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# EMS ECHO Session 98




## Approach to Chest Pain


EXPERTS




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**MODERATOR  
Dr. Solomon Okello,**  
MO, Msc.  
Neuroscience,  
Advantage Dip. M&E  
and PGD Anatomy



This session will delve into areas such as;  
1.Key history in a patient with chest pain  
2.Emergency assessment of a patient with chest pain  
3.Key investigations in a patient with chest pain  
4.Pre-hospital care and inter-facility transfer for a patient with chest pain  
5.ED management for a patient with chest pain  
6.Chest pain in special patient categories  
7.Disposition plan for a patient with chest pain



scan to register

**FRIDAY**  
15th August 2025

**2-4pm EAT**

Meeting ID: 910 5096 7293

use link;

<https://shorturl.at/qdsf4>



**CASE PRESENTER**  
**Dr. Julia Komey,**  
EM Resident at MUST



**Chat Questions**  
**Dr. Connie Baluka,**  
EM Physician at City  
Medicals Ltd



*Prehospital team:*

# What do you need to prepare for pre-hospital care for this patient?

- Staff
- Patient
- Equipment / Medications
- Mode of transport
- Documentation/Handover

Identify

Situation

Background

Assessment

Recommendation



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# Staff on Ambulance –Patient with PE

**The ideal ambulance staff includes** a team with expertise in both critical care and respiratory emergencies.

- A physician,
- A critical care nurse, and a respiratory therapist, along with
- A qualified EMT with capability to offer Advanced Life support

**If you cant get the physician physically you should atleast work under their medical direction on call**



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# Equipment / Medications–Patient with PE

Some of the most important ambulance equipment and medications that may be used for a patient with pulmonary embolism:

**A-** OPA, NPA, LMA..... Endotracheal tube (ETT) and laryngoscope (for advanced airway management)

**B-** Oxygen tank and delivery system (e.g., nasal cannula, NRMs), Bag-valve-mask (BVM) device, Pulse oximeter for SPO2

**C -** Cardiac monitor EKG ...Atleast 6lead ....12lead even better ,defibrillator ( Manual or AED) ,Blood pressure monitor.....mechanical CPR machine, IV fluids and accessories

**D -** Penlight torch , Glucometer

**E-** Thermometer, Blanket

## Other things we often forget:

- ☐ **Medical equipment power & charging**
- ☐ **Air-condition functionality – Hi & Lo**
- ☐ **Appropriate PPE**
- ☐ **Safety box & Bin**
- ☐ **Possibility for a Hand wash facility**
- ☐ **Precision Light**
- ☐ **Functional stretcher bed**
- ☐ **FUEL**



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# Key Medications:

- Oxygen,
- Paracetamol for pain management
- Heparin (for anticoagulation)
- Nitroglycerin (for potential cardiac ischemia or hypertension),
- Vasopressors (e.g., dopamine, norepinephrine) for hypotension,
- Cardiac arrest medications (e.g., epinephrine, amiodarone) if patient deteriorates to cardiac arrest

**NB: Prehospital providers should follow local protocols and medical direction for specific medication administration**



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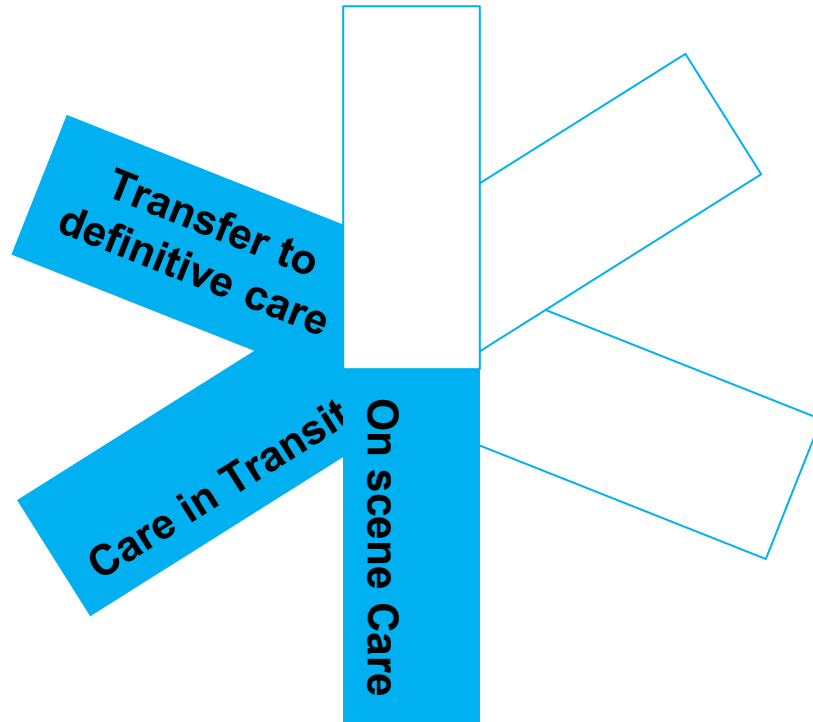
# Mode of Transport–Patient with PE

**The best ambulance option** depends on the patient's stability and the distance to the receiving facility.

For stable patients, a ground ambulance with advanced life support (ALS) capabilities is often sufficient.

However, for critically ill patients or those needing specialized care, an air ambulance (fixed-wing or helicopter) may be necessary.





## When we get to the patient with PE

Initial Assessment and Stabilization (ABCs):

- **Airway:** Look & listen
- Ensure a patent airway.
- **Breathing:** Look listen feel.
- Assess respiratory rate, Effort, Tidal volume etc Provide supplemental oxygen if needed and consider respiratory support

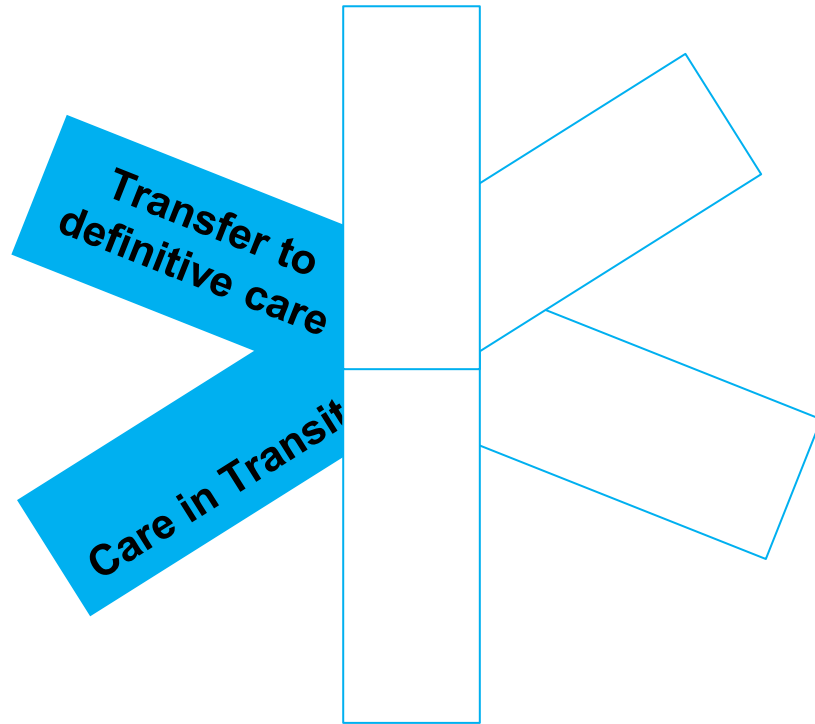
### Circulation:

Monitor heart rate, blood pressure, and capillary refill time. Early ECG monitoring, Establish IV access, and consider fluid resuscitation if the patient is hypotensive.

### Administer other medication under MD

- Check for AMS...LOC GCS or AVPU , Pupillary reaction
- Check for Blood glucose ,
- Maintain Temperature





## Care in transit

### **Perform continuous Assessment and Monitoring:** **Hemodynamic Stability:**

Closely monitor vital signs (blood pressure, heart rate, respiratory rate, oxygen saturation) throughout the transfer.

### **Oxygenation:**

Provide supplemental oxygen as needed to maintain adequate oxygen saturation.

### **Cardiac Monitoring:**

Continuous ECG monitoring is essential to detect any arrhythmias or changes in heart rhythm.

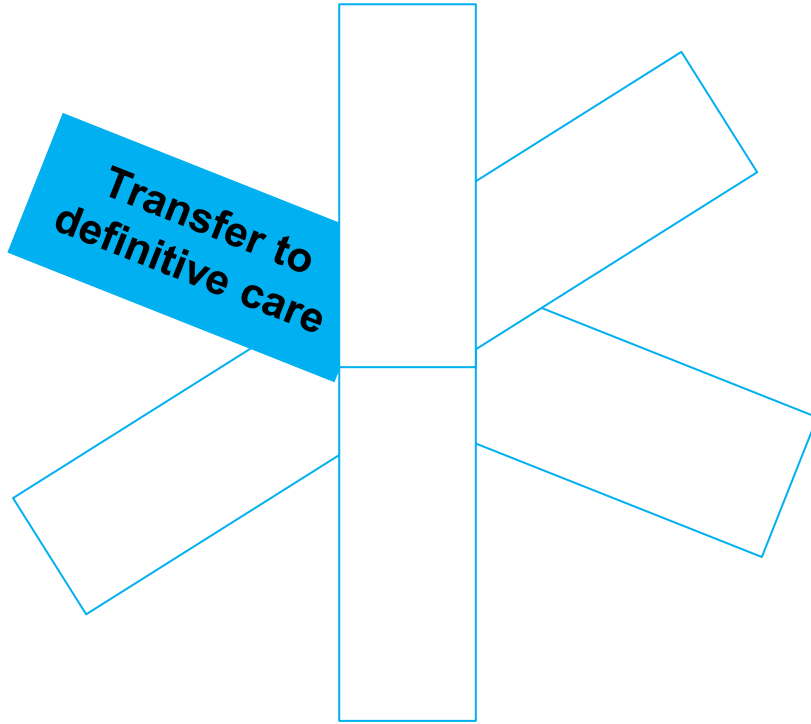
### **Pain Management:**

Manage pain effectively, as it can exacerbate anxiety and respiratory distress.

### **Neurological Status:**

Monitor for any changes in mental status or neurological function. **RECORD & REPORT ANY CHANGES!!!**





## Transfer to definitive care

**Communication:** Communicate effectively with the receiving facility, including the patient's history, current condition, and any interventions performed

**Choose high level facility** with specialized care such as facility with cardiac catheterization laboratory, ICU bed and other services

**Perform a proper Handover** of the patient to the receiving facility. Verbal and written

# Sample Handover for our patient in discussion today!

Identify

Situation

Background

Assessment

Recommendation

**I am Joseph Ssenkumba an EMT from AAPU bringing you a 58 year old Gladys who we picked from ..... She had a 3 days h/o sharp, right-sided chest pain and cough with progressive shortness of breath.**

**At the ED Gladys presented with hypoxemia, pain and fever with sighs of shock.....**



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