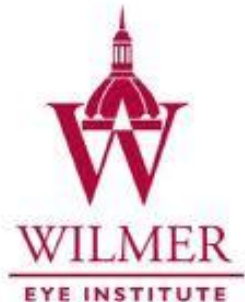


Resident Self-Reported Preparedness for Cataract Surgery

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Financial Disclosures

- None

BACKGROUND

- Cataract surgery is the most commonly conducted surgery worldwide
- Residents require high level training
- Residents have higher cataract surgical complication rates than experienced staff
- **Improving surgical skill and expertise is goal of resident education**
- At Wilmer, we are developing a more structured cataract surgery curriculum for the first year and wanted to assess resident perception of effective teaching methods.
- As part of our needs assessment, we surveyed how residents perceive their current level of preparedness as they started to perform cataract surgery in our program.

HYPOTHESIS

There may be a disconnect between learners and teachers with regards to usefulness in preparing for cataract surgery.

METHODS

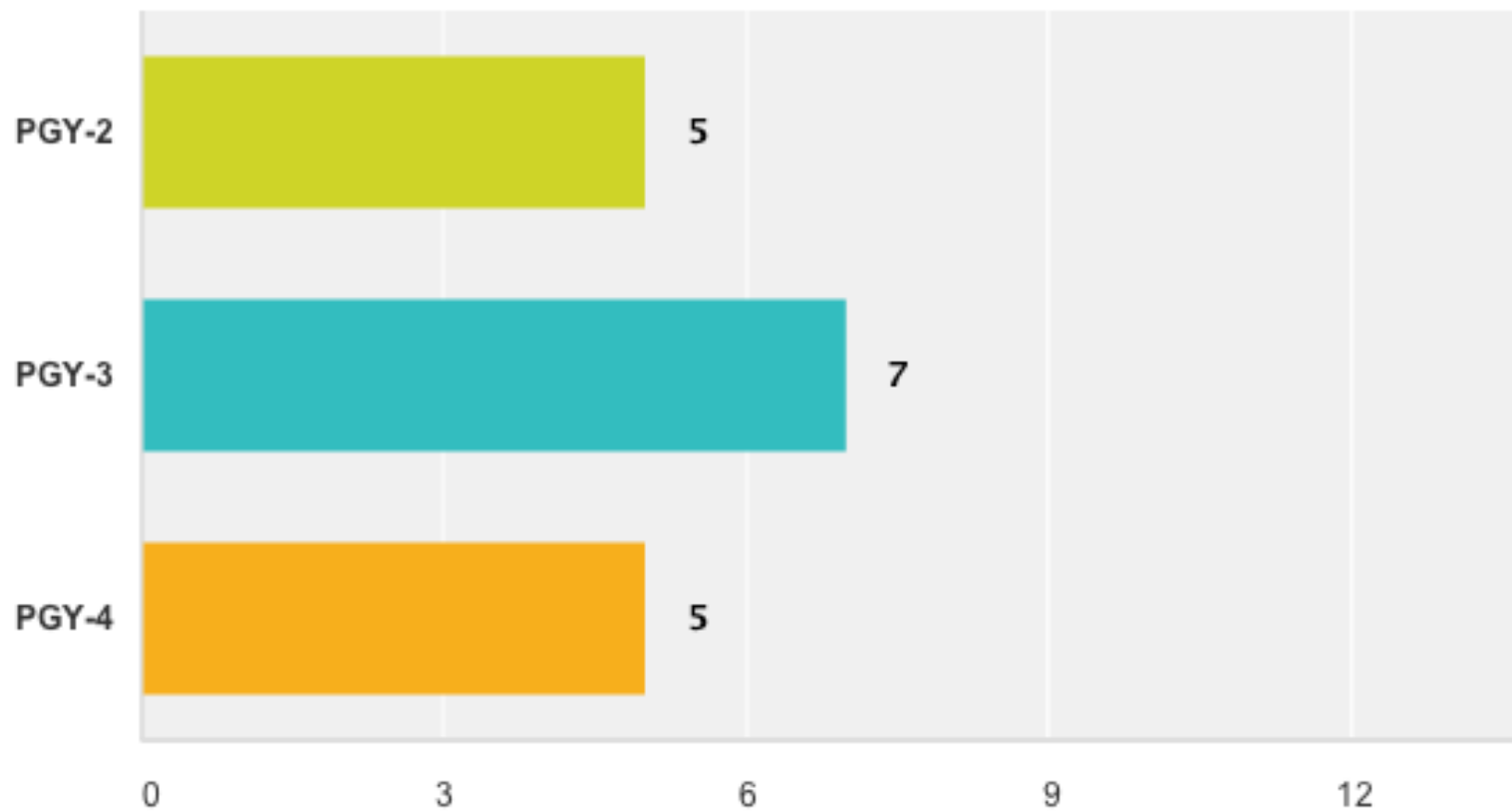
An anonymous electronic 7 question survey was sent to all of our 20 residents.

RESULTS

- 17 residents from all three years completed the survey (85% response rate). Preparation for initial cataract surgeries often included reading the chart and attending discussion. While some residents felt well-prepared to make a paracentesis, for the majority of cataract surgery steps, residents initially felt less prepared. The most highly rated methods of teaching were individual time with faculty in the practice lab/OR and watching videos (resident or other) with an attending.

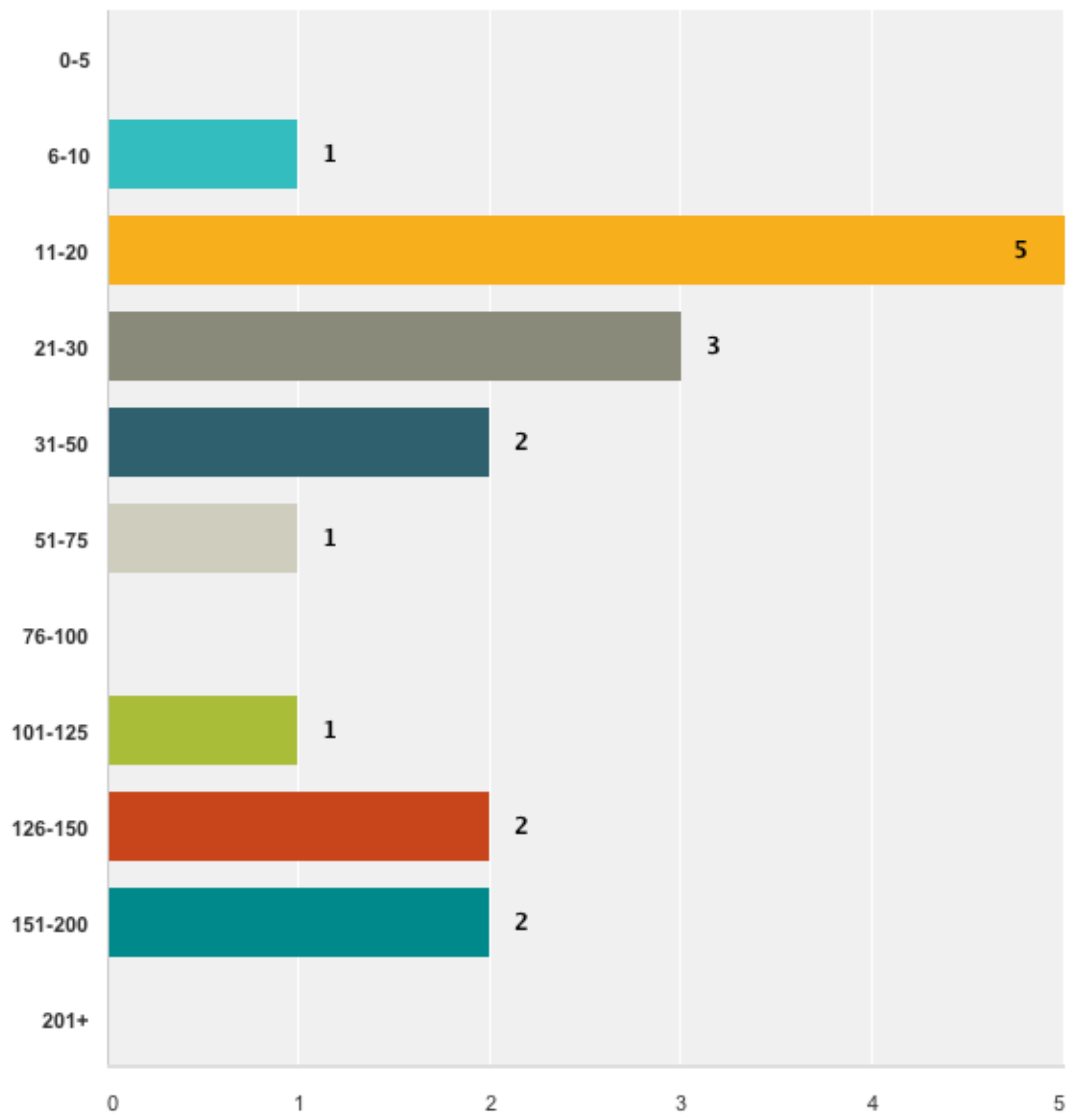
What is your current Level of training?

Answered: 17 Skipped: 0



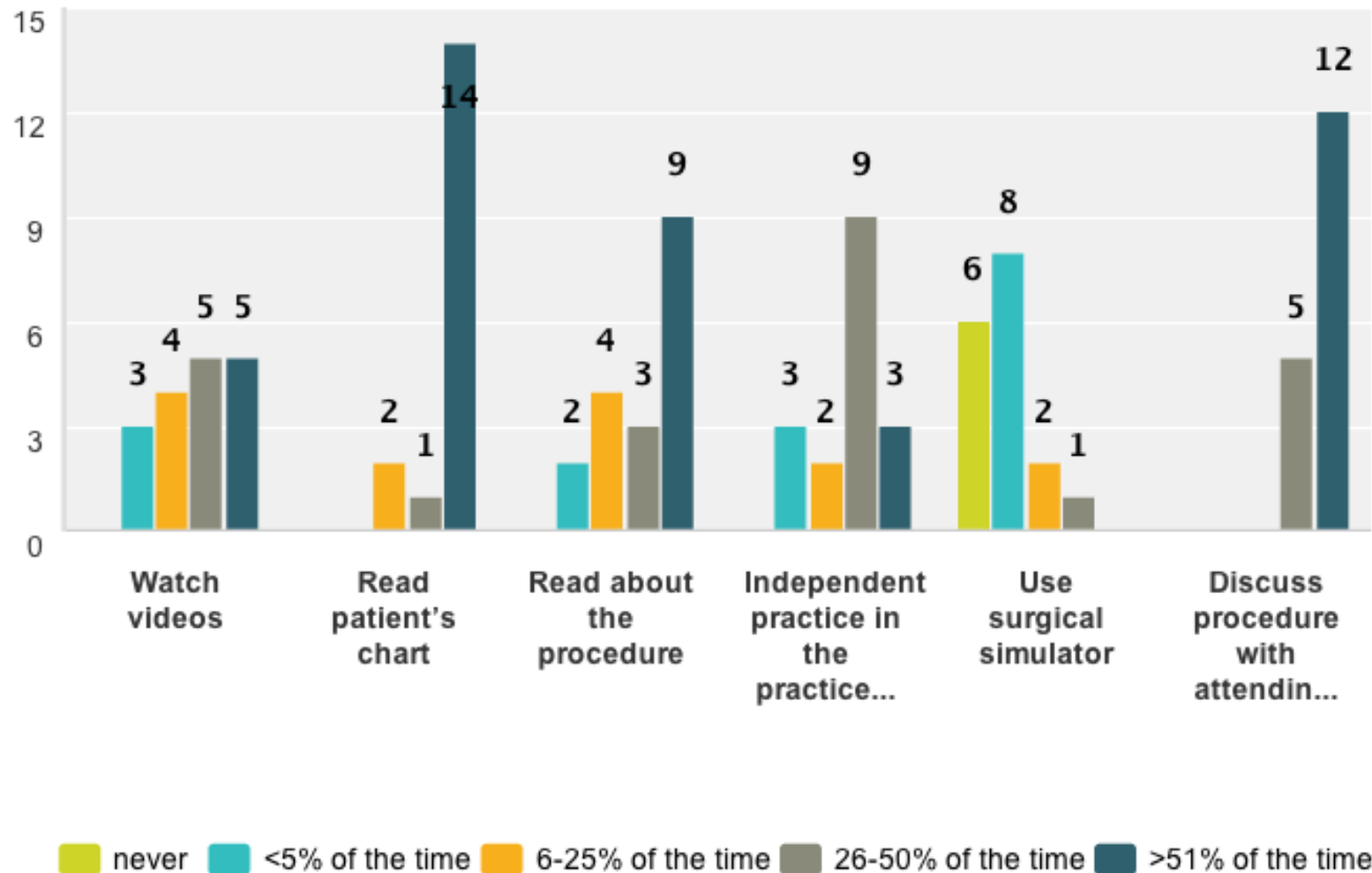
How many cataract surgeries have you performed (in part or in total)?

Answered: 17 Skipped: 0



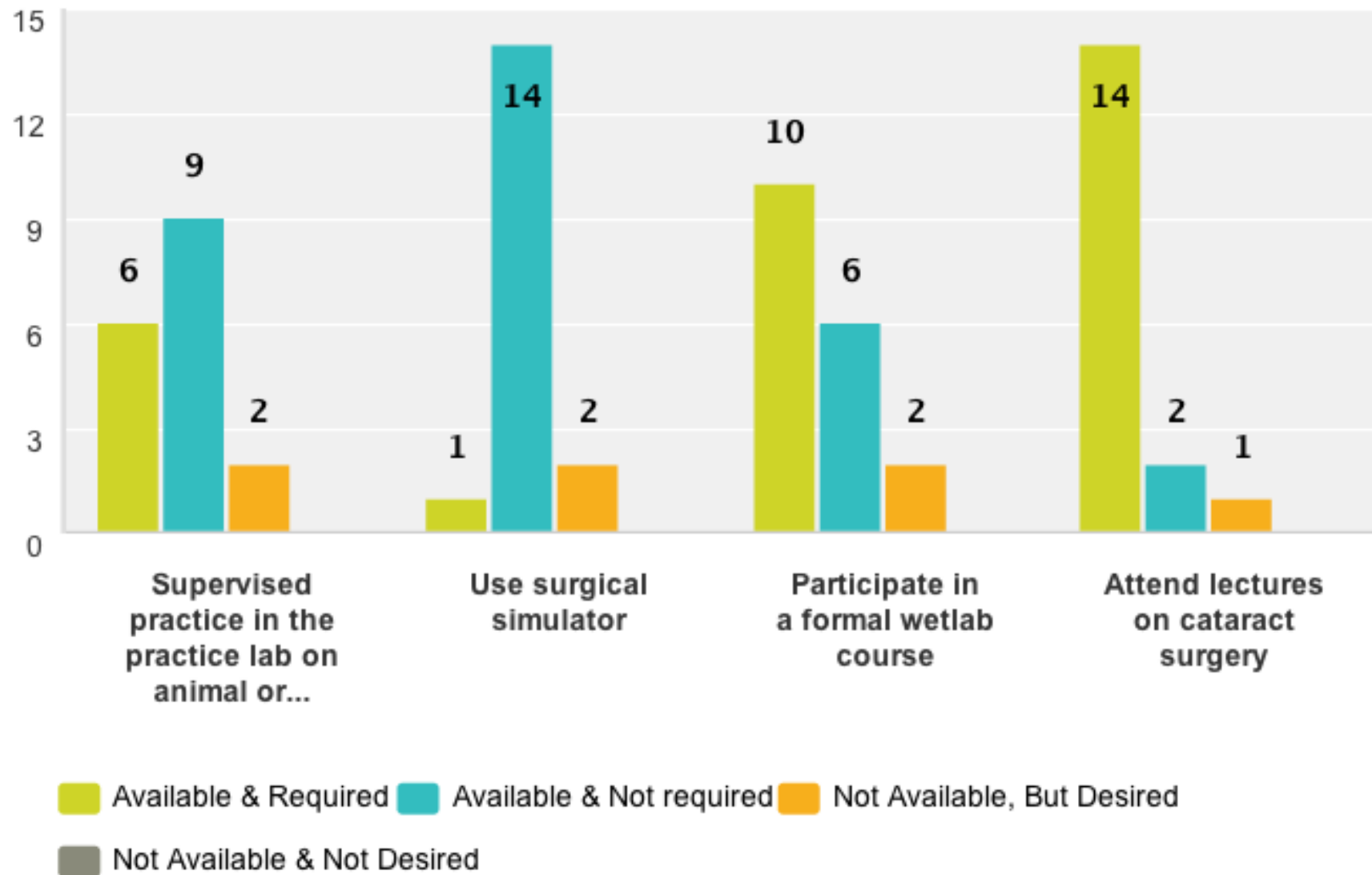
How often did you the do the following activities to prepare for your initial cataract surgeries?

Answered: 17 Skipped: 0



Which of the following are current elements of your residency surgical curriculum?

Answered: 17 Skipped: 0



**How prepared did you feel
the first time you did the
following?**

	Not prepared	A little prepared	Moderately prepared	Very prepared
Sat at an OR microscope and had to focus on the field?	5.88% 1	17.65% 3	47.06% 8	29.41% 5
Made a paracentesis incision (side port) for cataract surgery?	0% 0	17.65% 3	29.41% 5	52.94% 9
Injected through the paracentesis incision (side port)?	0% 0	5.88% 1	41.18% 7	52.94% 9
Made a clear corneal incision (main wound)?	13.33% 2	13.33% 2	40% 6	33.33% 5
Performed a capsulorhexis?	7.14% 1	42.86% 6	35.71% 5	14.29% 2
Did hydrodissection?	7.14% 1	14.29% 2	64.29% 9	14.29% 2
Sculpted with the phacoemulsification handpiece?	7.14% 1	57.14% 8	21.43% 3	14.29% 2
Cracked the nucleus of a cataract?	14.29% 2	57.14% 8	14.29% 2	14.29% 2
Performed quadrant removal of the cataract?	14.29% 2	57.14% 8	14.29% 2	14.29% 2
Performed cortical removal?	6.67% 1	33.33% 5	46.67% 7	13.33% 2
Loaded a single piece intraocular lens?	0% 0	5.88% 1	52.94% 9	41.18% 7
Inserted a single piece intraocular lens into the bag?	0% 0	23.53% 4	41.18% 7	35.29% 6
Sutured a main wound?	0% 0	12.50% 2	56.25% 9	31.25% 5

Rate the value of the following learning methods in building your surgical skills:

	Not helpful	Little helpful	Moderately helpful	Very helpful	Not available at our program
Lecture	0% 0	18.75% 3	56.25% 9	18.75% 3	6.25% 1
Small group case based discussion	0% 0	12.50% 2	68.75% 11	6.25% 1	12.50% 2
Independent reading	0% 0	18.75% 3	56.25% 9	25% 4	0% 0
Interactive computer-based modules	0% 0	18.75% 3	31.25% 5	6.25% 1	43.75% 7
Independent time in a practice lab	0% 0	18.75% 3	43.75% 7	37.50% 6	0% 0
One-on-one interaction with faculty in the practice lab	0% 0	0% 0	12.50% 2	81.25% 13	6.25% 1
One-on-one interaction with faculty in the OR	0% 0	0% 0	6.25% 1	87.50% 14	6.25% 1
Practicing with senior resident in the practice lab	0% 0	0% 0	37.50% 6	56.25% 9	6.25% 1
Time on a simulator	18.75% 3	25% 4	31.25% 5	12.50% 2	12.50% 2
Watching videos of other surgeons by myself	0% 0	31.25% 5	50% 8	18.75% 3	0% 0
Watching my own surgical videos by myself	0% 0	31.25% 5	56.25% 9	12.50% 2	0% 0
Watching videos (my own or other) with an attending	0% 0	6.25% 1	18.75% 3	75% 12	0% 0
Reviewing my own surgical outcomes	0% 0	6.67% 1	60% 9	33.33% 5	0% 0
Courses (CORE, Harvard cataract course, etc)	0% 0	0% 0	46.67% 7	40% 6	13.33% 2

CONCLUSIONS

The purpose of our resident survey was to establish how prepared residents felt as they started cataract surgery and obtain feedback on effective teaching modalities. We hope to expand this survey nationwide to understand how our educational efforts (lectures, wetlab, simulator use, etc) are perceived by the resident learner.

FUTURE DIRECTIONS

- IRB approval obtained for a national survey
- An invitation has been sent out to the AUPO listserv
- Currently gathering responses (84 so far)