



We'll Treat You Well

**Smart EMR at Aster Hospitals UAE:
A Leap Forward with Generative AI (LLM)**



Meet AsterMate – First Generative AI EMR

Creates a Patient CarePlan with only three inputs from physicians.

Examines medical terminology and expands abbreviations.

Decreases physicians' documentation time by 70%.

Monitors vital irregularities and recommends potential care strategies.



Automatically produces Order sets, Medication sets, and Care Plans.



Ensures the integrity of clinical data.



Extracts medical codes from plain text (SNOMED, CPT, ICD, LOINC).

Meet AsterMate – First Generative AI EMR

- Intelligent Evaluation - Triage
- Categorizes patients into 5 groups using the CTAS Model.
- Automatically determines the category and recommends physician response time.
- Advises on nurse response time and potential re-evaluation moments.
- Determines potential medical codes from plain text.
- Monitors for vital inconsistencies.
- Examines potential medication issues, including drug interactions (drug-to-drug, drug-to-food, drug-to-lab) and dosage discrepancies.

Benefits we have with Generative AI



80% Reduction on
doctor
documentations time



90% reduction on
Nurses
Documentation time



100% improvement
on documentation
quality



30% reduction on the
insurance rejection



20% reduction on
insurance approval
Queries



Employee
satisfaction



Patient safety



Meaningful
reminders to the
nurses and doctors

Snapshot of products

12:37 PM

Patient Dashboard

Plan Of Care

Add Plan of care

Suggestions:

Impaired skin integrity, fatigue

1. Monitor patient's vital signs regularly and administer medication as prescribed by the physician.
2. Place patient on a well-padded bed with the head of the bed raised at least 30° and retilt the patient every 2 hours.
3. Follow risk-reducing interventions for preventing skin breakdown associated with prolonged bed rest.
4. Cleanse patient's skin with non-irritating, pH balance, skin-friendly cleanser.
5. Apply skin moisturizing cream in order to reduce skin dryness and eliminate cracks.
6. Educate patient on proper body positioning and use of pillows.
7. Promote periods of activity and rest, to decrease fatigue.
8. Ensure proper nutrient intake to restore energy to the body and increase pain tolerance.
9. Encourage verbal and non-verbal expression of thoughts as patient will likely be frustrated by their inability to care for himself.
10. Provide emotional support to help patient deal with stress of illness or disability.

Next

Monitor patient's vital signs regularly and administer medication as prescribed by the physician.

Entered By:
 Date: 2023-09-21T08:33:08

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Patient Dashboard

Orders And Procedures

Suggestions:

CPT Code:

1. Laboratory Testing: 84443 - CBC With Differential/platelet
2. Radiology: 77067 - CT Thorax
3. Cardiology: 93323 - Electrocardiogram, Routine ECG with at least 12 leads, with interpretation and report.

Favourite Services

Order Sets

Ref/Service Code

Services

Charges

Laboratory

Radiology

All

Stat

Service Name:

Select Item

ICD Codes:

R50.9

Investigation Date:

Thu Sep 28 2023

Time:

12:27:29

Remarks:

Add

Save

Order No	CPT Code	Service Name	Status	Order Date	Note
OP24/394420	86140	C REACTIVE PROTEIN	Result Finalized	2023-09-09T03:07:59	
OP24/394421	76870	US EXAM SCROTUM	Sample Dispatched	2023-09-09T03:08:00	
OP24/394421	76770	US EXAM ABDO BACK WALL COMP	Sample Dispatched	2023-09-09T03:08:00	

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Patient Dashboard

Medication

Suggestion:

Based on the aforementioned information and the patient's medical history, the following medications can be recommended as a treatment for LAURENT CHARLES RICHEL, kept under medical supervision as per UAE specific medical treatment practices:

1. Paracetamol and/or Ibuprofen (NSAID) for temperature control and pain relief.
2. Antibiotics such as Amoxicillin-clavulanate or Clindamycin.
3. Anti-inflammatory medications such as prednisolone for control inflammation and swelling.
4. Bronchodilators (in case of asthma or COPD).
5. Stimulants (such as methylphenidate, if needed).

In addition to the medication, necessary lifestyle modification such as good nutrition and adequate rest/sleep etc. should be advised. Furthermore, routine monitoring of vital signs should be done to ensure safety and efficacy of the medications.

Favourite Drugs

Drug Set

Drug Name	Start Date	End Date	Prescription Detail
<div>Store</div> <div>OP Pharmacy</div>	<div>Advising Doctor</div> <div>MUSTAFA SAIF</div>	<div>Order Priority</div> <div>Routine Orders</div>	
<div>Generic</div> <div>Select item</div>	<div>Brand</div> <div>Select item</div>		
<div>Dose*</div> <div>0</div>	<div>Unit*</div> <div>Select option</div>	<div>Strength</div> <div>0</div>	
<div>Form</div> <div>Select option</div>	<div>Route*</div> <div>Select option</div>	<div>Frequency*</div> <div>Select option</div>	
<div>Duration*</div> <div>0</div>	<div>Day(s)</div> <div></div>		
<div>Food Relation</div> <div>Select option</div>	<div>Start Date</div> <div>2023-09-28</div>	<div>Order Type</div> <div>Select option</div>	
<div>Instructions</div> <div></div>			

Snapshot of products

X

Category: **CTAS Level 1 - Resuscitation**
Time to Doctor: Immediate
Time to Nurse: Immediate
Time to reassess: Continuous Monitoring
Waiting Time: No Waiting Time
ICD 10 (Primary): I20.9 (Angina Pectoris, Unspecified)
ICD 10 (Secondary): R07.2 (Chest Pain on Breathing)
SnomedCode: 29857009 (Chest Pain), 25064002 (Shortness of Breath)

The patient is presenting with symptoms that suggest a serious cardiac event such as a heart attack (chest pain, left arm pain, shortness of breath, hypotension, tachycardia, and low SpO2). The patient should be seen by a doctor immediately and reassessed frequently. The suggested ICD 10 codes and SnomedCode are related to chest and left arm pain, which are the most concerning symptoms.

Save Triage(Category: CTAS Level 1 - Resuscitation)

X

Category: **CTAS Level 2 - Emergent**
Time to Doctor: Immediately
Time to Nurse: Immediately
Time to reassess: Every 15 minutes
Waiting Time: None
ICD 10 (Primary) (Secondary): I20.9 (Unspecified angina pectoris), R07.2 (Chest pain on breathing)
SnomedCode: 29857009 (Chest pain), 25064002 (Pain in left arm), 25064002 (Headache)

This patient is presenting with symptoms that may indicate a serious condition such as a heart attack. Chest pain, left arm pain, and a high pain score are all concerning symptoms. The patient's vitals are also concerning, with a high pulse rate, low oxygen saturation, and low blood pressure. This patient should be seen by a doctor immediately and reassessed frequently. The suggested ICD 10 codes and SnomedCode are related to chest and left arm pain, which are the most concerning symptoms.

Save Triage(Category: CTAS Level 2 - Emergent)