Getting Started with CareSelect™ Imaging with Cerner
Welcome!

In this guide, you will learn how to get started with CareSelect for point-of-order medical imaging guidance. CAMC has implemented CareSelect for the following modalities:

<table>
<thead>
<tr>
<th>Modalities Included</th>
<th>Modalities Excluded</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRI, CT, NucMed, PET</td>
<td>X-ray, US, Fluoroscopy</td>
</tr>
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</table>

What is CareSelect?

CareSelect, provided by National Decision Support Company, is a national standard imaging decision support system based on the American College of Radiology (ACR) Appropriateness Criteria® (AC).

Why CareSelect?

CareSelect with ACR AC® is the most comprehensive and widely recognized set of evidence-based imaging guidelines covering all modalities and clinical scenarios. More than 300 volunteer physicians representing more than 20 radiology and non-radiology specialty organizations participate on the ACR AC expert panels. These nationally transparent guidelines are being continuously updated by these experts, and provide real-time access to the latest medical imaging decision support.

CareSelect is integrated with your Cerner computerized provider order entry (CPOE) workflow and guides ordering providers to the most appropriate medical imaging exam. This ensures that the right patient gets the right scan for the right indication.

Need help? For questions, comments, and support, please contact:

- To report issues: contact the CAMC Customer Support Center at 388-4357
- If you have questions: contact the Provider Support group (available M-F 7:30AM-4PM)
  - General: 388-6300
  - Memorial: 388-6400
  - WCH: 388-7300
  - TVH: 757-5431
  - Ambulatory: 388-1200
ACR Appropriateness Criteria Scoring

As mentioned above, the ACR Appropriateness Criteria was created by the ACR expert panels using evidence and expert opinions. The appropriateness of an order and indication combination is rated on a scale from 1-9 grouped into three categories.

- The first category is **usually not appropriate**, is represented by the color red, and includes scores of 1, 2, and 3. This category indicates that the harm of doing the procedure generally outweighs the benefits.

- The second category is **may be appropriate**, is represented by the color yellow, and includes scores of 4, 5, and 6. This middle category is used when the risks and benefits are equal or unclear.

- The third category is **usually appropriate**, is represented by the color green, and includes scores of 7, 8, and 9. This category indicates that the benefits of doing the procedure usually outweigh the harms or risks.

Some risks or benefits may vary due to specific patient information or scenarios. Because of this, the final decision made by the provider may be different than what the medical evidence and expert opinion suggest.

For some scenarios, all exams presented to the ordering provider can be scored in the red range (scores of 1, 2, or 3). In these cases, research indicates that imaging is usually not appropriate.

<table>
<thead>
<tr>
<th>Rating</th>
<th>Category Name</th>
<th>Category Definition</th>
<th>Disagreement</th>
</tr>
</thead>
<tbody>
<tr>
<td>7, 8, or 9</td>
<td>Usually appropriate</td>
<td>The imaging procedure or treatment is indicated in the specified clinical scenarios at a favorable risk-benefit ratio for patients.</td>
<td>The dispersion of the individual ratings from the panel median rating is assessed to determine if there is no disagreement. When the individual ratings are too dispersed from the panel median (disagreement), &quot;May be appropriate&quot; is the designated rating category.</td>
</tr>
<tr>
<td>4, 5, or 6</td>
<td>May be appropriate</td>
<td>The imaging procedure or treatment may be indicated in the specified clinical scenarios as an alternative to imaging procedures or treatments with a more favorable risk-benefit ratio, or the risk-benefit ratio for patients is equivocal.</td>
<td></td>
</tr>
<tr>
<td>1, 2, or 3</td>
<td>Usually not appropriate</td>
<td>The imaging procedure or treatment is unlikely to be indicated in the specified clinical scenarios, or the risk-benefit ratio for patients is likely to be unfavorable.</td>
<td></td>
</tr>
</tbody>
</table>

Guidance at the Point-of-Order

National Decision Support Company and Cerner have collaborated to ensure an optimal experience for those entering radiology orders. The entire workflow takes place directly in Cerner with minimal changes to your existing order entry workflow. Feedback is immediate, so there is no disruption to the doctor-patient relationship.
Accessing Appropriateness Criteria in the Order-Driven Workflow

The ordering provider selects the radiology order; in this case, the order is **CT Head with or without Contrast**.

The order is added to the scratchpad
When CareSelect is enabled, when selecting a radiology order, an alert will display to the ordering provider. The provider then enters a reason for exam or search term in the Please Select a Reason for Exam box. This box is used to search the ACR’s list of structured reasons for the exam. The list of returned structured reasons for exam displays under Indication Search Results.

Once the ordering provider selects the structured reason for exam on the left, CareSelect provides feedback in the Decision Support window on the right. Decision Support displays the appropriateness score of the order being placed as well as any suggested alternatives.

Caption: The ordering provider is presented with the score of the original exam and the scores of the alternate exams. After the provider reviews the presented choices, he or she can place an alternate order or can continue with the original order.

Each scenario includes a link to supporting evidence which the ordering provider can select to
view as well. The ordering provider can follow the **Display Evidence** link to read detailed rationale for the particular appropriateness scores provided.

Caption: Based on the ordering provider’s entry of *head injury*, CareSelect filters the clinical scenarios that match with the **CT Head with and w/o Contrast** exam. The ordering provider simply selects the best clinical scenario that matches the patient’s situation. If the provider has a question on the content, he or she is able to select the Display Evidence link and review the ACR Appropriateness Criteria PDF document.
Placing an Alternate Order

If the ordering provider determines he or she wants to place an alternate order, the ordering provider then needs to select one of the alternate procedures offered in the Appropriateness Rankings section of the Decision Support window.

Caption: The ordering provider selects the appropriate alternate order highlighted in green.

Continuing with the Original Order

If the ordering provider determines that the original order is still the most appropriate, he or she then clicks Confirm at the top right of the Decision Support window.

Caption: The ordering provider clicks Confirm to order the original procedure.
After confirming the original order, the **Confirm Procedure** confirmation box displays so the ordering provider can indicate why keeping the original procedure is appropriate.

Caption: The ordering provider enters why the procedure is appropriate by selecting an option from the predetermined list, or selects Other and enters a free-text reason in the box.

Once the provider has gone through decision support, he or she is taken into the order to fill out any remaining order specific questions.

The provider then signs the order.
After signing the order, the order displays in Diagnostic Tests in the Details tab with order information.

On the Cerner Imaging Worklist, in the Order Detail Inquiry window this information about the order displays.
In Cerner Exam Management, in the Order Detail Inquiry window this information about the order displays.

This information is also available to the Radiologist.
Accessing Appropriateness Criteria in the Indication-Driven Workflow

CareSelect can also be used as a research tool and can assist with the ordering process. If the ordering provider is unsure of the exact exam he or she wants to place, he or she can click the CareSelect component in the chart table of contents to open the CareSelect portal.

Caption: The ordering provider clicks the CareSelect tab in the table of contents to open the CareSelect portal.

Here the ordering provider first enters an indication, and then narrows down the list of clinical indications and scenarios using the search bar. Next, the ordering provider selects the check box associated with the applicable clinical indication or scenario to display the list of exams and corresponding appropriateness scores.

Caption: The ordering provider clicks the CareSelect tab in the table of contents to open the CareSelect portal.
The ordering provider can click the **Display Evidence** link to read a detailed rationale for the appropriateness scores provided.

Last, the ordering provider then clicks the **Order button** to select the exam.

*Caption: In the indication-driven workflow, the ordering provider selects the reason for exam and the order in the Decision Support window.*
The selected order is added to the active orders list.

**Common Indications Functionality**

This functionality allows organizations to show the most common indications for an exam. The goal was to limit the indication list to be a useful pick list under 15-20 indications. The NDSC content team has created a content set that contains the most common indications for an exam, broken out by patient class (OP, ED, IP). So your list will look different when you have an Outpatient vs. an Emergency Department patient.

Common indication lists were evaluated according to market utilization and clinician review. A thorough review of each exam was done by practicing physicians to help determine the most impactful clinical scenarios for a more streamlined indication list that should encompass highest use case clinical reasons for the given exam.

**Example of common indications for a CT of the Head.**
If you do not see what you are looking for, you may select Other Indications.

This displays an alphabetic list of indications.
If you start your search as below, it filters both the common indications, and Other indications.