



Program & faculty evaluation

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Abstract: Graduate medical education (GME) has shifted its curricula from process-oriented approach to outcomes-oriented models. Program and faculty evaluation are methods by which educational curricula may adjust the teaching and learning environment to meet the needs and fills the gaps in GME. The measurement of educational outcomes is an essential for assessing teaching effectiveness in a shifting health care environment. In addition to trainee, program, and faculty evaluations, annual program review (APR) and evaluation and navigational changes made by the program education committee are essential to maintain effectiveness of an educational curriculum in a contemporary graduate medical training program.

Keywords: Program evaluation; faculty evaluation; program evaluation committee (PEC); annual program review (APR); graduate medical education (GME)

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Introduction

Graduate medical education (GME), also known as residency and fellowship training, is the formal confluence of medical education and care delivery. GME is a critical period in the development of a doctor of medicine. Through successful completion of a GME program, the doctor of medicine evolves from a student to a physician (and surgeon) who is able to practice competently and independently without supervision (1).

GME environment

The health care environment is ever shifting and some argue that the tempo of change is faster than ever. The aging and growing population, exponential growth in medical discovery, increasing reliance on technology, instantaneous communication, and the digitalization of life and health data are pervasive currents that exert pressures on health care delivery systems. GME resides in this environment and must continually adapt to run concurrent with changes in health care. In comparing physicians of a few decades ago to those entering practice today, a stark difference in the necessary skill set is apparent. Today's

physicians are directed to be well equipped to rapidly access medical information, health data, social resources and practice management tools while focusing on issues such as systems thinking, practice improvement, population health, health equity, and inter-professional collaboration and personal resilience and well-being. In order to foster a health care system and learning environment that results in training physicians who provide reliable, high quality, affordable, patient-centered care, GME curricula must adapt along with the forces that evolve health care. This means that educational curricula must continually adjust to a changing health care environment. In order for an educational curriculum to remain relevant today, the training program must repeatedly receive feedback on trainee, faculty and program performance and outcomes and feed forward navigational changes in response to the feedback. Much like a jet continually records and receives feedback from the environment, airplane conditions and pilot behavior to navigate safely and efficiently through a variety of influential elements, GME is increasingly using performance data to ascertain and adjust the trajectory of trainee development with the aim of producing skilled, safe and effective physicians and surgeons who serve the public.

For decades, performance evaluation relied primarily on

scrutinizing the individual trainee and driving improvement in their performance primarily through the individual. Although, attention to the performance of the individual trainee is central in the development of a competent physician, our improved understanding of complex systems, such a health care, requires GME programs to scrutinize and assess programmatic and institutional factors that influence the performance of a trainee or cohort of trainees. In recent years, education and training programs have been evolving to adapt to these changes. In order to continually improve GME support and direction from broader systems is often necessary to set standards for GME across educational institutions.

Accreditation council for GME

In the United States, training programs are largely accredited by the Accreditation Council for Graduate Medical Education (ACGME). The ACGME is a not-for-profit organization that sets standards for US GME (residency and fellowship) programs and the institutions that sponsors them. The ACGME renders accreditation decisions based on compliance with specialty specific program requirements. Accreditation is achieved through a voluntary process of evaluation and review based on published accreditation standards and provides assurance to the public that hospitals and training programs meets the quality standards (Institutional and Program Requirements) of the specialty or subspecialty practice. ACGME accreditation is overseen by a review committee made up of volunteer specialty experts from the field that set accreditation standards and provide peer evaluation of hospitals as well as specialty and subspecialty residency/fellowship programs. Accreditation determinations are made based on a review of information about trainee performance as well as the training program and its educational environment. More recently an initiative to accredit program outside the United States is being developed through the international section of the ACGME (iACGME).

Program directors of residency and fellowship programs are responsible not only for determining whether individual trainees have met educational goals but also for ensuring the quality and environment of the training program is conducive for educating the physician. The program director is therefore reliant on information about faculty performance and assessment of the training program environment. Since each training program has specialty and

institution specific characteristics, program evaluation must have sufficient rigor to satisfy accreditation requirements yet be flexible and responsive to the uniqueness of individual educational programs (1-5).

The ACGME requires that residents and faculty evaluate the training program at least annually and that the evaluation results be used at the Annual Program Review (APR) meeting to assess the program's performance and set future goals. Typically, each institution has a GME committee that also reviews programs within their institution as for method for identifying programs requiring aid or those demonstrating exemplary practices.

Program evaluation

Program evaluation is a systematic collection of information about a broad range of topics for use by specific people for a variety of purposes. In the case of a GME, program evaluation aims to assess how well a residency or fellowship program is educating doctors to become competent physicians (and surgeons) who are able to practice independently and without supervision. Each program evaluation system has a collection of major stakeholders. In the setting of GME, the major stakeholders are patients, trainees, faculty, institution, and public well-being. Presently, all GME programs systematically collect an array of quantitative and qualitative information regarding, trainee performance, their graduate performance to national standards, educational experiences, faculty teaching and mentoring, curriculum oversight and reviews, and institutional resources. All data collection, interpretation and implementation of adjustments must be directed towards improving the experiences of the stakeholders. Program evaluation in GME engenders goals such as determining how to improve the educational program; identifying what needs replacement, refinement, or elimination; constructing steps to implement change and; and measuring outcomes and reassessing effectiveness (1-5).

As noted above, all training programs have unique attributes; therefore evaluations must be tailored to each environment so that areas specific to the training program are addressed. Although common inquiry points are present with program evaluation, a universal program evaluation form cannot be applied to all programs and remain pertinent. In general, program evaluations should align with the overall goals and objectives of the program. Each program will consider which of its objectives and outcomes would be useful to evaluate or measure. Some

of the educational areas to be surveyed include didactic experiences, clinical rotations, training sites, procedural or surgical experiences as well as the access to educational resources and a clinical realm conducive to delivery effective care. In addition, assessment of faculty engagement in education, opportunity for scholarly activity, institutional support and availability of the program director and coordinator or other educational leaders are important. Typically, both trainees and faculty are surveyed to express their view of the educational program. Program evaluation should allow for collection of open-ended responses about program strengths, areas of development and deficiencies. *Figure S1*: Casey Eye Institute—Oregon Health & Science University Program Evaluation form delivered through electronic resident management system (MedHub: <http://www.medhub.com/>). Results are collated and anonymized.

In an effort to derive meaningful feedback, the program must emphasize the confidential nature of the responses. The program must also assure the anonymity of the respondents. Currently, programs use web-based resident management systems to deliver surveys. The resident management systems are designed to anonymize respondents (particularly when they are trainees), collate responses, and generate reports that represent the collective trainee and faculty collective sentiment about the educational experience at a training program and serves as a feedback to the program leadership regarding the educational environment.

Faculty evaluation

Evaluation of faculty performance has tremendous influence on the educational environment of a training program. Faculty evaluations assist the faculty and program administration to identify and encourage excellence in education by faculty. Faculty evaluations help in not only developing trainees but also developing faculty to become effective educators. A positive approach to faculty evaluation is essential. Evaluation reports that focus on areas of strengths and areas for improvement can provide a basis for the long-term development of effective educators, help in their promotion and tenure as well as career fulfillment. Typically, the dean, department chair, division chief and/or promotion and tenure committee have the responsibility for oversight of this process. Evaluation should determine the extent to which the work of an individual faculty member contributes to the mission of the academic institution and the assigned unit. Therefore, faculty evaluation should be based on an explicit statement

of expectations within the department or program much like goals and objectives are important in resident and fellowship training programs. Faculty evaluation specific to educational activities should be incorporated within the institutions web-based resident management system in order to ensure confidentiality and anonymity of respondents and derive allow for collation of data and generation of reports. *Figure S2*: Casey Eye Institute—Oregon Health & Science University Faculty Evaluation form delivered through electronic resident management system (MedHub: <http://www.medhub.com/>). The form is completed by trainees, there respondents are masked, the results are collated.

ACGME resident/fellow and faculty surveys

In addition to individual programs delivering their own evaluation forms to trainees and faculty, annually the ACGME delivers both a resident/fellow survey and a faculty survey to all residents and core faculty at accredited training institutions across the country. The ACGME's resident/fellow and faculty surveys are an additional methods used to monitor graduate medical clinical education and provide early warning of potential non-compliance with ACGME accreditation standards. All specialty and subspecialty programs (regardless of size) are required to participate in these surveys each academic year. When programs meet the required compliance rates for each survey, reports are provided that aggregate their survey data to provide an anonymous and comparative look at how that program compares against national, institutional, and specialty averages (6).

ACGME resident/fellow survey

All ACGME-accredited specialty and subspecialty programs with active residents (regardless of program size) are surveyed each academic year. The ACGME Resident/Fellow survey contains questions about the clinical and educational experiences within the trainees' program (7). The survey is only completed by residents/fellow. Program administration does not have access to the survey or to any individual resident or fellow's responses. When at least 70% of a program's residents/fellows have completed the survey or at least four residents/fellows have been scheduled, reports are made available to the program annually. For those programs with fewer than four residents/fellows scheduled for the survey who meet the 70% compliance rate, reports are only be available on a multi-year basis after

ACGME Resident Survey Content Areas

"All information you provide about your current program will be saved anonymously. No individual responses will be given to your program, your program director, your faculty, your institution, or the Residency Review Committee. The summarized data will be a part of the information considered by the accreditation site visitor and the Residency Review Committee for the accreditation of the program and sponsoring institution. Summary data from this survey may be used to inform ACGME policy decisions at the national level. Summary data and other information about programs, institutions, resident physicians or resident physician education which is not identifiable by person or organization may be published in a manner appropriate to further the quality of GME and consistent with ACGME policies and with law." http://www.acgme.org/Portals/0/ResidentSurvey_ContentAreas.pdf

Duty Hours	
<i>Areas in which ACGME rules were broken:</i>	<i>Reasons for exceeding duty hours (if noted):</i>
80 hours per week	Patient needs
1 day free in 7	Paper work
In-house call every 3rd night	Additional educational
8 hours between duty periods (differs by level of training)	Cover someone else's work
Continuous hours scheduled (differs by level of training)	Night float
Night float duty no more than 6 nights	Schedule conflict
	Other
Faculty	
Sufficient supervision	Faculty and staff interested in residency education
Appropriate level of supervision	Faculty and staff create environment of inquiry
Sufficient instruction	
Evaluation	
Able to access evaluations	Satisfied that evaluations of program are confidential
Opportunity to evaluate faculty members	Satisfied that program uses evaluations to improve
Satisfied that evaluations of faculty are confidential	Satisfied with feedback after assignments
Opportunity to evaluate program	
Educational Content	
Provided goals and objectives for assignments	Education compromised by service obligations
Instructed how to manage fatigue	Supervisors delegate appropriately
Satisfied with opportunities for scholarly activities	Provided data about practice habits
Appropriate balance for education	See patients across variety of settings
Resources	
Access to reference materials	Provided a way to transition care when fatigued
Use electronic medical records in hospital	Satisfied with process to deal with problems and concerns
Use electronic medical records in ambulatory setting	Education compromised by other trainees
Electronic medical records integrated across settings	Residents can raise concerns without fear
Electronic medical records effective	
Patient Safety/Teamwork	
Culture reinforces patient safety responsibility	Tell patients of respective roles of faculty and residents
Work in interprofessional teams	Participated in quality improvement or patient safety activities
Effectively work in interprofessional teams	Information lost during shift changes or patient transfers
Overall evaluation of program	
Overall evaluation of the program	

Figure 1 ACGME Resident Survey Content Areas (7).

at least 3 years of survey reporting, but may contain up to 4 years of data. The ACGME Resident/Fellow Survey Content Areas are listed in *Figure 1* (7).

ACGME faculty survey

The ACGME requires faculty members to complete annually an online survey that contains questions about faculty

members' experiences working within their program, as well as their interactions with the residents/fellows training. The survey is only to be completed by identified faculty members (6,8). The program administration does not have access to the survey or to any responses provided by individual faculty members. When at least 60% of a program's faculty members have completed the survey and at least three faculty members have responded. Programs with fewer than three faculty

ACGME Faculty Survey Question Content Areas

“Summarized data will be a part of the information considered by the Review Committee for accreditation of the program and sponsoring institution. Summary data about the faculty and other information about programs, institutions, fellows, resident physicians, or resident physician education which is not identifiable by person or organization may be published in a manner appropriate to further the quality of GME and consistent with organizational policies. Faculty will be asked questions in the following areas, and will be asked to base their responses on experiences in the current academic year”

<http://www.acgme.org/Portals/0/ACGME%20FacultySurvey%20QuestionContentAreas.pdf>

Supervision and Teaching

Sufficient time to supervise trainees
 Trainees seek supervisory guidance
 Interest of faculty and Program Director in education
 Evaluation after rotations and educational assignments
 Faculty performance evaluated

Educational Content

Worked on scholarly project with trainees
 Trainees see patients across a variety of settings
 Trainees receive education to manage fatigue
 Effectiveness of graduating trainees
 Milestone achievement of graduating trainees

Resources

Program provides a way for trainees to transition care when fatigued
 Trainees' workload exceeds capacity to do the work
 Satisfied with faculty development to supervise and educate residents
 Satisfied with process to deal with trainees' problems and concerns
 Prevent excessive reliance on trainees to provide clinical service

Patient Safety

Information lost during shift changes or patient transfers
 Tell patients of respective roles of faculty and trainees
 Culture reinforces responsibility for patient safety
 Trainees participate in quality improvement or patient safety activities

Teamwork

Trainees communicate effectively when transferring clinical care
 Trainees effectively work in interprofessional teams
 Program effective in teaching teamwork skills

Overall evaluation of program

Figure 2 ACGME Faculty Survey Question Content Areas (8).

members participating in the survey should reach a 100% response rate. Review Committees closely monitor programs' response rates and review programs that fail to meet this requirement. Reports are made available to the training program annually. The ACGME Faculty Survey Content Areas are listed in *Figure 2* (8).

The Program Evaluation Committee (PEC)

In past years, carrying out the necessary changes to improve the educational program was commonly a practice solely for the program director. In recent years, GME programs have increasingly relied on PEC to actively participate in making the necessary changes to the educational environment.

Presently, the ACGME has established guidelines for the PEC and the presence of a PEC is a requirement for accredited GME programs (1-5,9).

The goal of the PEC is to annually make navigational changes to improve the educational. Current ACGME guidelines indicate that the program director appoints the PEC members. The group may be comprised of the entire faculty but more often it is made up of a small group of faculty and/or associate program directors. At minimum, the PEC must be composed of two faculty members. The program director may be one of those two faculty members. At least one trainee must be a PEC member. In smaller programs or in programs where no trainee is enrolled in a particular year, the PEC may not include a trainee.

The absence of any actively enrolled trainee is the only instance when the absence of the trainee PEC member is acceptable. Because of the many configurations of programs and support structures, there are no requirements on how the PEC is to carry out its duties. Each program is free to develop a meeting schedule or assign responsibilities as it sees best. Other than the program director appointing members, the relationship between the program director and the PEC is for each program to decide. Some PECs may be active all year long, while others may rely on the program director to implement improvements.

A written description of the committee and its member responsibilities must be available and understood to participants. An essential role of the PEC is to participate actively in efforts to improve the educational curriculum. A key aspect of the PEC is not to track individual trainee performance. This key aspect differentiates the PEC from the Clinical Competency Committee (CCC) whose role is to track individual trainee's performance vis-à-vis training specific milestones.

The PEC actively participates in developing, implementing, and evaluating educational activities of the program; reviewing and making recommendations for revision of competency-based curriculum goals and objectives; addressing areas of non-compliance with ACGME standards; and reviewing the program annually using evaluations of the program, faculty, and the trainees. Although the PEC is required to meet at least annually, it may certainly meet more often. The PEC also monitors aggregate trainee performance, faculty development, graduate performance on the certification examinations and program quality. In order to ascertain program quality, trainees and faculty must have the opportunity to evaluate the program confidentially and in writing at least annually and the program must use the results of residents' and faculty members' assessments of the program together with other program evaluation results to improve the program. Although the PEC has the responsibility is to address areas of non-compliance with minimum ACGME standards, the PEC is encouraged to improve and innovate the program curriculum to go beyond the minimum.

APR

After reviewing the program, the PEC prepares a written summary of the PEC's findings and conclusions and a plan of action to document initiatives to improve performance. The PEC will delineate how activities will be measured and

monitored. The synthesis of findings, recommendations for change and implementation of action plans are presented as an annual program evaluation (APE) document. Such a document tracks ongoing improvements of the program and helps to serve as a navigational plan and a verification of progress improvement. The action plan is reviewed and approved by the teaching faculty during and APR to ensure there is widespread agreement and support and is documented in meeting minutes. While APE does not have to be submitted to the ACGME each year, it is customary for the training program's office of GME will expect an APE report from the APR.

For instances, where the PEC is unable to implement changes on their own, working with the institutional GME committee, department chair, and/or designated institutional official (DIO) may be necessary. A common phenomenon with committee dynamic is that while improvements are suggested, they are not necessarily always implemented. The reasons for lack of implementation are diverse in a group activity; however, a key responsibility of the PEC is to ensure that momentum toward improvement in education continues. The PEC should keep a record of its decisions; including what suggested improvements should be explored. Practical limitations or inadequate resources may limit implementation of innovative ideas. For those areas where there is a decision for a change, there should be a plan to make sure the result was positive. Simply asking the trainees and faculty members might be sufficient; but it might be as complex as measuring the impact of the change on patient care outcomes. This information should be included in the APE, which is then used by the program to identify areas for improvement and track the efforts of the program to effect changes. The PEC must maintain that suggestions for improvement are not forgotten even though suggestions for program improvement may require several years to accomplish.

Conclusions

GME has shifted its curricula from process-oriented approach to outcomes-oriented models. Program and faculty evaluation are methods by which educational curricula may adjust the teaching and learning environment to meet the needs and fills the gaps in GME. The measurement of educational outcomes is an essential for assessing teaching effectiveness in a shifting health care environment. In addition to trainee, program, and faculty evaluations, APR and evaluation and navigational changes

made by the program education committee are essential to maintain effectiveness of an educational curriculum in a contemporary graduate medical training program.

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Footnote

Conflicts of Interest: The author has no conflicts of interest to declare.

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Annual Program Evaluation By Faculty

Evaluator: _____

Evaluation of: _____

Date: _____

1. Regarding the overall design of the rotations:

	The program is ideally balanced	There is not enough of....	There is too much of....	
a. Balance of subspecialties including comprehensive ophthalmology	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Comments:				

	Good-minor tweaks are all that are necessary	There is too much independence	There is too much observational experience	
b. Balance of independence vs. supervision	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Comments:				

	Good-minor tweaks are all that are necessary	There is too much service	There is too much passive learning	
c. Balance of service vs. education	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Comments:				

	Good-minor tweaks are all that are necessary	Needs Improvement with major changes	Is optimized, so try no to change anything	
d. Overall quality of clinical education	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Comments:				

2. Regarding the recruitment process (interviews, ranking, match etc):

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
a. We are recruiting the kind of residents that we want to train;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
b. The process represents our institution well	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. Regarding the lectures and conferences:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
a. The lectures and conferences effectively impart key knowledge and skill to residents:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
b. The lectures and conferences are effective in creating life-time learners:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
c. The lectures and conferences prepare residents to be leaders in the field (sufficient opportunities to present, ask questions, teach, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. Regarding the resident scholarly activity:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
a. Residents have adequate opportunity and guidance for scholarly activities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
b. Residents have adequate incentive and support for scholarly activities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5. Regarding resident preparedness:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
a. The residents are well prepared to enter independent comprehensive ophthalmology practice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
b. The residents are well-prepared to enter fellowship	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
c. The residents are well-prepared to enter academic practice	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
d. The residents are well-prepared for patient safety and continuous quality improvement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6. Regarding faculty development

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
a. The program gives adequate opportunities to develop as a teacher:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
b. The program gives adequate exposure to residents	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
c. The faculty are competent to lead patient safety initiatives and continuous quality improvement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

7. Regarding the clinical sites:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
a. OHSU provides essential and high quality clinical education experience	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
b. VA provides essential and high quality clinical education experience	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
c. Legacy Good Sam provides essential and high quality clinical education experience	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
d. Legacy Emanuel provides essential and high quality clinical education	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8. What is your overall evaluation of the residency program?

9. Please list 2 strengths of the program

10. Please list 2 weaknesses of the program

11. Please list specific and achievable suggestions for improvement, especially related to questions above

Figure S1 Casey Eye Institute—Oregon Health & Science University Program Evaluation form delivered through electronic resident management system (MedHub: <http://www.medhub.com/>). Results are collated and anonymized.

Resident Evaluation of Faculty (Anonymous)

Evaluator: _____

Evaluation of: _____

Date: _____

1. Provided teaching and supervision in following forms (multiple select)*

- Direct Supervision
- Indirect Supervision with Immediate Availability
- Chart-based Recall
- Didactics and Conferences
- One-on-One or Informal Teaching Session
- None of the above
- Other

If you answered "none" or "other" to the question above, please explain:

Provided teaching and supervision of high quality

	Yes	No	N/A
2. Provides helpful insights for clinic and/or procedures*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

	Yes	No	N/A
3. Ensures safety of patients*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

	Yes	No	N/A
4. Incorporates cost-effective and patient-centered*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

	Yes	No	N/A
5. Is available in timely manner*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

	1	2
6. Models integrity*	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

	Yes	No	N/A
7. Promotes equitable care*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

	1	2
8. Consistently treated patients, staff, residents and colleagues with respect*	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

	1	2
9. Provides helpful feedback*	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

10. Comments

Figure S2 Casey Eye Institute—Oregon Health & Science University Faculty Evaluation from delivered through electronic resident management system (MedHub: <http://www.medhub.com/>). The form is completed by trainees, there respondents are masked, the results are collated.