Equal chest rise and fall noted	
Resp: 24, nonlabored	Lung sounds clear	Events Prior: Patient was preparing to
O ₂ Sat: 97% (room air)	Left side of thorax is red when exposed	eat breakfast at kitchen table
Pain: 8	Back:	Current on Immunizations? Yes
GCS : 15 (4, 5, 6)	Unremarkable	
BGL: 82 mg/dl (if assessed)		Patient Weight: 14kgs
Vital Sign – Set 3	Abdomen/Pelvis:	Notes:
AVPU: Alert	No guarding noted upon quadrant palpation	Body Temp: 99.0
B/P: 88/64 (with medication)	No trauma noted	body remp. 55.0
HR: 130, regular	Pelvis stable	ECG: Sinus Tachycardia
Resp: 22, nonlabored	Extremity:	
O ₂ Sat: 97% (room air)	Left hand, upper and lower arm is red	Shirt is removed to reveal 1 st degree
Pain: 7 (with medication)	PMS x 4	burns to left thorax. Shirt is wet and smells life coffee
GCS: 15 (4, 5, 6)		smens me conee
BGL:	Other:	Patient is noted to be left handed and
	Skin: Warm, Pink, Dry	grandmother confirms
Suggested Treatment:	No step off's or tenderness noted to neck	Transport Consideration:
O ₂ , Monitor, IV, Pain control		Securing patient properly on cot
		Position of comfort

BURN; ACCIDENTAL SCALDING

Additional Things to Consider about the Scene:

- Keep in mind splash patterns and secondary trauma sources
- Is the incident described possible with injury patterns and/or evidence visualized on scene
- Family centered care

Additional Things to Consider during Treatment/Transport:

- Pain Control; both positional in maintaining as sterile environment as possible and medications
- When measuring TBSA, remember that first degree burns <u>DO NOT</u> go into the calculation
- Keep patient compartment warm in ambulance, assessing for signs of shock
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Via Christi **TBSA Burn Age-Based Distribution** HEALTH 5-9 yrs 10-14 yrs 15-18 yrs 2° 3° Birth- 1 yr 1-4 yrs Adult Total Area 19 17 13 11 9 7 Head Neck 2 2 2 2 2 2 13 13 13 13 13 13 Ant Trunk Post Trunk 13 13 13 13 13 13 2.5 2.5 2.5 R. Buttock 2.5 2.5 2.5 L. Buttock 2.5 2.5 2.5 2.5 2.5 2.5 Genitalia 1 1 1 1 1 1 R. U. Arm 4 4 4 4 4 4 L. U. Arm 4 4 4 4 4 4 3 L.L. Arm 3 3 3 3 3 R. L. Arm 3 3 3 3 3 3 2.5 R. Hand 2.5 2.5 2.5 2.5 2.5 L. Hand 2.5 2.5 2.5 2.5 2.5 2.5 R. Thigh 5.5 6.5 8 8.5 9 9.5 L. Thigh 5.5 6.5 8 8.5 9 9.5 R. Leg 5 5 5.5 6 6.5 7 5.5 6.5 7 L. Leg 5 5 6 R. Foot 3.5 3.5 3.5 3.5 3.5 3.5 L. Foot 3.5 3.5 3.5 3.5 3.5 3.5 Total second degree _____% + Total third degree ____ % = TBSA burn %

Additional Educational Resources to Consider:

Things to consider based on your EMS protocols, procedures and/or policies:

Calculation method for Total Body Surface Area (TBSA) _____

Calculation method for Fluid Resuscitation ______

_Nearest verified Burn Center _____

*Graphic obtained from Via Christi Regional Burn Center, Wichita, Kansas

MV VS PEDESTRIAN

Goals/Objectives:	Dispatch Information:	
 Assess and secure airway 	Responding to a 4-year-old child hit by a car. Child's older sibling pulled victim to the side	
 Control bleeding 	of road after he was hit, then ran to nearest house to call 911. Vehicle sped off after	
 Treatment of hypothermia 	striking child, reportedly at high rate of speed.	
• Assess/stabilize trauma		
• Treat pain	Chief Complaint:	Additional Resources Requested:
Recognize transport necessity	MVC; vehicle vs pedestrian Police and Fire Department, ALS	
Scene Description:		
• Spring Saturday afternoon, chil	d is located on curb across from a local ı	neighborhood park

• Patient is sitting upright and looks up as you approach. Patient's older sibling and grandmother are with him

Initial Impression: Patient is in regular street clothes noted to be sitting on curb, crying and holding head and left leg, left arm cradled to chest. Left leg noted to be bent at odd angle from thigh.

Vital Sign – Set 1 AVPU: Alert B/P: 108/72 HR: 112, regular Resp: 30, shallow O_2 Sat: 96% (room air) Pain: 8 on faces scale GCS: 15 Vital Sign – Set 2 AVPU: Alert B/P: 112/74 HR: 116, regular Resp: 30, nonlabored O_2 Sat: 96% (room air); 98% (O_2 applied) Pain: 4(with analgesia); 10 (no analgesia)	Physical Exam HEENT: Head: Large Scrape to forehead, over left eye Eyes: PEERL Ears: Scrape to left ear Nose: Dried blood noted around/under nostrils Oral Cavity: Patient says missing a tooth; dried blood noted, no continued bleeding Patient able to clear and control own airway Chest: Equal chest rise and fall noted, clear lungs Scrapes to left side of chest and left shoulder Back: Patient denies pain with palpation	S/S: Anxiety, tachycardic, pain; deformed L shoulder, L thigh Allergies: NKDA Medications: Multivitamin, Zyrtec PmHx: None Last Meal: Eating snack 5 min before Events Prior: Patient was walking to park with sibling and grandmother, when he ran to catch up with brother. Grandmother reports the truck driver was looking down and traveling very fast. Patient bounced away from truck, landed and laid still for a minute and then started to cry and move
GCS: 15 BGL: 97 mg/dl	Scrape seen to both sides, mid-back Abdomen/Pelvis:	Current on Immunizations? Yes Patient Weight: 18kgs
Vital Sign – Set 3 AVPU: Alert B/P: 110/70 HR: 112, regular Resp: 30, nonlabored O_2 Sat: 96% (room air); 98% (O_2 applied) Pain: 5(with analgesia); 10 (no analgesia) GCS: 15	No guarding noted upon quadrant palpation Pelvis stable, but patient screams when tested/palpated Extremity: PMS x 4 Left leg noted to be deformed at thigh Left clavicle noted to be deformed Complains of left shoulder, right leg and right hip pain	Patient weight. 18kgs Notes: Body Temp: 97.1 EKG: Sinus Tachycardia Patient's mother will meet at hospital (she is an RN there) Patient screams with movement and splinting of extremities; also, when pelvis is tested for stability
Suggested Treatment: Splinting, protect c-spine, monitor airway	Other: Skin: warm No step off's or tenderness noted to neck	Transport Consideration: Securing patient properly on cot Parent or guardian ride along

MV VS PEDESTRIAN

Additional Things to Consider about the Scene:

- Completely removing patient from roadway
- Removing patient off hot asphalt or gravel/sand
- Family centered care

Additional Things to Consider during Treatment/Transport:

- Modesty of the patient when removing clothing for assessment
- Keeping the patient warm and assessing for signs of shock
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- Pediatric Trauma Society: Clinical Resources
 - o http://pediatrictraumasociety.org/resources/clinical-resources.cgi
- Waddell's Triad of Trauma
 - http://www.emergencymedicalparamedic.com/what-is-waddell%E2%80%99s-triad-oftrauma/

Waddell's Triad

- Femur Fracture
- Intraabdominal or Intrathoracic injury
- Head Injury



Things to consider based on your EMS protocols, procedures and/or policies:

_Nearest trauma center (see page 60-61) _____

*Graphic obtained from clincalgate.com

ABDOMINAL INJURIES

Goals/Objectives:	Dispatch Information:	
 Assess and secure airway 	You are dispatched to a local bike path. Caller states he and his friends were riding the	
 Recognition of secondary 	bikes when their 10-year-old friend crashed into a tree. They are trying to get the patier	
trauma and/or shock	to the nearest roadway, but he is having a hard time walking because of the pain. The	
 Recognition of transport 	patient's parents are out of town and told the	kids to call an ambulance.
necessity	Chief Complaint:	Additional Resources Requested:
	Trauma, Bicycle accident	Police and Fire Department, ALS
Scene Description:		
• Cool, spring day. 62 degrees	F and sunny. Approximately 1530	
	aving at you as you enter the park area. All are visu	ally shaken as you exit ambulance
• Patient is noted to be laying	in the fetal position next to a mangled bicycle, dam	aged helmet is also lying next to bicycle
• One boy is speaking with the	patient's parents on the phone	
	m trauma patient. Patient looks to have removed n	
Vital Sign – Set 1	Physical Exam	HPI: Group has been riding on the
AVPU: Alert		paths since around 1000. All have o
B/P: 118/60	HEENT:	protective gear including helmets
HR: 132, regular	Head: No trauma noted, reports headache	
Resp: 26, nonlabored	Eyes: PERL Ears: Unremarkable	S/S: Abdominal pain, nausea
O ₂ Sat: 97% (room air)		headache, blurred vision, dizzy
Pain: 8	Nose: Unremarkable	Allergies: Shell fish
GCS: 15 (4, 5, 6)	Oral Cavity: Unremarkable	Anorgioe, shell lish
BGL:	Patient able to clear and control own airway	Medications: None
Vital Sime Sat 2	Chest:	
Vital Sign – Set 2	Equal chest rise and fall noted	PmHx: None
AVPU: Alert	Lung sounds clear	Last Meal: Lunch around noon
B/P : 116/80	No external trauma noted	
HR: 140, regular		Events Prior: Patient was going fast to
Resp: 26, nonlabored	Back:	make a jump when his foot slipped, an
O ₂ Sat: 98% (O ₂)	Unremarkable	he hit a tree with his front tire
Pain: 8	Abdomen/Pelvis:	
GCS: 15 (4, 5, 6)		Current on Immunizations? Yes
BGL: 92 mg/dl (if assessed)	Guarding noted in all quadrants Circular mark noted in left upper quadrant	Detient Weight ACher
N// 10: 0 / 0	Pelvis stable	Patient Weight: 46kgs
Vital Sign – Set 3		Notes:
AVPU: Alert	Extremity:	Body Temp: 99.2 F
B/P: 120/80	Small scrapes noted to upper extremities	ECG: Sinus Tachycardia
HR: 134, regular	PMS x 4	
Resp: 24, nonlabored		Patient complains of increased nause
O ₂ Sat: 98% (O ₂)	Other:	when he lays flat, wants to remain i
Pain: 8	Skin: Pale, warm	fetal position
GCS : 15 (4, 5, 6)	No step off's or tenderness noted to neck	
BGL:		Patient comments multiple times that
	Patient has increased abdominal pain upon	he is thirsty
Suggested Treatment:	reassessment during transport	Transport Consideration:
O ₂ , Monitor, Pain		Securing patient properly on cot
Management, C-spine		

ABDOMINAL INJURIES

Additional Things to Consider about the Scene:

- Is the incident described possible with injury patterns and/or evidence visualized on scene
- Are the handlebars bent on bicycle; damage to bike; damage to helmet
- Family centered care

Additional Things to Consider during Treatment/Transport:

- Early and late signs of shock; internal blood loss
- Modesty of patient when removed clothing during assessment
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- Pediatric Trauma Society: Clinical Resources
 - o http://pediatrictraumasociety.org/resources/clinical-resources.cgi

Blunt abdominal trauma is the third most common cause of pediatric trauma-related deaths. The spleen and liver are the most frequently injured organs, followed by the kidney, small bowel, and pancreas.





Things to consider based on your EMS protocols, procedures and/or policies:

_Nearest trauma center (see page 60-61)

*Graphic 1 obtained from sciencedirect.com *Graphic 2 obtained from clincalgate.com

GUN SHOT WOUND

Goals/Objectives:	Dispatch Information:		
 Scene Safety 	You have been dispatched to a farm home. Call	er advises that a 14-year-old male showed	
• Assess and secure airway	•	up saying he and his friends were dove hunting when he felt a 'punch' in his chest and	
• Recognition of entrance and	immediately started having difficulty breathing	g. Patient has walked nearly ¼ mile to the	
exit wounds, bleeding control	farmer's home asking for help.		
Recognition of transport	Chief Complaint:	Additional Resources Requested:	
necessity	Gun Shot Wound, Difficulty Breathing	Police and Fire Department, ALS	
Scene Description:	-	•	
 September afternoon around 2 	1300. Clear, sunny and 65 degrees F outside		
Arrive to home to find farmer	and patient sitting out front. Farmer advises he ha	as secured patient's gun	
 Patient appears restless and in 	nmediately starts walking towards the ambulance		
Initial Impression: Patient's shi	rt is unbuttoned, and a small hole noted below th	e sternum. A small amount of blood is	
	n speak in full sentences and then gasps for air.		
Vital Sign – Set 1	Physical Exam	HPI:	
AVPU: Alert	HEENT:	C/C: Entronco wound noted about a	
B/P: 130/70	Head: Unremarkable	S/S: Entrance wound noted about a	
HR: 142, regular	Eyes: PERL	inch below the sternum. No exit woun found during assessment. Short of ai	
Resp: 24, slightly labored	Ears: Unremarkable	difficulty speaking	
O2 Sat: 96% (room air)	Nose: Unremarkable		
Pain: 7	Oral Cavity: Unremarkable	Allergies: NKDA	
GCS : 15 (4, 5, 6)	Patient able to clear and control own airway		
BGL:		Medications: None	
Vital Sign – Set 2	Chest:	Product And the second state	
AVPU: Alert	Equal chest rise and fall noted	PmHx: Asthma as a child	
B/P: 128/80	Lung sounds clear	Last Meal: Breakfast around 0800	
HR: 140, regular	Wound noted just below sternum		
Resp: 24, nonlabored		Events Prior: Dove hunting with sma	
O ₂ Sat: 98% (O ₂) 95% (room	Back:	group. Patient is unaware of who o	
air)	Unremarkable	how he was shot	
Pain: 7	Abdomen/Pelvis:		
GCS : 15 (4, 5, 6)	No guarding noted upon quadrant palpation	Current on Immunizations? Yes	
BGL: 102 mg/dl (if assessed)	No trauma noted	Patient Weight: 46kgs	
	Pelvis stable	Notes:	
Vital Sign – Set 3 AVPU: Alert		Body Temp: 99.0 F	
	Extremity:	Body Temp. 55.0 P	
B/P: 130/76	No trauma noted to legs or arms	ECG: Sinus Tachycardia	
HR: 136, regular	PMS x 4	,	
Resp: 24 nonlabored	044	Patient calms during transport and	
O ₂ Sat: 98% (O ₂) 94% (room	Other:	once he finds a position of comfort,	
air) Daim 7	Skin: Pale, Warm, Moist	can breathe much easier. Nervous	
Pain: 7	No stop off or topdorpose poted to post	about friends getting in trouble	
GCS: 15 (4, 5, 6) BGL:	No step off's or tenderness noted to neck		
	Patient states all his pain is in his thoracic	Transport Consideration:	
Suggested Treatment:	cavity (points to where the wound is located)	Transport Consideration:	
O ₂ , Monitor,		Securing patient properly on cot	

GUN SHOT WOUND

Additional Things to Consider about the Scene:

• Family centered care

Additional Things to Consider during Treatment/Transport:

- Modesty of patient while removing clothing during assessment/examination
- Pattern of injury based on; Nonpenetrating, Penetrating, Perforating, Avulsive
- Pattern of injury based on weapon used; handgun vs rifle vs shotgun
- Keeping clothing intact for local police agency in case of crime scene investigation needs
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- Kansas Wildlife, Park and Tourism: Hunter Education
 - http://ksoutdoors.com/Services/Education/Hunter
 - Stop the Bleed
 - o https://www.bleedingcontrol.org/



Things to consider based on your EMS protocols, procedures and/or policies:

_Nearest trauma center (see page 60-61) _____

^{*}Graphic obtained from texasguntalk.com

HANGING

Goals/Objectives:	Dispatch Information:		
Assess and secure airway	Dispatch is sending you to an unknown medica	al call. Caller advised that she got into an	
Cervical spine precautions	argument with her 14-year-old son and now he	-	
Recognition of hypoxic state	with him an hour ago. Patient has had increased stress and battled depression the last 3 years. Neighbors have been unable to contact the patient for the last 15 minutes.Chief Complaint:Additional Resources Requested:		
Recognition of transport			
necessity			
necessity	Suicide Attempt	Police and Fire Department, ALS	
Scene Description:		renee and the Department, Als	
•	ed. Police made access to the home and found pa	tient hanging in garage	
	thick rope around his neck that they cut off		
•	and a knocked over chair that PD advises was that	way when they entered	
Initial Improcesion: Dessible suis	ide attempt via hanging. Dill bettles are also pros	ant in the area prescribed to patient and	
	ide attempt via hanging. Pill bottles are also prese ient from a call a few weeks ago for a behavioral		
Vital Sign – Set 1	Physical Exam	HPI: Patient was recently expelled	
AVPU: Unresponsive		from school following another fight	
B / P : Unable to obtain	HEENT:		
HR: 60, regular	Head: Unremarkable	S/S: Cyanosis to lips/face, pill bottles	
Resp: 8, labored and shallow	Eyes: Bulging and sluggish	around patient's feet, markings to	
O ₂ Sat: 90% (room air)	Ears: Unremarkable	patient's neck, vomit on shirt	
Pain:	Nose: Unremarkable	AU	
	Oral Cavity: Tongue is swollen, jaw clamped	Allergies: Depakote	
GCS: 3 (1, 1, 1) BGL:	Patient is gasping for air	Medications: Prozac, Lexapro, Ativan	
BGL:	Ohash	Medications. Prozac, Lexaplo, Ativan	
Vital Sign – Set 2	Chest:	PmHx: Depression, suicide attempts; 2	
AVPU: Unresponsive	Equal chest rise and fall noted, shallow	last month	
B/P: 72/50	Lung sounds clear		
HR: 56, regular	No external trauma noted	Last Meal: Unknown	
Resp: 8, labored and shallow	Back:	Fronte Driem Data de la Cala data	
O ₂ Sat: 94% (O ₂)	No external trauma noted	Events Prior: Patient had a fight with	
Pain:		his parents via telephone	
GCS: 3 (1, 1, 1)	Abdomen/Pelvis:	Current on Immunizations? Unknown	
BGL: 64 mg/dl (if assessed)	No trauma noted		
	Pelvis stable	Patient Weight: 48kgs	
Vital Sign – Set 3	Extromitu	Notes:	
AVPU: Unresponsive	Extremity:	Body Temp:	
B/P: 70/50	No trauma noted to legs or arms All extremities are flaccid		
HR: 54, regular		ECG: Sinus Bradycardia	
Resp: 8, labored and shallow	Other:	Dationt makes no nurnessful	
O ₂ Sat: 94% (O ₂)	Skin: Cool, Pale, Dry	Patient makes no purposeful movements during transport. You are	
Pain:	Marking around the neck line, red in color	unable to 'unlock' jaw	
GCS : 3 (1, 1, 1)			
BGL:	Appears patient has vomited on self		
Suggested Treatment:	1	Transport Consideration:	
		such and a successful state	
O ₂ , Monitor, IV, Medications,		Securing patient properly on cot	

HANGING

Additional Things to Consider about the Scene:

- Any note or messages left by patient
- Family centered care

Additional Things to Consider during Treatment/Transport:

- Modesty of patient
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- Local treatment facility, Counseling Center and/or Mental Health Center
- American Academy of Pediatrics: Healthy Children
 - https://www.healthychildren.org/English/news/Pages/Youths-Treated-for-Nonsuicidal-Self-Harm-at-Increased-Risk-of-Suicide-Within-a-Year.aspx



*HANGMAN'S FRACTURE

Things to consider based on your EMS protocols, procedures and/or policies:

_Nearest trauma center (see page 60-61) _____

^{*}Graphic obtained from Daily Mail

SC TRAUMA CENTERS



Adult Level I

- Grand Strand Medical Center
- Prisma Health Greenville Memorial
- MUSC Charleston
- Prisma Health Richland
- Spartanburg Medical Center

Adult Level II

- Trident Medical Center
- McLeod Regional Medical

Adult Level III

- AnMED Health Medical Center
- Conway Medical Center
- Lexington Medical Center
- MUSC Florence
- Regional Medical Center
- Piedmont Medical Center
- Self Regional Medical Center

Adult Level IV

McCleod Health Seacoast

Pediatric Level I

• MUSC Charleston

Pediatric Level II

- Prisma Health Richland
- Prisma Health Greenville
- Grand Strand Medical Center



COMMUNICATION SCENARIO



LANGUAGE BARRIER

Goals/Objectives:	Dispatch Information:		
• Communicating with patients	You are dispatched to a local apartment complex. Dispatch advises that they do not know		
of diverse cultures	what is going on as there is a language barrier. Crying is heard in the background and al the information you have is a 'child needs help.'		
• Communicating with patients			
that are non-verbal	Chief Compleint	Additional Deserves a Demussion	
• Communicating with patients	Chief Complaint:	Additional Resources Requested:	
that have special needs	Unknown call for EMS	Police and Fire Department, ALS	
Scene Description:			
-	entleman waving at you from the porch		
	dvised there is a young male patient unresponsiv		
	ople gathered in the living room around the you	ng child	
 A woman approaches you and ł 	nands you an unopened bottle of Dilantin		
Initial Impression: No one can gi local translator. Male on scene ke	ive you any further information. You ask dispatc eeps repeating 'hospital.'	h if there is a way to get in touch with a	
Vital Sign – Set 1	Physical Exam	HPI:	
AVPU: Unresponsive			
B/P: 100/72	HEENT:	S/S: Vomit noted on ground and dry	
HR: 124, regular	Head: Unremarkable	blood noted around the lips	
Resp: 28, nonlabored	Eyes: Sluggish	Allergies: Unknown	
O ₂ Sat: 96% (room air)	Ears: Unremarkable	Allergies. Onknown	
Pain:	Nose: Unremarkable	Medications: Unknown other than the	
GCS : 3 (1, 1, 1)	Oral Cavity: Blood noted. Tongue looks to have been bitten	prescribed Dilantin	
BGL:	Patient able to clear and control own airway	Deeller	
Vital Sign – Set 2	r dient doie to ciedi dia control own di way	PmHx: Unknown	
AVPU: Painful	Chest:	Last Meal: Unknown	
B/P: 102/80	Equal chest rise and fall noted		
HR: 120, regular	Lung sounds clear	Events Prior: Unknown	
Resp: 26, nonlabored	No external trauma noted	Current on Immunizations?	
O ₂ Sat: 94% room air (98% if O ₂	Back:	Current on Immunizations?	
applied)	No external trauma noted	Patient Weight: Estimate of 22kgs	
Pain:		•	
GCS: 7 (1,2,4)	Abdomen/Pelvis:		
BGL: 84mg/dl (if assessed)	No guarding noted upon quadrant palpation		
Vital Sign – Set 3	No trauma noted	Notes:	
AVPU: Verbal, Inappropriate	Pelvis stable	Body Temp: 99.2F	
B/P: 106/84			
HR: 122, regular	Extremity:	ECG: Sinus Tachycardia	
Resp: 22, nonlabored	No trauma noted to legs or arms	Patient begins to moan durin	
O ₂ Sat: 98% on 02	Other:	transport. Patient remains sleep	
Pain:	Skin: Pale, warm with tenting noted	during transport.	
GCS: 10 (2, 3, 5) BGL:	No step off's or tenderness noted to neck		
Suggested Treatment:	Pupils both return to PERL during transport	Transport Consideration:	
O ₂ , Monitor, IV access, Fluids		Securing patient properly on cot	
for dehydration			

LANGUAGE BARRIER

Additional Things to Consider about the Scene:

- Ask anyone, including younger children, if they can speak English
- Use any communication tool available to you to communicate with family
- Family centered care, as much as possible

Additional Things to Consider during Treatment/Transport:

- Ask for any doctor notes or hospital paperwork
- Demonstrate, as much as possible, what you will be doing prior to any intervention
- Make contact with the physician's office that is noted on prescription bottle
- Alert receiving facility early for the need of an interpreter
- Keep back of ambulance lighting/temperature appropriate for patient comfort, low stimulation
- Transport to the nearest appropriate facility

Additional Educational Resources to Consider:

- EMSC EMS Communication Cards (see pages 64-68)
- Cross-Cultural Communication for EMS
 - o https://ambulance.org/2015/06/25/cross-cultural-communication-for-ems/
- Translation apps for smart devices
- Language Lines with 24-hour access



Things to consider based on your EMS protocols, procedures and/or policies:











Stethoscope



Hot













Cough





Arm Hurts



Thermometer





Leg Hurts



Blood Pressure









Nurse





Hospital



All Better



PEDIATRIC SAFE TRANSPORT



** Devices shown in this section are *not* being endorsed and are only used for visual/training purposes. Please follow your local EMS services' transport policies and guidelines. **



Safe Transport of Children by EMS: Interim Guidance March 8, 2017

Establishing guidelines for safely transporting children in ambulances has been an endeavor undertaken by various individuals and organizations in recent years. Despite these efforts, this multi-faceted problem has not been easy to solve. While there have been resources developed, such as the *Working Group Best-Practice Recommendations for the Safe Transportation of Children in Emergency Ground Ambulances* (NHTSA 2012), there remain unanswered questions, primarily due to the lack of ambulance crash testing research specific to children.

The National Association of EMS State Officials (NASEMSO) is committed to advocating for the creation of evidence-based standards for safely transporting children by ambulance. Such standards would ensure a safer environment for the patients who rely on the EMS provider to act on their behalf. Developing standards will require large investments of both time and funding to conduct the required crash testing. If research were started today, it would require at least three years and hundreds of thousands of dollars to complete.

While NASEMSO collaborates with other organizations to bring these standards to reality, it recognizes the gap between that goal and the reality of the decisions that EMS providers face today will continue to be an issue of concern. The purpose of this interim guidance is to reduce that gap as much and as soon as possible, until evidence can be collected, analyzed, and used to develop standards specifically for children. Ultimately, pediatric restraint devices should be tested by the manufacturer to meet a new, yet-to-be developed standard.

NASEMSO recommends that this new standard include a pass/fail injury criteria comparable to that identified in FMVSS-213, which applies to child restraints in passenger vehicles. All testing should use the ambulance-specific crash pulses described in SAE J3044, SAE J2956, and SAE J2917 respectively. Litters used in testing should meet the SAE J3027 Integrity, Retention and Patient Restraint Specifications. Manufacturers should indicate to prospective purchasers whether their device(s) have met these requirements for the weight range indicated for the device.

It is the position of NASEMSO that:

- 1) Evidence-based standards for safely transporting children in ambulances should be developed and published by nationally recognized standards development organizations, such as the Society for Automotive Engineers (SAE);
- Safe ambulance transport should be considered as a standard of care for the EMS system equivalent to maintaining an open airway, adequate ventilation and the maintenance of cardiovascular circulation; and
- 3) There are immediate actions that can be taken to improve pediatric safety in ambulances including, but not limited to:
 - a. All EMS agencies that transport children should develop specific policies and procedures that address, at minimum the following elements:
 - i. Methods, training (initial and continual), and equipment to secure children during transport in a way that reduces both forward motion and possible ejection. The primary focus should be to secure the torso, and provide support for the head, neck, and spine of the child, as indicated by the patient's condition;1

- ii. Considerations for the varied situations that a child who needs transport to a hospital or other point of care may present to the EMS professional. These include, but may not be limited to a child who is:
 - uninjured/not ill,
 - ill/injured, but requiring no intensive interventions or monitoring,
 - requiring intensive interventions or monitoring,
 - requiring spinal immobilization or supine transport, and
 - multiple patients;2
- iii. Prohibits children from being transported unrestrained, e.g. held in arms or lap;3
- iv. Provision for securing all equipment during a transport where a child is an occupant of the vehicle, with mounting systems tested in accordance with the requirements of SAE J3043;
- v. Only use child restraint devices in the position for which they are designed and tested; and
- EMS agencies should have appropriately-sized child restraint system(s) readily available on all ambulances that may transport children. Additionally, personnel should be initially and recurrently evaluated and trained on the correct use of those restraint systems;
 - i. The device(s) should cover, at minimum, a weight range of between five (5) and 99 pounds (2.3 45 kg), ideally supporting the safest transport possible for all persons of any age or size;
 - ii. Only the manufacturer's recommendations for the weight/size of the patient should be considered when selecting the appropriate device for the specific child being transported; and
- c. State EMS officials should act to put interim steps in place while evidence-based standards are developed and implemented, including, but not limited to:
 - i. Encourage and support EMS transport agencies to implement cost effective solutions to mitigate risk while transporting children in ambulances; and
 - ii. Work with other state EMS officials to create uniform approaches and policy language, including, but not limited to a network of information relating to ambulance crash-related injuries; and
- 4) NASEMSO does not recommend or endorse any particular product.

1 Working Group Best-Practice Recommendations for the Safe Transport of Children in Emergency Ground Ambulances, page 12.

2 Ibid, pages 12-15.

3 The Do's and Don'ts of Transporting Children in an Ambulance (December 1999).

Safe Transport of Children by EMS: Interim Guidance March 8, 2017

SITUATION 1 UNINJURED/NOT ILL

Possible Scenario:

You are called to a low speed, minor vehicle crash. A female patient wishes to go to the hospital via EMS yet has a small child that was also in the car with her. This child is uninjured and is not considered a patient per your policy or protocol. The child's car seat is not damaged and is deemed safe to use per NHTSA guidelines (listed below). The safest way for the child to be transported to the same facility as the patient would be (in order of preference):

National Highway Traffic Safety Administration (NHTSA) Car Seat Safety Studies

NHTSA cites several international studies which showed that after minor vehicle crash tests, even when there is visible stress to the child restraint, the restraint still performed well in subsequent crash tests. NHTSA's policy on replacing child restraints after minor vehicle crashes to the following:

- NHTSA recommends that child safety seats and boosters be replaced following a moderate or severe crash in order to ensure a continued high level of crash protection for child passengers.
- NHTSA recommends that child safety seats do not automatically need to be replaced following a minor crash.

MINOR CRASHES ARE THOSE THAT MEET **ALL** OF THE FOLLOWING CRITERIA:

- The vehicle was able to be driven away from the crash site;
- The vehicle door nearest the safety seat was undamaged;
- There were no injuries to any of the vehicle occupants;
- The air bags (if present) did not deploy; AND
- There is no visible damage to the safety seat

1. The first and most ideal option would be that the child goes in another vehicle and car seat is properly installed in the backseat per the vehicle owner's manual.



SITUATION 1 UNINJURED/NOT ILL

2. The second option would be to place the child in the front passenger seat of the ambulance, <u>ONLY</u> if the airbags can be turned off and the car seat can be installed in the forward-facing position.



3. The last option would be that the child's car seat is installed in the captain's chair of the patient treatment area of the ambulance. A rear-only facing car seat <u>**CANNOT**</u> be used in this position. Please ensure that all items are safely secured in the patient compartment area.



SITUATION 2 ILL/INJURED; REQUIRING NO INTENSIVE INTERVENTIONS/MONITORING

Possible Scenario:

You are called to a home for a child that is not feeling well. The guardian states that they cannot get into their primary pediatrician's office today and she is without a vehicle. Guardian would like the child transported to the nearest hospital. The patient's vital signs are stable, and you see no life-threatening conditions at this time.

Options listed in no particular order for situation 2;

Car seat CAN be used on cot when it is a:

- Convertible car seat 5-40lbs
 - Install facing the rear of the ambulance
 - Head of cot elevated
 - Cot straps through rear-facing and forward-facing belt paths

Rear-facing only seats CANNOT be used



- Dream Ride Car Bed
 - Infants 5-20lbs, who cannot tolerate semi-upright seated position or who must lay flat
 - Requires an extra set of belt loops
 - Install perpendicular to the cot
 - Cot straps through loops on both sides of the car bed



SITUATION 2 ILL/INJURED; REQUIRING NO INTENSIVE INTERVENTIONS/MONITORING



Ferno Pedi-Mate

- o 10-40lb (4.5-18kg)
- Five-point harness system
- o Fernoems.com



Ferno Pedi-Mate Plus

- o 10-100lb patient (4.5-45.3kg)
- Five-point harness system
- o Fernoems.com



Quantum ACR4 (Ambulance Child Restraint)

- o 4-99lb patient (1.8-45kg)
- 4 color-coded size selections
- o Quantum-ems.com



Integrated Child Seats

• Varies by manufacturer

SITUATION 3 ILL/INJURED; REQUIRING INTENSIVE INTERVENTIONS/MONITORING

Possible Scenario:

You are called to a home for a child that is having difficulty breathing. Patient has a history of asthma and has already taken two breathing treatments at home. Guardian would like the child transported to the nearest hospital. The patient needs continuous breathing treatments, cardiac monitoring and intravenous access for possible medication administration.

Keep in mind that during transport, you will want full access to your patient for interventions and ability to listen to lung sounds. Patient transport on the cot is vital for appropriate patient care to be delivered and monitored. Also consider that this patient may not be able to lay flat during transport.

Options listed in no particular order for situation 3;

Car seat CAN be used on cot when it is a:

- Convertible car seat 5-40lbs
 - Install facing the rear of the ambulance
 - Head of cot elevated
 - Cot straps through rear-facing and forward-facing belt paths

Rear-facing only seats <u>CANNOT</u> be used



SITUATION 3 ILL/INJURED; REQUIRING INTENSIVE INTERVENTIONS/MONITORING



Ferno Neomate

- o 7-14lb (3.2-6.4kg)
- Five-point harness system
- o Fernoems.com



Ferno Pedi-Mate

- o 10-40lb (4.5-18kg)
- Five-point harness system
- o Fernoems.com



Ferno Pedi-Mate Plus

- o 10-100lb patient (4.5-45.3kg)
- Five-point harness system
- Fernoems.com



Quantum ACR4 (Ambulance Child Restraint)

- o 4-99lb patient (1.8-45kg)
- \circ 4 color-coded size selections
- o Quantum-ems.com

SITUATION SPINAL IMMOBILIZATION OR SUPINE TRANSPORT

Possible Scenario:

You are called to a local playground for a child that has fallen off the 8-foot-tall monkey bars. Patient is complaining of neck and lower back pain. Guardian on scene advises that patient has not moved his legs since the fall. No one has moved the patient and followed all directions given by dispatch for keeping the patients head and neck still. Guardian would like the child transported to the nearest trauma facility for evaluation.

Keep in mind that during transport, you will want full access to your patient for interventions. Patient transport on the cot is vital for appropriate patient care to be delivered and monitored.

Recent studies and literature have prehospital care providers transitioning from fully immobilizing and/or transporting patients on long spine boards. Please follow our local medical director's orders when it comes to immobilizing and transporting suspected trauma patients.



Life Support Products Infant/Pediatric Immobilization Board

- Infant to approx. 75lbs (up to 34kg)
- MRI Compatible and X-ray Translucent
- o Alliedhpi.com



PEDI - SPIDER straps

- Poly-Pro webbing used rated at 800lbs
- Can be used with most long spine boards
- o Resistant to mold, mildew, acids and alkalis

SITUATION MULITPLE PATIENTS

Possible Scenario:

You are called to a home for a woman in labor. The patient says she feels the 'urge to push.' Within ten minutes of being on scene, you deliver a baby boy. Mother, patient 1, is bleeding profusely and signs of shock are noted. Baby boy, patient 2, has an APGAR of 7 at one minute and 8 at 5 minutes. Meconium is present during assessment. Both patients need to be transported to the nearest facility.

Patient 1 will need to be transported on a cot. She is needing interventions and continuous monitoring. Patient 2 will need to be transported on a cot in an appropriate child restraint system. Patient two will also need continuous monitoring and possible airway interventions, i.e. suctioning.

A child passenger, especially a newborn, must <u>**NEVER**</u> be transported on an adult's lap nor should <u>**ANYONE**</u> hold a newborn during transport.

Please keep in mind the number of appropriate pediatric transport devices that are available to you as the provider. In situations of multiple births or multiple pediatric patients needing transported at one time, resources will need to be considered early in the call. All pediatric patients need to be transported in an appropriate and safe manner.

The University of New Mexico EMSC Program has two online training modules titled "Safe Transport of Children In EMS Vehicles." Taking the extra time to ensure safe transport is not only looking out for the patient's safety, but also yours! The two online modules can be found at: <u>https://emed.unm.edu/pem/programs/ems-for-children-emsc/emsc-online-course-directory.html</u>



PAGE INTENTIONALLY LEFT BLANK