HER2 Testing in Gastric Cancer: Algorithm for Pathologists

Tissue sample from patient diagnosed with GEA

- Perform HER2 test using IHC

**Surgical Specimen**
- Strong, complete basolateral or lateral membranous reactivity in ≥10% of tumor cells

**Biopsy Specimen**
- Tumor cell cluster* with strong, complete basolateral or lateral membranous activity irrespective of percentage of tumor cells stained

**Surgical Specimen**
- Weak to moderate, complete basolateral or lateral membranous reactivity in ≥10% of tumor cells

**Biopsy Specimen**
- Tumor cell cluster* with weak to moderate, complete basolateral or lateral membranous activity irrespective of percentage of tumor cells stained

**Surgical Specimen**
- Faint/barely perceptible membranous reactivity in ≥10% of tumor cells; cells reactive only in part of their membrane

**Biopsy Specimen**
- Tumor cell cluster* with faint or barely membranous reactivity irrespective of tumor cells stained

**Surgical Specimen**
- No reactivity or membranous reactivity in <10% of tumor cells

**Biopsy Specimen**
- No reactivity in any tumor cells

- IHC 3+ Positive
  - No further ISH testing is required
- IHC 2+ Equivocal
- IHC 1+ Negative
  - No further ISH testing required
- IHC 0 Negative

* Tumor cell cluster