



CanMEDS Best Practices Submission Form
The Royal College of Physicians and Surgeons of Canada
 774 Echo Drive, Ottawa, ON, Canada, K1S 5N8
 T: 613- 730-8177 F: 613- 730-3707
<http://rcpsc.medical.org> • canmeds@rcpsc.edu

AUTHOR CONTACT INFORMATION

Name: Dr. Ann Jefferies		Phone: (416) 586-8295
Address: Mount Sinai Hospital RM. 775, 600 University		Phone: (416) 423-8697
City: Toronto		Fax: (416) 586-8745
Province: ON	Postal Code: M5G 1X5	Email: ajefferies@mtsinai.on.ca

CATEGORY

- Curriculum** — a design for education around the CanMEDS competencies.
- Teaching Tool** — a submission that will assist the teaching the specific CanMEDS competencies.
- Assessment Tool** — a submission that will assist in the assessment/evaluation of the CanMEDS competencies.

TYPE OF TOOL

- ITER Manual or Module **OSCE** Rotation specific objectives Workshops Facilitated Discussions
- FITER Group exercise Rotation Portfolios & Logbooks Website Other: _____

CanMEDS ROLES

- Medical Expert Communicator Collaborator Manager Health Advocate Scholar Professional **General**

TITLE Limit of 100 characters

ASSESSING THE CanMEDS ROLES IN NEONATAL – PERINATAL MEDICINE USING THE OBJECTIVE STRUCTURED CLINICAL EXAMINATION (OSCE).

AUTHOR(S)

1) <i>A. Jefferies</i>	4) <i>J. McIlroy</i>	7)
2) <i>B. Simmons</i>	5) <i>D. Tabak</i>	8)
3) <i>D. Clark</i>	6)	9)

PRIMARY INSTITUTIONAL AFFILIATION

Name: Department of Paediatrics and the Wilson Centre for Research in Education

ABSTRACT Limit of 500 words

Assessment of all CanMEDS roles using valid and reliable evaluation tools is challenging for many training programs. Under the leadership of B. Simmons and A. Jefferies, Canadian neonatal – perinatal medicine training programs have developed and used an OSCE for neonatal – perinatal medicine subspecialty residents and fellows to assess the 7 CanMEDS roles.

Following 2 pilot OSCE’s at University of Toronto which demonstrated feasibility, 3 “CanMEDS” neonatal – perinatal OSCE’s have been conducted – a provincial OSCE for 4 Ontario programs (2002) and 2 national OSCE’s in which programs from across Canada participated (2003, 2005).

Each year, program directors designed a 10 – 13 station OSCE blueprint that included a variety of neonatal content domains and incorporated the 7 CanMEDS roles. Each OSCE station included 2 – 5 roles. To assess performance related to each role, we developed 11 CanMEDS-specific global ratings, analogous to primary trait ratings, to assess the roles of medical expert (knowledge), medical expert (management and judgement), communicator (parents), communicator (health professionals), collaborator, manager, professional (attitudes), professional (ethics), scholar (teacher), scholar (research skills) and health advocate. A 5-point rating scale was used, with 3 descriptors of performances that would be observed in an OSCE to anchor the ratings. For each station, examiners completed the CanMEDS ratings appropriate to that station, a binary checklist and an overall global rating.

Eighty-eight neonatal-perinatal medicine trainees have participated in 3 OSCE’s; 36 stations have been written. The medical expert and communicator roles have been included most frequently (32 stations); scholar and manager roles least frequently (7 and 9 stations respectively). The CanMEDS ratings have demonstrated high inter-station reliability (Cronbach’s alpha) and validity. For each station, a composite score using 80% contribution of the station-level CanMEDS ratings generated highest reliability. Candidate feedback has included an assessment of performance for each CanMEDS role. This OSCE has been well-accepted by faculty and candidates.

REFERENCES

- 1) Simmons B, Jefferies A, Tabak D, McIlroy J, Blayney M, Lee K, Roukema H, Skidmore M. Evaluating physician competencies using an objective structured clinical examination (OSCE) in neonatal-perinatal medicine. *Pediatr Res* 2003; 53(4): 95A
- 2) Hilliard RI, Tallett SE, Tabak D. Use of an objective structured clinical examination as a certifying examination in Pediatrics. *Annals RCPSC* 2000; 33: 222.
- 3) Bradley P and Humphris G. Assessing the ability of medical students to apply evidence in practice: the potential of the OSCE. *Med Educ* 1999; 33: 815 – 817.

Thank you for your submission. We will be contacting you shortly.