

## Module 1-1

### Introduction to EMS Systems



## The EMS System

*“A network of resources to provide emergency care and transport to victims of sudden illness and injury.”*

### Twin Cities Hospitals

- Level One Trauma Centers
  - Hennepin County Medical Ctr – Mpls.
  - Regions Hospital – St. Paul
  - North Memorial Medical Ctr – Robbinsdale

### Burn Centers

- HCMC
- Regions

### Children’s Hospitals

- Minneapolis Children’s Medical Center
- St. Paul Gillette Children’s Hospital

### Emergency Scene



### Recognition of Accident and Activation of EMS



### EMS Dispatch



### Arrival of First-Responders



Care Given at the Scene



Arrival of Additional EMS



Care During Transport



Transfer to Hospital Emergency Department



### Access to EMS Systems

Enhanced 9-1-1

9-1-1

Non 9-1-1

### Levels of Training

- Levels of training
  - First Responder 40 hours. 1<sup>st</sup> to arrive on scene. Immediate care for life threatening inj's
  - EMT-Basic 120 hours. Min. req. for ambulance
  - EMT-Intermediate 56-275 hours. IV's, advanced airway techniques, add'l medications
  - EMT-Paramedic 1-2 years. ET tubes, IV's medications, EKG's, chest decompression

### Medical Careers Cont'd

- Licensed Practical Nurse (LPN): 1 year
- Registered Nurse (RN): 2 years-AAS, 3 yr-diploma, 4 yr-degree (BSN)
- Physical Therapist – 5-6 years
- Physicians Assistant – 5 years
- Physician – 10 – 14 years

### In-Hospital Care System



### First Responder Roles

- Safety.
- Gaining access to the patient.
- Assessment and initial patient care.
- Continuation of care.
- Record Keeping.
- Liaison.

## First Responder Responsibilities

- Personal health and safety.
- Caring attitude.
- Maintain composure.
- Neat, clean, professional appearance.
- Up-to-date knowledge and skills.
- Put patient's needs as a priority.

## Medical Direction Given by On-Line Orders



## Patient Related Duties

1. Safely gain access, using simple hand tools when necessary
2. Find out what's wrong w/patient and provide emer. Care w/minimal equipment
3. Lift/move only when required, & w/o additional injury
4. Transfer pt & info to more highly trained personnel when they arrive.

## Show & Tell-Basic Equipment

- Triangular bandages
- Roller-type bandages (gauze)
- Universal dressings 2x2, 4x4, 5x9
- Occlusive dressings (airtight seals)
- Adhesive tape
- Bandage shears
- Eye protection (paper cup or cone)
- Stick (for tourniquet)
- Blanket & pillow
- Upper and lower extremity splint sets

## PPE

- Latex, vinyl or nitrile gloves
- Eye protection
- Masks & barrier devices (pocket mask, microshield)
- HEPA, N95 masks
- Gowns
- Additional: Jack, jack handle, pliers, screwdriver, hammer and knife; rope

## Remember & Consider

- Components of EMS system & level of care each can perform. Can ask for proof of cert
- Roles, responsibilities & traits of FR's
- What qualities would you like to see in a FR who renders care to you or someone your loved ones. Do you have those qualities?

## Check It Out

- Scenario: 40 something male with chest pain.
  - Assess
  - Treat
  - Give report to EMT-P