<u>Component 7, Unit 4: The Effective HIT System</u>

<u>About the (Optional) Orientation Videos:</u>

Part 1: The Reports Tab
Part 2: Reporting Clinical vs AdHoc
Part 3: Fun with Graphs
Part 4: Resolving Reminders
Part 5: Facilitating Quality Efficiency with Reminders

Videos are provided as files with a .swf extension. These .swf files are designed to be opened in all major web browsers. If the file does not open in your browser you can download a free .swf player at the Adobe site:
 http://www.adobe.com/products/flashplayer/

Step-by-step instructions for completing the activities are provided below for those who do not prefer to view the .swf files.

Instructions for the Activities

<u>Activity 1</u>
 Students will observe 5 short videos that will orient them to the the query function in VistA. This will prepare students to participate in a learning activity that will enable them to apply the concepts provided in the lecture material in hands on lab experiences. Students will learn how to extract data from VistA using three different approaches and how to produce a specific discharge report for a given patient.

<u>Activity 2</u>
 In this assignment, students will interact with the CPRS system as a user would, extracting patient specific data for a particular purpose. The focus of this unit is not upon knowledge of clinical nuances, since not all students will have clinical experience. The focus of this exercise is upon understanding how the reporting function works, and the strengths, weaknesses, and appropriateness of each.

 Also embedded within this experience will be a hands-on experience with how HIT functions serve to both remind providers of needed tests and interventions while facilitating workflow. In this exercise, students will observe how the automated clinical reminder system supports best practices in assessment and documentation and enhances continuity of care (automated planning of next steps, ordering consults, etc.). Students are strongly encouraged to watch the orientation videos associated with unit 4 prior to completing the assignment.

 The questions below are structured to encourage exploration of the reporting interface of VistA and create a deeper understanding of the differences between

reporting functions within an individual patient record. In addition, an experience with displaying data in graphical format is provided as well as exposure to integrated workflow support in the example of automated clinical reminders.

Question #1- On August 23, 2010 Mr. Seven had laboratory tests done (Chem & Hematology). What was the result of his Serum Potassium? Was it high or low or normal?

Question #2- On the discharge summary from April 1, 2010, what was the discharge diagnosis?

Question #3 - Mr. Eight experienced a marked weight loss in March, 2010. Retrieve his vital signs from the period of January 1, 2010 until March 31, 2010. What was Mr. Eight's weight drop from January 22, 2010 to March 23, 2010? What other of Mr. Eight's vital signs also showed a noticeable change?

Question #4 – Create a report containing **only** the following items: a.) Active Problems; b.) Lab Tests Selected: Urine Glucose and Blood Sugar ONLY; c.) Allergies; d.) Vital Signs – selected to reflect only his weight ; e.) Progress Note selected to show only the patient's Ophthalmology Consult Note. Capture & save your work (Copy and Paste) for submission to instructor.

Question #5 – In Reports Tab using "Graphing (Local Only)" create a graphical display of Mr. Seven's Blood Pressure, Pulse, Respirations, Weight & Temperature for the date range of March 1, 2010 through August 31, 2010. Capture & save your work for submission to instructor.

Question #6 –

a. Open Mr. Seven Inpatient's chart and change the "Provider and Location for Current Activities" (click second box on top tool bar where current provider is listed) to the visit date of June 10, 2010 for General Medicine – *note* that date will change in the chart header to June 10.

b. Create a new note for Mr Seven Inpatient from notes tab. Choose "Admission Assessment" as the type of note you will create, making sure to change the "date and time of note" to June 10.

c. Click "Reminders" and click on the "Depression Screening". Complete the Depression Screening documentation, PHQ2 and PHQ 9 (***IGNORE any warning boxes about a missing DLL file – click through***). Click "Next".

d. You will note that the system supports clinical workflow by immediately popping up the next reminder that should be addressed today while the patient is in the clinic

(the Retinal Exam). Choose "Refer Patient to Optometry….." and click "finish". Choose yourself as the primary provider for this visit in the box that appears.

e. Describe what happens next, and explain how this is evidence of HIT support for workflow.

f. Click into the "orders tab", to see the new consult that has been ordered automatically. Take a screen shot of this for submission to instructor.

Reference Comp7_unit4_activity and Comp7_unit4_activity_answer_key for more information and answers.

Additional guidance for utilizing the VA CPRS system can be found in the Vista CPRS Users Guide:

- Part 1 & 2 – All of the guidance to supplement the orientation videos for Unit 4 can be found starting on p.365 in the CPRS Users Manual. An entire chapter is devoted to the reporting tab.

- Part 3 – Students can find additional guidance in the CPRS Users Manual p.70-86.

- Part 4 & 5 – The additional references for reminders, resolving reminders, and the ordering functions associated with reminders can be found:
    - Reminders – beginning on p.314
    - Orders – beginning on p.216
    - Lab orders – beginning on p.280
    - Consults – p.283 and 339

Please note that the instructions in the video file may not correspond exactly to the manual. The printed manual may use different patient names and reflect a few minor differences from the video tutorials.