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# Pain characteristics, sexual script flexibility, and penetration control cognitions in those experiencing anodyspareunia

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reporting that they experienced 'moderate' (4%) or 'severe' (2%) levels of pain (Vansintejan et al., 2013). Little information exists as to the speci c location of anodyspareunia, but a small number of participants in one study reported experiencing pain at the anal opening, in the rectum, and in the abdominal/pelvic area, or they were unsure of where the pain was located (Herbenick et al., 2015). Unfortunately, there has been limited examination of pain characteristics such as duration, location, and interference even though this type of information has proven critical in the eld of vulvovaginal dyspareunia in terms of de ning subtypes, such as provoked vestibulodynia (PVD), the most common form of idiopathic chronic vulvar pain (vulvodynia; Meana et al., 1997).

Anodyspareunia has also been shown to be associated

#### **Research goals**

In the current investigation, we aimed to further our understanding of anodyspareunia characteristics (e.g. onset, duration, location) – information that is crucial in the diagnosis, assessment, and treatment of chronic pain conditions (Dworkin et al., 2005). We also investigated psychological and cognitive factors of those with anodyspareunia, with an emphasis on control cognitions and sexual exibility, and their roles on pain and sexual outcomes. Our research questions were:

What are the pain characteristics (i.e. intensity, unpleasantness, onset, frequency, duration, location, and interference) of anodyspareunia, and how is the pain described? Are greater negative control cognitions associated with higher pain intensity and increased sexual distress? Does sexual exibility moderate the relationship between control cognitions and pain intensity and sexual distress?

# **Methods**

To examine the two research questions (pain characteristics and control cognitions), a crosssectional online study on anodyspareunia was conducted. We had the opportunity to increase the sample size for the control cognition analyses by including data from an archival study examining sexual exibility in a diverse sample; recruitment methods and measures were similar – but not identical – to the anodyspareunia study. For this reason, we have separated the information regarding the procedures, participants, measures, data considerations, and results into those pertaining to Study One (pain characteristics) and Study Two (control cognitions).

#### Study one: procedures

Study One was approved by the Queen's University General Research Ethics Board (GREB; #6017112). Recruitment materials included advertisements posted on social media (e.g. Facebook, Reddit, Twitter), university Pride groups, and relevant electronic mailing lists. The advertisements directed participants to a link containing the Letter of Information, and participants provided their informed consent prior to accessing the online survey (Qualtrics Survey Software, Qualtrics, Provo, UT). Participants who declined to provide their consent were re-directed out of the survey. The measures discussed in the present paper represent a subset of measures administered in a larger study of anodyspareunia, which took approximately 30 minutes to complete. The present sample was collected from the community who report anal pain during receptive penetration and inclusion was not based on clinical diagnosis. After survey completion, participants were given the opportunity to enter a draw to win one of four gift cards valued at

#### Study one: measures

#### **Sociodemographics**

Participants responded to sociodemographic questions related to age, gender, sexual orientation, relationship status, birthplace, ethnicity, education, and income.

#### Age of first receptive anal penetration

Participants were asked, 'At what age did you rst have receptive anal penetration (e.g. your partner penetrating your anus)?'. Participants were provided with an open text box to write the age of rst receptive anal penetration.

#### Anal sex frequency

Participants responded to the question, 'How often have you had anal sex in the past 30 days?'. Response options included 'have not done in the past 30 days', 'once', 'two or three times', 'four to ve times', and 'six or more times'.

#### Sex role

Participants responded to the question, 'What sex role do you identify with?'. Response options included 'top (I penetrate my partner)', 'bottom (my partner penetrates me)', 'versatile/switch (sometimes my partner penetrates me, sometimes I penetrate my partner)', and 'don't know'.

#### Anodyspareunia onset

Participants who indicated that they experience anodyspareunia were asked, 'How did it start?'. Response options included 'with rst experience', 'for no apparent reason', '6V11(94 2V49V6V6)( 86 V-6(14)6V

## Frequency of anal sex stopped due to anodyspareunia

Participants responded to the question, 'How often have you stopped having anal sex because of anal discomfort or pain in the past 30 days?'. Response options included 'have not done in the past 30 days', 'never', 'rarely', 'sometimes', 'often', and 'always'.

#### McGill Pain Questionnaire

The McGill Pain Questionnaire (MPQ) assesses the quality and intensity of pain, and it has been used in patients with a wide variety of pain diagnoses (Melzack, 1975). In the present study, the list of qualitative descriptors of the MPQ was administered to participants. Participants were asked to select from 78 words the best words that described their anodyspareunia. The words are grouped into ve categories: sensory/pain descriptors (e.g. pinching; 42 words), a ective components of pain (e.g. fearful; 14 words), evaluation of pain (e.g. annoying; 5 words), and miscellaneous (e.g. tight; 17 words). For the present study, the MPQ was not analyzed in such a way as to be scored to yield a pain severity score; rather, we focused on the frequency and type of qualitative descriptors selected by individuals with anodyspareunia.

# Study one: data considerations

Analyses were performed using IBM SPSS 26 (IBM Corp, Armonk, NY, USA). No missing data were imputed. Because participants could skip items, sample sizes di er across questions.

### Study two: procedures

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# **Results**

# Study one: participant demographics

Participant demographic information is provided in Table 1.

Table 1. Participant sociodemographics.

Total *N* = 96 28.2 (9.0)

Age (*M* (*SD*)) Gender (*n* (%)) Study one: what are the

Study

Study two: does exibility moderate the relationship between

score (or worsening in distress). Sexual exibility signi cantly predicted sexual distress, b = -0.05, t (119) = -2.49, p = .014. For every unit increase in sexual exibility, there was a .05 decrease in sexual distress. Control cognitions and sexual exibility did not interact to predict sexual distress, b = -0.004, t(119) = -0.78, p = .438.

# Discussion

The current investigation comprised two separate research aims: 1) to understand anodyspareunia characteristics and 2) to investigate psychological and cognitive factors in those with anodyspareunia, with an emphasis on control cognitions and sexual exibility, and their roles in pain and sexual outcomes. Examination of the rst research question assessing the characteristics of anodyspareunia found that individuals who experience anodyspareunia typically experience pain during their rst anal penetrative experience and continue to report pain about half (44%) the time. Participants, on average, indicated low pain intensity (M = 2.4) and unpleasantness (M = 2.8) scores, and the majority reported

#### Anodyspareunia and sexual exibility

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Miles, C. L., Pincus, T., Carnes, D., Taylor, S. J., & Underwood, M. (2011). Measuring