SEER*DMS
Change Control Advisory Board
January 30, 2020

The meeting will begin shortly...

Reminders:
• This meeting will be recorded
• Please be sure that you used your audio PIN when you dialed in (if not, hang up and re-dial)
- Review the goals of the SEER*DMS usability project and the reasons for the 2020 changes
- Working with users to help them adjust to the new interface
- Detailed review of the phase 1 changes that were released this week
- Collecting feedback from registry users
- Next steps – sneak peek of other changes being considered for 2020
- Q & A

*Small changes eventually add up to huge results.*
In 2015-2016, the SEER program initiated an external review of SEER*DMS to ensure that the system is optimally positioned for evolving needs.

- 5 health informatics experts were contracted to perform the assessment.
- 4 registries were part of the initial review.
- 9 key categories of recommendations were delivered in a final report to NCI:
  - Governance & Communication
  - Usability Evaluation
  - Enhanced Linkages
  - Consolidation
  - Case Upload Portal
  - Integrated Report Writer
  - NLP, Automation
  - Security
  - System Architecture

Source: Friedman, C. and Wyatt, J. *Evaluation Methods in Biomedical Informatics*
The complexity of both the system and the network of registry users required the development of usability framework. The framework was meant to ensure full user engagement during usability assessment and to minimize disruptions during the evaluation and subsequent system changes.

### Usability Framework

#### Framework Phases

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<th>Phases</th>
<th>Learn and Plan</th>
<th>Registry Site Visits</th>
<th>Project Refinement</th>
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<th>Project Refinement</th>
<th>Findings Consolidation and Report</th>
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#### Framework Activities

- **Initial Planning**
- **Design Development**
- **Usability Evaluation**
- **Implementation Planning**
- **Evolution Monitoring**
- **Final Assessment**
- **Consolidation and Report**

#### Users Engaged

<table>
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<tr>
<th>Users Engaged</th>
<th>Program Leadership</th>
<th>Program Management</th>
<th>System Partners</th>
<th>Registries</th>
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2016-2017
June and July, 2018. NN/g and Westat conducted field studies via site visits to two SEER*DMS registries, Georgia and Seattle.

Findings from the 2018 site visits were presented in the SEER*DMS Face to Face Meeting (September, 2018)
The usability project team (NCI, NN/g, Westat, IMS) identified a list of changes for Phase 1 of the project.

- IMS implemented the changes on a limited basis – the Patient Set Editor for one registry.
- NN/g conducted remote testing of the initial prototype with staff from the Utah Cancer Registry
- Changes were defined based on the UCR tests
- IMS implemented the new design system-wide
- IMS added a feature that allows users to toggle between the new and old interface
Today is the first official day of the transition!

All users can use the “magic wand” to go back and forth between the new and old UX.

IMS will collect feedback from the registries (details to be discussed today).

The new UX will become the system default on March 9th. Users will still be able to toggle back and forth.

The old UX will be disabled in April.

P.S. Apologies to path screeners and match makers. The changes were not deployed – please wait a week before using the system for Match and Path Screening tasks.
SEER*DMS Toggle Feature
(the “Magic Wand”)

This shows the home page of SEER*DMS Demo

A “Wand” icon was added to the toolbar. If the Wand is available, the user can toggle from the old to the new user interface.
Behavioral Evidence-Based Usability Improvements to SEER*DMS
Readability

Improvements | Readability

CTC 00 (C343-1) - Record and CTC Text Fields

Site Title
RLL
Hist Title
SCCA

CTC 00 (C343-1)

Site Title
RLL
Hist Title
SCCA

Remarks:
Family Hx: Mother w/ Breast Cancer, Sister w/ Ukn Malignancy

This document is a summarized, interim companion to the findings reports for the 2018 usability study registry visits. This is intended as a quick, informal summary of key recommendations for changes made to SEER*DMS, specifically for the purposes of assessing possible prototyping and research efforts for the SEER*DMS Face-to-Face in September 2018.

For more detail on both the evidence and findings that propelled these recommendations, and further specific detail on the recommendations themselves, please see the findings report* entitled NCI SEER*DMS GA Registry Site Visit: Findings from Contextual Inquiry Sessions June 5-7, 2018.
Scanning in SEER*DMS
Alerts and Data Review in SEER*DMS
Demo to Review Changes
Collecting Registry Feedback
Don’t be shy….

- Use the magic wand!
  - Encourage all users to switch back and forth between the old and new UX.
  - Please use the next 2 months to adjust.

- We would like to receive *initial* feedback from you within 1 to 2 weeks (Feb 14).
  - Does not need to be comprehensive but should include any “show stoppers”.
  - Each registry can send a Word document to Linda Coyle via the SEER*DMS File transfer. Screen shots are not required, but can be included. These files will not be shared with NCI, NN/g, or Westat.

- Each week – please use the new UX more and more.

- IMS will disable the old UX on April 1.
Next Steps 2020
SEER*DMS - Possibilities for 2020

Changes being considered for phase 2:

• Default settings for section open/close (“chevron settings”)
• Re-design of the left navigation in the Patient Set Editor
• Re-design of the DX Info popup
• New design for the Rx/Tx Tab
• Support various monitor sizes (a more responsive interface)
• Comfy vs condensed modes for editing
Questions ?