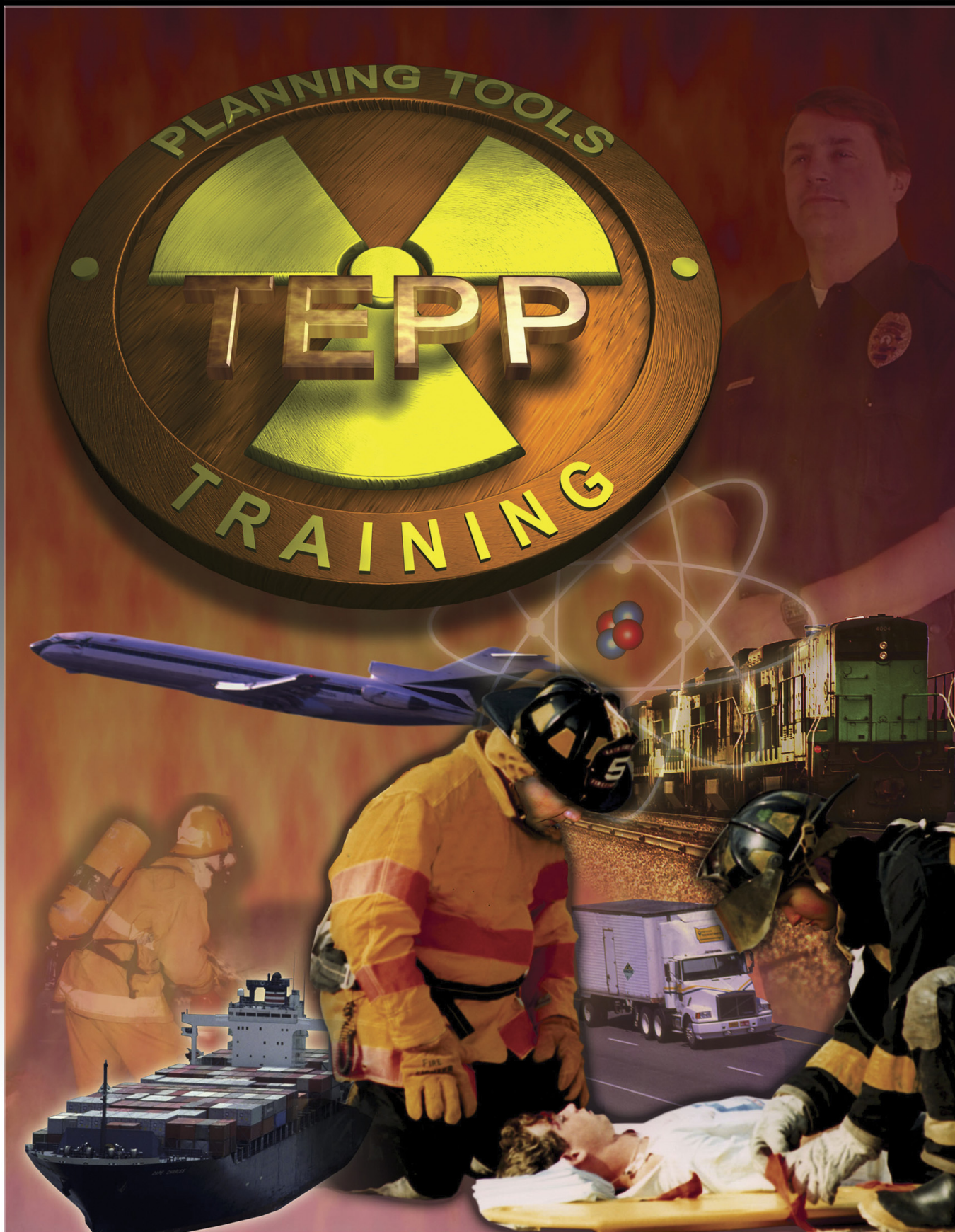




DEPARTMENT OF ENERGY



Medical Messages Index

Prepared for the Department of Energy Office of Transportation and Emergency Management

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Transportation Emergency Preparedness Program (TEPP)

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MEDICAL TERMS AND LAYMEN'S DEFINITIONS

Following is a list of terms and laymen's definitions for words used in the messages that follow. Although all EMS personnel should be familiar with the terms, the list is included for the benefit Lead Observers who may need to know how to answer questions or describe medical scenes during Observer briefings, etc.

* The following medical terms have been oversimplified for the benefit of laymen, and may not be completely technically accurate.

- ACLS** - Advanced Cardiac Life Support.
- ALS** - Advanced Life Support.
- Apneic** - not breathing.
- Asystole** - stopped heart indicated by an electrocardiogram flat line.
- Auscultation** - the act of listening to the heart, lungs, abdomen, etc. with the aid of a stethoscope.
- Bradycardia** - a heart rhythm characterized by less than 60 beats per minute.
- Cheyne-Stokes** - a respiratory pattern characterized by cycles of deep, rapid and weak, slow breathing, often seen in cases of heart failure or coma.
- COPD** - Chronic Obstructive Pulmonary Disease.
- Cyanotic** - a bluish tint to the skin, usually the result of reduced oxygen in the blood.
- Decerebrate Posture** - a symptom of a serious head injury noted by the victim's hands extended away from the body.
- Decorticate Posture** - a symptom of a serious head injury noted by the victim's hands turned inward toward the body.
- Diaphoretic** - sweaty.
- Dyspnea** - difficulty breathing.
- Ecchymosis** - bruising (black-and-blue or yellowish mark).
- Edema** - swelling.
- Flail Chest** - one or more ribs are broken in one or more places.
- Hematoma** - a pocket of blood that collects underneath the skin causing a bump or knot.
- ECG Monitor** - an EKG (electrocardiogram) machine.
- Nares** - nostrils.
- Occipital Region** - the back of the head.



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- Palpation** - by feel. In cases of very weak blood pressure, the upper value is some times determined “by palpation.”
- Paradoxical Movement** - a juxtaposition of the rib cage that occurs when someone with a flail chest (see Flail Chest) breaths. During inhalation, the flail segment of the rib cage sinks inward, while the other half expands outward, and vice versa during exhalation.
- PERL** - Pupils Equally Reactive to Light
- PHTLS** - Pre-hospital Trauma Life Support.
- Plueral Decompression** - a method of relieving pressure on a lung(s) caused by a pocket air that collects in the chest cavity and makes breathing difficult. The pressure is relieved by venting the air pocket to the atmosphere with a needle.
- Postictal** - a state of unresponsiveness seen after grand mal seizures, typically evidenced by vacant stares.
- Rhonchus/Rhonchi** - a coarse fluid rattling sound, somewhat like snoring, heard during auscultation of the chest that indicates a partial bronchial obstruction.
- Sternal Retraction** - a symptom of serious respiratory distress noted by the sternum sinking inward during respirations.
- Adult Tachycardia** - a heart rate over 100 beats per minute.
- Ventricular Fibrillation** - a chaotic electrical stimulation of the heart.





Model Messages Index

MILD ARM FRACTURE/MILD HEAD INJURY

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient with a fractured arm and a mild head injury. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient complains of point tenderness with edema present at pain location on his left arm. Movement of the extremity is present. Distal pulses and sensation are present.

Patient also suffered a mild blow to the head. Small hematoma noted at impact site, with no deformity or loss of consciousness.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Alert/Oriented	Alert/Oriented	Alert/Oriented	Alert/Oriented
Respirations	As Read	As Read	As Read	As Read
Pulse	As Read	As Read	As Read	As Read
Skin	Normal	Normal	Normal	Normal
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	As Read	As Read	As Read	As Read

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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MODERATE ARM FRACTURE

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient with a moderate fracture of either an arm or leg. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient complains of point tenderness with ecchymosis (bruising), edema (swelling) and deformity present at pain location. Patient presents with guarding of injured extremity. Distal pulses and sensation are present.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Conscious/Alert	Conscious/Alert	Conscious/Alert	Conscious/Alert
Respirations	20	20	18	18
Pulse	104	102	100	100
Skin	Normal	Normal	Normal	Normal
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	150/94	144/88	140/80	140/80

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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Model Messages Index

ARM/LEG AMPUTATION

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient with an amputation of either an arm or leg. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Amputation is jagged and bleeding is profuse and uncontrolled. Upon EMS arrival patient is lying down and his/her responses are sluggish.

Minutes after EMS arrival	+0	+10-End*	+10-End**
Level of Consciousness	Sluggish	Sluggish	Unresponsive
Respirations	24 Clear/Equal	22 Clear/Equal	0
Pulse	156	120	0
Skin	Pale/Diaphoretic	Pale/Diaphoretic	Pale
Pupils	PERL	PERL	Fixed/Dilated
Blood Pressure	80/60	80/60	0/0

Notes:

* If treated by +10 minutes, use these vital signs. Advanced Life Support Protocol should be followed (i.e., bleeding control, IV, oxygen, and mast trousers used).

** If untreated by +10 minutes, use these vital signs. Patient dies.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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Medical Messages Index

MILD CHEST INJURY

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who was struck in the chest with a blunt object. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient is complaining of pain on inspiration. Breath sounds are clear and equal bilaterally. No deformity noted to chest wall. Ecchymosis noted at impact area.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Alert/Oriented	Alert/Oriented	Alert/Oriented	Alert/Oriented
Respirations	22 Shallow	24 Shallow	18 Shallow	18 Shallow
Pulse	108	106	98	88
Skin	Normal	Normal	Normal	Normal
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	146/94	142/92	134/88	132/86

Note:

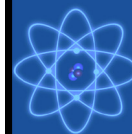
ECG Monitor corresponds to pulse rate.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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Model Messages Index

MODERATE CHEST INJURY

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who was struck in the chest with a blunt object. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient is complaining of pain at impact location and dyspnea. Breath sounds are clear and equal bilaterally. Deformity noted with paradoxical movement at impact site. Breath sounds are decreased on affected side unless splinting has been accomplished.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Alert/Oriented	Alert/Oriented	Alert/Oriented	Alert/Oriented
Respirations	26 Shallow	24 Shallow	22 Shallow	20 Shallow
Pulse	112	110	98	94
Skin	Mildly Diaphoretic	Mildly Diaphoretic	Mildly Diaphoretic	Mildly Diaphoretic
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	138/94	136/92	134/90	134/88

Note:

ECG Monitor corresponds to pulse rate.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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SEVERE CHEST INJURY

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who received a massive blow to the chest area. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Flail chest segment noted. Distended neck veins present. Breath sounds absent on affected side. Breath sounds will remain absent until plueral decompression is accomplished.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Resp. to painful stimuli	Resp. to painful stimuli	Resp. to verbal stimuli	Resp. to verbal stimuli
Respirations	36	34	24	18
Pulse	124	130	108	96
Skin	Cyanotic/ Diaphoretic	Cyanotic/ Diaphoretic	Improving	Improving
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	98/60	100/64	110/70	114/74

Note:

ECG Monitor corresponds to pulse rate. If decompression has not been accomplished, patient vital signs will remain at the +0 minutes level.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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MILD HEAD INJURY

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who received a mild blow to the head. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Small hematoma noted at impact site. No deformity or loss of consciousness.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Alert/Oriented	Alert/Oriented	Alert/Oriented	Alert/Oriented
Respirations	As Read	As Read	As Read	As Read
Pulse	As Read	As Read	As Read	As Read
Skin	Normal	Normal	Normal	Normal
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	As Read	As Read	As Read	As Read

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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MODERATE HEAD INJURY

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who has been struck on the occipital region of the skull. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Hematoma noted with +-inch laceration. Bleeding has been controlled. No deformity noted. Loss of consciousness for approximately 45 seconds.

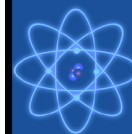
Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Confused	Confused	Confused	Confused
Respirations	18	16	20	14
Pulse	102	104	98	90
Skin	Normal	Normal	Normal	Normal
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	130/84	128/80	130/86	132/84

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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SEVERE HEAD INJURY

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who has suffered a severe blow to the head. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Deformity noted at impact site. Decorticate posturing noted.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	No Response	No Response	No Response	No Response
Respirations	Cheyne-Stokes	Cheyne-Stokes	Cheyne-Stokes	Cheyne-Stokes
Pulse	64	58	54	52
Skin	Pale/Diaphoretic	Pale/Diaphoretic	Pale/Diaphoretic	Pale/Diaphoretic
Pupils	Unequal/ Left Dilated	Unequal/ Left Dilated	Unequal/ Left Dilated	Unequal/ Left Dilated
Blood Pressure	160/96	168/100	176/102	182/102

Note:

ECG Monitor corresponds to pulse.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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Medical Messages Index

MILD NECK INJURY

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who has been struck from behind in an automobile. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient is complaining of pain to left lateral area of neck. No deformity or edema noted.

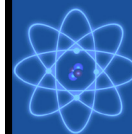
Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Conscious/Alert	Conscious/Alert	Conscious/Alert	Conscious/Alert
Respirations	16	18	14	16
Pulse	98	88	86	86
Skin	Normal	Normal	Normal	Normal
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	148/92	144/88	138/86	138/90

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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MODERATE NECK INJURY

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who has suffered trauma to the neck. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient is complaining of numbness and tingling in arms. No deformity or edema noted, and all extremities have movement.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Conscious/Alert	Conscious/Alert	Conscious/Alert	Conscious/Alert
Respirations	24	20	18	16
Pulse	110	104	100	96
Skin	Normal	Normal	Normal	Normal
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	132/88	130/86	134/84	130/88

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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SEVERE NECK INJURY

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who has suffered major trauma to the neck. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

No deformity or edema noted. Patient has non-purposeful movement of upper and lower extremities. No sensation to lower extremities.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Conscious/Alert	Conscious/Alert	Conscious/Alert	Conscious/Alert
Respirations	18	16	18	14
Pulse	60	62	58	60
Skin	Normal	Normal	Normal	Normal
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	88/40	86/42	84/40	80/40

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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FIRST DEGREE BURNS

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient with first degree burns. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient has first degree burns bilaterally on the upper extremities. Burned places are red and tender. There are no complaints of respiratory distress, and no singeing of the nares noted.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Conscious/Alert	Conscious/Alert	Conscious/Alert	Conscious/Alert
Respirations	18/Clear & equal bilaterally	18/Clear & equal bilaterally	18/Clear & equal bilaterally	18/Clear & equal bilaterally
Pulse	As Read	As Read	As Read	As Read
Skin	Burns red; unburned skin is normal	Burns red; unburned skin is normal	Burns red; unburned skin is normal	Burns red; unburned skin is normal
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	As Read	As Read	As Read	As Read

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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SECOND DEGREE BURNS

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient with a second degree burns. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient has second degree burns bilaterally on the upper extremities. Burned places are red and blistered. There are no complaints of respiratory distress, and no singeing of the nares noted.

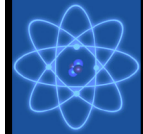
Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Conscious/Alert	Conscious/Alert	Conscious/Alert	Conscious/Alert
Respirations	18/Clear & equal bilaterally	18/Clear & equal bilaterally	18/Clear & equal bilaterally	18/Clear & equal bilaterally
Pulse	120	120	115	115
Skin	Burns red/Blistered; unburned skin is normal	Burns red/Blistered; unburned skin is normal	Burns red/Blistered; unburned skin is normal	Burns red/Blistered; unburned skin is normal
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	130/70	130/70	130/70	130/70

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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THIRD DEGREE BURNS

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient with a third degree burns. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient has third degree burns to the neck and bilaterally on the upper extremities. There are no complaints of respiratory distress, and no singeing of the nares noted.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Conscious/Alert	Conscious/Alert	Conscious/Alert	*Confused/Disoriented
Respirations	18/Clear & equal bilaterally	22/Clear & equal bilaterally	*22/Clear & equal bilaterally	*24/Clear & equal bilaterally
Pulse	128	128	*138	*120
Skin	Pale/Diaphoretic; burns are black & charred with waxy edges	Pale/Diaphoretic; burns are black & charred with waxy edges	Pale/Diaphoretic; burns are black & charred with waxy edges	Pale/Diaphoretic; burns are black & charred with waxy edges
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	110/72	94/68	90/60	80/By paltation

Note:

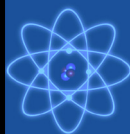
* Issue this data only if appropriate care has **NOT** been administered. Once the patient has been given proper treatment, revert to the +0 data.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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HEAT EXHAUSTION

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient experiencing heat exhaustion. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient is complaining of nausea, dizziness and weakness.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Concious/Alert	Concious/Alert	Concious/Alert	*Confused/Disoriented
Respirations	22	22	*18	*18
Pulse	120	122	*110	*102
Skin	Pale/Diaphoretic	Pale/Diaphoretic	*Returning to Normal	*Normal
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	120/90	120/92	*126/84	*130/80

Note:

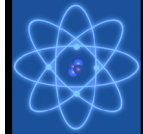
* Issue this data only **if** appropriate care has been administered. If the patient has not been given proper treatment (i.e., hydrated/cooled off), revert to the +10 data.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations





Model Messages Index

MILD HYPOTHERMIA

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient experiencing mild hypothermia. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient is shivering.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Conscious/Alert	Conscious/Alert	Conscious/Alert	Conscious/Alert
Respirations	18	18	18	18
Pulse	110	110	110	110
Skin	Shivering/ Chill bumps	Shivering/ Chill bumps	Shivering/ Chill bumps	Returning to normal*
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	As Read	As Read	As Read	As Read

Note:

* If patient is warmed, shivering will begin to subside by +30. If not, shivering will continue.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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Medical Messages Index

MODERATE HYPOTHERMIA

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient experiencing moderate hypothermia. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient is shivering.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Slow to respond to verbal	Slow to respond to verbal	Slow to respond to verbal	Slow to respond to verbal
Respirations	18	18	18	18
Pulse	62	62	70	85
Skin	Pale	Pale	Pale	*Shivering
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	106/74	106/74	106/74	106/74

Note:

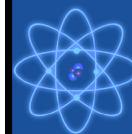
* If patient is warmed, shivering will begin to subside by +30. If not, shivering will continue.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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Model Messages Index

SEVERE HYPOTHERMIA

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient experiencing severe hypothermia. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient is lying still.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	No response to verbal/Responds to painful	No response to verbal/Responds to painful	No response to verbal/Responds to painful	*Slow response to verbal
Respirations	6	6	15	40
Pulse	42, weak/Carotid	42, weak/Carotid	50, weak/Carotid	60
Skin	Pale	Pale	Pale	*Shivering
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	106/74	106/74	106/74	106/74

Note:

* If patient is warmed, vitals will improve by +30, as shown. If care not given, use +50 vitals.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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Medical Messages Index

FROST BITE

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient experiencing frost bite. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient is complaining of numbness at the affected areas.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Conscious/Alert	Conscious/Alert	Conscious/Alert	Conscious/Alert
Respirations	As Read	As Read	As Read	As Read
Pulse	As Read	As Read	As Read	As Read
Skin	Affected areas white and waxy	Affected areas white and waxy	Affected areas white and waxy	Affected areas white and waxy
Pupils	As Read	As Read	As Read	As Read
Blood Pressure	As Read	As Read	As Read	As Read

Note:

As affected areas are warmed, numbness will slowly give way to sharp pain.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



DEPARTMENT OF ENERGY





Model Messages Index

MILD CARDIAC

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient complaining of substernal chest pain radiating to left arm. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient is complaining of substernal chest pain radiating to left arm. Also complaining of mild dyspnea. No prior history of cardiac or other medical problems.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Conscious/Alert	Conscious/Alert	Conscious/Alert	Conscious/Alert
Respirations	18/Clear/Equal	18/Clear/Equal	18/Clear/Equal	18/Clear/Equal
Pulse	94	96	92	84
Skin	Mild diaphoresis	Mild diaphoresis	Mild diaphoresis	Mild diaphoresis
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	As Read	As Read	As Read	As Read

Note:

ECG Monitor corresponds to pulse.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



DEPARTMENT OF ENERGY



Medical Messages Index



MODERATE CARDIAC

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who has suffered a moderate heart attack. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient is complaining of a sudden onset of severe substernal chest pain radiating down the left arm and neck. Pain is not relieved by nitro spray. Patient is also complaining of dyspnea. Patient has history of heart problems, having undergone bypass surgery two years ago.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Alert	Alert	Alert	Alert
Respirations	18/Clear/Equal	20/Clear/Equal	16/Clear/Equal	16/Clear/Equal
Pulse	48	46	*68	*68
Skin	Pale/Diaphoretic	Pale/Diaphoretic	Pale/Diaphoretic	Pale/Diaphoretic
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	96/60	94/62	110/74	130/80

Note:

ECG Monitor - Sinus Bradycardia. * The +20-minute and +30-minute vital signs should only be given if appropriate care has been rendered. If not, repeat +10 vital signs.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



DEPARTMENT OF ENERGY





Model Messages Index

SEVERE CARDIAC

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who has suffered a severe heart attack. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient complains of severe chest pain and collapses. History of cardiac problems.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	No response	No response	No response	No response
Respirations	0	0	0	0
Pulse	0	0	0	0
Skin	Pale/Diaphoretic	Pale/Diaphoretic	Pale/Diaphoretic	Pale/Diaphoretic
Pupils	Dilated/ No response	Dilated/ No response	Dilated/ No response	Dilated/ No response
Blood Pressure	0	0	0	0

Note:

ECG Monitor - Ventricular fibrillation until defibrillated then asystole.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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Medical Messages Index

MILD RESPIRATORY

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who is experiencing mild respiratory problems (which may be caused by smoke inhalation from a burning vehicle). Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient complains of mild shortness of breath. Patient has a history of asthma. Patient usually carries a Proventil inhaler, but is currently out of medication.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Alert	Alert	Alert	Alert
Respirations	*22	*20	**16	**14
Pulse	110	112	**88	**84
Skin	Normal	Normal	Normal	Normal
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	138/92	136/90	130/88	130/86

Note:

ECG Monitor - Sinus tachycardia corresponds to pulse.

Pulse Oximeter 92%.

* Mild expiratory wheezing on auscultation.

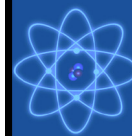
** Use this data only if appropriate care has been given. Otherwise, continue using +10 data.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



DEPARTMENT OF ENERGY





Model Messages Index

MODERATE RESPIRATORY

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who is experiencing moderate respiratory problems (which may be caused by smoke inhalation from burning vehicle). Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient complains of shortness of breath. Patient has a history of COPD. Sternal retraction noted.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Alert	Alert	Alert	Alert
Respirations	*24 labored	*26 labored	**20 labored	**18 labored
Pulse	108	110	**104	**96
Skin	Pale/Diaphoretic	Pale/Diaphoretic	**Improving	**Improving
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	156/92	158/94	154/88	150/88

Note:

ECG Monitor - Sinus tachycardia corresponding to pulse.

Pulse Oximeter 90%.

* Experatory wheezing on auscultation with rhonchi noted bilaterally.

** Use this data only if appropriate care has been given. Otherwise, continue using +10 data.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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Medical Messages Index



SEVERE RESPIRATORY

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient with severe respiratory problems (which could be caused by smoke inhalation from burning vehicle). Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient is unresponsive.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Unresponsive	Unresponsive	*Responds to painful stimuli	*Responds to verbal stimuli
Respirations	0	0	*8	*10
Pulse	118	130	*120	*112
Skin	Cyanotic/ Diaphoretic	Cyanotic/ Diaphoretic	*Improving	*Improving Diaphoretic
Pupils	Sluggish midpoint	Sluggish midpoint	*PERL	*PERL
Blood Pressure	146/94	138/90	136/88	140/88

Notes:

If artificial respiration is not begun by +10, patient will be in cardiac arrest.

ECG Monitor - Sinus tachycardia corresponding to pulse. Pulse Oximeter 90%.

* Use this data only if appropriate care has been given. Otherwise, continue using +10 data.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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Model Messages Index

MILD STROKE

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who has experienced a mild stroke. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient's speech is slurred and you notice his/her face is drooping on the left side. Patient is complaining of a headache. Patient has a history of hypertension and is on medication for same.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Alert	Alert	Alert	Alert
Respirations	18	18	18	18
Pulse	64	64	64	64
Skin	Normal	Normal	Normal	Normal
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	210/130	208/130	212/130	206/130

Notes:

ECG Monitor corresponds to pulse.

Unequal grip strength.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



DEPARTMENT OF ENERGY



Medical Messages Index



MODERATE STROKE

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who has experienced a moderate stroke. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient is found slumped over. Patient responds inappropriately to verbal stimuli. No movement is noted on left side. Patient has a known history of hypertension.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Confused	Confused	Confused	Confused
Respirations	16	16	16	16
Pulse	68	68	68	68
Skin	Pale/Diaphoretic	Pale/Diaphoretic	Pale/Diaphoretic	Pale/Diaphoretic
Pupils	Unequal	Unequal	Unequal	Unequal
Blood Pressure	240/160	240/160	240/160	240/160

Notes:

ECG Monitor corresponds to pulse. Dextrose reading = 96.

Pulse Oximeter = 98%.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



DEPARTMENT OF ENERGY





Model Messages Index

SEVERE STROKE

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who has experienced a severe stroke. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient is found unconscious and unresponsive

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Responds to painful stimuli	Responds to painful stimuli	Responds to painful stimuli	Responds to painful stimuli
Respirations	8	8	8	8
Pulse	58	58	58	58
Skin	Pale/Diaphoretic	Pale/Diaphoretic	Pale/Diaphoretic	Pale/Diaphoretic
Pupils	Unequal	Unequal	Unequal	Unequal
Blood Pressure	220/180	220/180	220/180	220/180

Notes:

ECG Monitor - sinus bradycardia corresponds to pulse.

Dextrose reading = 110. Pulse Oximeter = 92%.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



DEPARTMENT OF ENERGY





Medical Messages Index

MILD DIABETES

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who has mild problems related to diabetes. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient is behaving strangely, and is not responding appropriately to verbal stimuli. Patient has a history of Type 1 diabetes.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Confused	Confused	*Alert	*Alert
Respirations	18	20	*16	*14
Pulse	110	112	*96	*88
Skin	Diaphoretic	Diaphoretic	*Normal	*Normal
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	140/88	144/88	138/86	136/84

Notes:

ECG Monitor corresponds to pulse. Dextrose reading = 40.

Pulse Oximeter = 98%.

* Use this data only if appropriate care has been given. Otherwise, continue using +10 data.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



DEPARTMENT OF ENERGY





Model Messages Index

MODERATE DIABETES

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who has moderate problems related to diabetes. Do not provide this data to players unless the means to obtain it are demonstrated

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient does not respond to verbal stimuli. Patient's skin is cool and extremely clammy. Patient has a history of diabetes.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Responds to painful stimuli	Responds to painful stimuli	*Responds to verbal stimuli	*Alert
Respirations	20	22	*18	*16
Pulse	114	122	*108	*98
Skin	Pale/Diaphoretic	Pale/Diaphoretic	*Improving	*Improving
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	128/86	122/84	130/86	134/88

Notes:

ECG Monitor corresponds to pulse. Dextrose reading = 30. Pulse

Oximeter = 98%.

* Use this data only if appropriate care has been given. Otherwise, continue using +10 data.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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Medical Messages Index

SEVERE DIABETES

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who has severe problems related to diabetes. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient is found on the ground. Patient does not respond to verbal or painful stimuli, and his/her skin is cool and extremely clammy. Patient has a history of diabetes.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	No response	No response	*Responds to verbal stimuli	*Alert
Respirations	20	22	*18	*16
Pulse	144	148	*108	*98
Skin	Pale/Diaphoretic	Pale/Diaphoretic	*Improving	*Improving
Pupils	Equal/Sluggish	Equal/Sluggish	PERL	PERL
Blood Pressure	108/72	102/70	130/86	134/88

Notes:

ECG Monitor corresponds to pulse. Dextrose reading = 10.

Pulse Oximeter = 98%.

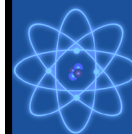
* Use this data only if appropriate care has been given. Otherwise, continue using +10 data.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



DEPARTMENT OF ENERGY





Model Messages Index

MILD SEIZURES

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who has experienced a mild seizure. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient found on ground. Patient is confused and disoriented. Patient is taking Dilantin medication.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Confused	Confused	Alert	Alert
Respirations	24	20	16	12
Pulse	132	124	94	86
Skin	Warm/Moist	Warm/Moist	Normal	Normal
Pupils	Sluggish	PERL	PERL	PERL
Blood Pressure	156/98	148/90	136/88	130/84

Notes:

ECG Monitor corresponds to pulse. Dextrose reading = 90.

Pulse Oximeter = 98%.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations





Medical Messages Index

MODERATE SEIZURES

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who has experienced a moderate seizure. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Bystander observes patient in seizure-like activity. Patient has a history of seizures.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Postictal	Confused	Alert	Alert
Respirations	28	22	18	14
Pulse	148	122	108	92
Skin	Warm/Moist	Warm/Moist	Normal	Normal
Pupils	Equal/Sluggish	PERL	PERL	PERL
Blood Pressure	156/90	142/86	134/82	134/82

Notes:

ECG Monitor corresponds to pulse. Dextrose reading = 90.

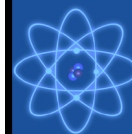
Pulse Oximeter = 98%.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



DEPARTMENT OF ENERGY





Model Messages Index

DEAD ON ARRIVAL

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who is found dead at the scene of a vehicle crash. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient is motionless with obvious massive chest trauma noted.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Unresponsive	Unresponsive	Unresponsive	Unresponsive
Respirations	0	0	0	0
Pulse	0	0	0	0
Skin	Pale/Cold	Pale/Cold	Pale/Cold	Pale/Cold
Pupils	Fixed/Dilated	Fixed/Dilated	Fixed/Dilated	Fixed/Dilated
Blood Pressure	0/0	0/0	0/0	0/0

Expected Action:

Call coroner.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations





Medical Messages Index

MILD ARM FRACTURE/MILD HEAD INJURY (PEDIATRIC)

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient with a fractured arm and a mild head injury. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient complains of point tenderness with edema present at pain location on his left arm. Movement of the extremity is present. Distal pulses and sensation are present.

Patient also suffered a mild blow to the head. Small hematoma noted at impact site, with no deformity or loss of consciousness.

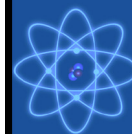
Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Alert/Oriented	Alert/Oriented	Alert/Oriented	Alert/Oriented
Respirations	As Read	As Read	As Read	As Read
Pulse	As Read	As Read	As Read	As Read
Skin	Normal	Normal	Normal	Normal
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	As Read	As Read	As Read	As Read

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



DEPARTMENT OF ENERGY





Model Messages Index

ARM/LEG AMPUTATION (PERIATRIC)

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient with an amputation of either an arm or leg. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Amputation is jagged and bleeding is profuse and uncontrolled. Upon EMS arrival, patient is lying down and his/her responses are sluggish.

Minutes after EMS arrival	+0	+10-End*	+10-End**
Level of Consciousness	Sluggish	Sluggish	Unresponsive
Respirations	24 Clear/Equal	22 Clear/Equal	0
Pulse	156	120	0
Skin	Pale/Diaphoretic	Pale/Diaphoretic	Pale
Pupils	PERL	PERL	Fixed/Dilated
Blood Pressure	80/60	80/60	0/0

Notes:

* If treated by +10 minutes, use these vital signs. Advanced Life Support Protocol should be followed (i.e., bleeding control, IV, oxygen, and mast trousers used).

** If untreated by +10 minutes, use these vital signs. Patient dies.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



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Medical Messages Index



MILD CHEST INJURY (PEDIATRIC)

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who was struck in the chest with a blunt object. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient is complaining of pain on inspiration. Breath sounds are clear and equal bilaterally. No deformity noted to chest wall. Ecchymosis noted at impact area.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Alert/Oriented	Alert/Oriented	Alert/Oriented	Alert/Oriented
Respirations	28 Shallow	28 Shallow	20 Shallow	20 Shallow
Pulse	140	144	144	140
Skin	Normal	Normal	Normal	Normal
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	122/78	120/78	116/76	110/70

Note:

ECG Monitor corresponds to pulse rate.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



DEPARTMENT OF ENERGY





Model Messages Index

SEVERE HEAD INJURY (PEDIATRIC)

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient who has suffered a severe blow to the head. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Deformity noted at impact site. Decorticate posturing noted.

Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	No response	No response	No response	No response
Respirations	Cheyne-Stokes	Cheyne-Stokes	Cheyne-Stokes	Cheyne-Stokes
Pulse	148	136	136	138
Skin	Pale/Diaphoretic	Pale/Diaphoretic	Pale/Diaphoretic	Pale/Diaphoretic
Pupils	Unequal/ Left dilated	Unequal/ Left dilated	Unequal/ Left dilated	Unequal/ Left dilated
Blood Pressure	128/70	128/70	118/68	118/66

Note:

ECG Monitor corresponds to pulse.

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



DEPARTMENT OF ENERGY





Medical Messages Index

SECOND DEGREE BURNS (PEDIATRIC)

MM#:

TO: First Responders/EMS

FROM: EMS Observer

NOTE: This data applies to a patient with a second degree burns. Do not provide this data to players unless the means to obtain it are demonstrated.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations

Message:

Patient has second degree burns bilaterally on the upper extremities. Burned places are red and blistered. There are no complaints of respiratory distress, and no singeing of the nares noted.

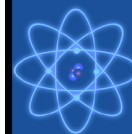
Minutes after EMS arrival	+0	+10	+20	+30
Level of Consciousness	Conscious/Alert	Conscious/Alert	Conscious/Alert	Conscious/Alert
Respirations	24/Clear & equal bilaterally	24/Clear & equal bilaterally	24/Clear & equal bilaterally	24/Clear & equal bilaterally
Pulse	140	140	136	136
Skin	Burns red/blistered; unburned skin is normal	Burns red/Blistered; unburned skin is normal	Burns red/Blistered; unburned skin is normal	Burns red/Blistered; unburned skin is normal
Pupils	PERL	PERL	PERL	PERL
Blood Pressure	110/70	108/70	108/70	108/70

Expected Action:

Follow local protocols or standing orders.

THIS IS A DRILL

DO NOT initiate actions affecting safe operations



DEPARTMENT OF ENERGY

