

Children's Mercy Kansas City

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Care Process Models

Quality Improvement and Clinical Safety

Mediastinal Mass-Emergency Department

Children's Mercy Kansas City

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These guidelines do not establish a standard of care to be followed in every case. It is recognized that each case is different and those individuals involved in providing health care are expected to use their judgment in determining what is in the best interests of the patient based on the circumstances existing at the time. It is impossible to anticipate all possible situations that may exist and to prepare guidelines for each. Accordingly, these guidelines should guide care with the understanding that departures from them may be required at times.

History:

- Orthopnea
- Stridor
- Wheezing
- Cough
- Dyspnea
- History of syncope

Physical Exam:

- Accessory muscle use
- Upper body edema/SVC syndrome

Evaluation for suspected Anterior Mediastinal (AM) Mass

Use the EDP Mediastinal Mass Work-up-CPG Powerplan

Patient has history or physical exam suggestive of an AM mass

Obtain 2-view CXR

Does CXR suggest AM mass?

Consider alternative diagnoses

Obtain the Following

Lab studies:

- CBC
- Type / Screen
- Mg
- Phos
- LDH
- Uric acid
- PT / INR, PTT
- Fibrinogen
- Peripheral smear

Imaging studies:

- CT chest (+/- neck) with contrast to determine degree of airway and/or great vessel compromise/compression
- Echocardiogram (if feasible while in ED)

Patient is high risk with if they have any of the following:

- ▶ Any symptom listed above under History and PE
- ▶ Inability to lie flat
- ▶ Tracheal involvement with > 50% compression
- ▶ Mediastinal mass ratio >0.45%
- ▶ Great vessel involvement
- ▶ Evidence of pericardial effusion and/or tamponade or ventricular dysfunction with EF <35%
- ▶ Evidence of infectious pulmonary process

Does patient exhibit high risk features?

Consult PICU and Hem/Onc to determine disposition

Is there impending respiratory or cardiac arrest?

Administer standard emergency resuscitation care
Discuss with oncologist need for emergent:

- Steroids
- Chemotherapy radiation

Admit to PICU with Hem/Onc consult for further work up/management

(Refer to CMH Anterior Mediastinal Mass Pathway by searching "Mediastinal Mass Guidelines" on Scope for further direction on work-up and to coordinate bedside huddle with consultants to plan diagnostic procedure)