Approach to the Undifferentiated Patient

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Objectives

Upon completion of this module, the student will be able to:

- List the steps in the approach to the undifferentiated patient in the ED
- Describe the importance of the life threatening differential diagnosis in the ED
- Classify the components of the primary and secondary ED survey
- Utilize the concepts of pre-test probabilities and diagnostic testing in the ED

Introduction
Patients presenting to the emergency department (ED) differ from those in other outpatient and inpatient settings. They are usually unfamiliar to the provider and believe they need urgent medical attention for what is perceived to be either an emergent condition or a medical need that they cannot obtain help with elsewhere. Emergency physicians function under the constraints of limited time, limited resources, and a seemingly endless line of patients waiting to be seen. As a result, the approach to the undifferentiated patient in the ED differs from other classic approaches in inpatient and outpatient settings, such as clinics or private practice offices. See table 1, Comparison of the Three Patient Care Settings.

![Comparison of the Three Patient Care Settings](https://cdemcurriculum.files.wordpress.com/2015/10/comparison-of-3-patient-settings.png)


The first contact the patient will have with medical personnel in the ED is often a triage nurse, if time and patient condition allow. The patient’s chief complaint (CC), vital signs (VS), past medical history (PMH), past surgical history (PSH), medication list, allergies, and brief history of present illness (HPI) are recorded. It is often the decision of the triage nurse if the patient will return to the waiting room or be brought back for immediate evaluation. Many patients are stratified, or ‘triaged’, on a scale reflecting acuity and resource needs. The most common triage coding system, known as the Emergency Severity Index (ESI), was developed by Richard Wuerz and David Eitel in 1998 and contains five triage categories; Red (1) – Critical, Orange (2) – Emergent, Yellow (3) – Urgent, Green (4) – Minor, Blue (5) – Very minor.
When ED physicians assign themselves to a new patient, they review the information from triage. The CC, VS, PMH, and brief HPI provide an introduction to the patient and immediately should prompt formation of an initial differential diagnosis that focuses on life threatening entities. This step begins the approach to the undifferentiated patient in the ED. The steps in this approach follow. We will use a classic example of a patient with “abdominal pain.”

Our patient:

CC: 69 year old female sent in by an outlying urgent care for right upper quadrant abdominal pain. (Patient was seen and evaluated by a physician; concern for gallbladder disease prompted the physician to advise the patient to seek care in the ED).

VS: BP 160/90 P 76 R 20 T 99.6 O2 99%

Significant PMH: Hypertension (HTN), Diabetes Mellitus Type 2 (DM), Hypercholesterolemia

Step 1. Initial Actions and Primary Survey

Review the triage note and see the patient.

Does the patient appear to be unstable or in any distress? Determine this with a basic assessment of the ‘ABCs’ (airway, breathing, circulation). This is a critical step in the determination of this patient’s degree of illness. It should take less than 60 seconds. If a problem with any of these is discovered, it should be addressed before proceeding to the next step:

- A – Is the patient able to speak? Is their voice normal or high pitched? Are they displaying signs of imminent airway compromise (hands around their throat)?
- B – Is their breathing pattern rapid? Are they grunting or audibly wheezing, or do you hear stridor? Are they displaying any other abnormal breathing pattern? Are they oxygenating their brain to the degree that they can give a chief complaint, history or any other information (i.e. have a normal mental status)?
- C – FEEL the patient’s pulse while directing someone to place the patient on the monitor. Can you palpate a radial pulse? If not, can you palpate a carotid? Is it fast or slow, regular or irregular? Other indicators of circulatory status are skin color (e.g. mottled) and blood pressure.
This is also a good time to assess the status of vascular access so that IV fluid resuscitation can be initiated if indicated. Is there large bore vascular access? Do you need to place an intraosseous (IO) line?

For unresponsive adults in whom you suspect a cardiovascular emergency, approach the patient using “CAB” (circulation, airway, breathing), as suggested by the most recent Advanced Cardiac Life Support (ACLS) guidelines.4

Next, a quick history should be obtained while help from other ED support staff is coordinated (resources may include: additional nursing staff, crash cart, respiratory therapy, physician back-up in educational settings). AMPLE is a useful mnemonic:

- A – Allergies: What is this patient allergic to?
- M – Medications: What medications is this patient taking?
- P – Past History: What are the pertinent medical/surgical conditions of this patient?
- L – Last Meal: When did this patient eat or drink last?
- E – Events: What are the brief events that led to this patient’s condition?

Are any immediate actions necessary?

The next question to ask is: are any immediate interventions required as a result of the findings during the initial impression and primary survey, such as IV fluids for significant hypotension, oxygenation and/or ventilation for hypoxia or respiratory compromise, hemostasis for hemorrhage, chest compressions if pulseless, glucose or naltrexone for altered mental status, etc. If so, those actions must be completed first, before moving on to other steps. This is also a time to consider providing your patient with pain and/or fever control as indicated. Be sure to verify allergies first!

Based upon the initial impression, an important question should be answered: Is this patient “sick” (unstable, in imminent medical danger) or “not sick”? While this is a skill that is developed with experience, clues include severe alteration of vital signs, general appearance (e.g. diaphoretic, pale, altered, etc.), or any abnormalities identified on the primary survey that would necessitate immediate action. It is important to recognize that patients may have a lethal diagnosis and not appear “sick” on presentation.

Once the competent emergency physician deems a patient “sick”, the following events should always occur, regardless of the cause: intravenous or other vascular access should be established and a cardiac monitor should be applied to the patient. Oxygen should be supplemented as needed. To remember these actions, think “IV-O2-Monitor”. Vital signs are vital and should be obtained as soon as possible. Recognize that for a “sick” patient, the steps delineated above (ABCs, IV-O2-Monitor, AMPLE history, and vital signs) are steps that should be done in parallel, not in series. Most other interactions in medicine are performed in series (e.g. Chief Complaint, HPI, Medical History, Family History, Meds, Allergies, Physical Exam). In the “sick” patient, history, diagnostics, physical exam, and treatment are being done nearly simultaneously.
Our patient is alert, speaking clearly, and in no respiratory distress. She has a strong, regular pulse. She appears uncomfortable, but stable. At this time, she does not meet the “sick” classification. She denies any allergies and you order 75 micrograms of fentanyl IV to address her pain.

Step 2. Initial Differential Diagnosis – Focus on the Life Threats

Once the triage note has been reviewed and the initial assessment of the patient is complete, a list of possible diagnoses that are life or limb threatening to the patient should be formulated. This is initiated with the chief complaint and primary survey and refined after gathering more information. In an elderly female with right upper quadrant abdominal pain, like our patient, the classic life threats include both abdominal and cardiovascular emergencies. This differential would change slightly in a younger patient or with pain in the lower abdomen.

Initial Differential Diagnosis for our patient:

- abdominal aortic aneurysm (AAA)
- mesenteric ischemia
- acute coronary syndrome (ACS)
- bowel obstruction, perforated viscus (e.g. ulcer)
- surgical biliary disease (e.g. cholecystitis or cholangitis)
- acute GI bleed
- appendicitis

Since our patient was initially deemed “not sick”, we can proceed to the Secondary Survey.
Step 3. Secondary Survey

The secondary survey includes a focused history and physical exam.

Focused History

If possible, give the patient two uninterrupted minutes to tell you why they sought medical care. You may be surprised by how often they tell you what you need to know. If, after a couple of minutes, they need some redirection with further questioning, it may be appropriate to redirect their history with specific questions.

The mnemonic COLD READ is helpful when obtaining a focused history:

- Character
- Onset
- Location
- Duration
- Radiation
- Exacerbating/Alleviating factors
- Associated symptoms
- Different today – What has changed in the patient’s symptoms or presentation that prompted the current visit? This is particularly important in the ED and allows the physician to focus on why the patient decided to seek care today, a question not usually needed in the office or inpatient setting.

Next, ask specific questions that will ascertain any “pertinent positives and negatives” related to your differential diagnosis. This is information that will make a diagnosis more or less likely. Examples:

- Have you been sick to your stomach or sweaty?
- Have you ever had a blood clot in your legs or lungs?
- Have you traveled recently?
- Do you know anyone sick with similar symptoms?
- Have you been vomiting or had a fever?
Our patient: “I have had several episodes of pain in my stomach (points to right upper quadrant) over the past day. It began 2 days ago after we ate Chinese food at our local restaurant. It comes and goes, but this morning it was much worse. We went to the urgent care by our home. The doctor checked me over and said we needed to come here for a gallbladder test. I have these papers from his office.”

Patient hands you a brief note from the office: “Patient with right upper quadrant pain, negative Murphy’s but multiple risk factors. Normal exam, fecal occult blood negative stool, urine dip negative, ECG normal sinus, no STEMI, abdominal plain film negative for free air. Sent to ED for further evaluation.”

It is important to note that when a patient arrives from any outside facility (e.g. office, another ED) it is essential to still approach them as if they are undifferentiated. Starting with someone else’s diagnosis has potential danger and can lead to anchor bias. Trust but verify.

Character is a dull ache; Onset is 2 days ago; Location is right upper quadrant; Duration is episodic, worse this morning, several periods of pain resolution; Radiation is to epigastric area; Exacerbating factors are unclear – started after eating Chinese food 2 days earlier, unsure if related to food since (seemed to neither help nor worsen); Alleviating factors also unclear – took over the counter antacids which may have helped, nothing seems to have worked consistently; Associated Symptoms include nausea. Different today: pain worsened to 6/10, associated with nausea. No recent travel or sick contacts.

The next component of an ED history is a focused Review of Systems (ROS). This is an important step to help discover other pathology that may be relevant or contributing to the patient’s disease process. It is also an important component of proper documentation for adequate billing.

Our patient: ROS is positive for nausea; negative for vomiting or diarrhea; feeling generally more tired past 2 days; no ENT complaints, no ocular complaints, no fever/chills, cough or cold symptoms; no chest pain; no shortness of breath; no black or bloody stools; no urinary symptoms; no vaginal bleeding or discharge; no trauma; all other ROS negative.
Past medical, surgical, social and family histories, as well as medications, and allergies are important for this section and should be reviewed with the patient. Remember, not all information in an electronic medical record is accurate or up to date. These items are still crucial to obtaining a thorough history.

**Our patient:**

- **Medical History:** DM (diet controlled), HTN, and hypercholesterolemia
- **Surgical History:** Hysterectomy 15 years prior for dysfunctional uterine bleeding
- **Social History:** Smoker – one pack per day for past 30 years, social alcohol only on weekends, denies drugs, married for 30 years, 2 grown children
- **Family History:** patient was adopted
- **Home Medications:** anti-hypertensive and cholesterol lowering agent (cannot recall names), occasional over the counter antacid
- **Allergies:** none.

**Focused Physical Exam**

Depending upon the chief complaint and urgency of the patient’s clinical condition, the physical exam can be adapted or focused. With every patient encounter, the physical exam should be as complete as possible. This is especially true in the patient presenting with altered mental status. Always start by noting the vital signs and a general appearance.
In our patient with abdominal pain, we can proceed with a full, but expeditious physical exam:

VS: unchanged from above

Gen: Mildly obese female appearing stated age holding her right upper quadrant in moderate distress.

HEENT – No scleral icterus, no facial asymmetry, no other abnormalities

Neck – No masses, no JVD, supple and non-tender

CV – Regular rate and rhythm, no murmurs, rubs or gallops; distal pulses 2 plus and equal

Lungs – Clear to auscultation, no respiratory distress

Abdomen – Normal inspection – no rash or bruising; normal bowel sounds; no hepatosplenomegaly, no masses, no rebound, no abdominal tenderness to palpation – specifically no tenderness at the right upper quadrant where the patient localizes her pain; Negative Murphy’s sign.

Rectal – normal tone, fecal occult blood negative

GU – patient declined exam

Extremities – warm and well-perfused, non-tender, no edema

Neurological – Alert and Oriented, mental status appears intact; moving all extremities equally and without obvious deficit; speaks clearly; no facial droop

Step 4. Refine the Differential Diagnosis
Once more information on the patient has been collected in the above manner, the differential list can be refined. Things that are common, but not necessarily imminently life threatening, can be included such as the following for a patient with RUQ abdominal pain: pancreatitis, gastric mucosal disease (gastro-esophageal reflux, ulcer, etc), bowel ileus, occult trauma, hepatitis, urinary tract infection, kidney stone, hernia, ovarian pathology, herpes zoster and several other more rare conditions. In addition, you can delete items from the initial list, as dictated by the findings thus far.

The differential for our patient at this point would likely still include: AAA, mesenteric ischemia, acute coronary syndrome (ACS), biliary colic from gallstones, gastro-esophageal reflux, ulcer, hepatitis, and a kidney stone.

Diagnoses that are becoming less likely based upon exam (especially her abdominal exam) and history are: bowel obstruction, perforated viscus (e.g. ulcer), acute GI bleed, surgical biliary disease, appendicitis, hernia, urinary tract infection, occult trauma, herpes zoster, gynecologic pathology.

Step 5. Diagnostic Evaluation

With your differential diagnosis in mind, it is important to pursue a diagnostic strategy that rules out life threatening disease (when possible) and rules in more likely or more common disease (when possible). The tests you decide to order should be based upon pre-test probabilities you have assigned and any clinical decision tools being utilized. It is extremely important to know what you will do with the results of any test you order and how they will affect management and disposition. You should only order tests to help confirm or rule out diagnoses on your differential. DO NOT order tests to form your differential. When ordering tests, especially those that are common in the ED, you should have a plan in place for any pertinent results and be prepared to make appropriate interventions. Consider radiation, cost, time, and harm to the patient in this step.
For our patient, several tests will play an important role in the work up, management, and disposition. A complete blood count, comprehensive metabolic panel, lipase, urinalysis, lactate, ECG, abdominal ultrasound, and possibly a CT seem to address our differential diagnosis. Are there other tests you would consider at this point in the patient’s evaluation?

Prior to the results of any tests becoming available, the nurse informs you that the patient is now ready to be taken to ultrasonography for a formal right upper quadrant ultrasound. The patient is complaining of increased pain and is requesting pain medication. The patient received your initial order of 75 micrograms of fentanyl IV 30 minutes ago, however the patient is now complaining of increased pain:

Your choices:

1. Send the patient to the ultrasound suite to obtain her scan.
2. Re-dose the medication and then send the patient to ultrasound.
3. Cancel the ultrasound and obtain a surgery consult (you will have to explain this to the surgeon).
4. Obtain a CT of the abdomen.
5. Wait for the other results and then choose one of the above (this will take about 30-40 more minutes).
6. Re-evaluate the patient.

Step 6. Patient Re-Evaluation

An often under-appreciated and under-utilized simple ED maneuver is patient re-evaluation. Emergency medicine (EM) occurs in a dynamic environment with patient’s illnesses often manifesting, progressing and changing while they are in the ED. Whenever there is a change in the condition of the patient (increased pain, resolved pain, light-headedness, mental status change, vital sign change, etc.), the patient should always be re-evaluated and your differential diagnosis revisited, Has the patient gone from “not sick” to “sick”?

Re-evaluation of our patient:
Repeat vitals VS: BP 170/84 P 56 R 24 T 99 O2 99%

General – patient is now diaphoretic, clutching her right upper quadrant, tearful despite the pain medication, and asking for you to help her

CV – now bradycardic, distal pulses intact, no murmurs, rubs or gallops

Lungs – Clear, unchanged

Abdomen – essentially unchanged: Soft, normal bowel sounds, no masses, femoral pulses intact and equal, no tenderness, specifically no tenderness elicited on exam of right upper quadrant, however patient continues to localize her pain there.

Skin – Now diaphoretic

Extremities – warm and well-perfused

Re-visit our differential diagnosis: AAA, mesenteric ischemia, acute coronary syndrome (ACS), biliary colic from gallstones, gastro-esophageal reflux, ulcer, hepatitis, and kidney stone. The most life threatening of these are AAA, mesenteric ischemia and ACS. The most likely of these with the new bradycardia, the more localized upper abdominal pain, and lack of hypotension (which may indicate a rupturing AAA) is ACS. This can be quickly addressed with a bedside ECG and this should become the priority. If that is negative for a STEMI, a bedside ultrasound to evaluate for a AAA would be the next best step. With the patient’s status changing, she has now entered into the “sick” category and you should act quickly and think twice before allowing the patient to leave the ED.

Her ECG:
ECG Interpretation: Inferior STEMI (Marked ST elevation in II, III and aVF with early Q-wave formation; Reciprocal changes in aVL; ST elevation in lead III > II with reciprocal change present in lead I and ST elevation in V1-2 suggests RCA occlusion with associated RV infarction. (The patient could have right-sided leads to confirm this.)

As with any change in status or new information that provides critical results, an action should follow. What would you do now?

Call the cardiac catheterization lab for immediate intervention, give aspirin, and have the crash cart ready. Nitroglycerin is controversial in this patient with inferior MI and may cause significant hypotension. Now is a good time to cancel the sonogram as well.

Step 7. Treatment and Disposition

All patients in the emergency department have one of three dispositions: they are admitted, transferred, or discharged (some EDs have clinical decision or observation units and that is a separate discussion altogether). Emergency physicians often must be the advocates of patients because they are evaluating them in a real-time situation. The decision to admit, transfer, or discharge is an important one, especially with high risk
complaints such as chest pain, headache, shortness of breath, abdominal pain, and altered mental status. Each action takes into consideration risks versus benefits to the patient. It is important to address the patient’s symptoms and make a difference in how they are feeling, guided by the patient’s progression and the findings from the diagnostic workup.

Sometimes, the admission decision is easy, such as in those patients that are clearly “sick” and in need of acute medical or surgical attention. This was the case for the example patient, whose disposition was to an interventional cardiologist in the cardiac catheter lab. This becomes more complicated if certain services are not available and transfer of the patient is indicated. It is important to know ahead of time (e.g. when starting a new job, working overnight, working the holidays, etc.) what policies are in place and what resources are available on a shift in the ED.

When it is appropriate to discharge patients, several key things must be considered and conveyed:

- Summarize findings and thoughts for the patient and answer any questions they may have using simple, non-technical language (as if speaking with a 4th grade student).
- Arrange appropriate and timely follow up with an outpatient provider. Contacting the patient’s primary physician to arrange a specific appointment time may improve compliance for follow up by 40-50%.2
- Provide detailed instructions for reasons to return to the ED. Many electronic medical records, such as EPIC, have pre-written summaries and return precautions available that can be provided at the time of discharge. Ensure these provide accurate information in your patient’s current clinical situation.

Explain to the patient any discharge instructions (e.g. take an aspirin per day, continue their current medications, use over-the-counter medications as needed, refrain from driving, etc.)

Pearls:

This patient presents with a history consistent with several abdominal etiologies, such as gallbladder disease, EXCEPT for a lack of tenderness when palpating her gallbladder or abdomen, which should prompt suspicion regarding biliary disease as a diagnosis. This patient has many risk factors for coronary artery disease (CAD). After undergoing successful percutaneous coronary intervention (PCI), stent placement and further inpatient treatment, the patient related further important history: “When I said my pain started after I ate Chinese food, it really did. What I didn’t get to tell you when you started asking questions was that it was 2 hours later and occurred as my husband and I were walking up a long pathway in the local park. I stopped and it seemed to get better, so we continued to walk and it happened again. We decided to turn around and go home.”

This is a classic (real) case of a common disease presenting in a less common way, and illustrates several important points about management of the undifferentiated patient.
The best clinicians in EM will always look for dangerous (lethal) diseases that present in atypical ways. Thus, it is critical to obtain a meticulous history if possible. The vast majority of the time, the diagnosis will be buried in the history, with the physical exam contributing confirmatory evidence.

Sometimes, it is important to ask specific questions regarding exacerbating and alleviating factors in order to get complete information. Rather than the generic “Does anything make it better or worse?” consider asking “Is it worsened by food? Is it worsened by exertion or relieved with rest?”

While it is important to review information obtained by other providers prior to your visit with the patient in the ED, it is crucial to avoid being biased by that information. The example patient was sent in for a “gallbladder evaluation.” ACS or other life threats could be easily missed if each item on your differential diagnosis is not addressed appropriately, either through history, physical exam, or diagnostic testing.

It is important to remember the limitations of all diagnostic tests we use in the ED. Remember the urgent care ECG that reportedly did not show an ST elevation MI? Discover more in the last section…

Pre-Test Probabilities and Test Characteristics

An EM diagnosis often requires a combination of clinical gestalt, history and exam findings, vital signs, and knowledge of specific test characteristics and pre-test probabilities. For the example patient, the chief complaint, history, and vital signs alone are likely to lead away from the correct diagnosis. ED physicians rely heavily on certain tests, and it is very important to understand the performance and reliability/limitations of those tests. In addition, the tests must be interpreted in light of the patient’s risk factors, the prevalence of disease in the surrounding population, and the pre-test probability.

In the above example, the first ECG was obtained at an outlying facility. A review of that ECG yields the same interpretation given by the first physician who saw the patient: normal sinus rhythm, non-specific ST wave flattening, no acute injury pattern. An ECG is an example of a test that captures a moment in time; it is conceptually similar to comparing a photograph with a video clip. The ECG is static (one point in time), while a more accurate assessment of a patient’s cardiac status would be dynamic (12 lead ST segment monitoring – not commonly available). Knowing the ECG is a static test, one can obtain several ECG’s over time, especially if there is a clinical change in the patient’s condition, knowing that the test is reflecting a ‘snapshot’ of a potentially evolving process.

Another example would be the concept of spectrum bias. Spectrum bias is a test characteristic wherein the test becomes increasingly reliable as the disease progresses. Consider a female abdominal pain patient who is ultimately diagnosed with appendicitis. At the moment an appendicolith obstructs the lumen of her appendix, her white blood cell count (WBC) is normal. Twelve hours later, her appendix may become distended with increased wall tension and decreased venous outflow leading to wall thickening. The WBC count may elevate but will probably remain in the normal range or approach the ‘upper limit of normal’ range. The next day, increased distention, localized inflammation, and bacterial translocation may lead to the WBC count being elevated over baseline, not necessarily well into the elevated range. Over the next 12 hours, the appendiceal wall begins to thin, arterial supply becomes compromised, the peritoneum becomes irritated, and there is a localized inflammatory response with
increased fluid and adjacent irritation and inflammation. At this point, the WBC count probably reaches the elevated range. The patient’s perception of pain may be dramatic or hardly perceptible, depending on the age, ability to perceive pain, co-morbidities, and even personality of the patient. If the WBC count were the only test one used to diagnose appendicitis, most would be missed and/or perforated by the time there was a ‘classically elevated’ white blood cell count. Some patients even perforate their appendix without ever having an elevated white blood cell count.

Next, we will discuss pre-test probability and scoring systems. We will use the example of Well’s Criteria for pulmonary embolism (PE). Well’s Criteria is a clinical decision tool, or clinical prediction rule. A clinical decision tool is based upon medical research that attempts to identify a combination of signs, symptoms, and other findings to predict the probability of a disease or outcome. Many different clinical decision tools are available, and commonly used tools include PERC and NEXUS. Factors included in the Well’s Criteria clinical decision tool include the following, with the associated point value applied for each question answered “yes”:

- Clinical signs and symptoms of deep vein thrombosis (DVT) (3 points)
- PE is #1 diagnosis, or equally likely (3 points)
- HR > 100 bpm (1.5 points)
- Immobilization at least 3 days or Surgery in the previous 4 weeks (1.5 points)
- Previously, objectively diagnosed PE of DVT (1.5 points)
- Hemoptysis (1 point)
- Malignancy with treatment within 6 months or palliative care (1 point)

Scoring system and interpretation

- <2 = low risk group for pre-test probability of P. A negative D-dimer may be an appropriate test for ruling out a PE.
- ≥2 = moderate or high risk groups for pre-test probability of PE. A D-dimer is not sufficient to rule out PE because the post-test probability is still too high, even with a negative test. Imaging is necessary to evaluate for PE.

Consider the example patient. If PE was in the differential, she would fall into the low risk group based upon the available information. Therefore, D-dimer testing would be sufficient; if negative, imaging for PE would not be indicated and the diagnosis essentially ruled out. While there are limitations to every clinical decision rule, they can be helpful to help guide the workup in the ED, given the constraints discussed above.

Visit the website of the Centre for Evidence Based Medicine (www.cebm.net) for further information and application of sensitivities and specificities, pre-test and post-test probabilities, and likelihood ratios as they relate to decision making in medicine.

Conclusion:
In the ED, patients will present with vague and non-specific complaints. They come with a fear that something is acutely wrong, and it is the job of the ED physician to improve their current condition. This may be done with symptom control, reassurance and follow-up, referral for definitive treatment, or admission. Many patients are in the ED for relief from their condition, and not necessarily for an explicit diagnosis. A genuine, caring approach is often cited as being of higher importance on patient satisfaction surveys than the actual diagnostic and therapeutic accuracy of the physician. If there is concern that the patient may do poorly if discharged home, consider additional consultations in the ED or admission. Remember to think “worst first” when dealing with the undifferentiated patient in the ED, and always strive to do what is best for the patient.

Keeping the life threats on the differential diagnosis, performing a thorough but timely history and physical examination, knowing the limitations of testing, and advocating for the patient’s best interest will yield high quality emergency care.

For a fantastic video review of the Approach to the Undifferentiated Patient by Dr. Rahul Patwari, please visit http://www.patwari.me/?p=687.

References and Suggested Reading