

An Overview of the Clinical Decision Support Implementers' Workbook Project

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Goals

- Assist healthcare organizations in using decision support technologies to improve clinical outcomes
 - Provides a systematic approach and tools
 - assess institutional drivers and infrastructure,
 - select clinical topics,
 - identify workflow stages and interventions; and
 - implement and evaluate these interventions.
- Help vendors and **information standards developers** to optimize their contributions to improving clinical outcomes.

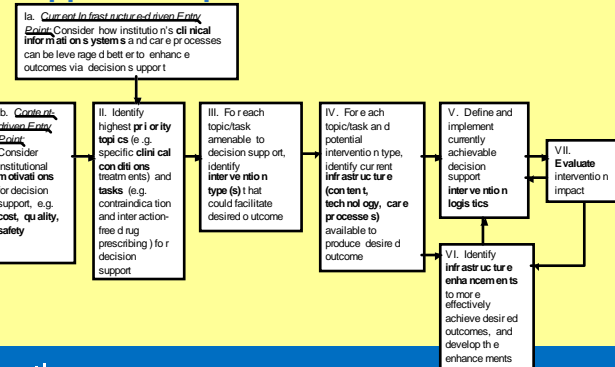


Current Sections

- Summary Roadmap
- Assess institutional infrastructure
- Articulate institutional motivations
- Select specific outcomes/topics/tasks
- Consider intervention types and map to workflow
- Assess infrastructure to achieve outcomes
 - Determine intervention logistics using available infrastructure
- Evaluate intervention effectiveness
- Optimize infrastructure



Roadmap for Applying Clinical Decision Support to Improve Outcomes



Clinical Workflow Tasks

- Before clinical encounter
 - Clinician review of knowledge about problem
 - Patient-submitted pre-visit questionnaire
 - Alerts/reminders (e.g. health maintenance)
- During clinical encounter
 - Diagnostic evaluation
 - Treatment planning and implementation
- Patient education-customizable to patient/provider
- Documentation: clinical data, assessments, plans
- After clinical encounter



Treatment planning and implementation

- Drug selection (safe, appropriate, cost effective)
 - Appropriate for patient circumstances e.g. selection and dosing for age, co-morbid illness, formulary, error avoidance no contraindications, drug interactions, etc.
 - Non-drug interventions (invasive, nursing, etc.)
 - Follow-up for efficacy and side effects e.g., monitoring
- Appropriate use of consultations
- Order placement
 - Alerts/reminders
 - Order sets/templates/corollary orders
 - Relevant data display (e.g. renal function)



Identifying decision support interventions (Potential Clinical Decision Support Standards?)

- Documentation Template
- Relevant patient data display
- Order Set
- User-requested information/guidance
 - *InfoButton*
- System-generated interpretation/alert
 - *Arden Syntax*
- System-generated recommendation
 - *Guidelines*



Determining Intervention Logistics

- **What** information should be delivered?
- **Who** will be the recipient?
- **When** in the care process?
- **How** is the intervention triggered and delivered?
- **Where** will the clinician be when receiving the intervention?
- **Which** medium will be used to convey the message?



What are we doing now?

- Have enlarged the working group to get more input, ideas, and work done.
- Joined HIMSS as "official" group to get more support, exposure and dissemination vehicle.
- Validating ideas with informatics leaders.
- Looking for clinical leaders to give the workbook a trial run.



Thank you

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