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Virtual reality as a distraction therapy in obstetrics and gynaecology

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Results

A total of 247 questionnaires were completed (90 obstetric and 157 gynaecology) [Figure 1].

Gynaecology

Women’s interest in trialling VR during coil insertion/removal and colposcopy/hysteroscopy was predominantly positive [Figure 3a] as was professional support for women trialling VR in these settings [Figure 3b].

Obstetrics

Women’s interest in trialling VR during early labour, established labour and perineal repair was predominantly positive [Figure 2a], and professionals were largely supportive of women trialling VR in these settings [Figure 2b].

Conclusions

• Women are interested in and healthcare professionals largely supportive of the potential for VR as a distraction therapy within O&G.
• Reported hardware and software preferences are presently limited by current VR-technologies.
• Future studies should allow participants to experience different VR-technologies, inform design specifications, and ultimately pilot the technology.

Background

• Virtual reality (VR) is a computer-generated replication or simulation of real or imaginary multi-sensory environments users can explore and/ or interact with without physically leaving their current environment.
• VR technology is emerging as an effective distraction therapy for patients undergoing painful and/or distressing healthcare procedures.

Methods

• Clinical setting-specific (i.e. obstetric and gynaecology) paper-based questionnaires for both women and professionals were developed to assess views on:
  i) VR use in clinical settings (e.g. for labour, during hysteroscopy)
  ii) Hardware options (i.e. types of head equipment)
  iii) Software options (i.e. content, audio)
• Short online questionnaires for women were developed to assess views on VR use in clinical settings from a broader cross section of potential O&G service users.
• A consultation meeting was held with women, O&G professionals and VR-technologists to enable a real-world insight into the technology.

Figure 1: Questionnaire response rates

Figure 2: Percentage of obstetric women and professionals responding negatively, neutrally and positively to the potential application of VR as a distraction therapy during early labour, established labour and perineal repair.

Figure 3: Percentage of gynaecology women and professionals responding negatively, neutrally and positively to the potential application of VR as a distraction therapy during coil insertion/removal and colposcopy/hysteroscopy.

Figure 4: Percentage of women and professionals whom ranked each head equipment option as their first choice (i.e. the piece of head equipment they would most like to wear or most like their patients to wear).