Gastric MALT Posttherapy Follow-up Algorithm

**Known MALT1 rearrangement**
- Perform the following immunostains: H&E, CD3, CD20, Pax5, H pylori, USS for FISH and other stains as needed
  - B cells present, diagnostic for recurrent/residual MALT lymphoma
    - MALT1 FISH positive: Diagnostic for recurrent/residual MALT lymphoma
    - MALT1 FISH negative: Negative for residual MALT lymphoma
  - B cells present, equivocal for recurrent/residual MALT lymphoma
    - Perform MALT1 breakapart FISH (BLYMF / B-Cell Lymphoma, FISH, Tissue)
    - MALT1 FISH positive: Diagnostic for recurrent/residual MALT lymphoma
    - MALT1 FISH negative: Negative for residual MALT lymphoma
  - No B cells present
    - Few B cells present but not diagnostic. Favor reactive
    - B cells present but not diagnostic. Suspicious for MALT lymphoma
    - Diagnostic for recurrent/residual MALT lymphoma
    - Negative for recurrent/residual MALT lymphoma

**Negative for known MALT1 rearrangement**
- Perform the following immunostains: H&E, CD3, CD20, Pax5, H pylori, USS for FISH and other stains as needed
  - Perform BCRGRV / Immunoglobulin Gene Rearrangement, Varies as needed

**Unknown MALT1 status**
- Perform the following immunostains: H&E, CD3, CD20, Pax5, H pylori, USS for FISH and other stains as needed
  - Perform BCRGRV / Immunoglobulin Gene Rearrangement, Varies as needed

**Posttherapy Biopsy**
- Order PATHC / Pathology Consultation

**Negative for known MALT1 rearrangement**
- Perform the following immunostains: H&E, CD3, CD20, Pax5, H pylori, USS for FISH and other stains as needed
  - B cells present but not diagnostic. Favor reactive
  - B cells present but not diagnostic. Suspicious for MALT lymphoma
  - Diagnostic for recurrent/residual MALT lymphoma
  - Negative for recurrent/residual MALT lymphoma

**Diagnostic for recurrent/residual MALT lymphoma**
- Perform MALT1 breakapart FISH (BLYMF / B-Cell Lymphoma, FISH, Tissue)
- MALT1 FISH positive: Diagnostic for recurrent/residual MALT lymphoma
- MALT1 FISH negative: Negative for residual MALT lymphoma

**Negative for residual MALT lymphoma**
- MALT lymphoma: MALT1 rearrangement positive
- MALT lymphoma: MALT1 rearrangement negative

**Diagnostic for MALT lymphoma**
- Perform MALT1 breakapart FISH (BLYMF / B-Cell Lymphoma, FISH, Tissue)
- MALT1 FISH positive
- MALT1 FISH negative

**B cells present but not diagnostic. Suspicious for lymphoma**
- Negative for MALT lymphoma
- Few B cells present but not diagnostic. Favor reactive

**Posttherapy Follow-up Algorithm**

MALT=Mucosa-associated lymphoid tissue
H&E=Hematoxylin and eosin
H pylori=Helicobacter pylori