



Clinical Decision Support (CDS) Meaningful Use

"...advanced EHR systems with CDS functionalities have the potential to offer numerous benefits to the safety and quality of patient care...While the promise of CDS is great, trials of CDS have produced mixed results and a number of challenges in implementing CDS remain unresolved. Nevertheless, the potential of CDS to improve health care outcomes affirms that truly meaningful use of electronic health records includes the meaningful use of effective CDS."

Component 12/Unit 6

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Types of CDS

- Relevant data displays
- Smart documentation forms
- Order facilitators (order sets, order consequents, order modifiers)
- Extended-time guideline & protocol followers
- Targeted reference, including contextually relevant medical references or info buttons
- Reactive alerts

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Types of CDS

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- Task assistants for tasks such as drug dosing and acknowledging laboratory results
- Diagnostic suggestions
- Patient summaries for clinician hand-offs
- Procedure refreshers, training, and reminders
- Performance dashboards with prompts for areas needing attention
- Tracking and management systems that facilitate task prioritization and whole-service management Component 12/LINE 8
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• Content

- Elimination or changing of roles of clinicians and staff
- Currency of CDS content
- Wrong or misleading CDS content
- Presentation
 - Rigidity of systems
 - Alert fatigue
 - Sources of potential error

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Summary

- Meaningful use of EHRs must include meaningful use of CDS.
- CDS supports quality, safety, efficiency, effectiveness, timeliness, and equity of care.
- Examples of CDS that support patient safety include: rules that alert the prescriber to harmful interactions and rules that support weight-based, physiology-based, and age-based dosing.
- There may be unintended consequences of CDS that relate to both content & presentation.

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