Appendix A

University of Colorado School of Medicine – Department of Emergency Medicine Disaster Response Advanced First Aid

Northern Marianas Islands

Schedule Subject to Change Due to Learning Progression, Weather, and/or Conditions

Day One

Introduction

Faculty and Students Overview of DRAFA Schedule

Disaster Overview

Definition Types Epidemiology

DRAFA Overview

Assessment

Disaster Safety Scene Assessment Primary Assessment Secondary Assessment Patient Assessment Anticipated Problems SOAP Notes

Lunch

Head Injuries and Level of Consciousness

TBIs ICP Lowered Levels of Consciousness

Spinal Issues & Patient Movement

Spinal Assessment Improvised Spinal Protection Patient Movement Leadership and Communication Log Rolls Beaming Awkward Moves

Wounds and Burns

Stopping Bleeding Wound Cleaning Wound Types Pressure Dressings Tourniquets Burns Pain management Day Two

Skills Review

Musculoskeletal Injuries

Assessment Splinting

Circulatory and Chest Issues

Shock Benign chest pain Acute coronary syndrome Trauma

Leadership, Teamwork, Scenarios and Review of Patient Assessment

Leadership Teamwork Scenarios Patient assessment

Lunch

Respiratory Issues

Trauma Illnesses

Abdominal Issues

Trauma Illnesses

Drowning

Assessment Treatment

Heat Related Illnesses

Heat exposure and non-life-threatening illnesses Heat stroke Dehydration

Cold Injuries

Assessment Treatment

Water Treatment

Scenarios

Day Three

Review

Triage

Overview START

Litters and Carries

Lunch

Special Populations

Children Elderly Disabled Homeless

Mental Health

Stressors and Risks Epidemiology Recognition Psychological First Aid and Treatment First Responders

Final Scenarios

Final Exam

Summary, Resources, and Conclusion

Resources Summary Conclusions Graduation

Appendix B

University of Colorado School of Medicine

First Aid Skills Checklist

Class	_ Date	Evaluator	Group						
Articulated Scene Assessment									
Scene safety	_Yes _No	Not Sure Notes:							
MOI	_Yes _No	Not Sure Notes:							
Numbers	YesNo	Not Sure Notes:							
Patient Communication									
Introduced self/leve	el of training	YesNoNot Sure Notes							
Obtained permissic	on to treat Yes	No Not Sure Notes							
Used Personal Protect	tive Equipment	YesNoNot Sure Notes							
Primary Assessment -	- Checked or con	firmed out loud							
AirwayYes	NoNot S	Sure Notes							
BreathingYe	s No Not S	ure Notes							
Checked for massiv	ve bleedingY	es No Not Sure Notes							
Considered/held he	ad stable Yes	s No Not Sure Notes							
Protected patient fr	om environment	Yes NoNot Sure Note	28						
Patient Movement	Patient Movement								
Moved patient into appropriate position Yes No Not Sure Notes									
Movement safe and efficient Yes No Not Sure Notes									
Secondary Assessment									
Physical									
Complete	YesNo	Not Sure Notes:							
Correct Yes	NoNot	Sure Notes:							
SAMPLE history	SAMPLE history								
Complete	YesNo	Not Sure Notes:							
Recorded	YesNo	Not Sure Notes:							

(Appendix B, cont.)

<u>Vitals</u> (HR, RR, Mental Status)
Took all 3 YesNo Not Sure Notes:
Recorded ≥ 2 set Yes No Not Sure Notes:
Supportive Care
Called patient by name Yes No Not Sure Notes:
Told patient what was going on Yes No Not Sure Notes:
Used warm, friendly tone Yes No Not Sure Notes:
Offered to treat pain Yes No Not Sure Notes:
Other:
SOAP Notes
Accurate Patient Assessment Yes No Not Sure Notes:
Accurate list of Anticipated Problems Yes No Not Sure Notes:
Reasonable Plan Yes No Not Sure Notes:

Appendix C

Disaster Response Advanced First Aid

Pre-Test

Circle the Best Answer

Na	Name	Date	
1.	1. Upon arriving on the scene of a medical emergency	the first thing to do is	

- a. Conduct a primary survey
- b. Check scene safety
- c. Ensure patient's airway is clear
- d. Put on gloves
- 2. Which of the following questions about shock are true
 - a. It is a life-threatening condition
 - b. It can be caused by a variety of causes including significant blood loss, spinal cord injury, sepsis, anaphylaxis
 - c. Treatment in the field is limited but includes lying the victim down and keeping her or him warm
 - d. All of the above
- 3. What is the best treatment for a mild TBI (concussion)
 - a. Prevent the patient from sleeping
 - b. At night awaken every two hours to assess condition
 - c. Let rest with minimal stimulation and ideally sleep
 - d. Both A and B

4. In the field a suspected heart attack, with a conscious patient, should be treated by

- a. Aspirin
- b. Epinephrine
- c. CPR
- d. None of the above

5. A good splint

- a. If done right, should not need adjustments
- b. Minimizes the need for padding to ensure security
- c. Has CSM checked before and after application
- d. All of the above
- 6. The most effective way of treating most serious lacerations is
 - a. Direct pressure
 - b. Tourniquet
 - c. Appropriate dressing and bandage
 - d. Stiches
- 7. Which of the following is true about burns
 - a. The first treatment is water or other liquids on the burn
 - b. Burns over more than 10% of body surface area can lead to hypothermia and dehydration
 - c. Burns are easily infected
 - d. All of the above

(Appendix C, cont.)

- 8. Treatment for heat stroke includes
 - a. Aspirin to reduce patient's temperature
 - b. Immediately douse the patient with water and fan
 - c. Placing patient horizontal and raising legs to increase blood flow to head and reduce cardiac work load
 - d. All of the above
- 9. In terms of abdominal pain, which of the following would be a reason for emergency evacuation
 - a. Localized pain with guarding and rigidity
 - b. Diarrhea and cramping for 6-8 hours
 - c. Moderate pain without fever
 - d. All of the above
- 10. In a triage situation, which patient should receive immediate care (red tagged)
 - a. A woman with a compound tib-fib break and concussion, AOx3, pulse 84, respirations 18
 - b. A child found with burns over both legs (~10% of body surface), AOx4, pulse 80, respirations 16
 - c. A man found U on the AVPU scale, pulse 120, respirations 32
 - d. A woman with fractured skull, found U on AVPU scale, not breathing; when airway opened, still no breathing

Appendix D

Disaster Response Advanced First Aid

Final

Circle the Best Answer

You can cross out one question you'd like to skip, it will automatically be correct (a "freebie")

Name/Number _____

Date _____

- 1. Which of the following is not true. Natural disasters
 - a. Include incidents in which 10+ are killed, 100+ are affected, or there is a declared state of emergency
 - b. Kill on average 100,000 people a year and affect 200 million worldwide
 - c. Occur in the US more than any other country, save one
 - d. Are declining over the last decade, due to better early warning and preparation
- 2. Disaster medicine is different than street medicine due to:
 - a. Being more than a half hour from definitive care
 - b. Environmental dangers (hypo/hyperthermia, smoke inhalation, drowning, etc.)
 - c. Austere environments, extended care times, limited resources, etc.
 - d. Actually, there is very little difference
- 3. Upon arriving on the scene of a medical emergency the first thing to do is
 - e. Conduct a primary survey
 - f. Check scene safety
 - g. Ensure patient's airway is clear
 - h. Put on gloves
- 4. For an individual volunteer implied consent means
 - a. You can treat an underage minor if parent/guardian is not present
 - b. You can treat someone who is intoxicated
 - c. You can treat someone who is unconscious
 - d. All of the above
- 5. Parts of the secondary survey include
 - a. A head-to-toe physical exam
 - b. SAMPLE history
 - c. Taking vitals
 - d. All of the above

SAMPLE stands for

- 6. S_____
- 7. A_____
- 8. M_____
- 9. P_____
- 10. L ______ 11 E _____

- 12. SOAP notes are important for all of the following reasons except:
 - a. Good documentation helps when you hand the patient off to higher medical care
 - b. SOAP notes help protect you from legal issues and/or getting sued
 - c. SOAP notes help track changes in a patient's condition
 - d. SOAP notes help a rescuer develop a plan
- 13. AVPU
 - a. Is a way to measure and record mental status
 - b. Stands for Alert, Verbal, Pain, Unresponsive
 - c. Can be further measured by Alert and Oriented (AO) by four parameters
 - d. All of the above
- 14. A patient who has suffered a TBI, who was unconscious for 5 minutes, but is now fully responsive other than not remembering the accident is
 - a. AOx1
 - b. AOx2
 - c. AOx3
 - d. AOx4
- 15. Questions that are part of the SAMPLE history include
 - a. Allergies
 - b. Medications (prescription, over the counter, natural, recreational, etc.)
 - c. Last ins and outs (food, water, bathroom, etc.)
 - d. All of the above
- 16. What are likely causes of chest pain
 - a. Dehydration
 - b. Acid reflux
 - c. Hyper or hypothermia
 - d. All of the above
- 17. Which of the following questions about shock are true
 - a. It is a life-threatening condition
 - b. It can be caused by a variety of causes including significant blood loss, spinal cord injury, sepsis, anaphylaxis
 - c. Treatment in the field is limited but includes lying the victim down and keeping her or him warm
 - d. All of the above

What are the four questions, in order, of a focused spine assessment ("clear the spine") to avoid use of a cervical collar

- 18.
- 19.
- 20.
- 21.
- 22. What is the best treatment for a mild TBI (concussion)
 - a. Prevent the patient from sleeping
 - b. At night awaken every two hours to assess condition
 - c. Let rest with minimal stimulation and ideally sleep
 - d. Both A and B

- 23. When should a patient be immediately evacuated after a head injury?
 - a. The patient is unconscious for more than 5 minutes
 - b. The patient has persistent vomiting and a worsening headache
 - c. The patient doesn't remember the event and is nauseous
 - d. All of the above
- 24. STOPHEATS is an acronym to help consider why a patient is
 - a. Hypothermic
 - b. Unconscious or is lowered on the AVPU scale
 - c. Going into shock
 - d. All of the above
- 25. In the field a suspected heart attack, with a conscious patient, should be treated by
 - a. Aspirin
 - b. Epinephrine
 - c. CPR
 - d. None of the above
- 26. A good splint
 - a. If done right, should not need adjustments
 - b. Minimizes the need for padding to ensure security
 - c. Has CSM (Circulation, Sensation, and Movement) checked before and after application
 - d. All of the above
- 27. After stopping bleeding, the most important part of treating a wound is
 - a. Properly cleaning the wound
 - b. Applying an appropriate dressing
 - c. Applying an appropriate bandage
 - d. Ensuring the wound is closed
- 28. The most effective way of treating most serious lacerations is
 - a. Direct pressure
 - b. Tourniquet
 - c. Appropriate dressing and bandage
 - d. Stiches
- 29. Which kinds of the following burns would cause you the least concern?
 - a. Partial thickness burn on the hand, larger than a credit card
 - b. Partial thickness burn on the foot, larger than a credit card
 - c. Partial thickness burns around the mouth and nose
 - d. Partial thickness burns on the dominant arm, larger than a credit card
- 30. Which of the following is true about burns
 - a. The first treatment is water or other liquids on the burn
 - b. Burns over more than 10% of body surface area can lead to hypothermia and dehydration
 - c. Burns are easily infected
 - d. All of the above
- 31. The most telling symptom of mild hypothermia is
 - a. The "umbles"
 - b. Increased respiration and heart rate
 - c. Loss of consciousness
 - d. Hyperactivity
- 32. Which of the following is true about hypothermia
 - a. The most effective treatment for severe hypothermia is to get the patient to exercise vigorously
 - b. The most effective treatment for mild hypothermia is have the patient drink hot liquids (tea, coffee, etc.)
 - c. The challenging part of hypothermia is that the patient doesn't know it is happening
 - d. All of the above

(Appendix D, cont.)

- 33. Treatment for heat stroke includes
 - a. Aspirin to reduce patient's temperature
 - b. Immediately douse the patient with water and fan
 - c. Placing patient horizontal and raising legs to increase blood flow to head and reduce cardiac work load
 - d. All of the above
- 34. You find a neighbor who is diabetic and is acting groggy and confused. You should
 - a. Help her administer her insulin
 - b. Feed her sugary foods
 - c. Ensure she is properly hydrated
 - d. All of the above
- 35. Which of the following is not true about carrying a patient in an improvised litter
 - a. Ideally there are at least 6-8 rescuers
 - b. The group will move no more than 1 mile an hour, and likely far slower
 - c. Carrying a patient out involves risk to the rescuers and the patient
 - d. It is almost impossible to build an improvised spine-stable litter
- 36. In terms of abdominal pain, which of the following would be a reason for emergency evacuation
 - a. Localized pain with guarding and rigidity
 - b. Cramping and gas for 6-8 hours
 - c. Diarrhea and cramping for 6-8 hours
 - d. Moderate pain without fever
- 37. A likely cause of diarrhea and/or GI complaints is
 - a. Dirty pots and pans
 - b. Dirty hands
 - c. Food spoilage
 - d. Typhoid
- 38. The most fool-proof way to treat water for drinking is
 - a. Filters
 - b. Iodine
 - c. UV
 - d. Boiling
- 39. Mild to moderate asthma should be treated by
 - a. Antihistamines
 - b. Decongestants
 - c. Epinephrine
 - d. Inhaler
- 40. Symptoms of respiratory distress include all of the following except
 - a. Patient's inability to speak in paragraphs or even full sentences
 - b. Patient not wanting to lay supine or prone
 - c. Patient demanding water or other fluids
 - d. Patient wanting to "tripod"
- 41. Which of the following is true about anaphylaxis
 - a. More than one dose of epinephrine is dangerous
 - b. Benadryl is helpful as a follow up to epinephrine
 - c. Signs and symptoms include slowing heart and respiratory rates, intense sweating, and muscle spasms
 - d. Without epinephrine it is fatal almost 100% of the time

- 42. In a triage situation, which patient should receive immediate care (red tagged)
 - a. A woman with a compound tib-fib break and concussion, AOx3, pulse 84, respirations 18
 - b. A child found with burns over both legs (~10% of body surface), AOx4, pulse 80, respirations 16
 - c. A man found U on the AVPU scale, pulse 120, respirations 32
 - d. A woman with fractured skull, found U on AVPU scale, not breathing; when airway opened, still no breathing
- 43. Which of the following is true of at-risk populations
 - a. They are a small percentage of the overall population, but they are important to consider given special needs
 - b. A priority in terms of dealing with children is to reunite them with family
 - c. The elderly are more at risk for almost all mental health issues
 - d. All of the above
- 44. In terms of disaster and mental health which of the following is true
 - a. Most disaster survivors cope fairly well and do not have mental health issues
 - b. Mental health issues peak a day or two after a disaster and then start to get better
 - c. Males and the elderly are most at risk from mental health issues
 - d. All of the above
- 45. In terms of disaster and mental health which of the following is true
 - a. Mental health assistance should come before helping with social or physical needs
 - b. An important role for first responders in disasters is to de-brief and discuss traumatic events with survivors
 - c. Psychological First Aid is recommended as the preferred intervention
 - d. All of the above

46. In an earthquake your best bet is to

- a. If indoors get under a sturdy desk or table or close to an interior wall
- b. If outdoors stay away from exterior walls, power lines, trees, or signage
- c. If trapped in debris, not light matches and try to avoid shouting
- d. All of the above
- 47. Which of the following is true in regards to tsunamis
 - a. If unable to get to higher ground, seek refuge in concrete reinforced building, higher than the 3rd floor
 - b. Get outdoors to avoid entrapment
 - c. Stay put as travel is the most dangerous option
 - d. Once the first and main wave passes, it is safe to start rescue operations
- 48. If caught in a wildfire what should you <u>not</u> do is
 - a. Cover behind or near rock outcroppings, boulders, large downed trees, etc. to protect from radiant heat
 - b. Pass quickly through the flames at their least wide location to get to burned over area
 - c. Move uphill to reach high(er) ground
 - d. Protect your airway by staying low and holding a dry bandana or cloth over mouth
- 49. Which of the following is true about severe thunderstorm, typhoon, or tornado
 - a. Avoid interior rooms with no doors or windows as you can be trapped
 - b. A hard-topped vehicle offers adequate protection
 - c. If caught in a car try to outrun the storm
 - d. If in a high-rise building, get to the lowest floor possible, as higher floors are more dangerous
- 50. Which of the following is true about floods
 - a. A hard-topped vehicle offers relative safety
 - b. While there are few fatalities, injuries are numerous
 - c. In the US floods kill more people than any other type of disaster
 - d. All of the above

Appendix E

DISASTER FIRST AID SELF-EFFICACY SCALE

The following statements list different activities related to providing first aid and emergency care during or immediately after a disaster. In the column Confidence, rate how confident you are that you can do them as of now.

Please rate your degree of confidence by recording a number from 0 to 100 using the scale given below.

0 Cannot do at all	10	20	30		50 Aoderately rtain can do	60	70	80	90 100 Highly certa can c		
									Confidenc (0-100)		
1. Make	e decisio	ns and sol	ve proble	ms about	a person's	emerge	ency care				
2. Assess a scene to ensure it is safe and secure											
3. Rapidly assess if a person has a life-threatening condition											
4. Care for a person with life-threatening injuries for more than two hours											
5. Perfo	5. Perform high quality CPR										
6. Treat	6. Treat a person with severe bleeding										
7. Mana	age a per	son with a	a spinal in	ijury							
9. Help	9. Help someone who has a diabetic emergency as well as another chronic illness										
10. Reco	gnize an	d treat a p	erson wit	h a menta	l health em	ergenc	у				
11. Lead	the evac	cuation of	an uncon	scious per	rson with h	elp fror	n untraine	d people			
12. Help	respond	to a scene	e that invo	olves more	e victims th	an resp	onders				
13. Provi	ide care	for self an	d other re	sponders	after an en	ergenc	y incident	is over			
14. Knov	w how to	take step	s to preve	ent commo	on injuries	and illn	esses				
15. Treat	a person	n in diffic	ult condit	ions or we	eather						

Please turn over and complete other side

Willingness to Provide First and Emergency Care Scale

The following statements ask about your willingness to provide first aid and emergency care, knowing what you know right now, during or immediately after a disaster. In other words, how likely is it that would provide first aid and emergency care? In the column *Willingness*, record how willing you would be to provide help, assuming you and your immediate family or household are safe.

Please rate your willingness by recording a number from 0 to 100 using the scale given below.

0 Not at all willing	10	20	30	40	50 Moderately Willing	60	70	80	90	100 Totally willing
1. How willing would you be to help an injured stranger during or immediately after a disaster										
2. How willing would you be to help an injured <u>neighbor</u> during or immediately after a disaster										
3. How willing	would you	u be to helj	p an injured	d <u>close</u>	<u>friend</u> during o	or immed	liately afte	r a disaste	r	_

Please turn over and complete other side