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| <b>Title of Presentation</b>    | Clinical Burden Across Age Groups Spanning the Menopausal Transition in Women with Indolent Systemic Mastocytosis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>abstract-hint</b>            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Abstract of Presentation</b> | <p><b>BACKGROUND:</b> The influence of the menopausal transition on clinical burden in indolent systemic mastocytosis (ISM) remains poorly characterized. Given that mast cells express receptors for female sex hormones, we evaluated whether symptom and skeletal burden differ across age groups spanning the typical menopausal transition. <b>METHODS:</b> We conducted a retrospective cohort study of 195 women with ISM identified from the EHR using Big Query evaluated at Mayo Clinic Rochester, Phoenix, and Jacksonville from 2002–2026. Patients were stratified into age groups spanning the typical menopausal transition: 55 years. Symptom burden was defined as the total number of mastocytosis-related symptoms at diagnosis. Multivariable linear regression adjusted for serum tryptase and KIT D816V status. <b>RESULTS:</b> Among 195 women, median age 49(18-82), 99.5% White, 72 were aged 55 years. Total symptom burden increased progressively across groups (median 6 vs. 9 vs. 12; <math>p&lt;.001</math>). Neurocognitive symptoms increased from 43% to 52% to 86% (<math>p&lt;.001</math>), and osteoporosis from 0% to 17% to 41% (<math>p&lt;.001</math>). Women aged 55 years (<math>\beta=5.9</math>, <math>p&lt;.001</math>) had greater symptom burden than women aged <math>&lt;45</math> years, after adjustment for serum tryptase and KIT</p> |

D816V status. CONCLUSION: Women with ISM demonstrated progressively greater clinical burden across age groups spanning the menopausal transition. These findings support prospective longitudinal studies incorporating clinically documented menopausal status and hormonal measures to distinguish the effects of aging from the menopausal transition.