



HIE Use Case Design Group

A Design Group of the Connecticut Health IT Advisory Council

August 23, 2017 | 2:30 – 4:00 pm

Session #8

Facilitated by CedarBridge Group



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GROUP

Agenda

Welcome / Roll Call	Michael Matthews	2:30 PM
Comments on 8/16/17 Minutes	Design Group Members	2:32 PM
Review Meeting Schedule	Michael Matthews	2:34 PM
Review and Discuss Inclusion Criteria Responses	Michael Matthews and Design Group Members	2:35 PM
Review Scoring Results <ol style="list-style-type: none">1. Composite scores (Top 10 lists)2. Overlap between Matrix and Survey3. Use cases in neither Top 10 list	Michael Matthews and Design Group Members	3:00 PM
Meeting Wrap-up and Next Steps	Michael Matthews	3:50 PM

Comments on 8/16/17 Minutes

Meeting Schedule

Milestones/Deliverables	Dates
Session 1: Kick-Off Meeting	6/27/17
Session 2: Review Use Cases (Part 1)	7/12/17
Session 3: Review Use Cases (Part 2)	7/19/17
Present update to Health IT Advisory Council	7/20/17
Session 4: Review Use Cases (Part 3)	7/27/17
Session 5: Review Use Cases (Part 4)	8/2/17
Session 6: Review Use Cases (Part 5) and Prioritization Criteria for Use Cases	8/9/17
Session 7: Review Final Use Cases (Part 6); Apply Prioritization Criteria	8/16/17
Present Update to Health IT Advisory Council	8/17/17
Session 8: Select “Top 10” Use Cases; Discuss Final Prioritization Criteria	8/23/17
CedarBridge to Conduct Analysis of HIE services and Infrastructure Necessary to Support “Top 10” Use Cases; Research Financial, Business, Legal, and Policy Considerations of “Top 10”	8/23/17 - 8/30/17
Session 9: Validate Value Propositions, Implementation Priorities, and HIE Services Needed to Enable Priority Use Cases	8/30/17
Session 10: Draft Recommendations	9/6/17
Present Report and Recommendations to Council	9/21/17
Delivery of Final Report and Recommendations to HITO	9/30/17

Review Inclusion Criteria Responses

Use Case Prioritization Criteria

Prioritization Criteria

1. Value for Patients and Consumers
 - Patient-centeredness; allows for patient preference, choice, and convenience
2. Value for Other Stakeholders (providers, community orgs, payers, employers, etc.)
 - Alignment with organization goals and business requirements for stakeholders
3. Workflow Impact
 - Defined impact to clinical staff's workflows (positive or negative)
 - Defined impact to administrative staff's workflows (positive or negative)
4. Ease of Implementation
 - Implementation readiness / use case maturity
5. Integration, Maintenance, and Technical Assistance
 - Define resource requirements necessary to support implementation and integration(s), including technical assistance and maintenance
6. Prerequisite Services
 - Assessment of prerequisite services for an HIE entity and partner organizations (HISP, ability to produce/send ADTs, etc.)
7. Scalability
 - Stand-alone use case vs. cluster (e.g. care coordination and longitudinal health record)
8. Existing Infrastructure / Resources
 - Does existing infrastructure meet the needs of stakeholders?

Use Case Prioritization Methodology

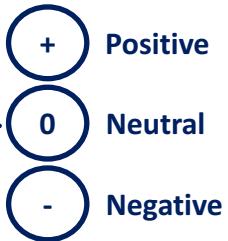
The HIE Use Case Design Group has developed and reviewed a comprehensive list of potential HIE use cases that represent all stakeholders in Connecticut's healthcare ecosystem. In total, the DG reviewed 31 use cases. Following the review, the DG engaged in two activities to prioritize and sequence the reviewed use cases. Once scores were received from both activities, the data was analyzed and compiled to help guide the Design Group's sequencing decisions.

Activity 1: Prioritization Matrix - Design Group members received the Matrix as an Excel spreadsheet. Members were asked to assess each use case against the 8 prioritization elements listed on the previous slide. In assessing the use cases, they were asked to determine if the use case impacted the criteria element positively, negatively, or neutrally by assigning a +, -, or 0. Each symbol was assigned a score, and a cumulative score was calculated for each use case.

Activity 2: Survey: Design Group members received a link to a SurveyMonkey questionnaire where they were asked to assemble a top 10 ranking, based solely off of their personal perspective and opinions.

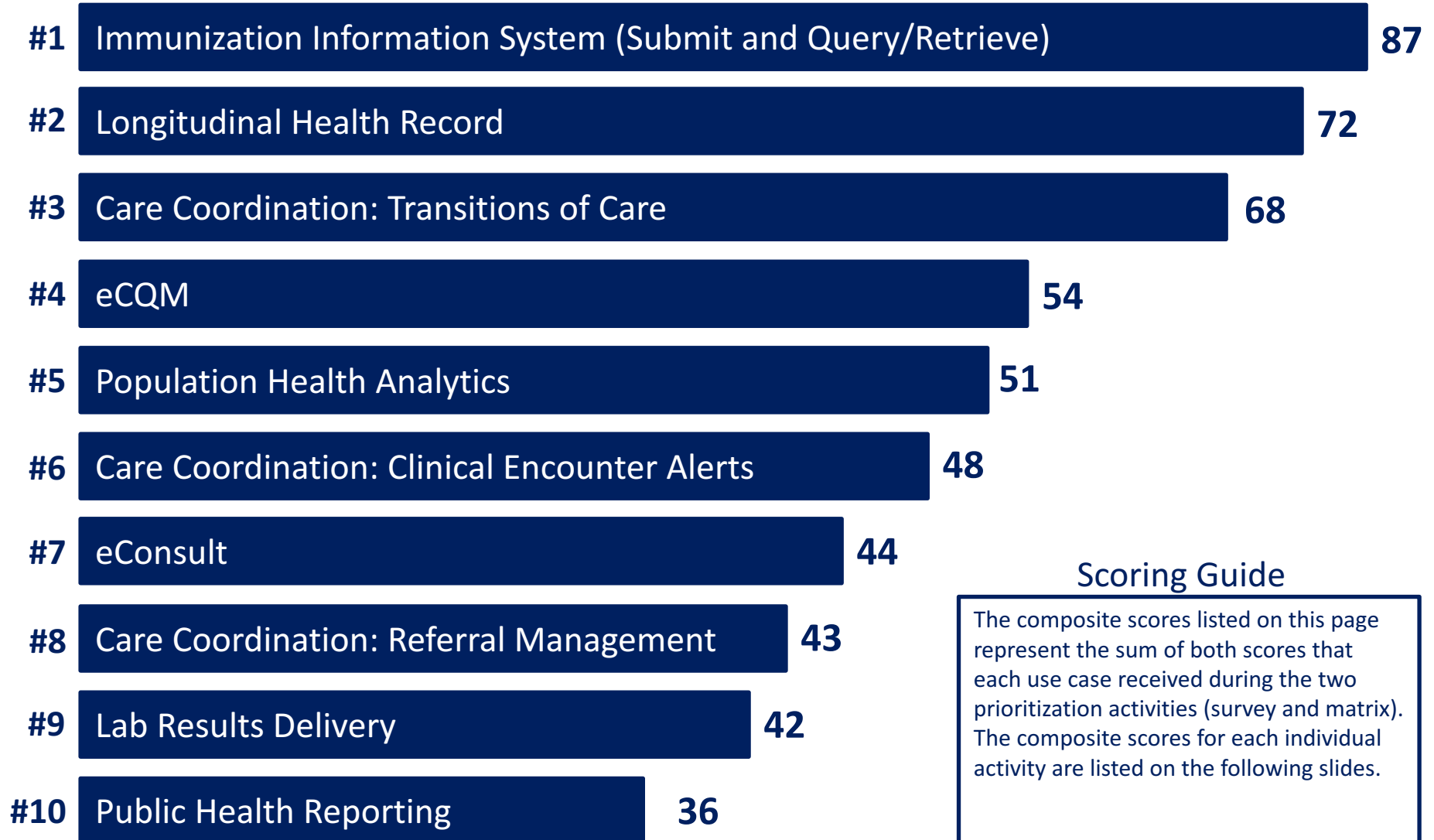
Use Case Inventory: Inclusion Criteria

Use Case	Patients	Stakeholders
1. Electronic Clinical Quality Measures (eCQM)	++0000	+++++0
2. Immunization Information System (IIS) - Submit and Query/Retrieve	++++++	+++++0
4. Advance Directives	+++++0	+++++0
5. Opioid Monitoring and Support Services	++++++	+++++0
6. Wounded Warriors	++++++	++++00
7. Longitudinal Health Record	++++++	++++++
8. Emergency Department Super-Utilizer	+++++0	++++++
9. Medication Reconciliation	++++++	++++++
10. Care Coordination: Referral Management	+++000	+++++0
11. Care Coordination: Transitions of Care	++++++	++++++
12. Care Coordination: Clinical Encounter Alerts	+++++0	++++++
13. Care Coordination: Care Plan Sharing	++++++	++++++
14. POLST / MOLST	++++++	+++000
15. Disability Determination	+++00 -	+++000
16. Life Insurance Underwriting	++++0 -	++0000
17. Image Exchange	++++++	++++++
18. Population Health Analytics	+++++0	++++++
19. Public Health Reporting	+++000	++++++
20. Lab Results Delivery	+++++0	++++++
21. Social Determinants of Health	++++++	+++++0
22. Research / Clinical Trials	+++++ -	++++++
23. Patient Portal / Personal Health Record	++++++	++0000
25. Medical Orders / Order Management	+++000	+++++0
28. Emergency Medical Services (EMS)	+++++0	+++++0
30. Genomics	+++++0	+++000
31. eConsult	++++++	+++++0



Review Composite Scores of Prioritization Matrix & Survey

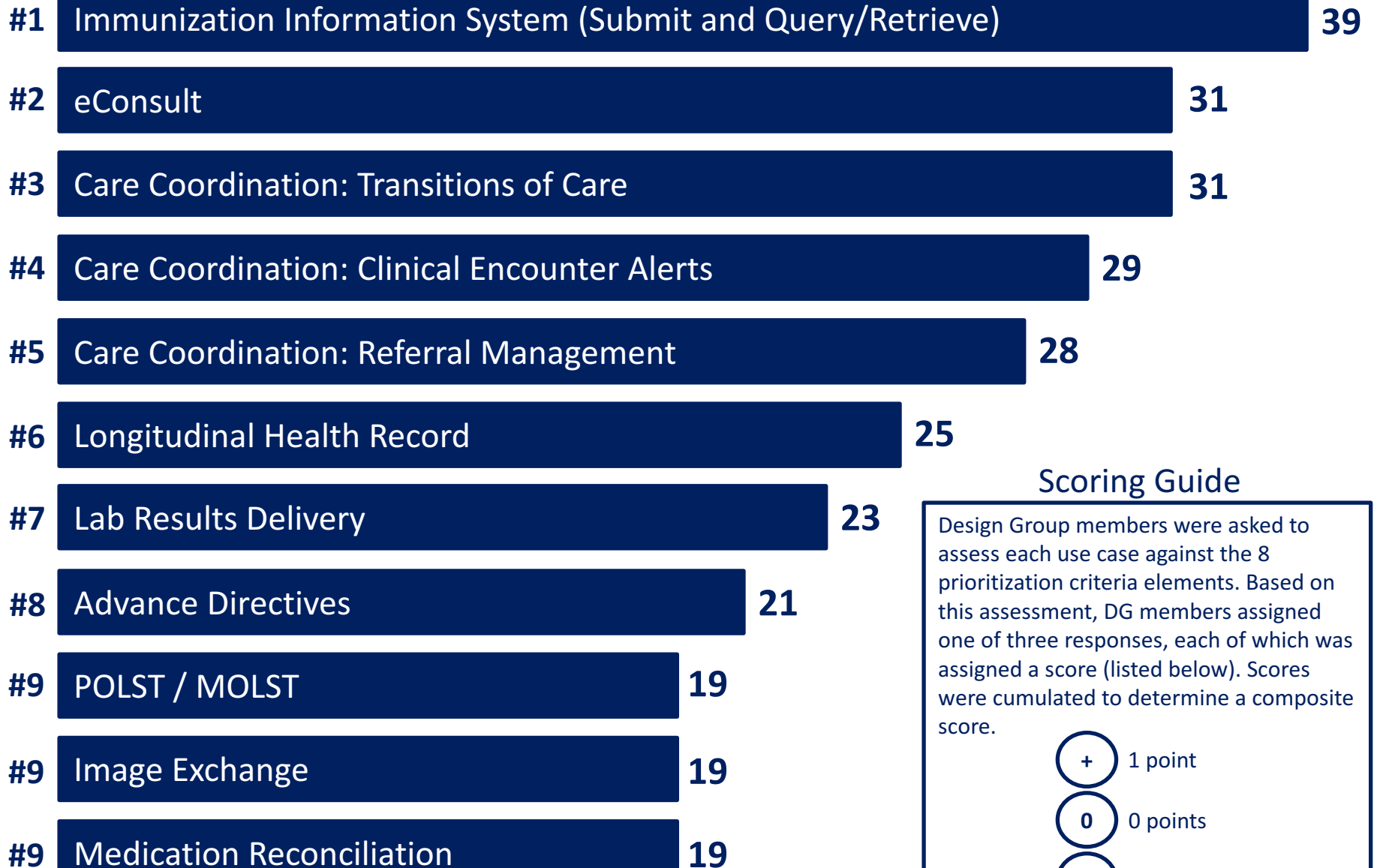
Combined Ranking & Composite Scores



Scoring Guide




The composite scores listed on this page represent the sum of both scores that each use case received during the two prioritization activities (survey and matrix). The composite scores for each individual activity are listed on the following slides.

Matrix (Activity #1): Ranking & Composite Scores

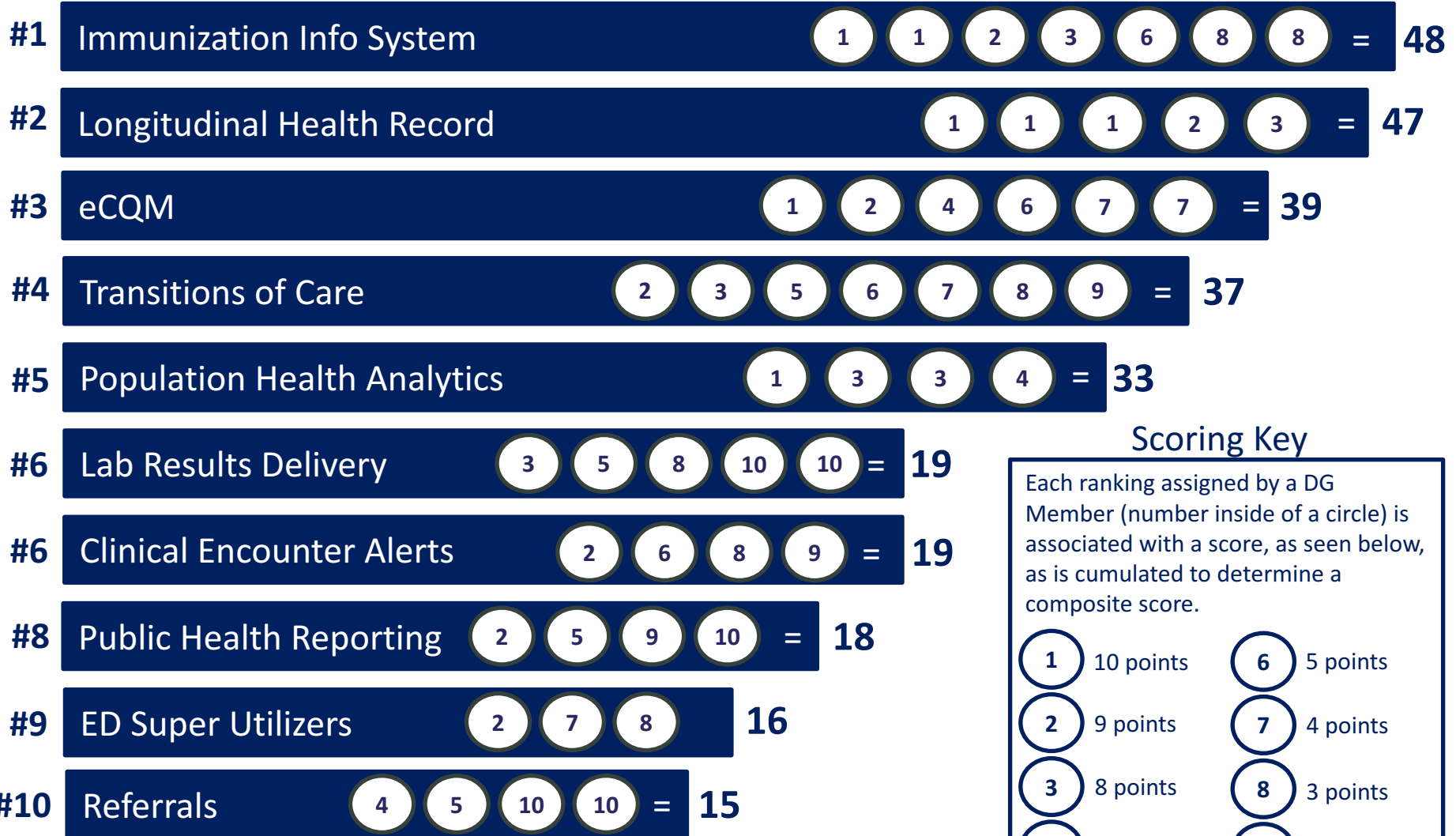


Scoring Guide

Design Group members were asked to assess each use case against the 8 prioritization criteria elements. Based on this assessment, DG members assigned one of three responses, each of which was assigned a score (listed below). Scores were cumulated to determine a composite score.

-  1 point
-  0 points
-  -1 point

Survey (Activity #2): Ranking & Composite Scores



Scoring Key

Each ranking assigned by a DG Member (number inside of a circle) is associated with a score, as seen below, as is cumulated to determine a composite score.

1	10 points	6	5 points
2	9 points	7	4 points
3	8 points	8	3 points
4	7 points	9	2 points
5	6 points	10	1 point

Compare Composite Score Overlap

Use Case Inventory: Combined “Top 10”

Use Case	Matrix Score	Survey Score	Combined Score
Immunization Information System	39	48	87
Longitudinal Health Record	25	47	72
Care Coordination: Transitions of Care	31	37	68
eCQM	15	39	54
Population Health Analytics	18	33	51
Care Coordination: Encounter Alerts	29	19	48
eConsult	31	13	44
Care Coordination: Referral Management	28	15	43
Lab Results Delivery	23	19	42
Public Health Reporting	18	18	36

Use Case Inventory: Use Cases “In The Middle”

The following table contains the use cases that did not make the combined “Top 10” list, but were listed among the top 10 use cases for one of the two activities.

Use Case	Matrix Score	Survey Score	Combined Score
ED Super Utilizers	17	16	33
Image Exchange	19	13	32
Medication Reconciliation	19	13	32
Advance Directives	21	9	30
POLST / MOLST	19	0	19

Use Case Inventory: Neither “Top 10” List

Use Case
Opioid Monitoring and Support Services
Wounded Warriors
Emergency Department Super-Utilizers
Care Coordination: Care Plan Sharing
Disability Determination
Life Insurance Underwriting
Social Determinants of Health
Research / Clinical Trials
Patient Portal / Personal Health Record
Medical Orders / Order Management
Emergency Medical Services (EMS)
Genomics
Patient-Generated Data – <i>use case was not considered for prioritization</i>
CHA Dose Registry – <i>use case was not considered for prioritization</i>
Bundle Management – <i>use case was not considered for prioritization</i>
Lab Orders – <i>use case was not considered for prioritization</i>

Next Steps

- Determine final Top 10 use case list
- Conduct additional analysis of Top 10 use cases, including Business, Financial, Legal, and Policy Considerations
- Next Meeting: Wednesday, August 30 at 2:30pm EDT



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Appendix

Process of Use Case Prioritization & Finalization

