Supplemental Table S3: WHO 2008 Diagnostic Criteria for Systemic Mastocytosis (SM).\(^1\)

**WHO**: World Health Organization; **MC**: mast cell.

**Major Criterion:**
1. Multifocal dense infiltrates of MCs (>15 mast cells in aggregates) in bone marrow biopsies and/or in sections of other extracutaneous organ(s) (CD117-, tryptase- and CD25-stained)

**Minor Criteria:**
1. Abnormal spindle-shaped morphology in >25% of MCs in marrow or other extracutaneous organ(s)
2. Abnormal marrow MC expression of CD2 and/or CD25 (i.e., co-expression of CD117/CD25 or CD117/CD2)
3. Activating KIT mutation at codon 816 in in marrow, blood, or extracutaneous organ(s)
4. Serum total tryptase > 20 ng/mL (does not apply in patients who have associated hematologic non-mast-cell lineage disease)

Diagnosis of SM made by either (1) major criterion + any one or more minor criteria, or (2) any three minor criteria.

---