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Research Letter

A survey of practices and perceptions of vulvar biopsies in academic dermatology



What is known about this subject in regard to women and their families?

- Overall, vulvar dermatoses are underdiagnosed, and delayed diagnosis can lead to significant morbidity and decreased quality-of-life outcomes.
- The families of patients with lichen sclerosus should be educated that there is a genetic component for this condition and that early diagnosis is sometimes facilitated by tissue biopsy.
- There are no studies addressing dermatology provider levels of comfort with performing vulvar biopsies.

What is new from this article as messages for women and their families?

- More than half of respondents indicated some to no comfort with vulvar biopsies.
- Multiple challenges were indicated for not performing vulvar biopsies, including not routinely performing a vulvar examination.
- Further education for dermatologists on vulvar examinations and performing vulvar biopsies is necessary.

21% 30% 49% □ Not or Somewhat □ Comfortable ■ Very Fig. 1. Comfort level with vulvar biopsies

Dermatologists (post-residency)

Dear Editors:

Vulvovaginal disease is underrecognized by dermatologists, and patients with vulvovaginal disease are underserved. There is a need for increased education during training (Comstock et al., 2020; Venkatesan et al., 2012). Early diagnosis can prevent scarring, malignancy, sexual dysfunction, pain, and disfigurement, as well as improve quality of life. Vulvar dermatoses may present with nonspecific findings and tend to be multifactorial; thus, a clinical diagnosis can be challenging and is often facilitated by tissue biopsy. Additionally, vulvar biopsies should be performed when there is concern for malignancy. Vulvar biopsies are more challenging because the vulvar skin and mucosa are thin, moist, and pliant, making a traditional shave biopsy difficult. It is also more fragile, particularly when inflamed, and care should be taken not to crush specimens. Thus, an understanding of vulvar anatomy and disease is crucial to ensuring the best technique and specimen. Because skin biopsies are one of the most common procedures performed by dermatologists, we sought to evaluate provider-reported comfort and practices with vulvar biopsies.

This was a nationwide, anonymous, online survey of dermatology residents and academic dermatologists in the United States. A 17-question survey was developed through REDCap and submitted between March and April 2021 using the Association of Program Directors listserv. The survey was exempted by the authors' institutional review board.

Seventy participants completed the survey. Thirty-five percent of respondents were dermatologists in practice for at least 6 years. The majority of respondents were female (67%) and from programs located in the U.S. Pacific region (44%; Supplement). Of those who had completed residency (n=43 of 70), 51% were not trained to perform vulvar biopsies during their residency and 70% had performed <10 vulvar biopsies during residency (16% performed none). Overall, 50% reported some to no comfort with vulvar biopsies (18% not comfortable; Table 1). Of those who completed residency, 30% had some to no comfort (7% not comfortable; Fig. 1).

Among respondents, the most common modality to sample vulvar tissue was a punch, followed by a tangential shave. Fewer respondents chose a modified shave technique, referred to as a stitch/snip biopsy, which is often used by vulvar dermatology experts (Edwards and Lynch, 2012).

Our results highlight that further education on vulvar biopsies for dermatology residents and dermatologists is important, with more than half of respondents indicating some to no comfort with

Table 1Selected Survey Questions and Results.

| Select survey questions | | n (%) |
|--|---|---------|
| Did you receive training on vulvar biopsies during residency? | No | 37 (56) |
| | Yes | 33 (50) |
| Number of biopsies performed during residency | None | 12 (18) |
| | 1–5 | 33 (50) |
| | 6–10 | 12 (18) |
| | 11-20 | 3 (5) |
| | 21-49 | 4 (6) |
| | >50 | 1 (2) |
| | Unsure | 5 (8) |
| Frequency of biopsies performed | More than once a week | 1(2) |
| | Weekly | 1(2) |
| | Monthly | 4 (6) |
| | Few times a year | 32 (48) |
| | Yearly | 5 (8) |
| | Less than once a year | 17 (26) |
| | Never | 10 (15) |
| Comfort level with vulvar biopsies | Not at all | 13 (20) |
| | Somewhat | 22 (33) |
| | Comfortable | 25 (38) |
| | Very | 10 (15) |
| Challenges to performing biopsy | No challenges | 12 (18) |
| | I do not usually perform a vulvar examination | 13 (20) |
| | Technical difficulty of procedure | 11 (17) |
| | Time constraints | 4 (6) |
| | Patient preference | 13 (20) |
| | Lack of formal training | 9 (14) |
| | Belief that histopathologic evaluation will not change management | 2 (3) |
| | Other | 6 (9) |
| Would additional education make you more likely perform vulvar biopsies? | Very likely | 25 (38) |
| | Somewhat likely | 25 (38) |
| | Not at all likely | 6 (9) |
| | Unsure | 14 (21) |
| Educational modality | Self-guided online modules | 17 (27) |
| | Expert lecture | 22 (35) |
| | Rotation with a vulvar specialist | 22 (35) |
| | Other | 2 (3) |

vulvar biopsies. Seventy percent believed that additional education would make them more likely to perform a vulvar biopsy, with 27% preferring self-guided online modules, 35% expert lecture, and 35% rotation with a vulvar specialist. The authors believe that increasing knowledge of vulvar dermatologic conditions and anatomy, as well as increased experience in vulvar examinations, would promote provider comfort with vulvar biopsies.

There was no correlation between gender and comfort performing vulvar biopsies. Lack of comfort may be related to inadequate formal training and low volumes during residency. Respondents selected multiple challenges in performing vulvar biopsies, including not routinely performing a vulvar examination (22%; Table 1). There are likely various reasons for this, including the assumption that other providers (e.g., gynecology, urology, primary care) are performing vulvar examinations and lack of individual comfort with examining the vulva.

Limitations of our study include the low survey response rate and inclusion of only academic dermatologists. Future studies should focus on eliciting a greater response rate and evaluating dermatologists in private practice and other health care models.

Diagnosis of vulvovaginal conditions is often facilitated by biopsy and dermatologists should be comfortable with vulvar skin/mucosa biopsies. We advocate for the development of additional educational resources to train providers on how to perform vulvar biopsies.

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Study approval

The author(s) confirm that any aspect of the work covered in this manuscript that has involved human patients has been conducted with the ethical approval of all relevant bodies.

Supplementary materials

Supplementary material associated with this article can be found, in the online version, at doi:10.1016/j.ijwd.2021.10.011.

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Conflicts of interest

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