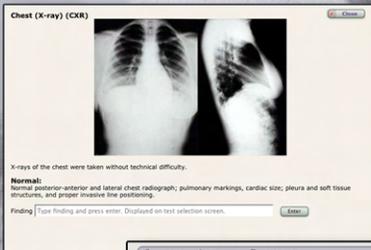




CCX

Clinical Competency Examination

MANUAL



STUDENT ACTIVITY RECORDS		Statistics		Criteria	
showalter	10/11/11	10/11/11	10/11/11	10/11/11	10/11/11
Data Collection	10/11/11	10/11/11	10/11/11	10/11/11	10/11/11
Data Collection	10/11/11	10/11/11	10/11/11	10/11/11	10/11/11
Data Interpretation	10/11/11	10/11/11	10/11/11	10/11/11	10/11/11
Data Management	10/11/11	10/11/11	10/11/11	10/11/11	10/11/11
Patient Education	10/11/11	10/11/11	10/11/11	10/11/11	10/11/11
Questions	10/11/11	10/11/11	10/11/11	10/11/11	10/11/11
Management	10/11/11	10/11/11	10/11/11	10/11/11	10/11/11
Lab Tests	10/11/11	10/11/11	10/11/11	10/11/11	10/11/11
Read	10/11/11	10/11/11	10/11/11	10/11/11	10/11/11
Reasoning	10/11/11	10/11/11	10/11/11	10/11/11	10/11/11
Management	10/11/11	10/11/11	10/11/11	10/11/11	10/11/11



Contents

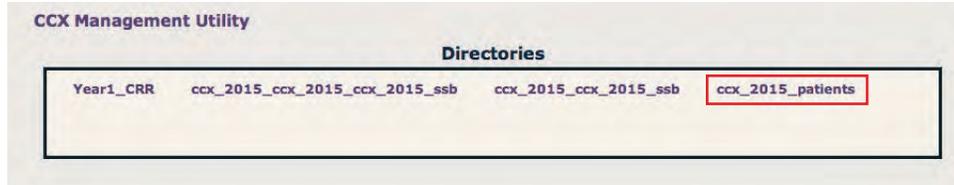
Getting Started - Accessing a Case	2
Navigation Tips	3
Patient Information & Problem List	3
Findings and Possible Diagnoses	3
Most Likely Diagnosis(es) and Supporting Possible Diagnoses	4
Preliminary Diagnosis(es) Justification	4
Diagnostic Studies (Labs)	5
Test Results	5
Select Final Diagnosis(es)	6
Diagnosis Justification (final)	6
Patient Problems	6
Management List	7
Other Issues and Case Complete	7
Settings that Affect Case Flow	8
Possible Diagnoses Preference	8
Virtual Patient Preference	8
Virtual Interview	8
Virtual Physical Exam	8

Getting Started - Accessing a Case

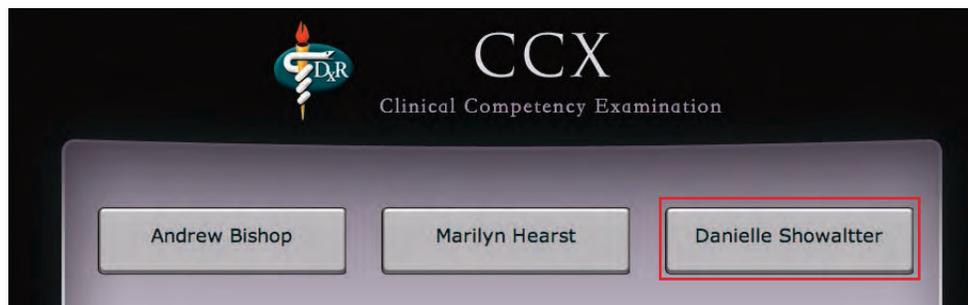
Launch a compatible browser and type in the URL of your institution's CCX site:

<http://ccx.yourschool.dxrgroup.com>

Your school's site will display a list of available Directories. Click the **name of the directory** you are assigned to work in.

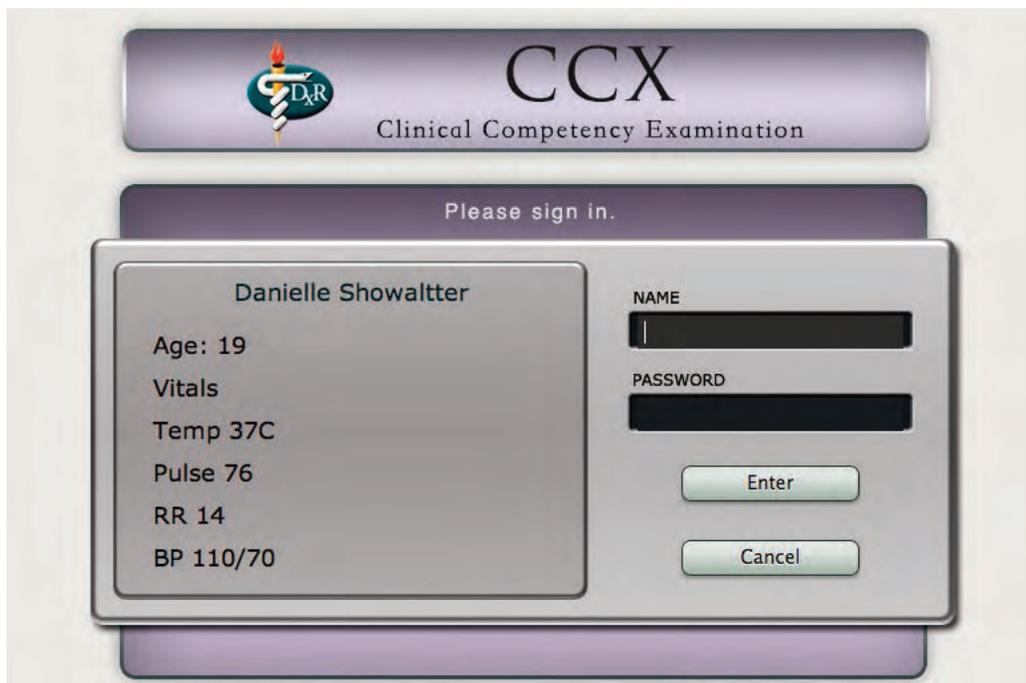


When the directory opens, click the **name of your assigned standardized or virtual patient**. (See example below.) On the subsequent screen, click Enter Case.



Verify that the patient name and information on the Sign In screen match your assigned standardized/virtual patient.

- If this is **not** your assigned case, click Cancel and notify your proctor immediately.
- If this is your assigned case, type in your Name and Password and click Enter.



Navigation Tips

When navigating in the CCX software, **always** use the navigation buttons at the top of the screen. **Do NOT use your browser's back and forward arrows.**



Here's a brief description of the most common navigation buttons.

Problem List - Click this button to add to the patient problem list. See instructions below.

Instructions - Each time you navigate to a new screen and when you click the Instructions button, a set of instructions for the current screen appears. Click Close on the instructions dialog to put away the dialog.

Note: Your instructor can edit the instructions to be unique for each case, so it is important to read them **each** time they appear.

Time/Clock - Click the clock in the upper right corner of the screen to **hide** it. Click Time to **display** the time. The time displayed is the amount of time remaining.

Next - Click Next when you are finished with ALL sections of a screen and are ready to move forward in the program. **Note:** In most instances, you won't be able to return to previous screens after you click Next.

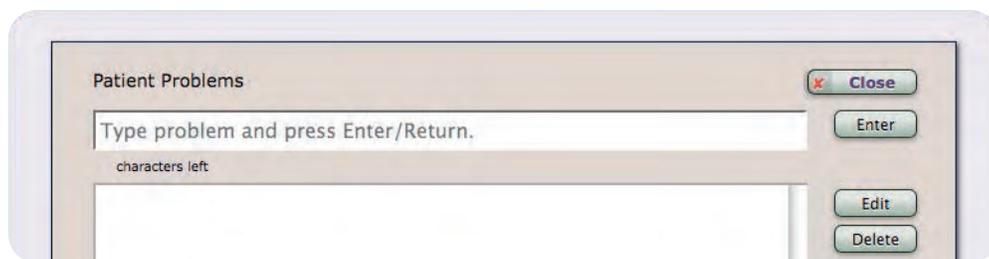
This guide describes most of the screens that you may encounter in this software. Your instructor has the option to use or omit any section. For different exams, you might be required to complete only some or all of these sections. *If you have questions about the requirements for your specific assignment, please contact your instructor.*

Patient Information & Problem List

Read the Patient Information. You can begin making a problem list now, or you can click Next to advance to the next screen.

When you are ready to start a Problem List for this patient, click Problem List and follow these steps.

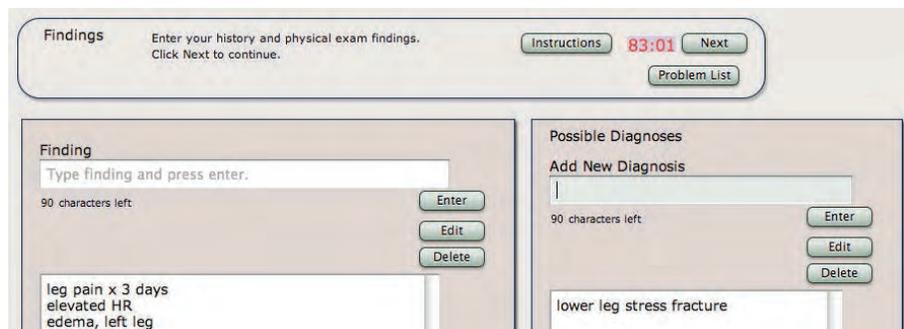
- Type the patient problem into the field and click Enter.
- To edit or delete a patient problem, select the problem and then click either Edit or Delete.
- Click Close on the Problem List dialog to close it. You may click Problem List on subsequent screens to alter your problem list.



Findings and Possible Diagnoses

- Type in your history and physical exam findings (on the left) and Possible Diagnoses (on the right) and click Enter.
- To edit or delete a finding or a possible diagnosis, select it and click either Edit or Delete.
- Click Next when your lists are complete.

Note: The next screen you see depends on your instructor's preferences. You may be allowed access to the Most Likely Diagnoses screen to further refine your Findings and Possible Diagnoses.



Most Likely Diagnosis(es) and Supporting Possible Diagnoses

Your instructor may ask you to

- 1 choose your Most Likely Diagnoses (a limit is set by the instructor on a per-case basis); and
- 2 pair those diagnoses with supporting or contradicting findings.

On the Most Likely Diagnoses screen, follow these steps:

- 1 Review your list of Possible Diagnoses.
- 2 Click the Possible Diagnoses you consider 'most likely' to add them to the Most Likely Diagnoses field. To remove a diagnosis from the Most Likely list, click it.

Click Next when you are ready to continue.

Note: If your instructor requires you to associate findings with your possible diagnoses, you can do that on the screen that appears when you click Next.

Supporting Possible Diagnoses with Findings

To associate findings with one of your Most Likely Diagnoses:

- 1 Select one of the Possible Diagnoses displayed on the left side of the screen.
- 2 Select the **positive** findings that you want to associate with this diagnosis.
- 3 Press Alt/Option while selecting the **contradicting** findings that you want to associate with this diagnosis.

Preliminary Diagnosis(es) Justification

On this screen you will enter a Preliminary Diagnosis Justification based on the patient interview and physical exam findings.

- 1 Your Most Likely Diagnosis list will appear on the left. Select a Likely Diagnosis to reveal any associated findings.
- 2 Type your Preliminary Diagnosis Justification into the field on the right. (You will enter a final Diagnosis Justification after you make your Final Diagnosis.)

*NOTE: When writing a narrative such as a Diagnosis Justification, click **Interim Save** to save your work. This field allows you to highlight, delete, and copy and paste text. If you make a mistake, you can use the Ctrl+z (command+z on Mac) command to undo your most recent action.*

Diagnostic Studies (Labs)

On the Diagnostic Studies screen, you will select diagnostic tests to further refine or confirm your diagnoses. You can order diagnostic studies in three ways: from a list of Common Lab Tests; from a list of Lab Categories; or by Searching for the Lab test.

Results for your selected lab tests will be available on the next screen after you complete your orders list.

You will be able to return to this screen and order more diagnostic tests by clicking Request More Tests.

Click Next to see your lab test results.

Diagnostic Studies Enter the diagnoses you think possible. Click Next to continue. Problem List Instructions 73:07 Next

Common Lab Tests

BMP (Basic metabolic panel)	CMP (Comprehensive metabolic panel)
CBC	Sodium
Sedimentation Rate	Potassium
Urinalysis	Chloride
Occult Blood	Carbon Dioxide
	Calcium
EKG	Phosphorus
Chest X-ray	Protein, Total
Gram Stain	Uric Acid
Throat Culture	T4
	TSH
	Cholesterol
	Triglycerides

To find a particular test enter a keyword or phrase and click Search.

HCG Search

Selected Diagnostic Studies Delete

Sodium, Na (Blood)
BUN
Cholesterol Lipids (HDL, LDL, VLDL, Triglycerides and Total)

1 Click a **Common Lab Test**. It will be added to the Selected Diagnostic Studies list.

2 To add diagnostic tests from the **categories**, select a category and then select the specific lab test, then click Add to List.

3 If you can't locate your lab, type in the lab name and click **Search**. Select the lab you want from the search results and click Add to List.

X-rays

Select a lab...

- Abdomen (KUB, X-ray)
- Ankle (X-ray)
- Aortogram
- Arm/hand (X-ray)
- Arthrogram
- Barium Enema (BE)
- Barium Esophagram
- Barium Swallow
- Bone Densitometry - Forearm
- Bone Densitometry - Dexa-Scan Hip and Lumb
- Bone Densitometry - Lumbar Spine
- Cervical Spine (X-ray) (C spine)
- Chest (X-ray) (CXR)
- Dental (X-ray)
- Face/Sinuses (X-ray)
- Femur (X-ray)**
- Fluoroscopy

Add to List

Search Results: HCG

Select a lab...

Human Chorionic Gonadotropin, Beta Subunit (HCG, betaHCG)

Add to List

Test Results

- Click each of the Test Orders to view patient and normal results for that test. (Scrolling may be necessary to see the entire results.)
- Click Close to return to the Test Results screen.
- (Optional) You may enter a finding for each test result. This field is not required.
- Click Request More Labs if you need to return to the Diagnostic Tests screen to order more labs.
- When you are done in the lab section, click Next.

Test Results Review test results. Click Next to continue. Problem List Instructions Request More Tests 74:50 Next

Diagnostic Tests Ordered Diagnostic Test Findings Delete

Complete Blood Count (CBC) Click for results
Femur (X-ray)
Human Chorionic Gonadotropin, Beta Subunit (HCG, betaHCG)

Complete Blood Count (CBC) Close

WBC	4,200/mm ³
RBC	4.3 m/mm ³
Hemoglobin	12.8 g/dL
Hematocrit	38%
MCV	92 fL
RDW	13.1%
MCH	30 pg
MCHC	36%
Platelets	225,000/mm ³
Bands	0.0% WBC count
Neutrophils	35% WBC count
Lymphocytes	62% WBC count
Eosinophils	1% WBC count
Monocytes	2% WBC count
Basophils	0% WBC count

Normal:
Adult: WBC count: 4,500-11,000 mm³
RBC count: 4.73-5.49 m/mm³
Hemoglobin: 14.0-16.6 g/dL
Hematocrit: 42.9-49.1%
MCH: 27-31 pg
MCHC: 33-37%
MCV: 76-100 fL
RDW: 11.5-14.5%

Finding Type finding and press enter.

Select Final Diagnosis(es)

Your list of Possible Diagnoses and any associated findings are displayed on the left.

Click one or more diagnoses to select as your Final Diagnosis(es). (If you make a mistake, click a Selected Diagnosis to remove it.)

You will be able to elaborate on your final diagnosis on the Diagnosis Justification screen after you click Next.

Select Final Diagnosis(es) Review your list of possible diagnoses and select one or more as your final diagnosis. Click Next to continue. Problem List Instructions 70:53 Next

femur fracture Click to Add

pain x3 days
pain rating 7/10

dx2
edema

Selected Diagnoses

Diagnosis Justification (final)

Your final diagnosis is displayed. Click a diagnosis to review the findings associated with that diagnosis.

Your Interim Diagnosis Justification is available in the field on the right. You may use it as the basis to write your Final Diagnosis Justification.

The editing functions in this field allow you to highlight, copy, paste, and delete text as needed.

Click Next to continue to the next screen.

Diagnosis(es) Justification >Enter your final diagnosis and your diagnosis justification. Click Next to continue. Problem List Instructions 69:50 Next

Your Diagnosis

femur fracture

Review Information

femur fracture Click for Findings

pain x3 days
pain rating 7/10

dx2

Your Diagnosis Justification

A patient history of pain x3 days, following a fall, coupled with edema and a pain rating of 7/10 should cause the clinician to suspect fracture.

3854 characters left Interim Save

Patient Problems

All Patient Problems you entered previously (using the Problem List button) will be displayed when you come to this screen. You can add to or edit this list as needed.

Click Next to proceed to the next screen.

Problem List Enter your list of patient problems. Click Next to continue. Instructions 64:31 Next

Patient Problems

Type problem and press Enter/Return. Enter

90 characters left

pain
edema
elevated HR
elevated WBC

Edit
Delete

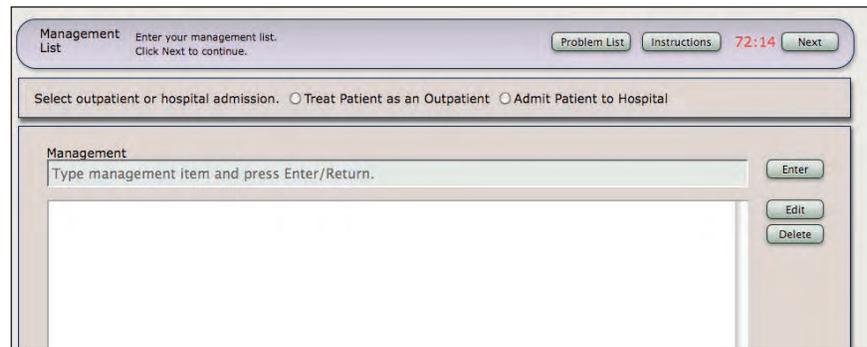
Management List

The Management List screen allows you to specify a management plan. Instructions will provide guidance on your instructor's specific expectations.

Select whether the patient will be treated as Inpatient or Outpatient.

Type in and enter your Management items.

Click Next when you are finished.

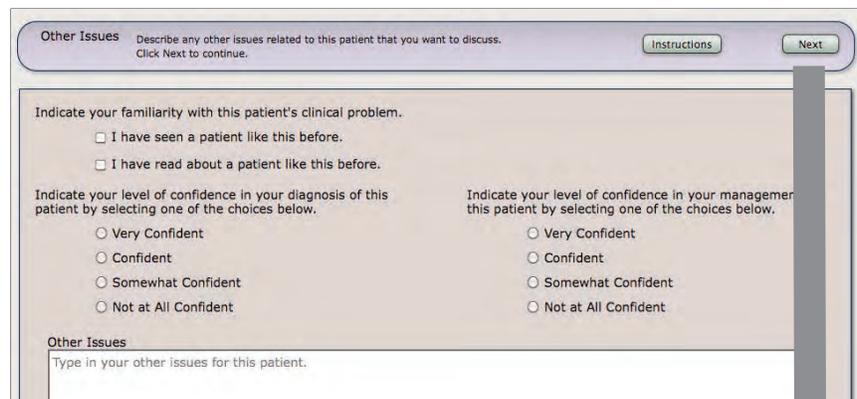


Other Issues and Case Complete

Use the radio buttons to answer the questions on the Other Issues screen.

Type in a description of any issues related to this case.

Click Next when finished.



Click Exit to complete your exam record.



Settings that Affect Case Flow

Two sections of this exam have not been discussed previously in this guide. Your instructor has the option to include these screens or to turn off access to them.

Possible Diagnoses Preference

Your instructor **may** require you to enter a list of all possible diagnoses that you might consider, *prior* to gathering Interview and Physical Exam information from the patient. When you enter the case, you will **first** encounter the Possible Diagnoses screen where you will enter all the diagnoses you consider possible, based on whatever information you have.

Virtual Patient Preference

Your instructor has the option to present to you a 'Virtual Patient' from which you can gather the same type of interview and physical exam data that you would from a standardized patient. Instead of an in-person encounter with a standardized patient, you will gather information within the exam software after you log in. The Virtual Interview and Virtual Physical Exam screens will appear after you review the patient information and click Next.

Virtual Interview

To gather virtual patient information in the Interview section, follow these steps:

- 1 Select an interview category to display a list of questions.
- 2 Select a question and click Ask. The patient response will appear.
- 3 Make note of any pertinent findings in the field above.

When you are ready to conduct a virtual physical exam, click Exam.

Navigation Warning: If you click Next anywhere in the Virtual Patient section, you will advance to the next section and won't be able to gather more exam or interview data.

Virtual Physical Exam

To gather virtual patient information in the Physical Exam section, follow these steps:

- 1 Select the body view picture that *best* shows the body part you want to examine. Select the exam tool you want to use.
- 2 On the large patient image, click on the body part you want to examine.
- 3 The exam result will appear as text, a picture, a sound, or a movie. You may be required to interpret the exam result. Make note of any pertinent Physical Exam findings in the field above.

Click Interview to return to the Interview section.

Navigation Warning: Click Next **ONLY** when you are ready to advance to the next section of the case.

