### A RATING INSTRUMENT TO ASSESS AMBULATORY WOMEN'S HEALTH PROCEDURAL SKILLS

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## INTRODUCTION

### Background:

- Ambulatory Women's Health Procedures (AWHPs) are essential primary care services few family physicians provide.
- CCFP licensing exam does not examine the candidates' procedural skills competence.
- Family Medicine (FM) teaching lacks validated tools to provide feedback to learners or to measure learner's progression towards competence of procedural skills.
- The two most commonly used rating instruments of technical skills are Procedure Specific Checklist (PSC) focused on content knowledge & Global Rating Scale (GRS) focused on psychomotor skills.

**Objectives:** To develop checklists and rating scales for four AWHPs & provide validity evidence for their use in FM as tools for formative & summative purposes.

### **METHODS**

#### Content Development

- Procedures Selected: Intrauterine Device (IUD) insertion, endometrial biopsy, punch biopsy of vulva & routine pessary case as per CCFP2021 mandatory procedures list.
- A validated GRS designed for technical skills for hysterectomy was modified to accommodate AWHPs.
- We developed the original PSCs based on empirical standards of practice & literature review.
- A modified Delphi method was used to reach consensus on items for the final PSCs.
- 16 Academic family physicians (AFP) & OB-GYNs from 9 universities & 6 provinces participated using an 8-point scale to rank the importance of each item.
- We established a priori to include or exclude items (Table 1).
- · Consensus was reached after 2 rounds.

### Response Process Relationship to other Variables

- The 2 rating instruments were piloted by 19 AFPs raters using videos of 2 FM trainees from PGY1 & PGY2.
- Raters were asked to consider for both formative & summative purposes.
- Percentage PSC and GRS average scores was calculated for each procedure & correlated with the year of resident's training (Figures 1 & 2).
- Raters evaluated the 2 instruments on 6 anchors using a 6-point Likert scale (Figure 3).

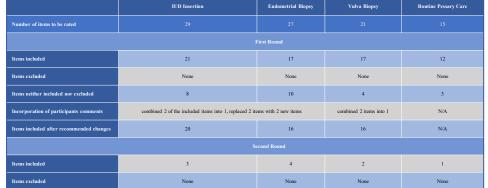
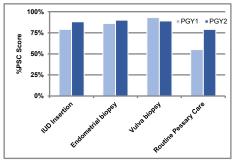


Table 1. Results of Modified Delphi Consensus for PSC item Selection

#### Items included: >70% ranked 7-8 & <20% ranked 1-2, Items excluded: >70% rated 1-2 & < 20% rated 7-8





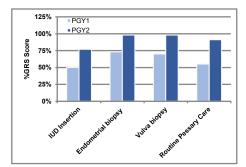


Figure 2. GRS average score correlation with year of training

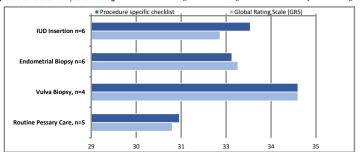


Figure 3. Raters' evaluation of the two rating instruments by

### RESULTS

- PSC items were well received & consensus reached on most items after 2 rounds (Table 1).
- No item was viewed unimportant enough to be excluded from PSCs.
- PSC scores did not correlate with the trainees' level of training (Figure 1).
- GRS scores correlated with the trainees' level of training (Figure 2).
- The small sample size precluded us from correlating PSC & GRS scores.
- Both instruments received high average overall scores of ≥ 31/36 for all 4 procedures.

# DISCUSSION & CONCLUSION

- We developed Canadian consensus on PSCs to provide formative feedback to FM trainees for 4 AWHPs.
- Preliminary validation results are consistent with the literature: PSCs' detailed content knowledge structure is more suitable as a formative feedback tool whereas GRS psychomotor skill structure is more amenable to summative feedback.
- The overwhelming approval of the tool by faculty raters indicates acceptability & feasibility for our next study.
- Further validity evidence for internal construct, relationship to other variables & consequence of our tools is underway.

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