Title Page

Title: **Pediatric faculty and residents’ perspectives on In-Training Evaluation Reports (ITERs)**

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**Conflict of interest notification:**

None of the authors have a conflict of interest, financial or otherwise, with the conduct or results of this project. Dr. Patel was a pediatric resident and Dr. Drover was the program director for the pediatric residency program at Memorial University at the time when the project was conducted. .

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**Abstract**

**Background**: In-training evaluation reports (ITERs) are used by over 90% of postgraduate medical training programs in Canada for resident assessment. Our study examined the perspectives of faculty and residents in one pediatric program as a means to improve the ITER as an evaluation tool.

**Methods:** Two separate focus groups were conducted, one with eight pediatric residents and one with nine clinical faculty within the pediatrics program of Memorial University’s Faculty of Medicine to discuss their perceptions of, and suggestions for improving, the use of ITERs.

**Results:** Residents and faculty shared many similar suggestions for improving the ITER as an evaluation tool. Both the faculty and residents emphasized the importance of written feedback, contextualizing the evaluation and timely follow-up. The biggest challenge appears to be the discrepancy in the quality of feedback sought by the residents and the faculty members’ ability to do so in a time effective manner. Others concerns related to the need for better engagement in setting rotation objectives and more direct observation by the faculty member completing the ITER.

**Conclusion:** The ITER is a useful tool in resident evaluations, but a number of issues relating to its actual use could improve the quality of feedback which residents receive.

**Introduction**

Post-graduate medical residents require regular and constructive evaluation during their training to guide their professional development and ensure that they meet the standards of competency required for medical professionals. An effective evaluation system is crucial for ensuring that appropriate development is taking place, that evaluation is supporting learning, and that standards of clinical competency are being met. The in-training evaluation report (ITER), based on the observation and documentation of the performance of learners in real clinical settings, is the cornerstone of the evaluation system in most North American medical training programs (Walting et al., 2010). In Canada, the standard ITER evaluates the seven CanMEDS roles identified by the Royal College of Physicians and Surgeons of Canada (2014) determining clinical competence for a physician. These seven roles are medical expert, scholar, communicator, collaborator, manager, professional and health advocate. Assessment of these various roles in the clinical setting is, however, complex and can pose many challenges, even when learners are regularly evaluated (Chou et al., 2009). A survey of medical program directors in Canada found that they were relatively satisfied with their evaluation of the *Medical Expert* role, but less so with assessment of the other CanMEDS roles, including communicator, collaborator, manager, professional and health advocate (Chou, Cole, McLaughlin, Lockyer, 2008). Current approaches to validating evaluative practices focus on the need for validation to be tailored to the specific context and to examine the assumptions underlining each aspect of an evaluative structure (Kane, 2001). In the context that there are seven CanMED roles, insufficient work has been done to validate ITERs as a means of appropriately evaluating each of these roles within the different educational contexts across medical education in Canada.

Direct observation of the resident in practice, on which the ITER is primarily based, has long been a part of medical education. As Fromme et al. (2009) points out, direct observation is ‘‘embedded in the medical education and apprenticeship process.’’ While the ITER plays a significant role in resident assessment, concerns have been raised about its accuracy and reliability (Kwolek, 1997; Awad, 2002). These concerns relate to a range of issues, including a lack of defined standards leading to inter-evaluator variation, fragmented observation of residents and a lack of timeliness in feedback delivery. A study of the use of the ITER for medical clerks in Western Canada identified issues around its validity, including a “halo effect,” in which raters simply selected the same evaluation category throughout the entire evaluation (Mclauglhin et al., 2009). Perhaps related to this issue of inadequate evaluations, few medical programs provide clinical faculty members with specific training in how to complete ITER evaluations (Ruedy, 2006). There is also a significant discrepancy in how faculty and residents perceive the feedback given. In a study by Sender-Liberman et al., residents’ responses differed significantly from those of faculty on the frequency, timeliness, specific nature of feedback and overall effectiveness of the ITER on learning (Sender-Liberman et al., 2005).

As a result of the multiple challenges surrounding ITERs and their importance in medical evaluation, there has been a growing interest in examining faculty and resident attitudes toward the ITER process (Watling et al., 2008, 2010). The purpose of our study is to explore pediatric faculty and resident perspectives on the structure and process of the ITER, with the aim of improving the use of the ITER as an evaluation tool. By eliciting these perspectives through separate focus groups, this study examines the attitudes of faculty on their approach and residents on their incorporation of the ITER within a pediatric residency program. Separating the focus groups also allows for the opportunity to compare the perspectives of residents and clinical faculty. To the best of our knowledge, our study is the first to focus on the ITER process in a pediatric residency training program and adds to the relatively small body of work on this topic done in Canada.. In our discussions with other pediatric residency program across the country, the ITER form and process used in the Memorial pediatric residency program is similar to the process used in most other Canadian residency programs. In this way, we hope that the findings that we have found in our program will be of use to other residency programs across the country.

**Methods**

The study was conducted with residents and clinical faculty in the Division of Pediatrics at Memorial University of Newfoundland. This program offers a four-year residency program in pediatrics. All rotations are evaluated using a standard ITER (Appendix 1), which is completed by the faculty member assigned supervisory responsibility for the rotation. The ITER form is sent directly to faculty via a computer-based one45 system, standard across most residency training programs. The ITER form directly asks the faculty member to indicate whether the residents performed at “above expectations”, “at expectations” or “below expectations” on each of the seven CanMed roles and on the rotation overall using tick boxes. The supervising faculty member for the rotation is also encouraged to provide written comments related to each role. Finally, the ITER form asks the faculty member to indicate whether he or she met the resident to discuss their performance on the rotation prior to submitting the ITER. As part of the process, it is expected that faculty meet with residents to provide formative feedback mid-rotation and complete the ITER with the resident at the end of the rotation.

All of the faculty and residents in the program were asked to participate in the project. A focus group methodology was selected to allow for a shared discuss of the issues arising for each group (Stewart, Shamdasani, Rook, 2007). als, with the plan being that there would be multiple focus groups if warranted by the number of participants. Based on the number of positive responses from potential participants, two separate focus groups were conducted in April 2012, within the Janeway hospital, the first with pediatric residents, followed by a second one with members of the clinical faculty. Nine of a twenty three (39%) invited residents attended (7 female, 1 male, N=8), representing a spectrum of training years (3 PGY-1; 3 PGY-2; 2 PGY-3). For the staff focus group, nine of forty (23%) invited attended (5 female, 4 male, N=9), which included the following specialties: cardiology, gastroenterology, infectious disease, developmental pediatrics, emergency medicine and general pediatrics. None of those who initially agreed to participate subsequently dropped out of the study. Except for one of the staff members who had received an ITER training session at the Royal College more than 10 years ago, no other staff member had received any training in ITER completion.

Consent forms and focus group discussion questions were sent to participants prior to the focus group, with written consent being obtained from all participants prior to the focus group sessions. All focus groups were facilitated by one of the researchers (RP), who was a resident in the program at the time and who had received graduate level training in qualitative research. Semi-structured focus group questions (Appendix 2) were developed by the authors, who include a faculty member with expertise in medical education (AD) and a PhD trained qualitative researcher (RC), based on the study aims and the literature review for the project, with the aim that they would direct the conversation to the key aspects of the ITER. Because the focus groups were all facilitated using a semi-structured interview guide, participants had the opportunity to ask for clarification of questions and to raise other issues that they thought were relevant to the project. Focus group sessions lasted approximately one hour and were all audio recorded and professionally transcribed. An assistant (DA) was present at each focus group to take written notes. Only the participants and the facilitators were present during the focus group sessions.

The data was analyzed using a thematic content analysis approach (Green and Thorogood, 2009), with the aim of identifying the issues and suggested improvements each group had for the ITER. All of the transcripts and field notes were reviewed in their entirety by one of the authors (RP) and a research assistant (DA) before coding to ensure completeness and develop initial coding categories. One of the authors (RP) and a research assistant then both coded the data using NVivo 9 software (2009), with both deductive and inductive coding being used (Bowling, 2009). The coding of the first focus group transcript was reviewed by another author (RC), to validate the consistency of the coding. Key themes were then discussed and clarified by three of the authors. Ethics approval for the project was obtained from the *Newfoundland and Labrador Health Research Ethics Authority* (2013).

**Results**

Both the pediatric faculty and residents felt that significant improvements can be made to optimize the use of ITERs, with both groups having numerous concerns and recommendations. We broadly categorized results under the themes of ITER format, understanding feedback, recording observations, verbal feedback, attitudes towards criticism, follow-up, and engagement and timeliness.

***ITER Format***

Memorial’s pediatric program uses the same ITER form for each rotation. Residents were overall supportive of the basic design of the ITER, with its focus on the seven CanMed roles. While also supportive of the basic design, the clinical faculty requested that the form include more specific questions, particularly related to assessing the non-medical expert CanMED roles within clinical situations, with the aim of more clearly specifying the type of information that should be considered for each role. Some residents suggested that a rotation or year specific ITER may be a clearer way of setting expectations. Residents also felt that rotation specific ITERs would help with self-assessment, by focusing on a limited number CanMED roles that are emphasized in one setting over another. Faculty also recognized the advantages of specific ITER evaluations, including that they could help specify CanMED roles which should be emphasized in varying contexts. Another suggestion from a faculty member was for a group of similar rotations, e.g., sub-specialties rotations, to share a generic form, which would be a compromise between having a single form for the entire program and specific forms for each rotations.

***Understanding Feedback***

Given its role as an evaluation instrument, it is not surprising that much of the discussion focused on feedback. A main component of the feedback that residents receive from the ITER is checkbox indications whether they performed at, above or below expectations. Residents unanimously agreed that there was a lack of understanding of what is meant by these grading scales and expressed a strong desire for better defining the grading scales on the ITER to improve assessments of their own performance. Better definitions should also help reduce the variation in the criteria that different clinical faculty use in assessing residents by these categories. In light of the problems in understanding the evaluation categories, it is perhaps not surprising that all of the participants in the resident focus group felt that written comments were the most useful aspect of the ITER and should be mandatory. As one resident participant explained, “the written comments… are the most helpful because you get a sense of what the staff person was actually thinking as oppose to just the tick boxes. It can be hard to interpret what the staff is saying when they are just ticking the boxes.” Other residents went further, requesting that mandatory written comments should include discussion of both the strengths and areas of improvement for the resident based on the performance on the rotation.

Staff also expressed their confusion with the rating scales and that clearer definitions of the categories on the ITER form were necessary. Part of the issue is that residents are expected to perform at a high level. One faculty participant recounted the instructions on an ITER from another Canadian pediatrics program, which said “excellence is expected and therefore average is excellent.” On the other end of the spectrum, another faculty participant said if “below expectations” is interpreted as a fail then “at expectations” could be seen as barely passing. While acknowledging that more written comments could be given, a few clinical faculty members identified concerns with the permanent nature of written comments and the potential impact they could have. One clinical faculty member said: “How much do you actually want to put on paper? Just having finished… reviewing fellowship applications, it’s sad to see how much weight is given to a slightly negative comment that might appear in their application……so writing something negative, I find to be very challenging.” Faculty also felt that the non-medical expert CanMed (i.e., the health advocate) roles are often difficult to assess in the clinical setting and that the program director and chief residents may be more appropriate to make more global assessments on these types of roles.

Recording Time and Roles Observed

One particular issue of concern wasto the resident, which isthe

 [on this rotation],

**Verbal Feedback**

Both residents and clinical faculty cited the importance of including verbal feedback as part of the ITER process. Verbal feedback facilitates a deeper conversation into issues that may have arisen within the rotations. It can also allow for discussions of topics that the faculty member might not feel comfortable putting in writing and making part of the resident’s permanent file. Residents said they greatly appreciated the effort made by faculty to discuss their performance because it assists with their own self-assessment process. As one resident said, “if someone is going to sit down and truly put the effort in and they give you verbal feedback, then you understand where they are coming from. The more detailed, the better it is for our own self-assessment.” All faculty members agreed that the preferred mode of delivering constructive criticism is “face-to-face.” Faculty members also emphasized that importance of verbal feedback when there are concerns or issues that need to be addressed with the resident. As one faculty member said, “the ITER is one thing, but I think you have to talk to the person and I think it’s when something appears in the ITER and no one has ever talked to the trainee, that people become disgruntled and [complain] that’s not fair.”

***Attitudes towards criticism***

While faculty members recognize the importance verbal feedback, they acknowledge the challenge of having ‘difficult conversations’ with residents and that there is sometimes a culture within medicine where the critical discussions are often not had with residents in a timely manner. Faculty members emphasized that residents should not get so hung up over negative feedback recognizing that humility is an important trait in medicine and it is an expected part of medical training to identify areas where performance needs to be improved. Faculty also admitted that the extent of the relationship that they have with a resident is a factor when considering giving constructive criticism. As one faculty member said “one interaction with them [a resident] and you begin to wonder if it is a bad day, but if you have lot of experience with them, you see a trend and you feel more comfortable to say what you have seen is accurate.”

***Follow Up***

Residents felt that follow up from faculty plays an important part role in the ITER evaluation. Opportunities to discuss performance half way through the rotation and setting out a learning plan are one option for helping to ensure progress. They noted that a plan or system for follow up should improvements be required needs to be in place, with some mechanism for reevaluation. While faculty members did not discuss remediation or having formal plans in place, one staff member mentioned the importance of letting residents know that there are people that can be approached to talk to if they receive a negative evaluation. Another member then followed up by adding that staff should be occasionally reviewing a resident’s progress if it is found to be deficient.

***Engagement and Timeliness***

Faculty engagement and timeliness of feedback were cited most frequently as the most critical aspects for the ITER process that required improvement. Residents noted that late feedback has very little impact on their development. Most residents said that they had received either the infrequent written feedback, lack of verbal feedback, virtually no observation of skills, infrequent knowledge assessment and month long delays in receiving the ITER. As one resident reported, “I got an ITER from a person I barely worked with and I got it 4 months late.” There was also a strong request on the part of the residents for more opportunities to have their knowledge assessed, since they feel this was not happening frequently within specific rotations. While faculty members all acknowledge that they can be more involved with the process by providing more feedback of higher quality, they wish to do so in way that is sustainable and not completely monopolizing of their time. Overall, the residents felt that faculty members need to be more responsible for the entire ITER process and should be held more accountable for insufficient or delayed evaluations, since teaching and evaluation is part of their faculty appointment.

We summarize the main recommendations for improving the ITER where there was agreement between the resident and clinical faculty focus groups in *Table1;* and recommendations only made in one focus group in *Table 2*.

*[Insert Tables 1 and 2].*

**Discussion**

Our study examined faculty and resident perspectives on how to improve ITER evaluations in a pediatric program. The high response rate and the level of engagement of participants in the focus group discussions was likely a testament of the interest in the topic for both residents and clinical faculty. While recognizing the potential role of the ITER, residents were frustrated by the limited exposure which clinical evaluators sometimes have of the residents they are evaluating, receiving feedback well after the completion of a rotation, and the lack of acknowledgement of good resident performance. The recommendations discussed include the need to clarify the grading standards for the ITER; the expanded use of rotation specific evaluations; requiring both written and verbal feedback; that negative feedback should include constructive criticism, given face-to-face in a timely manner; describing the exposure the evaluator had of the resident’s performance; and making clinical faculty more accountable for providing sufficient and timely evaluations.

Residents and faculty members shared a number of common concerns and suggestions for improving the ITER. Still there were areas of disagreements. Perhaps the biggest divide between faculty and residents is the quality of feedback sought by residents through the ITER process and the faculty members ability to do so in a time effective way. Watling et al. (2008) found that “engagement”is central to the value residents placed on ITERs. When this engagement is absent, the resulting feedback was perceived by residents as meaningless and unlikely to motivate behavior change (Watling et al., 2008). This type of From the evaluator perspective, engagement is demonstrated by grounding opinions in repeated, direct observation and by offering timely, specific and personalized feedback. The difficulty, as identified in our study, is bridging the gap between the level of engagement in the evaluation progress that resident desire with the time available to clinical faculty to devote themselves to these activities. As a means of inspiring staff, residents can be more proactive in setting out learning objectives prior to a rotation and seeking observation and feedback opportunities from staff in the clinical setting.

A further question to consider is whether medical evaluation needs to be restructured given the reality that physicians often do not have enough time to thoroughly observe, correct, assist and speak to trainees to provide the meaningful feedback required for trainees to progress. Accreditation of all undergraduate and postgraduate training programs in North America requires that the clinical skills of trainees be assessed by direct faculty observation (Watling et al., 2012). If this is to remain the standard for accreditation, based on the findings of our study and previous literature regarding faculty engagement, significant changes should be considered. One option is to have residents can play a more proactive role in the evaluation process by approaching staff to increase the number of opportunities for verbal feedback, putting less emphasis on written feedback. Future research can also look further into how residents self-assess and the process of introspection that residents go through when receiving feedback. Finally, with recommendations from the ACGME to implement 360 degree multi source as a valid evaluation tool in post graduate training, further research will be needed to determine how the ITER will fit into this process and the reliability challenges that exist when incorporating a larger group of individuals into the evaluation forum (ACGME, 2000; Archer, 2008)

The findings of this study need to be considered in terms of the proposed revisions to the Royal College’s 2015 CanMEDS roles. The new approach will include “the addition of milestones, which are being created for each Role included in the CanMEDS Framework,” which will continue across a physician’s career. While the new approach has not been fully articulated, the aim of clarifying the roles and expressing the aims of each role in simpler, more direct, language should help addressed some of the concerns expressed by faculty in project about the confusions regarding the expectations for non-medical CanMed roles. The incorporation of a milestones approach should also allow for faculty to clarify the expectations at different years of residency.

Limitations of our study include that it was conducted within a single pediatric program. However, given that the ITER is used in over 90% of post graduate training programs (Watling et al., 2012), and that the ITER used in the pediatric program studied includes elements evaluated across residency programs, our findings likely have some applicability to other Canadian residency programs. Our results also likely raise issues for the use of ITERs in clerkship evaluations. It should also be noted that the researcher who conducted the focus groups (RP) was a resident in the program at the time that the work was conducted. Both focus groups were made aware that information disclosed would remain completely confidential which allowed both sides to be candid in their comments. However, in the resident focus group, the resident conducting the focus group would have been regarded as a peer ,while in the staff focus group the resident may have represented a source by which information could be leaked out to other trainees and thus comments may have been restricted. Finally, a high proportion of the participants in the resident focus group were female. While the percentage (88%) is in keeping with the makeup of the pediatric residency program studied, this distribution could possibly limit generalizability to programs with a more equal gender balance.

Conclusions

The Division of Pediatrics has already moved to address some of the issues raised during our project. The program has also moved to improve the timeliness of ITERs, by sending more reminders and requiring a meeting with the program chair to explain long delays in the completion of ITERs by faculty, which appears to have reduced the time that ITERs are outstanding. Other actions that could be taken is to further specify the expectations around the fulfillment of the non-medical CanMEDs and requiring more verbal and written feedback throughout rotations. From a research perspective, it may be also useful to expand on this current study by employing a survey of residents and clinical faculty in other programs and schools to determine whether they share the same ideas about the use of ITERs. This survey could also garner feedback on the required changes to ITERs needed to incorporate the upcoming revisions to the CanMED roles.

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**Table 1: Recommendations mutually agreed upon by faculty and residents**

|  |
| --- |
| 1. The need for a clearer understanding of the grading standards of the ITER
2. The need for rotation specific ITERs to help focus on specific CanMEDs objectives
3. ITERs should record the length of time spent with trainee and the level of interaction
4. Each ITER should be accompanied by both written and verbal feedback
5. The faculty who spends the most time with a resident on their rotation should be responsible for filling out the ITER
6. Constructive criticism and negative feedback should be timely and provided face to face

7. Residents should be more involved in the ITER process and in setting rotation learning objectives  |

**Table 2: Recommendations only made in one focus group**

|  |  |
| --- | --- |
| **Recommendations only by faculty** | **Recommendations only by residents** |
| 1. Involvement of other health care professionals is required
2. Program Director and chief residents may be more appropriate to make global assessments for non-medical expert CanMED roles
3. Residents need to be more open when receiving constructive criticism
4. Residents should be aware that ‘meeting expectations’ means performance is at par and that most individuals will fall into this category
 | 1. Narrative comments should be mandatory
2. Timeliness of feedback is critical
3. Faculty must observe encounters and skills to provide meaningful feedback
4. Formal mechanisms should be in place so that progress can be tracked
5. Faculty ITER training is necessary
6. Clinical faculty should be more accountable for providing sufficient and timely evaluations
 |

**Appendix I: Focus Group Questions**

**Questions for Faculty Focus Group**

1. How important do you feel the ITER is in overall resident evaluation during residency?
	1. Do you feel that the ITER is meaningful and provides a fair assessment for a resident’s performance?
2. Have you ever received any training in how to conduct and assess an ITER?
3. What are the strengths and weaknesses of the ITER as an evaluation tool?
4. What suggestions would you make for improvement of this evaluation tool?
5. What if any are the biggest barriers in the process of filling out the ITER completely for yourself?
6. Which CanMED roles on the ITER are most difficult to comment on and why?

(medical expert, scholar, communicator, collaborator, manager, professional and health advocate)

1. What is your preferred method (ie written, verbal) of delivering constructive criticism for resident performance?
2. What is your experience with receptivity of constructive criticism from residents? Are there often disagreements?
3. Do the classification scheme for grading typically reflect your thoughts of resident performance? Should there be more defined scales with more intervals?
4. How do you think that resident performance should be assessed?

**Questions for Resident Focus Group**

1. How important do you feel the ITER is in your training to becoming a competent pediatrician?
2. What aspect of the ITER is most helpful?
3. What factors do you consider before placing weight on the comments?
4. Is self-assessment a big part of your feedback and progress?
	1. Does the ITER feedback typically match your own self-assessment?
5. What are the strengths and weaknesses of the ITER as an evaluation tool?
6. What suggestions would you make for improvement of this evaluation tool?
7. Do you seek verbal feedback in addition to your ITER?
8. What is your preferred mode of receiving constructive criticism?
9. Does the classification scheme reflect how you feel you are doing or are more specific intervals required to describe performance (ie faculty evaluation is more detailed and is based on a 5 pt scale)

10. Do you have any suggestions for faculty in helping them fill out the ITER?

**Appendix 2: Memorial University Pediatric Program In-Training Evaluation Report**

\*indicates a mandatory response

Top of Form

Role / Medical Expert

|  | Not Meeting Competency | Developing Competency | Meeting Competency | Exceeding Competency |
| --- | --- | --- | --- | --- |
| Developed comprehensive up to date knowledge and expertise in the area addressed by his or her scholarly project |  |  |  |  |

Comments:

Role / Communicator

|  | Not Meeting Competency | Developing Competency | Meeting Competency | Exceeding Competency |
| --- | --- | --- | --- | --- |
| Concisely presented his or her project in abstract format to his or her supervisor and others |  |  |  |  |
| Drafted a project report detailing the progress on the project over the elective month |  |  |  |  |

Comments:

Role / Scholar

|  | Not Meeting Competency | Developing Competency | Meeting Competency | Exceeding Competency |
| --- | --- | --- | --- | --- |
| Asked research questions based upon the scholarly project work, consulted the literature, and generated research hypotheses or project development/design proposals |  |  |  |  |

Comments:

Role / Collaborator

|  | Not Meeting Competency | Developing Competency | Meeting Competency | Exceeding Competency |
| --- | --- | --- | --- | --- |
| Made use of the mentoring provided by his or her supervisor |  |  |  |  |

Comments:

Role / Manager

|  | Not Meeting Competency | Developing Competency | Meeting Competency | Exceeding Competency |
| --- | --- | --- | --- | --- |
| Managed his or her time during the elective month effectively to balance service needs and independent study time. |  |  |  |  |

Comments:

Role / Health Advocate

|  | Not Meeting Competency | Developing Competency | Meeting Competency | Exceeding Competency |
| --- | --- | --- | --- | --- |
| Considered the population health implications of his or her scholarly project. |  |  |  |  |

Comments:

Role / Professional

|  | Not Meeting Competency | Developing Competency | Meeting Competency | Exceeding Competency |
| --- | --- | --- | --- | --- |
| Understood the ethical principles involved in research involving human subjects. |  |  |  |  |
| Conducted his or her project with the utmost integrity, respect, and sensitivity to diversity. |  |  |  |  |

Comments:

**\***Additional Comments Box:

|  | Not Meeting Competency | Developing Competency | Meeting Competency | Exceeding Competency |
| --- | --- | --- | --- | --- |
| \*Overall Competency |  |  |  |  |

\*Did you have an opportunity to meet with this trainee to discuss his or her performance?

 Yes
 No

Bottom of Form