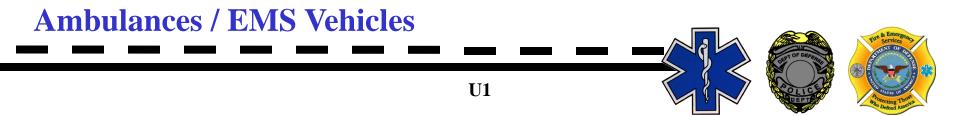




Basic Emergency Vehicle Operators Course





Objectives:

By the end of the module students:

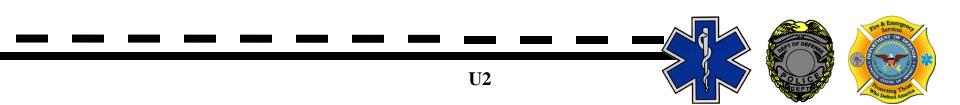
Identify what a "safe" transport is

Will be able to identify inspection and maintenance procedures

Will be able to identify factors associated with the all phases of the call for service from: dispatch – arrival – transport.

Will be able to identify some of the unique handling characteristics of the vehicle.

Will describe what PPE and associated duties are required.

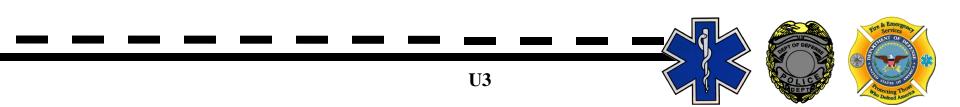




Guidelines:

OPNAVINST 11320.27 (January 2008) Navy Installation Emergency Medical Service (EMS) Program

OPNAVINST 11320.23F





Goal

- An ambulance operator's primary responsibility is the safe transport and arrival of the patient to the primary care facility.
- No medical emergency, however severe, justifies driving in a manner that risks loss of control of the vehicle or that relies on the operators of other vehicles or pedestrians to react ideally.







Safe Means:

Not risking a crash

Smooth Driving

Driving that will not stress the patient Driving that will permit the crew to provide medical care to the patient.







Inspection & Maintenance

The vehicle inspection and maintenance program should follow the manufactures guidelines

Additionally the driver should inspect the vehicle at the beginning and end of each shift

The ambulance crew should also conduct an inventory of the vehicles medical supplies, and ensure proper working order of any life-support equipment daily.





Inspection & Maintenance

A local command or unit checklist should be developed and used to ensure the inspection process is completed daily.



	OK	LOW	REPLACED		OK	LOW REPLACE
Pillows				Cofe and the set of the star back		
				Soft roller self-adhering bandages		
Blanks & Sheets				Aluminum foil, sterile & wrapped		
Portable suction apparatus				Adhesive tape		
Bag-mask ventilation unit				Burn sheets		
a. Adult mask				Traction splint, limb-support slings,		
b. Child mask				ankle hitch and		
C. Infant mask				traction strap		
Oropharyngeal airways				Inflatable splints		
a. Adult				Spine boards with accessories		
b. Child				a. Short		
c. Infant		•		b. Long		
Mouth to mouth airways				Triangular bandages		
a. Adult				Large-size safety pins		
b. Child				Shears for bandages		
Oxygen equipment, tubing & masks			1990 - The State of S	Sterile obstetrical kit		
a. Adult				Poison kit		
b. Child				Blood pressure manometer, cuff.		
c. Infant				and stethoscope		
Mouth gags and tongue blades				Compartmentalized pneumatic		
Universal dressings				trousers with inflation		
Sterile gauze pads				equipment		
12121						
Other Fire extinguishing equipment						
Fire extinguishing equipment				Fire Axe		
Two-way radio for direct hospital				Wrecking bar		
communication		-		Crowbar		
Warning devices				Bolt cutter		
-triangular reflectors				Power jack & spreader tool		
-battery operated flares				Shovel	-	
Telementry equipment				Tin snip		
Extrication equipment				Two 50' manila ropes -		
		-		3/4" diameter		
Screwdriver	_			Hard hat	12.2	
Screwdriver - Phillips				Safety goggles		
Hacksaw - (carbide) blades				15' Rated chain with grab		
Pliers				hook & running hook	12-11-11-1-1-	
Hanner				-		
Remarks:						
Driver:						
Supervisor:				Date:		





Calls for Service / Dispatched

Obtain all relevant information.

Description of the emergency

Address or other identifiers

Indication of priority / response code

Law Enforcement on scene, or enroute?







Calls for Service / Responding to the Patient Responding to the Patient Obey rules of the road Speed consistent to ensure safe arrival Proper use of lights/siren consistent with host nation/state/local laws Never drive the vehicle beyond your skills.

U9





Responding

Vehicle Handling Characteristics

Larger Vehicle

Heavier Vehicle (greater stopping distances)

Center of gravity (turns or evasive maneuvers)

Blind Spots

Following distance







U11

Responding (rollover potential)

Ambulance design makes them have a higher center of gravity then your normal passenger vehicle making them especially susceptible to rolling over.





Responding

Exemptions vs. Policy Signal Lights (required to stop or slow down) R/R Crossings Posted Speed vs. Response Speed Return Trip







At The Scene:

Parking Considerations

Ambulances should be positioned for the most convenient access to patient/victim

Larger, heavier vehicles have a greater stopping distance then sedans

Following distances should be increased

Due to vehicle's higher Center of Gravity be particularly aware of any turns or sudden evasive maneuvers.









At the scene

Ambulance should be positioned to minimize disruption to any traffic and be protected from damage.

Other Parking Considerations

- Always set the parking brake
- Be aware of the terrain: inclines, declines, potholes
- Stretchers have wheel to







At the scene

Parking Considerations

If more then one ambulance is at the scene, they should be parked in the head and tail position.

Be aware of where the FD will lay hose.









Departing the scene

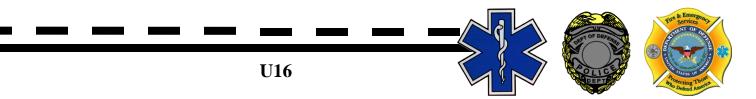
The ambulance should not leave the scene until:

The patient is secured

All doors and compartments are closed and secures

The crew checks off with each other Use assistance when available to get into traffic.







Driving with a patient onboard Avoid excess speed Avoid sudden starts and stops It can frighten the patient Place a stabilized patient into shock Disrupt ongoing medical treatment





Driving with a patient onboard

In almost all cases, the transport should be conducted:

At speeds below the legal limit With emergency lights activated and headlights on

With limited use of the siren







Driving with a patient onboard

In almost all cases, the transport should be conducted:

Obey all stop signs and signal lights Coming to a Full Stop at all railroad

crossings

Using "Due Regard"





OPERATI





Driving with a patient onboard There are certain medical conditions that may require "emergency mode" transport.

Stop breathing

Heart failure

Uncontrolled excessive bleeding

Complicated impending child birth

These only constitute about 5 – 7 percent of the total.





Driving with a patient onboard

In any of these cases, the ambulance should proceed to the hospital as quickly and safely as possible.









NHTSA Guidelines

Transporting Children

Always check with manufactures guidelines

Departmental Policy

DOT recommendations

Parent in the back may calm the child



Approximately six million children are transported by emergency medical services (EMS) vehicles each year in the United States. There are risks of injury associated with transport that can

THE DO'S AND DON'TS OF TRANSPORTING

be minimized. An ambulance is NOT a standard passenger vehicle. Unlike the well-developed and publicized child passenger safety standards and guidelines, specifications for the safe transport of ill and injured children in ambulances are still under development. Standard automotive safety practices and techniques cannot be applied directly to EMS vehicle environments due to biomechanical and practical differences. Caution is encouraged in the application of passenger vehicle principles to ambulances and in the utilization of new and unproven products.

The Emergency Medical Services for Children (EMSC) Program supports efforts to improve the safety of pediatric patients being trans ported in EMS vehicles. Through an EMSC grant, the Division of Pediatric Emergency Medicine at Johns Hopkins Children's Center is working to fill critical knowledge gans and developing standards for pediatric EMS transport safety. Project results should be available in the year 2000.

A national consensus committee, sponsored by the EMSC Program, is reviewing current EMS child transportation safety practices. The group, which includes representatives from EMS national organizations, Federal government agencies, and transportation safety engineers, is developing preliminary recommendations for EMS providers until scientific research is completed.

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There are certain practices that can significantly decrease the likelihood of a crash, and in the event of a crash or near collision, can

significantly decrease the potential for injury. These practices are listed below. Importantly, as is mandated in several states, the NHTSA Emergency

Vehicle Operating Course (EVOC), National Standard Curriculum or its equivalent is an integral part of this transport safety enhancement.

Pending research and consensus outcomes, the following guidelines for good practice should be observed when transporting children in EMS vehicles.

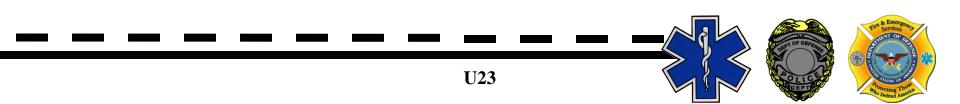
DO's

- ✓ DO drive cautiously at safe speeds observing traffic laws.
- ✓ DO tightly secure all monitoring devices and other equipment.
- **DO** ensure available restraint systems are used by EMTs and other occupants, including the patient
- ✓ DO transport children who are not patients, properly restrained, in an alternate passenger vehicle, whenever possible.
- ✓ DO encourage utilization of the DOT NHTSA Emergency Vehicle Operating Course (EVOC). National Standard Curriculum. DON'Ts
- X DO NOT drive at unsafe high speeds with ranid acceleration, decelerations, and turns
- * DO NOT leave monitoring devices and other equipment unsecured in moving EMS vehicles.
- X DO NOT allow parents, caregivers, EMTs or other passengers to be unrestrained during transport.
- X DO NOT have the child/infant held in the parent, caregiver, or EMT's arms or lap during transport.
- X DO NOT allow emergency vehicles to be operated by persons who have not completed the DOT EVOC or equivalent





Other Transportation Needs Transporting Non-Patients Departmental Policy Not in the rear with the patient Always buckled Transporting the dead





U24

At the scene

Directing Traffic
This is a primary police function
Use cones to funnel traffic when ever possible
DO NOT turn your back on traffic



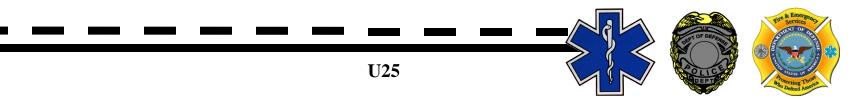


At the scene

PPE

Personnel working closely or in the path of oncoming traffic shall wear approved reflective vest in accordance with Navy & Marine Corps directives.







REVIEW QUESTIONS

1) Because of their high center of gravity ambulance are more susceptible to this type of crash?

2) How should an ambulance be positioned when two or more are on scene?

3) Why does an EV driver/operator want to avoid sudden stops when transporting a patient?

4) In most cases, how should patients be transported?

