A Randomized Comparison Of Hands-on Versus Video-based Training Program Designed To Enhance Pelvic Floor Examination In Patients Presenting With Chronic Pelvic Pain

Maria Giroux, BSc (Hons), MD, Suzanne Funk, BMRPT, Erwin Karreman, PhD, Huse Kamencic MD, FRCSC, Rashmi Bhargava, MD, FRCSC

Department of Obstetrics & Gynecology,
University of Saskatchewan, Regina, Saskatchewan, Canada

mag640@mail.usask.ca
Speaker Disclosure

Nothing to disclose
Chronic Pelvic Pain

- Persistent pain for ≥6 months
- 15-20% of women
Patients with chronic pelvic pain who were also found to have pelvic floor myalgia:

- Examined by a physician: 63%
- Examined by a physiotherapist: 73%

Fitzgerald et al., 2011
Untreated Symptoms

- Persistent symptoms
- Central sensitization
- Unnecessary laparoscopic surgery
- Psychological distress
- Impaired quality of life
Assessment of the Pelvic Floor Musculature
A randomized, single-blinded, single-center trial

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Objectives:

1. Compare the effectiveness of hands-on vs video-based training of a comprehensive assessment of the pelvic floor musculature on a pelvic model

2. Design an effective training program to enhance examination of the pelvic floor musculature for patients presenting with chronic pelvic pain

This Quality Improvement study was reviewed and exempted from the Saskatchewan Health Authority and University of Saskatchewan Research Ethics Boards.
Inclusion criteria:
1. Age ≥18yo
2. Learners affiliated with College of Medicine at the University of Saskatchewan in Regina campus. This includes obstetrics and gynecology resident physicians (Years 1-5), family medicine resident physicians (Years 1-2), and medical students (Years 2-4).
3. Obstetrics and Gynecology staff affiliated with the University of Saskatchewan in Regina campus.

Exclusion criteria:
1. Physical limitation that prevents a participant from performing a pelvic examination
Figure 2: Structure Of The Training Session

Welcome, consent forms

Randomization

Group A: Video Group

Group B: Hands-on Group

Pre-training assessment
- Baseline characteristics
- OSCE (10min)
  - Evaluators: Dr. Rashmi Bhargava and Dr. Huse Kamencic
- Written assessment (30min)

14:00-14:40 Didactic session (37 minutes), colouring diagrams of pelvic floor musculature

14:40-15:00 Wellness break

Group A: Video

Group B: Hands-on training session with a pelvic floor physiotherapist (Suzanne Funk)

Post-training assessment
- OSCE (10min)
  - Evaluators: Dr. Rashmi Bhargava and Dr. Huse Kamencic
- Written assessment (30min)
- Participant feedback

Didactic Lecture

Video

Hands-on
Primary Outcome Measure:

1. Change in written examination and OSCE scores from pre-training to post-training assessments in the video and hands-on groups

Secondary Outcome Measures:

1. Change in the level of comfort with performing pelvic floor examination in patients presenting with chronic pelvic pain before and after the training program
2. Usefulness of the training program for clinical practice
Data Analysis

Sample size required:
- 21 participants per training group
- Using the minimally important difference in OSCE and written examination scores of 15%, a standard deviation of 5, alpha level of 0.05, and power of 0.80
Figure 3: Mean written assessment scores before and after training in video and hands-on groups (maximum score was 30). There was no statistically significant difference between the 2 groups (p=0.19).
Results

OSCE Scores

Figure 4: Mean OSCE scores before and after training in video and hands-on groups (maximum score was 30). There was no statistically significant difference between the 2 groups (p=0.10).
Usefulness for Clinical Practice

Participants found the training program to be useful for their clinical practice.
Conclusion

Both hands-on and video-based training methods are effective.
There is no difference in the degree of improvement in assessment scores between both methods.
Significance

New effective multidisciplinary training program for teaching the assessment of the pelvic floor musculature to identify a possible muscular cause or contribution to chronic pelvic pain and provide early referral for appropriate treatment.
IUGA Academy

https://academy.iuga.org

Video

OBGYN Academy

https://obgynacademy.com
Chronic Pelvic Pain & Pelvic Floor Myalgia Workshop

https://obgynacademy.com/chronic-pelvic-pain/
Guide to Assessment of the Pelvic Floor Musculature

https://obgynacademy.com/chronic-pelvic-pain/
Future Direction

Workshop at both national and international levels in order to improve patient care through provider education
References


