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| **Pt. Name:** | حميده سعيد محمد السفياني | | | **Lab Number:** | 3401-2026 |
| **Pt. Age:** | 70 years. | **Gender:** | Female | **Received date:** | 2026-05-16 |
| **Referred By:** | د/ عدنان الديلمي | | | **Reported date:** | 2026-05-21 |

# PATHOLOGY REPORT

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| **Clinical Information.** | Paraplegia. Thoracic vertebra T2? Mets? TB. Laminectomy with decompression was done. |
| **Nature of specimen.** | Vertebral body, lignament and posterior column biopsies |

## GROSS:

Two biopsy were received:

1- Vertebral body: bone fragments collectively measuring 1x0.8x0.3 cm, totally embedded.

2- Ligament with posterior column: Soft and bone tissue fragments collectively measured 3.5x3x1 cm, totally embedded.

## MICROSCOPIC:

- Submitted fragments showing bone trabeculae enclosing a hypercellular marrow space with reduced adipose tissue. The intertrabecular space is focally infiltrated by a monotonous population of small-to-medium-sized round mononuclear cells exhibiting plasmacytoid features. Given the morphology and location, differential possibilities include; an inflammatory reaction, plasma cell neoplasm or lymphoproliferative disorder. To establish a definitive diagnosis, a targeted panel of immunohistochemical markers is recommended, including CD138, MUM1, CD20, CD3, CD1a, and Langerin.

- Sections of the submitted posterior elements and soft tissue reveal dense bands of fibroconnective tissue corresponding to ligamentous structures, displaying parallel collagen bundles and scattered, benign spindle-shaped fibroblasts. Interspersed are small fragments of mature lamellar bone, focal fascicles of skeletal muscle, and normal adipose tissue showing no significant atypia. There is no evidence of direct extension of the round-cell marrow infiltrate into the evaluated ligamentous or skeletal muscle soft tissues.

## DIAGNOSIS:

***Vertebra, biopsy, and posterior elements:***

- **Hypercellular bone marrow with plasmacytoid cell infiltrate.**
- **Recommended for definitive typing by marker study.**

***Pathologist***

**Prof. Dr. Neveen Tahoun, MD, PhD**
**21-05-2026**

Nereen Tahoun