

Supplementary Table S3—Mast cell tumor 2-tier grading scheme (Kiupel et al. 2011)

| Grade | Mitotic count (mitotic figures/2.37 mm² equivalent of 10 hpf) | Multinucleated (3 or more nuclei) cells/2.37 mm² equivalent of 10 hpf | Bizarre nuclei (highly atypical with marked indentations, segmentation, and irregular shape)/2.37 mm² equivalent of 10 hpf | Karyomegaly (nuclear diameters of $\geq 10\%$ of neoplastic mast cells vary by at least two-fold) |
|--------------|---|---|--|---|
| Low | <7 | <3 | <3 | No |
| High* | ≥ 7 | ≥ 3 | ≥ 3 | Yes |

*Fulfillment of any one of the listed criteria results in high grade classification