A Mobile Application for Direct Observation Evaluation of Dermatology Residents

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*Contributed equally

Milestone Evaluations

- More structured and complex evaluations
- Emphasis on direct observation evaluation
- Programs must submit composite milestone data every six months
  - Increased program coordinator burden

Design Principles

- Fulfill NAS Reporting Requirements
  - Cover all sub-competencies
  - Encourage compliance – make evaluation fast and simple
- Keeping massive amount of data organized
- Provide timely feedback to trainees

InstantEval Dermatology

- Built on InstantEval
  - Mobile evaluation platform used widely since 2012
  - Co-founded by Dan and Arjun
- Adapted for Dermatology thanks to 2015 AAD Sulzberger Grant
- Free for use by all AAD members

Try it!

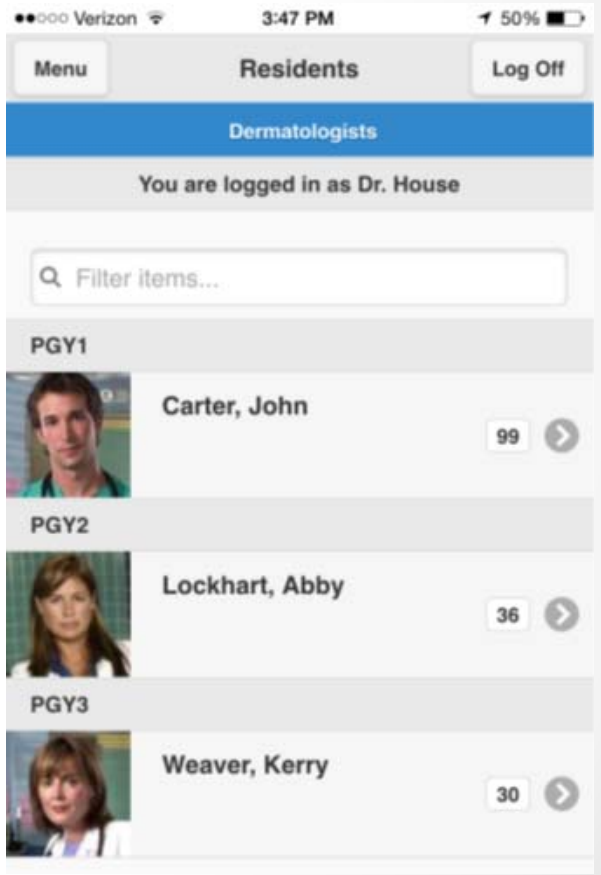
- **derm.instanteval.com**
  - Password: derm

Key Features

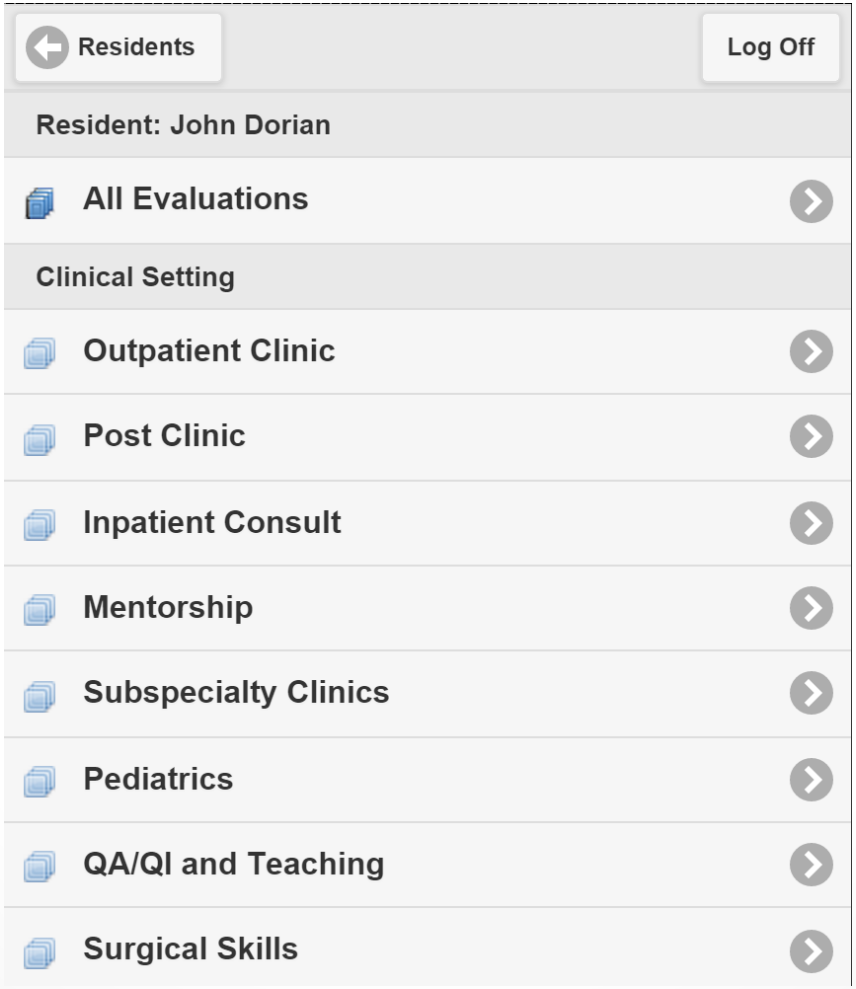
For the Attending Physician

Simple and Intuitive Interface

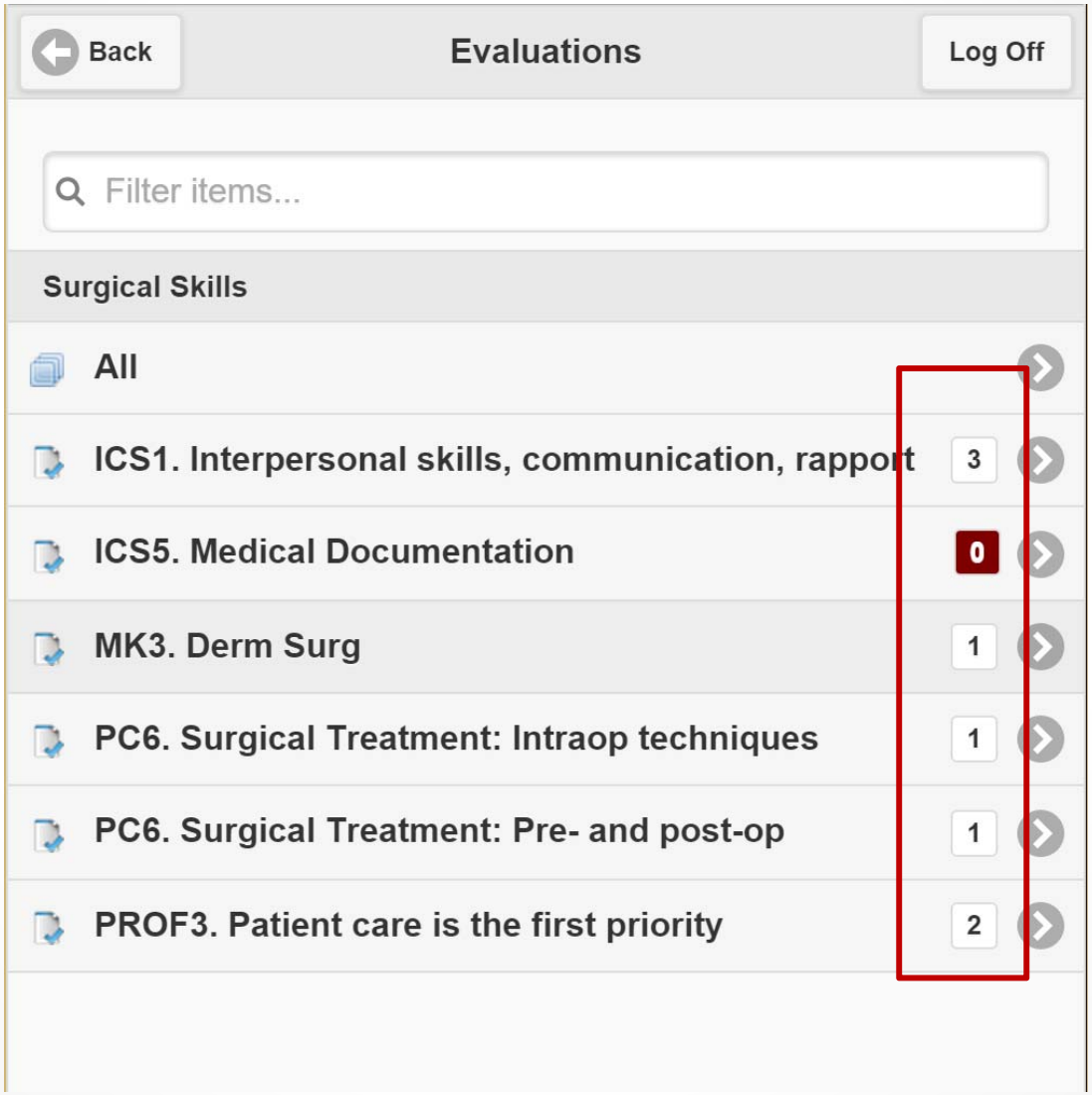
- Instant Search
- Photo Navigation
- Evaluate in 4 Clicks



Evaluations by Setting

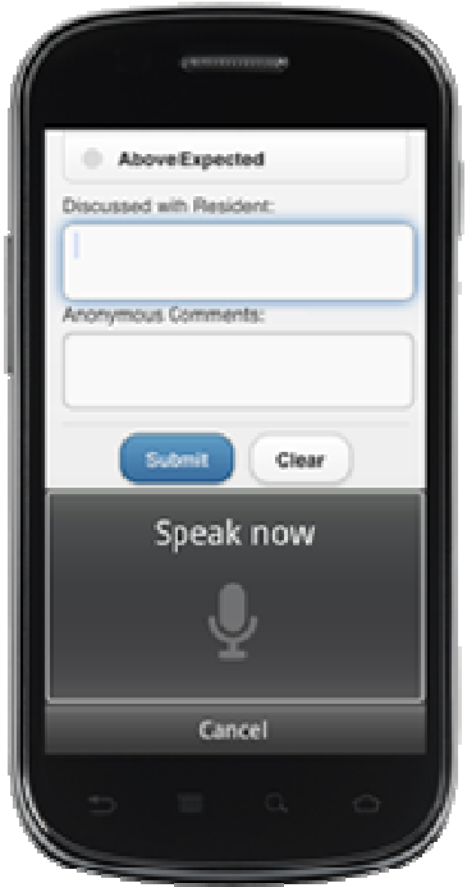


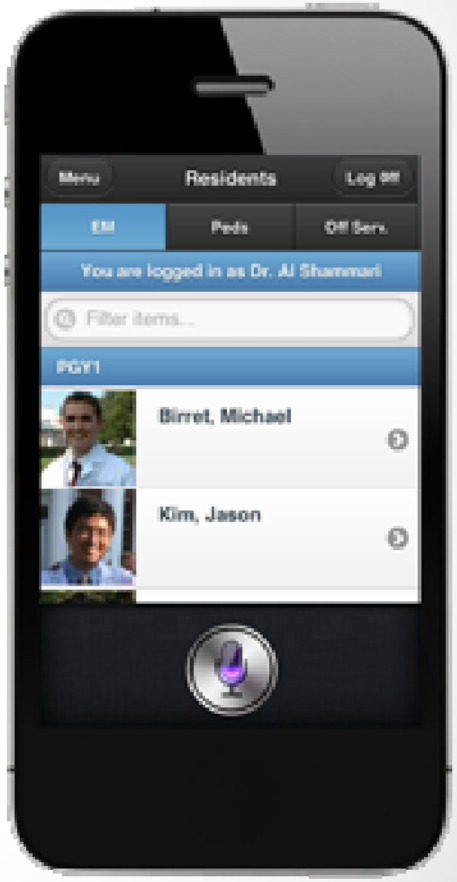
Completion Indicators



Voice Dictation

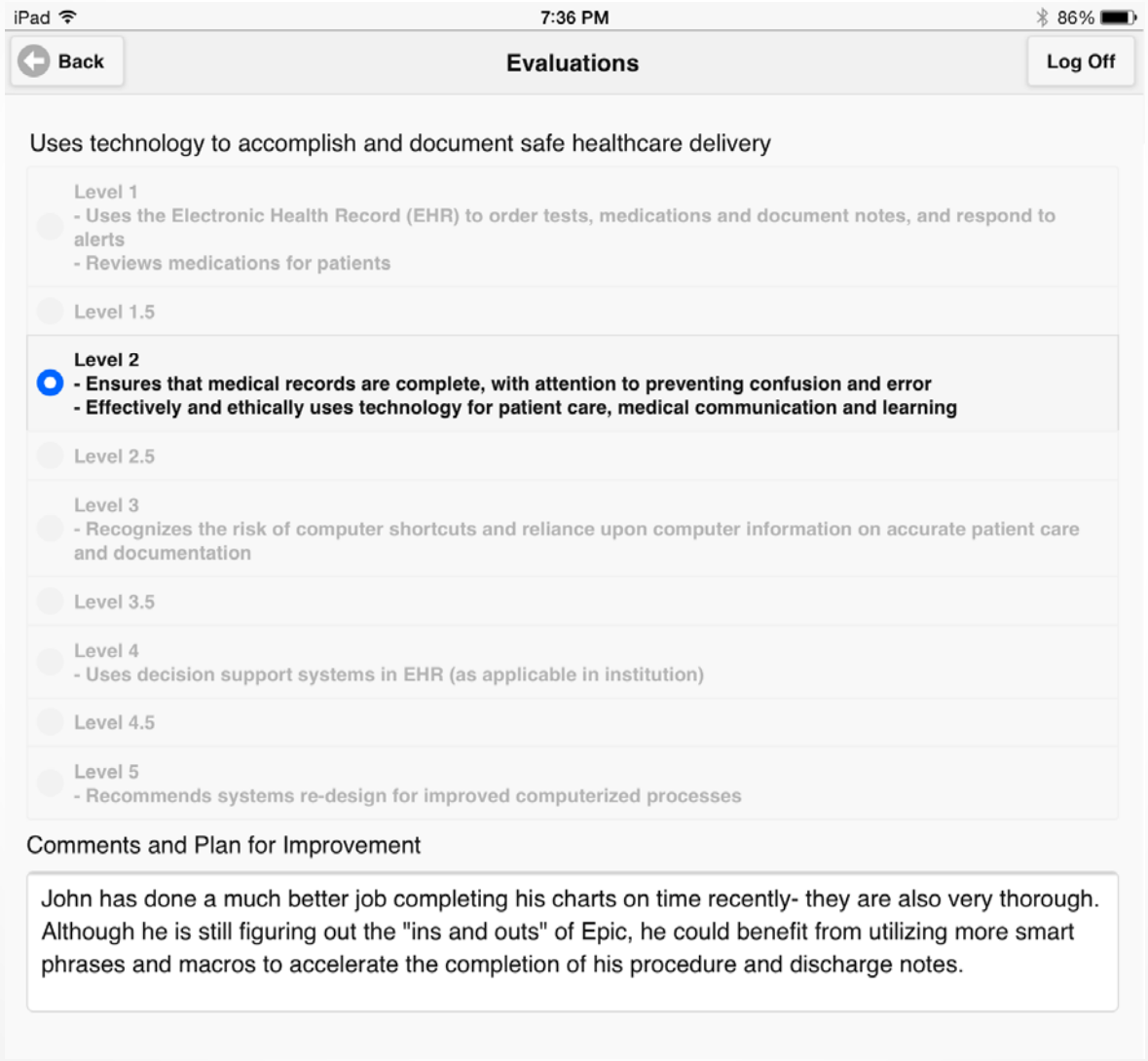
- Compatible with Siri and Google voice dictation





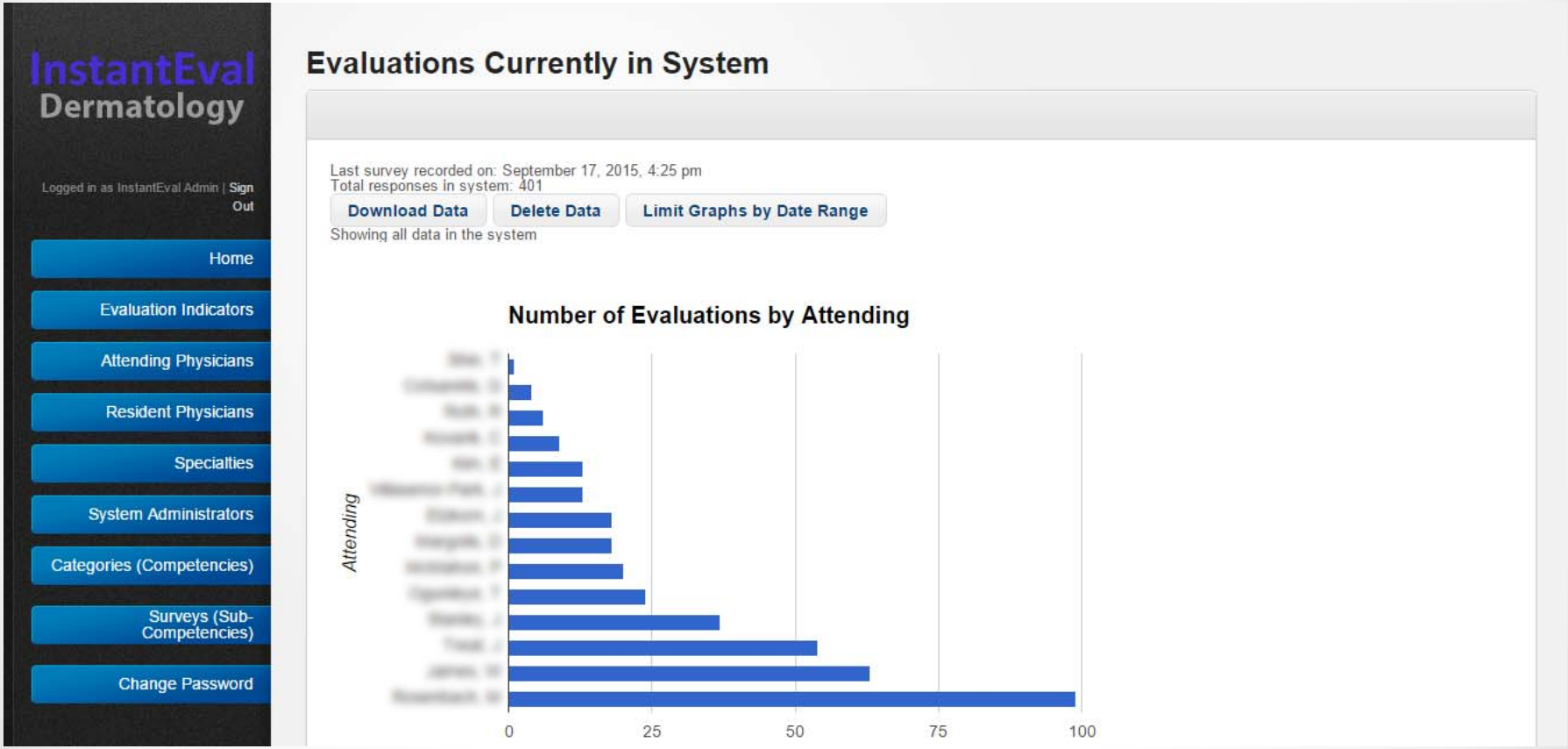
For the Trainees

The "Learn" Module

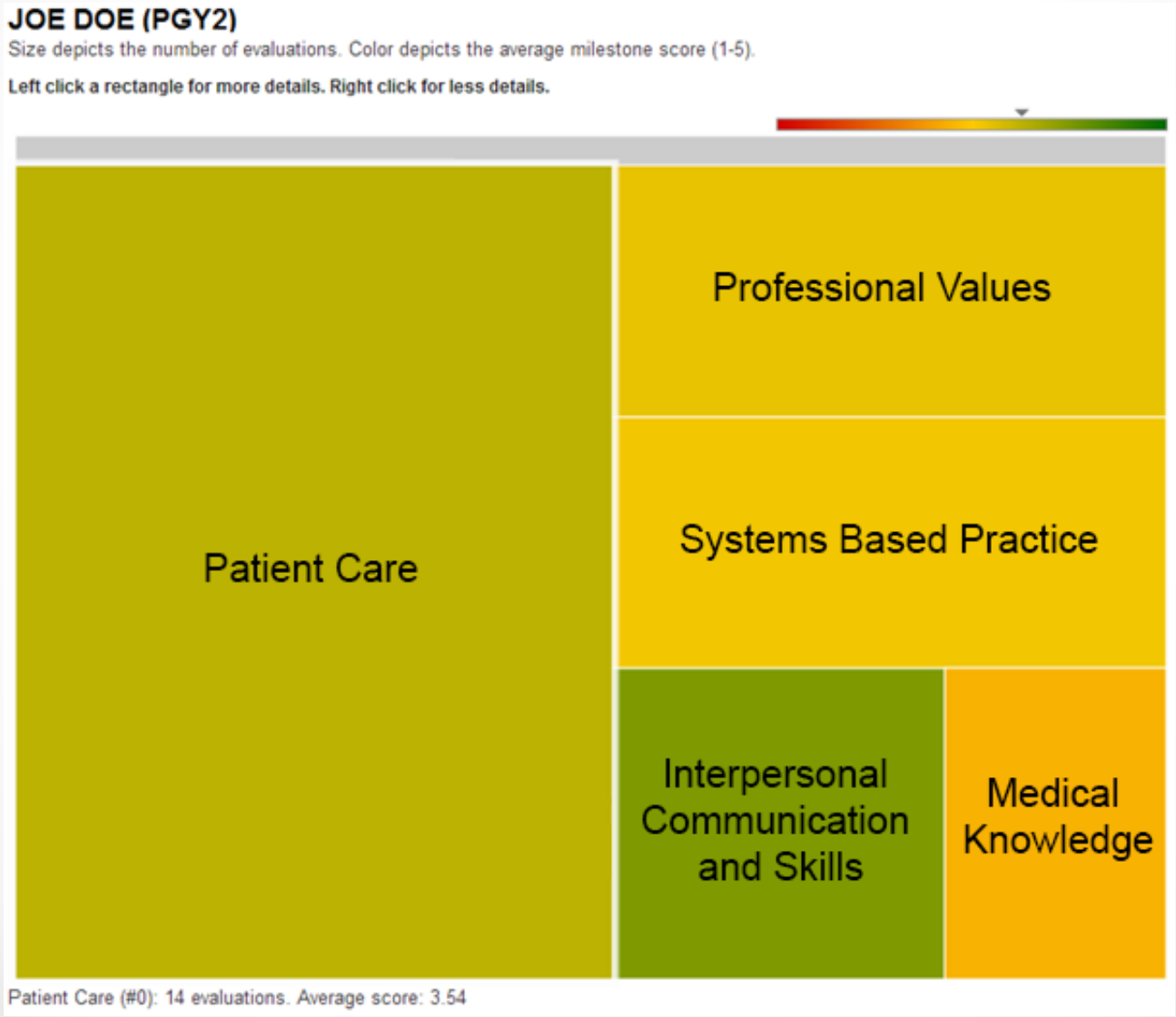


For the Program Director

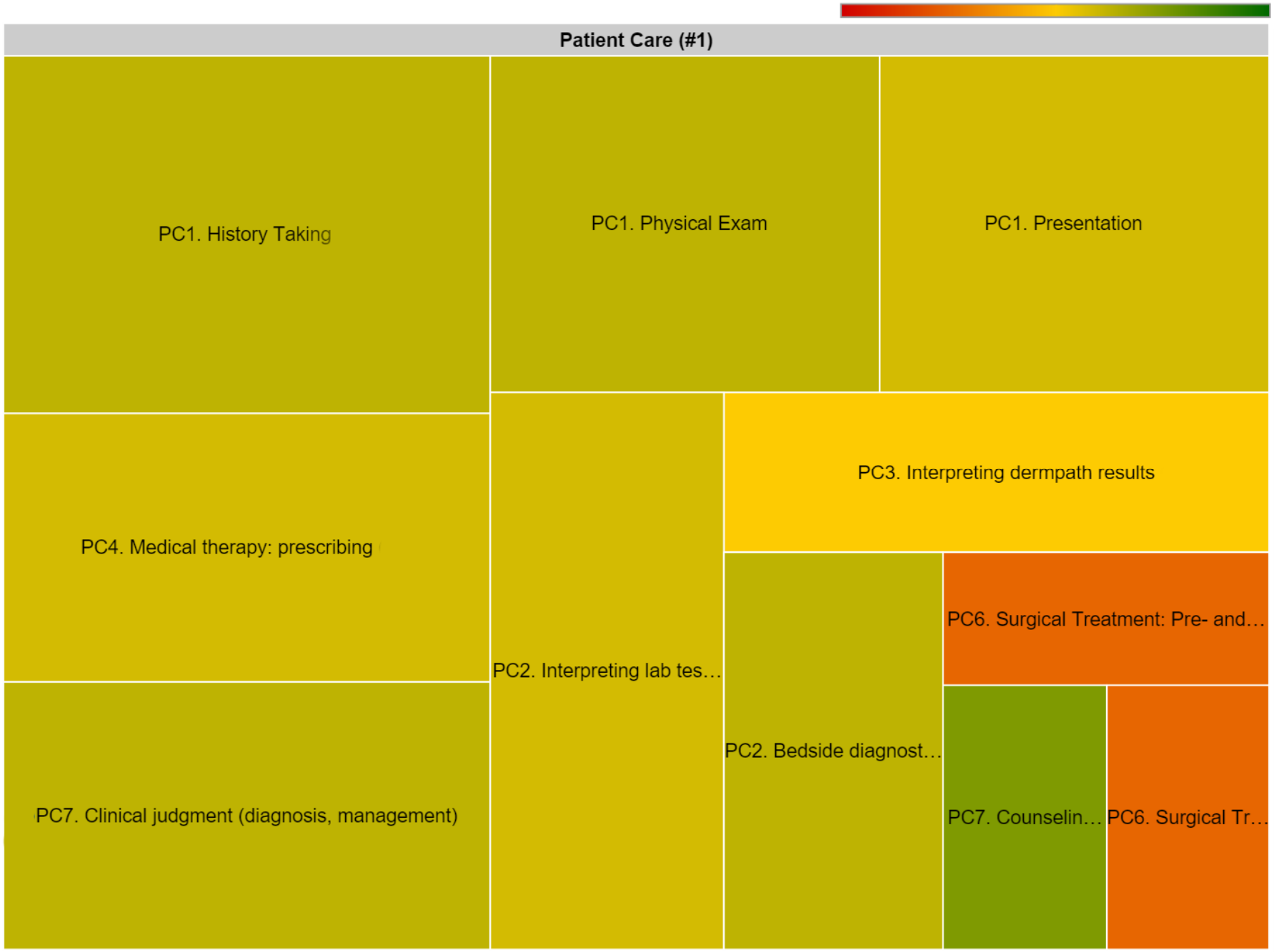
Powerful Administrative Dashboard



Interactive Heat Maps

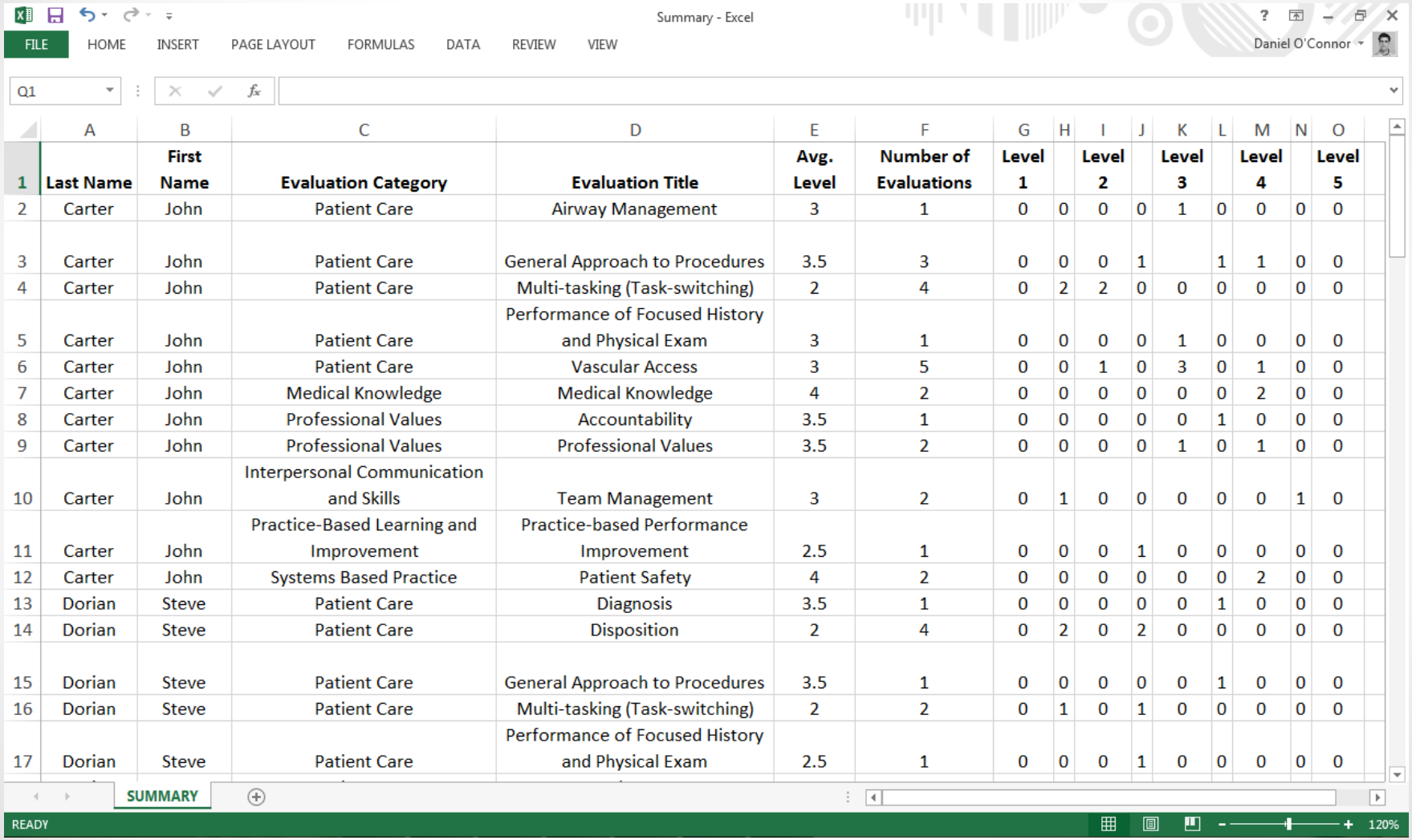


Left click a rectangle for more details. Right click for less details.



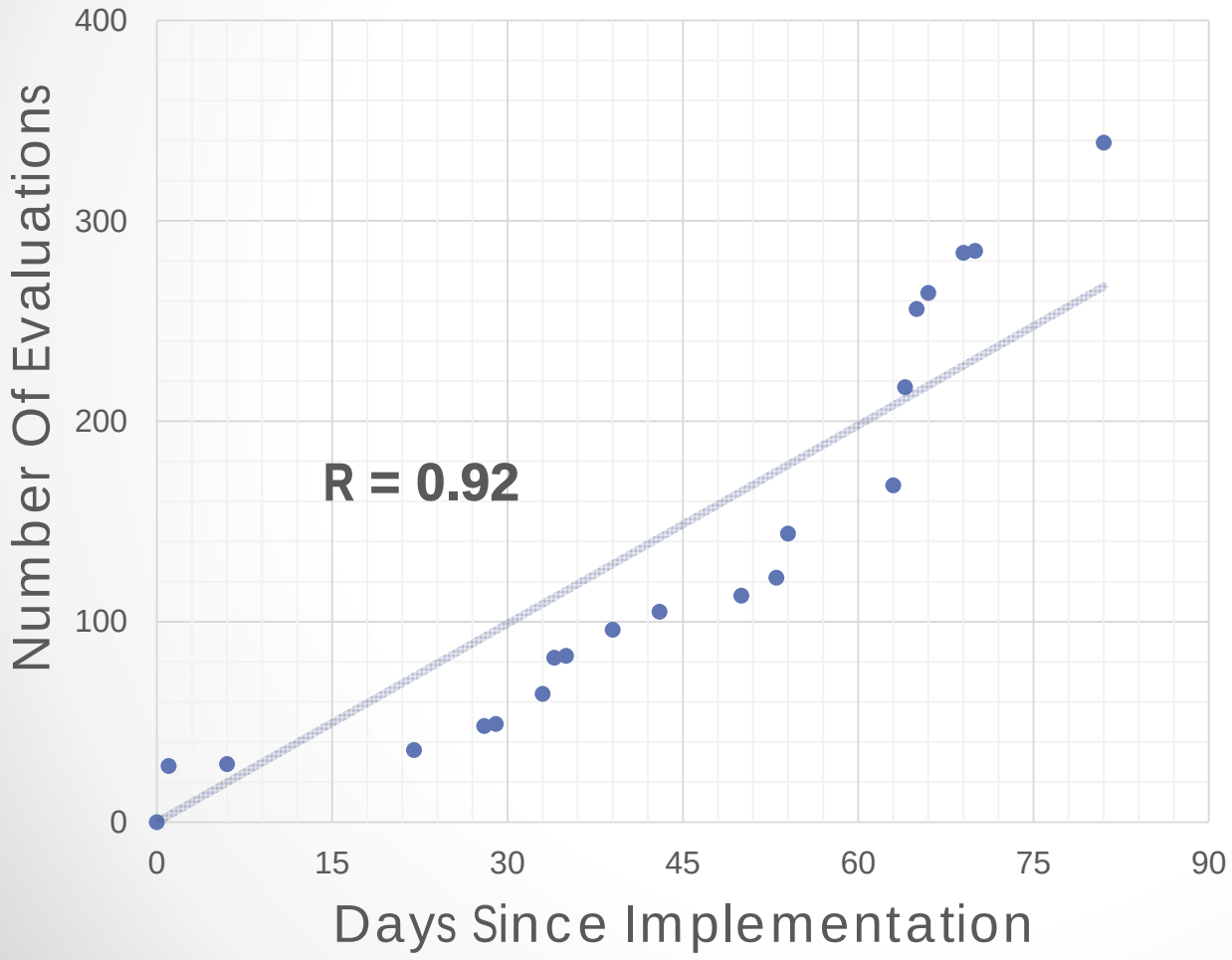
Patient Care (#1): 26 evaluations. Average score: 3.31

Data Export



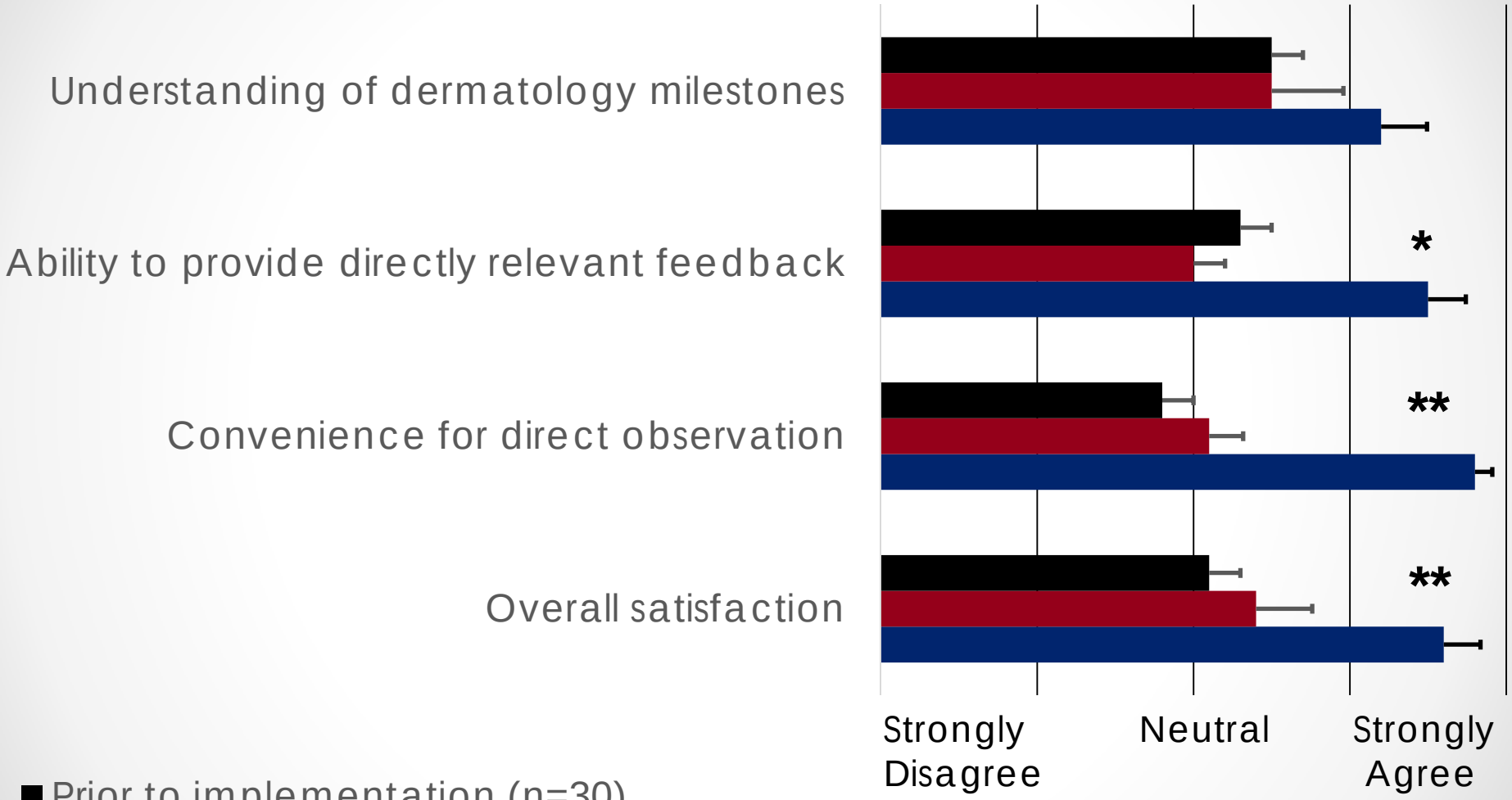
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	**Last Name**	**First Name**	**Evaluation Category**	**Evaluation Title**	**Avg. Level**	**Number of Evaluations**	**Level 1**		**Level 2**		**Level 3**		**Level 4**		**Level 5**
2	Carter	John	Patient Care	Airway Management	3	1	0	0	0	0	1	0	0	0	0
3	Carter	John	Patient Care	General Approach to Procedures	3.5	3	0	0	0	1		1	1	0	0
4	Carter	John	Patient Care	Multi-tasking (Task-switching)	2	4	0	2	2	0	0	0	0	0	0
5	Carter	John	Patient Care	Performance of Focused History and Physical Exam	3	1	0	0	0	0	1	0	0	0	0
6	Carter	John	Patient Care	Vascular Access	3	5	0	0	1	0	3	0	1	0	0
7	Carter	John	Medical Knowledge	Medical Knowledge	4	2	0	0	0	0	0	0	2	0	0
8	Carter	John	Professional Values	Accountability	3.5	1	0	0	0	0	0	1	0	0	0
9	Carter	John	Professional Values	Professional Values	3.5	2	0	0	0	0	1	0	1	0	0
10	Carter	John	Interpersonal Communication and Skills	Team Management	3	2	0	1	0	0	0	0	0	1	0
11	Carter	John	Practice-Based Learning and Improvement	Practice-based Performance Improvement	2.5	1	0	0	0	1	0	0	0	0	0
12	Carter	John	Systems Based Practice	Patient Safety	4	2	0	0	0	0	0	0	2	0	0
13	Dorian	Steve	Patient Care	Diagnosis	3.5	1	0	0	0	0	0	1	0	0	0
14	Dorian	Steve	Patient Care	Disposition	2	4	0	2	0	2	0	0	0	0	0
15	Dorian	Steve	Patient Care	General Approach to Procedures	3.5	1	0	0	0	0	0	1	0	0	0
16	Dorian	Steve	Patient Care	Multi-tasking (Task-switching)	2	2	0	1	0	1	0	0	0	0	0
17	Dorian	Steve	Patient Care	Performance of Focused History and Physical Exam	2.5	1	0	0	0	1	0	0	0	0	0

Penn Usage Data



- **375** evaluations in **90** days
- **18** dermatology residents at Penn
- **30** evaluations submitted per week
- **42** evaluations / resident (6 month projection)

Penn Faculty Survey



* = p<0.01, ** = p<0.001

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