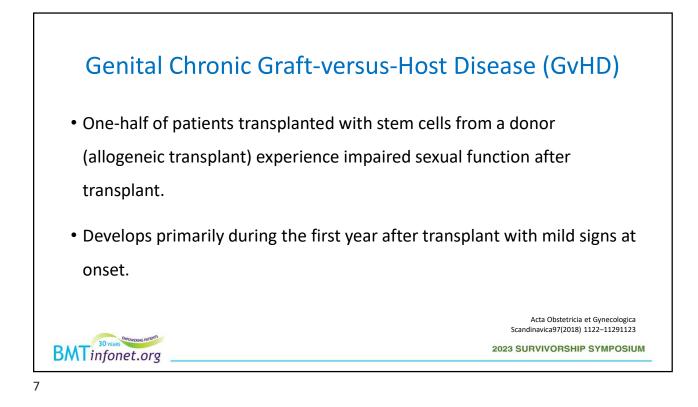
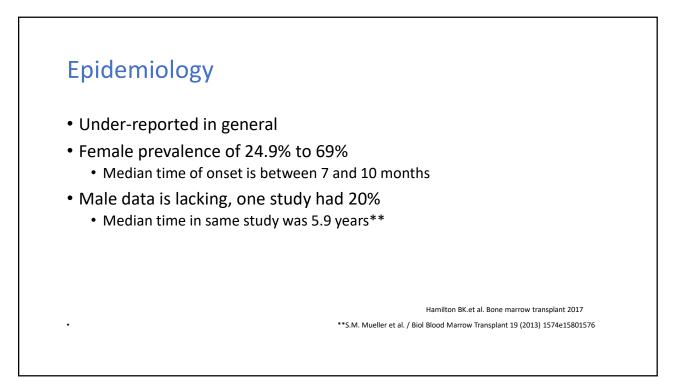
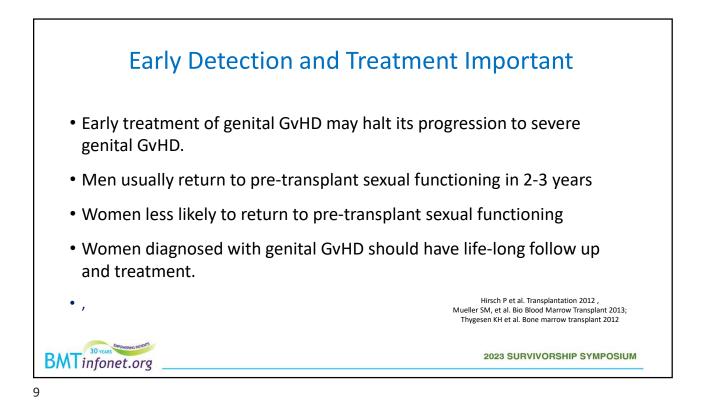


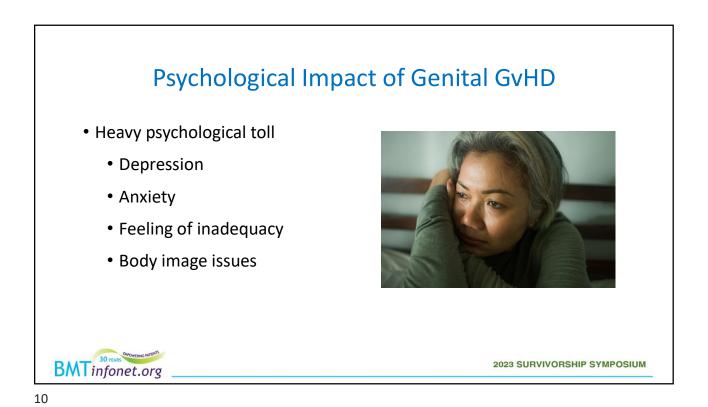
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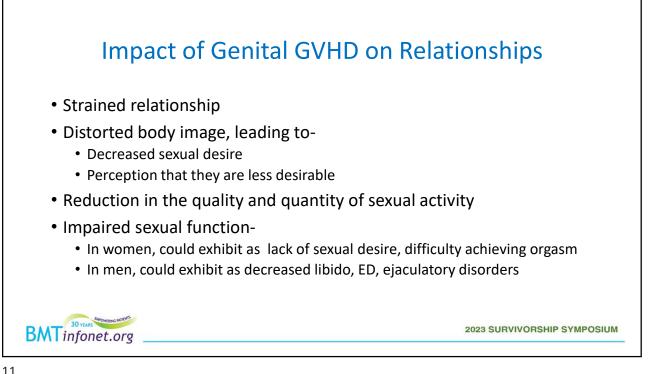
| RISK FACTORS                        | EFFECTS   | Consequences on sexual function  | Possible intervention  |
|-------------------------------------|---|--|--|
| Total Body Irradiation              | gonadal failure   | ↓sexual desire, arousal, and orgasm discomfort<br>during intercourse erectile dysfunction in males               | Hormonal replacement<br>Erectile dysfunction meds,<br>management of stress and r/ship<br>issues                                    |
| GVHD                                | Infertility<br>Vulvar or vaginal dryness<br>Penile dryness<br>Inflammatory changes<br>Vaginal narrowing | Performance stress<br>Pain during intercourse<br>Abnormal ejaculation in males<br>Intercourse becomes impossible | Vulvar/vaginal dryness<br>Penile dryness<br>Lubrication during intercourse<br>Use of vaginal dilators<br>Vaginal low dose estrogen |
| Medications and drug<br>nteractions | Vulvar or vaginal scarring, stenosis<br>antidepressants<br>Antipsychotic medications<br>Beta blocker    | Negative effect on sexual desire, arousal and orgasm<br>Vaginal dryness  | Consider options of reducing dose, of<br>finding an effective alternative<br>medication  |
| Chronic medical<br>problem          | CV complication, diabetes<br>Chronic GVHD<br>Secondary cancer   | $\psi$ sexual interest<br>Erectile dysfunction   | Treatment of underlying medical problems   |
| Psychological distress              | Fatigue<br>Personal well-being and partner<br>r/ship<br>Feeling unattractive                            | $\psi$ sexual interest, negative effect on libido, arousal and orgasm  | Psychotherapy sex therapy  |



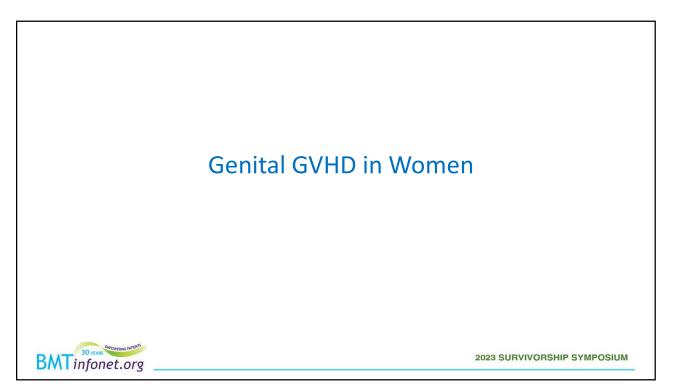


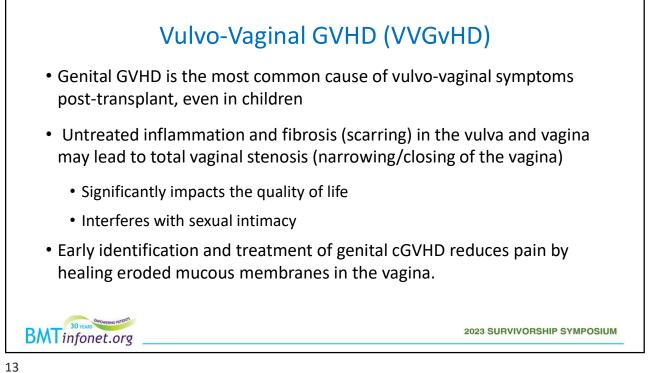




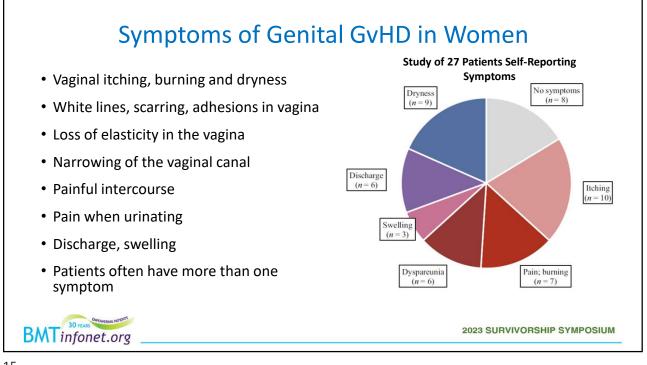


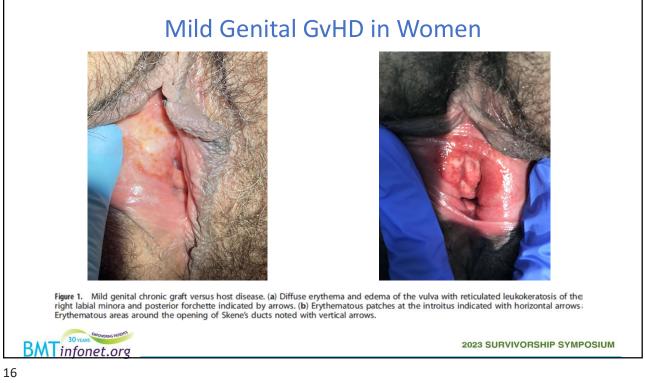




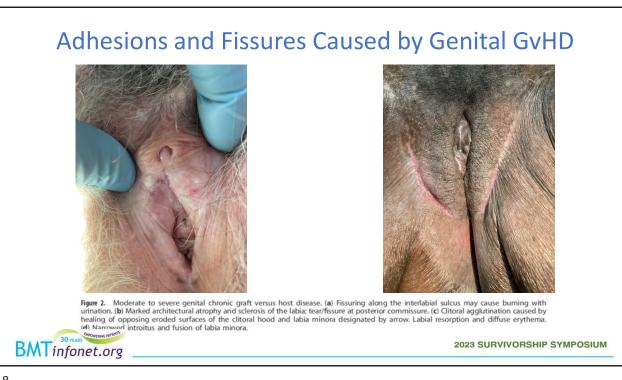


| Reported prevale   | ence            | rang            | es from 24                              | .9% to 69%   |   |
|--|-----------------|-----------------|---|--|---|
|  |                 |                 |   |  |   |
| Could be undere  | stima           | ated            | or under-re                             | eported  |   |
|  |                 |                 |   |  |   |
|  |                 |                 |   |  |   |
|  |                 |                 |   |  |   |
| Table 1 – Prevalence of fem  |                 |                 |   |  | Ctem cell course  |
| Author (year)  | ale geni<br>n   | ital tract<br>% | t graft-versus-host<br>Mean age (years) | <b>disease.</b><br>Donor type  | Stem cell source  |
| Author (year)<br>Spinelli et al. (2003) <sup>16</sup>  |                 | %<br>24.9       | Mean age (years)<br>31                  | Donor type<br>84.1% sibling 15.9% unrelated                              | Not mentioned   |
| Author (year)<br>Spinelli et al. (2003) <sup>16</sup><br>Spiryda et al. (2003) <sup>15</sup>   | n               | %<br>24.9<br>2  | Mean age (years)                        | Donor type<br>84.1% sibling 15.9% unrelated<br>50% sibling 50% unrelated | Not mentioned<br>Not mentioned                            |
| Table 1 – Prevalence of fem<br>Author (year)<br>Spinelli et al. (2003) <sup>16</sup><br>Spiryda et al. (2003) <sup>15</sup><br>Zantomio et al. (2006) <sup>8</sup> | n<br>213        | %<br>24.9       | Mean age (years)<br>31                  | Donor type<br>84.1% sibling 15.9% unrelated                              | Not mentioned   |
| Author (year)<br>Spinelli et al. (2003) <sup>16</sup><br>Spiryda et al. (2003) <sup>15</sup>   | n<br>213<br>501 | %<br>24.9<br>2  | Mean age (years)<br>31<br>42            | Donor type<br>84.1% sibling 15.9% unrelated<br>50% sibling 50% unrelated | Not mentioned<br>Not mentioned<br>34.4% bone marrow 65.6% |

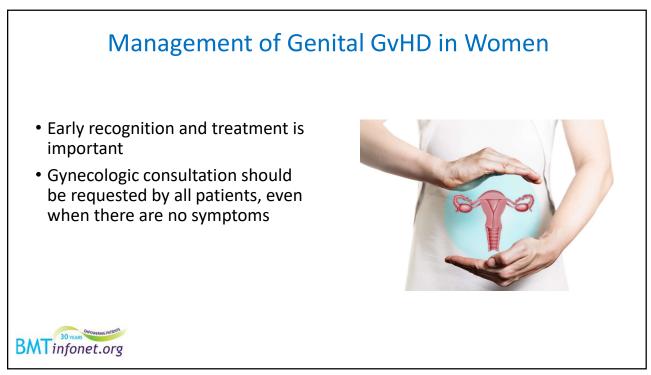












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## Genital GVHD Score Helps Determine Treatment

 Table 1. Clinical score of genital chronic graft-versus-host disease

 adjusted from National Institutes of Health 2005 consensus criteria.

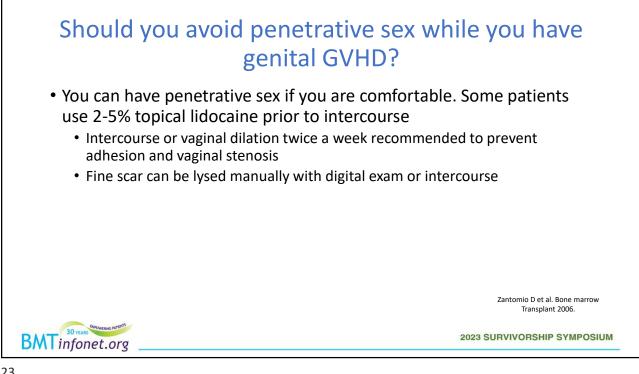
| Score 0                                 | Score 1  | Score 2  | Score 3  |
|---|--|--|--|
| Asymptomatic<br>independent<br>of signs | Symptomatic <sup>a</sup><br>with mild<br>signs <sup>b</sup> ; no<br>effect on<br>coitus or<br>minimal<br>discomfort at<br>gynecologic<br>examination | Symptomatic <sup>c</sup><br>with moderate<br>signs <sup>d</sup> ; mild<br>dyspareunia or<br>discomfort<br>with<br>gynecologic<br>examination | Symptomatic <sup>e</sup><br>with advanced<br>signs <sup>f</sup> ; pain<br>with coitus or<br>inability to<br>insert vaginal<br>speculum |

Clinical scoring is used to classify the impact of chronic graft-versushost disease on affected organ by combining signs and symptoms into one of four categories (score 0–3).

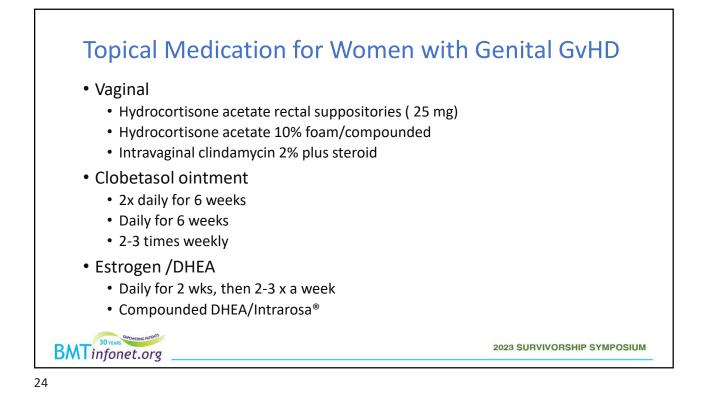
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| Treatment   | Preventive/supportive measures                       | Recommended monitoring   |
|---|--|--|
| Changes involving the vulva<br>Correction of estrogen deficiency with topical<br>estrogen PLUS                              | Surveillance for estrogen deficiency-Rx POF          | Genital exams at 3-6 months after<br>transplantation or sooner based on symptoms<br>, then at least annually |
| High potency topical steroid ointment   | Intermittent dilator use for non-sexually active pts | Consider gynecologic exam at a minimum of<br>every 3 months for pts with known active<br>genital cGVHD       |
| Tacrolimus oint 0.1% alone or in addition to to topical steroid   | Vulvar hygiene to minimize irritation                | Cervical cytology annually<br>Consider HPV vaccine   |
| Changes involving vaginal mucosa<br>As above PLUS   | Use of non irritating personal lubricants            | IF A PT HAS A FLARE- rule out infection and allergic or irritant contact dermatitis                          |
| Intravaginal estrogen<br>Intravaginal steroids<br>Tacrolimus cream/suppository 0.1%( 2mg<br>tacrolimus per 2 g suppository) | Simple emollient to the vulva- Aquaphor®             |  |
| Dilator therapy   | Surveillance for infection and secondary malignancy  |  |
| Vaginal stenosis/synechiae ( fibrosis)<br>As above PLUS   | Education of patients on signs and symptoms          |  |
| Surgical intervention for lysis or reconstruction<br>Dilator therapy to prevent recurrence                                  |  |  |







## Topical Genital GvHD Medication for Women

Table 2. Local treatment schedule of genital chronic graft-versus-host disease.

|                               | Week                          |                 |                 |              |              |              |                 |  |
|-------------------------------|-------------------------------|-----------------|-----------------|--------------|--------------|--------------|-----------------|--|
| Ointment                      | 1-4                           | 58              | 9–10            | 11–14        | 15–18        | 19–22        | 23 <sup>a</sup> |  |
| Estrogen <sup>b</sup>         | Twice a week                  | Twice a week    | Twice a week    | Twice a week | Twice a week | Twice a week | Twice a week    |  |
| Tacrolimus 0.1% <sup>c</sup>  | Every other day               | Every other day |                 |              |              |              |                 |  |
| Tacrolimus 0.03% <sup>c</sup> |                               |                 | Every other day | Twice a week | Twice a week | Once a week  | Once a week     |  |
| Clobetasol 0.05% <sup>c</sup> | Every other day               | Twice a week    | Twice a week    | Twice a week | Once a week  | Once a week  | Not used        |  |
| Vaginal dilator <sup>d</sup>  | Once a week to<br>twice a day |                 |                 |              |              |              |                 |  |

## <sup>a</sup>Maintenance treatment.

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<sup>b</sup>Vulvar and vaginal estriol or estradiol–daily use for 2 weeks before maintenance treatment twice a week; or estradiol vaginal ring (7.5  $\mu$ g/24 h). <sup>c</sup>Keep the amount as low as possible (0.25–0.5 cm).

<sup>d</sup>Gentle painless use includes lubricant, slow insertion, waiting for muscular contractions to relax before continuing insertion and leaving the dila-

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