## **UNIT TERMINAL OBJECTIVE**

3-5 At the completion of this unit, the EMT-Critical Care Technician student will be able to follow an accepted format for the dissemination of patient information in verbal form, either in person or over the radio.

### **COGNITIVE OBJECTIVES**

At the completion of this unit, the EMT-Critical Care Technician student will be able to:

- 3-5.1 Identify the importance of communications when providing EMS. (C-1)
- 3-5.2 Identify the role of verbal, written, and electronic communications in the provision of EMS. (C-1)
- 3-5.3 Describe the phases of communications necessary to complete a typical EMS event. (C-1)
- 3-5.4 Identify the importance of proper terminology when communicating during an EMS event. (C-1)
- 3-5.5 Identify the importance of proper verbal communications during an EMS event. (C-1)
- 3-5.6 List factors that impede effective verbal communications. (C-1)
- 3-5.7 List factors which enhance verbal communications. (C-1)
- 3-5.8 Identify the importance of proper written communications during an EMS event. (C-1)
- 3-5.9 List factors which impede effective written communications. (C-1)
- 3-5.10 List factors which enhance written communications. (C-1)
- 3-5.11 Recognize the legal status of written communications related to an EMS event. (C-1)
- 3-5.12 State the importance of data collection during an EMS event. (C-1)
- 3-5.13 Identify technology used to collect and exchange patient and/ or scene information electronically. (C-1)
- 3-5.14 Recognize the legal status of patient medical information exchanged electronically. (C-1)
- 3-5.15 Identify and differentiate among the following communications systems: (C-3)
  - a. Simplex
  - b. Multiplex
  - c. Duplex
  - d. Trunked
  - e. Digital communications
  - f. Cellular telephone
  - g. Facsimile
  - h. Computer
- 3-5.16 Identify the components of the local dispatch communications system and describe their function and use. (C-1)
- 3-5.17 Describe the functions and responsibilities of the Federal Communications Commission. (C-1)
- 3-5.18 Describe how the Emergency Medical Dispatcher functions as an integral part of the EMS team. (C-1)
- 3-5.19 List appropriate information to be gathered by the Emergency Medical Dispatcher. (C-1)
- 3-5.20 Identify the role of Emergency Medical Dispatch in a typical EMS event. (C-1)
- 3-5.21 Identify the importance of pre-arrival instructions in a typical EMS event. (C-1)
- 3-5.22 Describe the procedure of verbal communication of patient information to the hospital. (C-1)
- 3-5.23 Describe information that should be included in patient assessment information verbally reported to medical direction. (C-1)
- 3-5.24 Diagram a basic model of communications. (C-3)
- 3-5.25 Organize a list of patient assessment information in the correct order for electronic transmission to medical direction according to the format used locally. (C-3)

### **AFFECTIVE OBJECTIVES**

At the end of this unit, the EMT-Critical Care Technician student will be able to:

3-5.26 Show appreciation for proper terminology when describing a patient or patient condition. (A-2)

### **New York State EMT-Critical Care Curriculum**

**Patient Assessment: 3** 

Communications: 5

# **PSYCHOMOTOR OBJECTIVES**

At the end of this unit, the EMT-Critical Care Technician student will be able to:

- 3-5.27 Demonstrate the ability to use the local dispatch communications system. (P-1)
- 3-5.28 Demonstrate the ability to use a radio. (P-1)
- 3-5.29 Demonstrate the ability to use the biotelemetry equipment used locally. (P-1)

#### **DECLARATIVE**

- General
  - A. Importance of communications when providing EMS
    - 1. EMT-Critical Care Technician functions as one part of a team
    - 2. Need to effectively communicate patient information and scene assessment
    - Medical direction
    - 4. System control and administration
    - 5. Scene control
  - B. Role of verbal, written, and electronic communications in the provision of EMS
    - 1. Communications between party requesting help and the dispatcher
    - 2. Communications between the dispatcher and the EMT-Critical Care Technician
    - 3. Communications between EMT-Critical Care Technician in the field and receiving hospital and/ or medical direction physician (on-line)
    - Communication with receiving hospital personnel (on-arrival)
  - C. Phases of communications necessary to complete a typical EMS event
    - Occurrence
    - 2. Detection
    - 3. Notification and response
    - 4. Treatment and preparation for transport
    - 5. Preparation for next event
      - a. Pre-arrival instructions
      - b. Communication on scene among other providers and with patient
  - D. Diagram of a basic model of communications
    - 1. Idea
    - 2. Encoder
    - Sender
    - 4. Media or channel
    - 5. Receiver
    - Decoder
    - 7. Feedback
  - E. Role of proper terminology when communicating during an EMS event
    - 1. Can shorten transmissions/ narratives
    - 2. Unambiguous
    - 3. Common means of communications with other medical professionals
  - F. Role of proper verbal communications during an EMS event
    - 1. Exchange of system information
    - 2. Exchange of patient information
    - 3. Medical control
    - Professionalism
  - G. Factors that impede effective verbal communications
    - 1. Semantic
    - 2. Technical
  - H. Factors which enhance verbal communications
    - 1. Semantic
    - 2. Technical
  - I. Importance of proper written communications during an EMS event
    - 1. Written record of incident

- Legal record of incident
- 3. Professionalism
- 4. Other
  - a. Medical audit
  - b. Quality improvement
  - c. Billing
  - d. Data collection
- J. Factors which impede effective written communications
  - 1. Semantic
  - Technical
- K. Factors which enhance written communications
  - Semantic
  - Technical
- L. Legal status of written communications related to an EMS event
  - 1. Record of incident
  - 2. Part of medical record
  - 3. Confidentiality/ disclosure
- M. Importance of data collection during an EMS event
  - 1. System administration
  - 2. Research
  - 3. Quality management often results in policy change
- N. New technology used to collect and exchange patient and/ or scene information electronically
  - 1. Technology-based
  - 2. Real-time capture of events/ information
  - 3. Integrated with diagnostic technology
  - 4. Reduces dependance on traditional means of documentation, i.e., written
  - 5. Influences role of medical direction
    - a. Provides for advanced notification
    - b. Potential for reduced time to in-hospital diagnosis and therapy
- O. Legal status of patient medical information collected and exchanged electronically
  - 1. Same status as traditional written documentation
  - 2. May not have a "paper record" of incident
- II. Systems
  - A. Methodology used for EMS communication
    - 1. Simplex
      - a. Advantages
        - (1) Allows speaker to get message out without interruption
      - b. Disadvantages
        - (1) Slows process
        - (2) More formal
        - (3) Takes away ability to discuss case
    - 2. Multiplex
      - a. Advantages
        - (1) Either party can interrupt as necessary
        - (2) Facilitates discussion
      - b. Disadvantages
        - (1) Each end has tendency to interrupt the other

| 444444444444444444444444444444444444444 | 1444444444 | 4444444444  | 144444444          | 14444444444444444444444444444444444444                      |  |
|---|------------|---|--------------------|---|--|
|   |            |   | (2)                | Voice interferes with data transmission                     |  |
|   | 3.         | Duple   |                    |   |  |
|   |            | a. '  | Advar              | ntages  |  |
|   |            |   | (1)                | Either party can interrupt as necessary                     |  |
|   |            |   | (2)                | Facilitates discussion                                      |  |
|   |            | b.  | ` '                | vantages  |  |
|   |            |   | (1)                | Each end has tendency to interrupt the other                |  |
|   | 4.         | Trunke  | Trunked            |   |  |
|   |            | a.  | Advar              | ntages  |  |
|   |            | b.  |                    | vantages  |  |
|   | 5.         | Digital   |                    | •   |  |
|   |            | a.  |                    | ntages  |  |
|   |            | b.  | Disad              | vantages  |  |
|   | 6.         | Cellula   | Cellular telephone |   |  |
|   |            | a.  | Advar              | ntages  |  |
|   |            |   | (1)                | Less formal   |  |
|   |            |   | (2)                | Promotes discussion   |  |
|   |            |   | (3)                | Can reduce on-line times                                    |  |
|   |            |   | (4)                | Physician can speak directly with patient                   |  |
|   |            | b.  | Disad              | vantages  |  |
|   |            |   | (1)                | Geography can interfere with signal                         |  |
|   |            |   | (2)                | Cell site may be unavailable                                |  |
|   |            |   | (3)                | External antenna necessary                                  |  |
|   |            |   | (4)                | Problems with denied access to cell (PIN numbers unknown or |  |
|   |            |   |                    | forgotten)  |  |
|   | 7.         | Facsimile   |                    |   |  |
|   |            | a.  |                    | ntages  |  |
|   |            |   | (1)                | Provides earlier notification                               |  |
|   |            |   | (2)                | Produces another piece of medical documentation             |  |
|   |            | b.  |                    | vantages  |  |
|   |            |   | (1)                | Must have access to a fax machine (at each end)             |  |
|   | 8.         | Comp  | Computer           |   |  |
|   |            | a.  |                    | ntages  |  |
|   |            |   | (1)                | Potential to save retrospective data entry step             |  |
|   |            |   | (2)                | Can document in real-time                                   |  |
|   |            |   | (3)                | Sort on many categories                                     |  |
|   |            |   | (4)                | Create multiple reporting formats                           |  |
|   |            |   | (5)                | Provide system data quickly                                 |  |
|   |            | b.  |                    | vantages  |  |
|   |            |   | (1)                | Subject to limitation of the computer and the operator      |  |
|   |            |   | (2)                | Lose flexibility  |  |
| B.                                      |            | Components of the local dispatch communications system and function |                    |   |  |
|   | 1.         |   |                    | AND E 9-1-1   |  |
|   | 2.         | Public safety access point  |                    |   |  |

- - Types a.
  - Functions
- 3. Emergency medical dispatcher
  - Functions a.

- 4. Pre-arrival instructions
  - a. Purpose
  - b. Types
- System dispatcher
  - a. Functions
- III. Regulation The Federal Communications Commission (FCC)
  - A. Federal agency established to regulate telecommunications in the U.S.
  - B. Functions
    - Licensing
    - 2. Frequency allocation
    - 3. Technical standards
    - 4. Rule making and enforcement
  - C. Responsibilities
- IV. Dispatch
  - A. The functions of an Emergency Medical Dispatcher
    - Call taking
    - 2. Alerting and directing response
    - 3. Monitoring and coordinating communications
    - 4. Pre-arrival instructions
    - 5. Maintaining incident record
  - B. Appropriate information to be gathered by the Emergency Medical Dispatcher
    - 1. Caller's name and call-back number
      - a. Enhanced 9-1-1 system
    - 2. Address of event
    - Nature of event
    - 4. Specific event information
      - a. Call screening
      - b. Pre-arrival instructions
  - C. Role of emergency medical dispatch in a typical EMS event
    - 1. Part of the EMS system team
    - 2. First contact with the EMS system
    - 3. Coordination of response
    - 4. Coordination of communications
    - 5. Provision of pre-arrival instructions to mitigate event prior to arrival of units
    - 6. Incident data collection
  - D. Importance of pre-arrival instructions in a typical EMS event
    - 1. Provides immediate assistance
    - Complements call screening
    - 3. Provides updated information to responding unit(s)
    - 4. May be life sustaining in critical incidents
    - 5. Emotional support for caller/ bystanders/ victim
- V. Procedures
  - A. Information that should be verbally reported to medical direction
    - 1. Depends on technology used for transmission
    - 2. May vary with local protocol

- 3. Based on patient priority
- 4. Standard format
  - a. Efficient use of communications system
  - b. Assists medical direction
  - c. Assures no significant information is omitted
- 5. Information
  - a. Unit identification/ provider identification
  - b. Description of scene
  - c. Patient's age, sex, and approximate weight (for drug orders)
  - d. Patient's chief complaint
  - e. Associated symptoms
  - f. Brief, pertinent history of the present illness/injury
  - g. Pertinent past medical history, medications, and allergies
  - h. Pertinent physical exam findings
  - i. Treatment given so far
  - j. Estimated time of arrival at hospital
  - k. Other pertinent information
- B. General procedures for exchange of information
  - 1. Protect privacy of the patient
  - 2. Use proper unit numbers, hospital numbers, proper names, and titles
  - 3. Do not use slang or profanity
  - 4. Use standard formats for transmission
  - 5. Utilize the "echo" procedure when receiving directions from the dispatcher or physician orders
  - 6. Obtain confirmation that message was received
- VI. Procedure for the use of the biotelemetry equipment used locally