

CareSelect Imaging – AI Indication Selection

Leverage CareSelect Imaging With Artificial Intelligence to Improve the Indication Selection Workflow in the EHR

CareSelect Imaging uses Artificial Intelligence to improve the indication selection workflow in the EHR. Effective decision support consultation relies on the selection of clinical indications to tie a patient's clinical scenario to relevant Appropriate Use Criteria (AUC). The goal of the AI model is to predict relevant indications, and in some cases, auto-select indications in the provider's ordering workflow.

CareSelect Imaging's AI functionality leverages relevant data about the patient, order, and provider to predict the most likely indications a provider might select. AI results are based on the CareSelect transaction registry, which comprises decision support consultation data from over 300 healthcare organizations. The evolution of AI models and customer experience have enabled CareSelect to develop a heuristic solution to continually improve the indication selection process and accuracy in ordering to increase imaging appropriateness.

AI Goals

- **Improve quality of care and patient safety**—Better specificity of indications based on AI analysis of encounter data improves guidance and quality of care
- **Simplify user experience**—AI within the EHR simplifies the user experience by predicting the most relevant indications based on patient data, provider, and care setting to improve workflow
- **Expand relevant data**—Learns from a transaction registry of 75 million radiology decision support sessions aggregated over seven years
- **Assist providers with PAMA compliance**—Optimize indication model for greater visibility and less maintenance to ensure compliance

Workflow Improvements

AI indication selection enables CareSelect Imaging to provide an interactive workflow in the feedback (alert) window, displaying AI-predicted indications based on the applied model and available data when the order is being placed. CareSelect Imaging presents the predicted indications (or auto-selected indication) with AUC feedback.



Order triggers active guidelines



Leverages patient, provider, and order context for the prediction model



Auto-matches to an indication when possible



If multiple indications are relevant, shows short list to provider for easy indication selection