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# Guidelines for Reporting Emergency Unit/Department Services Key Performance Indicators

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Health Policies and Standards Department Health Regulation Sector (2024)





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The Health Policy and Standards Department (HPSD) developed this Guideline in collaboration with Subject Matter Experts and would like to acknowledge and thank these health professionals for their dedication toward improving quality and safety of healthcare services in the Emirate of Dubai.

**Health Regulation Sector** 

**Dubai Health Authority** 

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#### INTRODUCTION

The Health Regulation Sector (HRS) plays a key role in regulating the health sector. HRS is mandated by the Dubai Health Authority (DHA) Law No. (6) of the year (2018) with its amendments pertaining to DHA, to undertake several functions including but not limited to:

- Developing regulation, policy, standards, guidelines to improve quality and patient safety and promote the growth and development of the health sector;
- Licensure and inspection of health facilities as well as healthcare professionals and ensuring compliance to best practice;
- Managing patient complaints and assuring patient and physician rights are upheld;
- Governing the use of narcotics, controlled and semi-controlled medications;
- Strengthening health tourism and assuring ongoing growth; and
- Assuring management of health informatics, e-health and promoting innovation.

The Guidelines for Reporting for Reporting Emergency Unit/Department (ED)Services Emergency Key Performance Indicators aims to fulfil the following overarching Dubai Health Sector Strategy 2026:

- Pioneering Human-centred health system to promote trust, safety, quality and care for patients and their families.
- Make Dubai a lighthouse for healthcare governance, integration and regulation.





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#### **EXECUTIVE SUMMARY**

Emergency Unit/ Department (ED) Services play a vital role in the healthcare system as they can be the entry point to the system for many patients and therefore the monitoring of their performance is equally important. The Guidelines for reporting Emergency Unit/Department (ED) Services Key Performance Indicators (KPIs), is developed to establish of system-level measures to monitor the provision of Emergency Unit/ Department Services in the Emirate of Dubai and to assure the optimization of the delivery of patient care and improving health outcomes.

Dubai Health Authority issued Standards for Emergency Unit/ Department Services that focus on:

- The healthcare professional requirements and permitted services for Emergency Units/Department.
- The health facility design requirements for Emergency Unit/Department Services aligned with the DHA Health facility guidelines.
- The policies, procedures, protocols and clinical governance that should be in place for the provision of Emergency Unit/Department. Services.
- The general requirements for patient triage, assessment, stabilisation, admission, referral and management.





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This document provides a guidance to healthcare facilities providing Emergency Unit/ Department. Services on reporting a set of 4 Key Performance Indicators (KPIs). These KPIs are categorized into Two domains as follows:

- 1. Time
  - Emergency Unit/Department Waiting Time to Triage.
  - Door to Balloon (PPCI)
  - Time from Emergency Unit /Department to in-patient ward
- 2. Effectiveness
  - Revisit Rate to The Emergency Unit/ Department within or less than 72 hours of Initial Discharge

All DHA licensed health facilities providing Emergency Unit/ Department Services should collect

the data Biannually and report them to DHA using the KPI data tools.





#### **DEFINITIONS:**

**Discharge**: the formal release of a patient from a hospital after a procedure or course of treatment.

**Door To Balloon:** the time taken from arrival to the ED to balloon deployment in the catheterization lab

**Emergency Unit/ Department.:** Health facilities that are open 24 hours, 7 days a week. An emergency unit/department is consultant-led (onsite emergency trained physician), with a multidisciplinary team and nursing support, and possess diagnostic, surgical and pharmacy capabilities to manage an emergency or life-threatening patient

Patient arrival: refers to the moment a patient presents themselves to the Emergency Unit/

Department for urgent medical care. Regardless of any methods.

**Primary Percutaneous Coronary Intervention (PPCI)** is an emergency procedure used to treat acute coronary artery disease.

**Revisit Rate:** Percentage of patients who return to the emergency department within or less than a specified period of initial discharge.

**ST-elevation myocardial infarction (STEMI):** is an event in which transmural myocardial ischemia results in myocardial injury or necrosis.

**Triage:** process which categorizes patients based on urgency of needs.





#### ABBREVIATIONS

AHA: American Heart Association

**DHA:** Dubai Health Authority.

**DOH:** Department of Health.

**ED:** Emergency Department

**HRS**: Health Regulation Sector.

**KPIs**: Key Performance Indicators.

LAMA: Leave Against Medical Advice

**PPCI**: Primary Percutaneous Coronary Intervention.

**STEMI**: ST-elevation myocardial infarction.





#### 1. BACKGROUND

Emergency services that are well established and connected are considered the backbones of strong functioning health systems. Dubai Health Authority (DHA) has issued its Standards for Emergency Unit/ Department Services and upon the execution of Emergency Transfer Services Assessment project the importance of establishing system level measures emerged. Given the critical role emergency care plays in healthcare provision, and importance of assuring the highest levels of quality and patient safety are upheld, it is important to establish system-level measures to monitor the provision of Emergency Unit/ Department services in the Emirate of Dubai.

This Guideline aims to assist providers of emergency services in understanding DHA's Emergency Services KPIs and their reporting method. Each of the KPIs covered in the guideline have a KPI card elaborating on the calculation and relevant details.

#### 2. SCOPE

2.1. Measurement and reporting of KPIs by DHA licensed Healthcare providers

#### 3. PURPOSE

- **3.1.** Improve Emergency Transfer providers' understanding of the Key Performance Indicators.
- **3.2.** Initiate data collection for Emergency Transfer Services KPIs.





- **3.3.** Ensure monitoring and quality assurance among Emergency Transfer Services providers.
- **3.4.** Improve Emergency services provided in Dubai.

#### 4. APPLICABILITY

**4.1.** All DHA licensed Hospitals providing Emergency Services.

#### 5. GENERAL PROCEDURES

- **5.1.** All DHA licensed facilities providing Emergency Unit/ Department. services are required to report the indicators specific to the scope of Emergency services.
- 5.2. Each facility providing emergency services Shall assign a Quality Representative who will be responsible for reviewing the data from departments and reporting the Key Performance Indicators (KPIs) to DHA Biannually.
- **5.3.** If the KPI is not applicable to the range of services provided by the facility, quality leads should mark the field with "NA".
- **5.4.** Quality Representative of Emergency Unit/ Department services must assure staff awareness of the new KPIs.
- **5.5.** Quality Representative must consider the following in data collection:
  - 5.5.1. Decide which KPI is applicable to the facility based on the scope of services.
  - 5.5.2. Assure data collection lead(s) are adequately skilled and resourced.
  - 5.5.3. Create a data collection plan based on methodology and available resources.





- 5.5.4. Assure adequate data collection systems and tools are in place.
- 5.5.5. Back up the data and assure protection of data integrity.
- **5.6.** Data Analysis and Submission:
  - 5.6.6. Quality Representative must ensure data is clean and analysed for reliability and accuracy before submission.
  - 5.6.7. Data collection should be on a Biannually basis.
  - 5.6.8. Submission deadline is the second week of reported quarter as follows:
    - Q1 and Q2 date of reporting- 5-14 Jan.
    - Q3 and Q4 date of reporting- 5-14 July.
  - 5.6.9. Submission should be using the link provided by DHA as below:
    - https://msurvey.government.ae/survey/Dubai%20Health%20Authority

#### <u>%20/k00</u>

• Or to scan the bar code



5.6.10. Data submission and related queries can be communicated with the Monitoring

and Evaluation Section (<u>MonitoringKPIs@dha.gov.ae</u>).





#### 6. KEY PERFORMANCE INDICATORS:

#### 6.1. Time:

#### 6.1.1 Emergency Unit/Department Waiting Time to Triage.

Emergency Unit/Department Waiting time to Triage		
Main Domain:	Time	
Subdomain:	Patient Waiting Time	
Indicator Definition:	The percentage of arrival time at Emergency Unit/Department	
	until patient is triaged by health care professional	
Calculation:	Numerator: Total number of patients triaged within 15 minutes	
	from arrival to Emergency Unit/Department	
	Denominator: Total number of patients in ED	
	Exclusions:	
	Patient who leave without being seen	
	• Patient who are immediately triage upon arrival (patient with	
	life threatening conditions)	
	• Patient transferred directly to other facility or department	
	upon arrival	
Target:	80% at 15 or less minutes	
Methodology:	Numerator/ denominator x100.	
Measuring Unit:	% of timely triage	
Reporting Frequency:	Biannually	
Desired Direction:	Higher is better	
Rationale:	Metric of process efficiency and patient care	
KPI Source:	DHA.	





## 6.1.2 Door to Balloon (PPCI).

Door to Balloon (PPCI)	
Main Domain:	Time
Subdomain:	Timely Intervention
Indicator Definition:	The percentage of waiting time for patients suspected with Acute Myocardial Infarction (AMI) from the patient's arrival at the Emergency Unit/Department to first inflation of the balloon catheter during percutaneous coronary intervention
Calculation:	Numerator:Total number of patients who received PPCI within 90 minutesor lessDenominator:Total number of STEMI patients who are indicated toreceive PPCIInclusion:•Hospitals with Cath Lab ServicesExclusions:•In-Patients•Patients who refuse/ ineligible for PPCI.•Patients who were treated with Tenecteplase (TNK) or Coronary artery bypass surgery (CABG).
Target:	80% of patients receiving PPCI within 90 mins or less
Methodology:	Numerator/ denominator x100.
Measuring Unit:	% of timely intervention
Reporting Frequency:	Biannually
Desired Direction:	Higher is better
Rationale:	Metric of effectiveness and quality
KPI Source:	DHA, AHA, DOH





## 6.1.3 Time from Emergency Unit / Department to in-patient ward.

Time from Emergency Unit/ Department to in-patient ward	
Main Domain:	Time
Subdomain:	Conveyance
Indicator Definition:	The percentage of patients' arrival at the Emergency unit/
	Department to their admission to an in-patient ward
Calculation:	Numerator: Total number of patients waiting times in minutes (less
	than 180 minutes) for transfer patient from Emergency unit/
	Department to in-patient ward
	Denominator: Total number of Patients transferred from
	Emergency unit/ Department to in-patient ward
	Exclusions:
	• Patients who leave against medical advice (LAMA).
	• Patients who were transferred to another hospital.
Target:	ТВА
Methodology:	Numerator/ denominator
Measuring Unit:	Percentage
Reporting Frequency:	Biannually
Desired Direction:	Higher is better
Rationale:	Metric of efficiency and quality
KPI Source:	DHA.





#### 6.2. Effectiveness

6.2.1. Revisit Rate to The Emergency Department Within or Less Than 72 Hours of Initial

Discharge.

Revisit Rate to The Emergency Unit/ Department Within or Less Than 72 Hours of		
Initial Discharge		
Main Domain:	Revisit Rates	
Subdomain:	Effectiveness	
Indicator Definition:	The percentage of patient revisit Emergency Unit/Department	
	within or less than 72 hours of initial discharge for the same chief	
	complaint	
Calculation:	Numerator: Number of revisits to the Emergency	
	Unit/Department within or less than 72 hours	
	Denominator: Number of all discharged patients from Emergency	
	Unit/Department	
	Exclusions:	
	Scheduled referral visit	
	Patient left without being seen	
	Patient left against medical advice	
	Admitted patients through ED.	
	Wound care	
	Dressing	
	<ul><li>Infusion</li><li>Unrelated Diagnosis</li></ul>	
Target:	NA	
Methodology:	Numerator/ denominator x100.	
Measuring Unit:		
	percentage	
Reporting Frequency:	Biannually	
Desired Direction:	Lower is better	
Rationale:	Metric of effectiveness and quality	
KPI Source:	DHA	

Guidelines for Reporting Emergency Unit/Department Services Key Performance Indicators

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