



GETTING STARTED WITH CARESELECT

CareSelect Imaging Overview Order Driven Workflow

Dept of Clinical Transformation



- Protecting Access to Medicare Act (PAMA) requires referring providers to consult appropriate use criteria (AUC) prior to ordering advanced diagnostic imaging services including CT, MRI, Nuclear Medicine, and PET.
- The law does not mandate ordering providers to strictly adhere to the AUC, it only mandates consulting AUC.
- National Decision Support Company CareSelect tool will be utilized as clinical decision support system
- Will be integrated into the Cerner EHR system to ensure that all orders comply with the mandate.



What is CareSelect Imaging?

CareSelect delivers appropriate use criteria for imaging services directly in the physician's ordering workflow

| | Medical, Student106 Male 01- | JAN-1990 30 Years MRN: 99901436 |
|---|--|---|
| Decision Support Content Subscription | Clin Clin CT-Head Routine with IV Contrast CT-Head Routine Searc | ical Decision Support for Dutine with IV Contrast h for a Reason for Exam |
| | Evaluate for aneurysm | Q |
| | 00 | rebral aneurysm, follow-up |
| + | Results focused on Evaluate for aneurysm (0) • Res | Appropriateness for a 30 Year Old Male |
| | Results related to Evaluate for aneurysm (4) | CT-Head Routine with IV Contrast |
| | Aneurysm, precerebral arteries | \$\$\$\$ 😵 😵 🕸 🏠 Confirm & Order Cancel Order |
| | Cerebral aneurysm, follow-up | — Appropriate Exams — |
| EHR Web Services | Cerebral aneurysm screening, genetic risk | CT-Head Angiogram without and with IV Contrast |
| Integration | S1 | \$\$\$ 😵 🛠 🛠 🛠 🛠 Replace & Order |
| | | MRA-Head without IV Contrast |
| | | \$\$\$ Replace & Order |
| | | MRA-Head without IV Contrast Followed by Contrast |
| | | \$\$\$\$ Replace & Order |
| | | MRI-Brain without and with IV Contrast 5 |
| | | Close |



- The order-driven workflow begins with a selected exam, asks for a reason for the exam, and scores the exam and appropriate alternatives based on Appropriateness Criteria from the American College of Radiology
- This workflow is utilized in the natural ordering workflow when the ordering professional knows what they want to order



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Med

Clin Con DAS Diag Eclip Form

Order Driven Workflow

Add a new order (CT, MRI, NM, PET)

| lical, Stu | dent106 × | | | ← List → 🕋 Recent - Name 🔍 - |
|----------------------------------|---|--|--|--|
| 2 | Medical, Student10 Allergies: No know Attend:CHOI MD, M solation Code(0): N PCP: CHOI M | 06 DC m allergies Inj INSIG /Α CCC D, MINSIGVerified date: (Please Update) | DB:1/1/1990 Age:30 years Sex:Male patient FIN: 009999001936 [Reg Dt: 12/15/2019 13:55:00 EST Admit Dt: - DDE STATUS: No Results Found Weight: Meas | MRN:99901436 Loc:18N - Observation Unit; R No - Inpatient admit date> Disch Dt: <no -="" date="" discharge="">] No XDocs Patient Portal: No</no> |
| nu - Inpatie | nt 🔹 ¥ | < > 👻 🔒 Orders | | 💥 Normal view 🗧 Print 💪 2 hours 3 minutes ag |
| ology Viewp Its Review Its | Add | Add Orders Medication List Document In Plan | tronciliation • 🗞 Check Interactions 🖬 External Rx History • Rx Plans (0): No E | enefit Found Reconciliation Status Meds History Admission Discharge |
| Imentation | TE Add | View | Search: ct head Advanced Options v Tu | e: 🗗 Inpatient 🗸 |
| | | Diagnoses & Problems | | All |
| Team - on | call staff | | 📫 🖬 😿 ' 🖾 🖼 Folder: Search | yithin: Hu |
| gies t Search | + Add | Diagnosis (Problem) being Addressed this Visit Add Convert Display: A | CT-Head Angiogram without and with IV Contrast CT-Head Port with IV Contrast | CT-Head Routine without and with IV Contrast T;N, Routine CT-Head Routine without and with IV Contrast T;N, STAT |
| cal Media | + Add | | CT-Head Portable without and with IV Contrast | CT-Head Routine without IV Contrast |
| cal Notes | + Add | D IMO | CT-Head Posterior Fossa with IV Contrast | CT-Head Routine without IV Contrast |
| ographics | | Annotated Display | Code CT-Head Posterior Fossa without and with IV Contrast | STAT, Reason for Exam: CVA symptoms |
| noses and P | roblems | | CT-Head Posterior Fossa without IV Contrast | CT-Head Routine without IV Contrast |
| v-18:0 | | | CT-Head Routine with IV Contrast | STAT, Reason for Exam: Possible bleed/fracture/injury |
| th Chart | | | T:N. Routine, Reason for Jam: Evaluate for aneurysm | CT-Head Routine without IV Contrast |
| th Mainten | Ince | | T:N, Routine, Reason for T-N, Routine, Reason for Evaluate for | Routine without IV Contrast |
| vier | | ٢ | CT-Head Routine with IV Contrast | r, roudine, Reason for Exam: Evaluate for stroke |
| ///CS | | Ballan | T;N, Routine, Reason for Exam: Evaluate for mass | T:N, STAT, Reason for Exam: Evaluate for trauma |
| unization v | rewpoint | Fioblems | T;N, Routine, Reason for Exam: Evaluate for organic brain syndrome | CT-Head Routine without IV Contrast |
| Summary | - | 💠 Add 🍒 Convert 🖾 No Ch | Irronic Pi | T;N, STAT, Reason for Exam: Evaluation for stroke |
| ication List | + Add | Display: All | CT-Head Routine with IV Contrast | T;N, Urgent, Reason for Exam: Evaluate for change in consciousness |
| | | | T;N, STAT, Reason for Exam: Evaluate for aneurysm | CT-Head Routine without IV Contrast |
| ince Directi | ve/Legal | (MO | CT-Head Routine with IV Contrast | 1;N, Urgent, Reason for Exam: Evaluate for headache |
| cal Trials | | Annotated Display A Name of P | roblem | T;N, Urgent, Reason for Exam: Evaluate for mass |
| munity Vie | w (HIE) | At risk of venous thromb At risk of | venous | |
| Measures | | | < | > |
| Print Form | | | Orders for Signature | |
| nosis/Proce | dures (retrospecti | | | |
| svs Links | | < Palatad Parulta | > Tetails | |
| Browser | | Formulary Details | 0 Missing Required Details Dx Table Orders For Cosionature Order | For Nurse Review Sian |
| - show set | * | i cintatory o cashe | | -19-1 |



Order Driven Workflow

The CDS window will present for in scope modalities

| | Male | 01-JAN-1990 | 30 Years | MRN: 99901436 |
|---|---|-----------------------------|----------------------|---|
| O Cancel CT. Head Poutine | with IV Contr | ast | | |
| Cancer Cr-nead Routine | withit conta | Clinical Decisio | n Support for | |
| | | CT-Head Routine | with IV Contrast | |
| | N | Search for a Rea | ason for Exam | |
| | ۲ ۲ | Evaluate for aneurysm | Q | |
| | | Search Tips | I Can't Find a Match | |
| | | | | |
| Results related to Eva | aluate for | aneurvsm (4) | | |
| Results related to Eva | aluate for ral arteries | aneurysm (4) | | |
| Results related to Eva | aluate for ral arteries st | aneurysm (4) | | |
| Results related to Eva Aneurysm, precereba Aneurysmal bone cys Cerebral aneurysm, 1 | aluate for ral arteries st follow-up | aneurysm (4) | | |
| Results related to Eva Aneurysm, precereba Aneurysmal bone cys Cerebral aneurysm, s | aluate for ral arteries st follow-up screening, g | aneurysm (4) enetic risk | | |
| Results related to Eva Aneurysm, precereba Aneurysmal bone cys Cerebral aneurysm, s Cerebral aneurysm s | aluate for ral arteries st follow-up screening, g | aneurysm (4) enetic risk | | NATIONAL DECISION SUPPORT COMPANY |

NOTE: If you see this CDS screen pop-up and then disappear quickly, it is an indication that the order you placed requires no additional steps. Simply sign your order as normal.



| | Medical, Student106 | Male | 01-JAN-1990 | 30 Years | MRN: 99901436 |
|--|--|---|---|-----------------------------------|---------------|
| Select the desired indication from the Common Indications list | Cancel CT-Head Routine with IV | Contrast CT-Hea headache | Clinical Decision Supp ad Routine with Search for a Reason fo | ort for IV Contrast or Exam | |
| | | Ø Search Tips | | I Can't Find a Match | |
| If the desired indication is not present, type in the "Please select a reason for exam" box to display additional reasons | Results focused on heada Carotid or vertebral dissed Headache, abnormal ICP s Headache, cancer or imm Headache, chronic, no ne | che (14) © Reset ttion suspected suspected unocompromise w features | | | |
| | Headache, chronic, with n Headache, cluster/trigem Headache, infection suspe Headache, intracranial he | ew features inal ected morrhage suspected | k | | |
| Select the desired reason from either list | | | Close | | |



Cancel CT-Head Routine with IV Contrast **Clinical Decision Support for CT-Head Routine with IV Contrast** R Search for a Reason for Exam If the desired headache Q reason cannot be **O** Search Tips I Can't Find a Match located, select "I Can't Find a Match" Results focused on headache (14) 8 Reset Carotid or vertebral dissection suspected Headache, abnormal ICP suspected Headache, cancer or immunocompromise Enter a Free Text Indication Headache, chronic, no new features Headache, chronic, with new features Enter a reason for exam* Headache, cluster/trigeminal headache Enter your feedback Headache, infection suspected regarding missing Headache, intracranial hemorrhage suspected Why are the displayed indications not satisfactory? indication. Select Headache, neuro deficit Please add detail to help us improve Headache, post traumatic "Yes, Submit Order" There are no appropriate use criteria associated with free text indications. Do you wish to proceed?

Cancel

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A dynamic list of potential exams will populate along with other, relevant information

To review evidence, select "View Evidence for Exams" at the top of the exam review pane

| Medical, | Male | 01-JAN-1990 | 30 Years | MRN: 99901436 |
|----------------------|---------------------|-----------------------|--------------|----------------------------|
| Student106 | | | | |
| | | | | |
| | Approp | orlateness for a 30 Y | ear Old Male | |
| | | View Evidence for E | xams | |
| | | — Requested Exam — | | |
| CT-Head Routine wit | th IV Contrast | | | |
| | 4 | | | |
| \$\$\$\$ | | | | |
| | | | Cor | nfirm & Order Cancel Order |
| | | | | |
| | | — Appropriate Exams — | | _ |
| CT Head Doutine wit | | Appropriate Exams | | |
| CI-Head Routine wit | 8 | | | |
| \$\$ \$\$ | | | | |
| * * * * * | | | | |
| | | | | Replace & Order |
| MPL-Brain without a | nd with IV Contract | | | |
| Miti-Brain without a | 7 | | | |
| \$\$\$\$ | | | | |
| | | | | Replace & Order |
| | | | | |
| MRI-Brain without IN | / Contrast | | | |
| ¢¢ ¢¢ | | | | |
| | | | | |
| | | Close | | |

Stony Brook University Order Driven Workflow – Display Evidence





The original exam will be listed on the top highlighted in yellow. Confirm by selecting "Confirm & Order"

You may also replace the original exam with a more appropriate exam

| Medical, Student106 | Male | 01-JAN-1990 | 30 Years | MRN: 99901436 |
|------------------------|----------------------|-----------------------|--------------|----------------------------|
| | Approp | riateness for a 30 Y | ear Old Male | |
| | | View Evidence for Ex | kams | _ |
| | | — Requested Exam — | | |
| CT-Head Routine w | ith IV Contrast 4 | | | |
| \$\$\$\$ | | | | |
| * * * * * | | | | nfirm & Order Cancel Order |
| | | | | |
| | | — Appropriate Exams — | | _ |
| CT-Head Routine w | ithout IV Contrast | | | |
| - | 8 | | | |
| \$\$\$\$ | | | | |
| | | | | Replace & Order |
| MRI-Brain without a | and wit V Contrast | | | |
| | 7 | | | |
| \$\$\$\$ | | | | Replace & Order |
| MRI-Brain without I | V Contrast | | | |
| | 7 | | | |
| | | Close | | |



Order Driven Workflow – Selecting a Low Scoring Exam





Order Driven Workflow -**Reviewing Order Details**

| | 🛧 Add 🦨 Document Medication by Hx Reconciliation * 🗞 Check Interactions 📑 External Rx F | listory▼ │ Rx Plans (0): No Benefit Found▼ | Reconciliation Status ④ Meds History ④ Admission ④ Discharge |
|--|--|--|---|
| After submitting, the indication | Orders Medication List Document In Plan | | |
| support will display in the free text reason for exam field | Search: Advanced Options Type: Inpatient Type: | s/Common .Search <u>w</u> ithin: All | × |
| | ▼ Orders for Signature | | |
| | Image: Second status Status Status Status Details 4 18N - Observation Unit: R018: D. Enc. #:009999001936. Admit: 12/15/2019 13:55 FST Details Details | \$ | |
| The order will be assigned a decision support number (AUC DSN) and an appropriateness score (AUC Score) | | 020 09:04 EDT, Routine, Reason for Exam: Headache, abr | normal ICP suspected, Clinical History: Headache, P, |
| | Details Details Order Comments Diagnoses | | |
| Exams scoring 3 and below will | *Reason for Exam: Headache, abnormal ICP suspected | *Suspected CVA: | ○ Yes ● No |
| populate the acknowledgement | Enter at least 5 con-blank characters in Cli | *Clinical History: | Headache |
| reason comment fields | Comments:: | Pregnancy status (from Physician Patient Factors): | Not Applicable |
| | Contact Name: | Contact Relationship: | |
| | Contact Phone: | Pertinent Previous Studies (Body Site/Date): | |
| | AUC DSN: 4954779 | AUC Score: | 8 |
| Complete any additional order information and sign the order | AUC Acknowledgement Reason: | AUC Acknowledgement Reason Comment: | v |
| | 0 Missing Required Details Dx Table Orders For Cosignature Orders For Nurse Review | | Sign |