



Designation: F 1224 – 89 (Reapproved 2004)

# Standard Guide for Providing System Evaluation for Emergency Medical Services<sup>1</sup>

This standard is issued under the fixed designation F 1224; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This guide covers providing system evaluation for emergency medical services (1),<sup>2</sup> including authority, responsibility, objectives, approaches, data, applications, and implementation.

NOTE 1—This guide does not address evaluation for individual prehospital, hospital, or posthospital providers. (Related guides will be developed.)

## 2. Referenced Documents

### 2.1 ASTM Standards:<sup>3</sup>

F 1149 Practice for the Qualifications, Responsibilities, and Authority of Individuals and Institutions Providing Medical Direction of Emergency Medical Services

F 1177 Terminology Relating to Emergency Medical Services

## 3. Terminology

### 3.1 Definitions of Terms Specific to This Standard:

3.1.1 *system evaluation*—a review of the performance of emergency medical services systems by qualified, experienced individuals.

3.1.2 *minimum data set*—the minimum number of data elements required for system evaluation.

3.2 *Definitions*—See Terminology F 1177.

## 4. Significance of Use

4.1 This guide establishes system evaluation as an essential component of emergency medical services systems.

4.2 This guide covers the methods and materials that are necessary to evaluate quality for emergency medical services systems at both the system operations and patient care levels.

<sup>1</sup> This guide is under the jurisdiction of ASTM Committee F30 on Emergency Medical Services and is the direct responsibility of Subcommittee F30.03 on Organization/Management.

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<sup>2</sup> The boldface numbers in parentheses refer to the references at the end of this guide.

<sup>3</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

## 5. Authority

5.1 The authority for providing system evaluation for emergency medical services rests with the entity that is ultimately legally responsible for system operation and evaluation.

## 6. Responsibility

6.1 The responsibility for providing system evaluation for emergency medical services systems rests with the directors of the entities specified in 5.1.

6.2 The responsibility for providing adequate financial resources and appropriate medical confidentiality for system evaluation for emergency medical services rests with the entities specified in 5.1.

6.3 Independent evaluation of individual parts of the emergency medical services system by prehospital, hospital, or posthospital providers must be integrated with and must not be substituted for system evaluation.

## 7. Objectives

7.1 System evaluation of quality for emergency medical services entails five objectives (2) including:

- 7.1.1 Setting priorities,
- 7.1.2 Assessing outcome,
- 7.1.3 Identifying problems,
- 7.1.4 Effecting changes, and
- 7.1.5 Reassessing outcome.

## 8. Approaches

8.1 System evaluation of quality entails approaches of structure, process, and outcome, singly or combined (3).

8.2 The approaches specified in 8.1 should be applied at both the system operations and patient care levels.

8.2.1 Applied at the system operations level (Table 1) these approaches provide a means of identifying issues that require further attention, including:

- 8.2.1.1 System operation, and
- 8.2.1.2 Individual patients.

8.2.2 Applied at the patient care level these approaches provide a means of evaluating care for patients that are specified in 8.2.1.2.

8.3 Audits performed using the approaches specified in 8.1 should examine two aspects of care, including: