

Pt. Name:	فاطمه يحيى احمد ناجي		Lab Number:	3288-2026	
Pt. Age:	73 years.	Gender:	Female	Received date:	2026-05-12
Referred By:	أ.د/ علي عبد الله الأشول		Reported date:	2026-05-19	

PATHOLOGY REPORT

Clinical Information.	Referred block for immunostaining of gastric mucosal biopsy diagnosed as adenocarcinoma elsewhere.
Nature of specimen.	Immunohistochemistry

GROSS:

Paraffin block for immunostaining.

MICROSCOPIC:

Partially ulcerated gastric and esophageal mucosal fragments infiltrated by an invasive moderately differentiated adenocarcinoma. The tumor is composed of crowded, irregular, and angulated and cribriform glands exhibiting fused and back-to-back architecture with minimal intervening stroma. These neoplastic structures are set within a desmoplastic background and are lined by atypical epithelial cells demonstrating nuclear enlargement, hyperchromasia, pleomorphism, loss of polarity, and prominent nucleoli.

Immunostaining was done with appropriate positive and negative controls and revealed:

- **Her2/neu:** Negative score 0.
- **Mismatch Repair (MMR) Immunohistochemistry:** Intact nuclear expression of MLH1, PMS2, MSH2, and MSH6 within the neoplastic cells (internal non-neoplastic controls verified).

Mismatch Repair Proficient (pMMR), demonstrating a low probability of Microsatellite Instability-High (MSI-H) status per CAP guidelines.

DIAGNOSIS:

Esophagus and Stomach, Gastroesophageal Junction Biopsy & Immunostaining:

- **Adenocarcinoma, tubular type, moderately differentiated.**
- **HER2/neu: Negative (Score 0), indicating the tumor is not a candidate for anti-HER2 targeted therapy.**
- **Mismatch Repair (MMR) Status: Mismatch Repair Proficient (pMMR), as evidenced by intact nuclear expression of MLH1, PMS2, MSH2, and MSH6, indicating a low probability of Microsatellite Instability-High (MSI-H) status.**

Pathologist

Prof. Dr. Neveen Tahoun, MD, PhD
19-05-2026

Nerveen Tahoun