DOI: 10.4274/tjh.galenos.2025.2025.0327 **[Epub Ahead of Print]**
Turk J Hematol 2026;43:108-109

Multiple Myeloma with Hairy Cell-Like Plasma Cells

Tüylü Hücre Benzeri Plazma Hücreleri İçeren Multipl Miyelom

İrfan Yavaşoğlu, Yusufcan Aygül, Atakan Turgutkaya

Aydın Adnan Menderes University Faculty of Medicine, Department of Hematology, Aydın, Türkiye

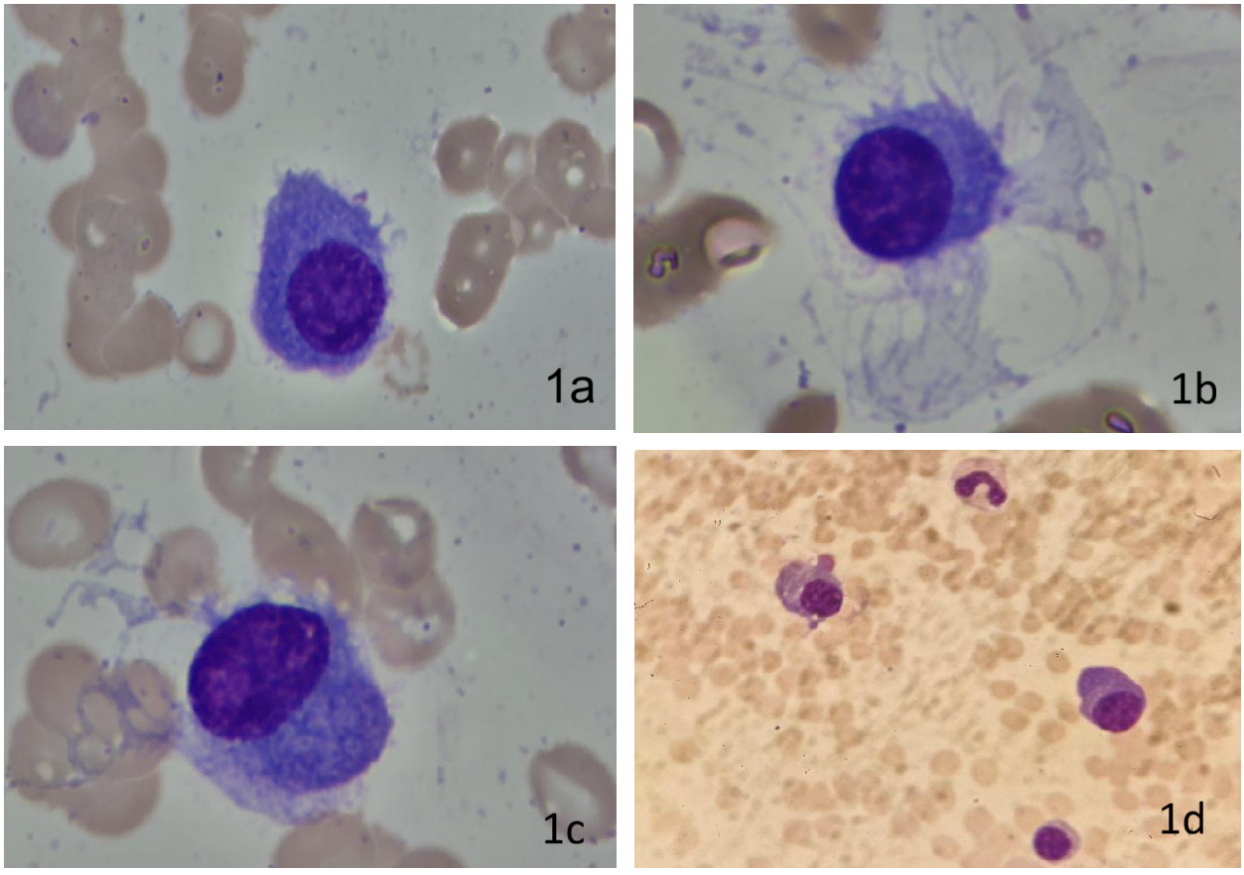

Figure 1. a-c) Plasma cells with diffuse hairy cell-like cytoplasmic projections. d) A minority of plasma cells without projections.

Plasma cells (PCs) exhibiting different shapes and containing inclusions constitute a rare finding [1,2]. A 68-year-old woman was evaluated for lumbar pain. Anemia and lytic lesions were detected. She was diagnosed with immunoglobulin G-kappa multiple myeloma (MM) of stage 2 according to the Revised Multiple Myeloma International Staging System. The bone marrow aspirate showed PCs with diffuse, hairy cell-like cytoplasmic projections (Figures 1a-1c). These PCs were

Address for Correspondence/Yazışma Adresi: Asst. Prof. Atakan Turgutkaya, M.D., Aydın Adnan Menderes University Faculty of Medicine, Department of Hematology, Aydın, Türkiye
E-mail: atakanturgutkaya@yahoo.com.tr **ORCID:** orcid.org/0000-0001-8428-4730

Received/Geliş tarihi: August 3, 2025
Accepted/Kabul tarihi: November 28, 2025
Epub: December 3, 2025

positive for CD38, CD138, and kappa and negative for FMC and CD11c. Annexin V and tartrate-resistant acid phosphatase immunohistochemical staining tests were negative. The minority of PCs that did not exhibit hairy projections are presented here for comparison (Figure 1d). In terms of the patient's cytogenetic findings, the conventional karyotyping result was 46XX and there were no significant features in the results for translocation (11,14), (8,14), (14,16), (14,20), 1q amplification, or deletion 17p. The patient was started on weekly bortezomib-lenalidomide-dexamethasone and monthly zoledronic acid, and she is currently at the beginning of the treatment.

The coexistence of MM and hairy-cell leukemia has rarely been reported in the literature. MM cases with PCs appearing like hair cells are very rare [1,2]. The majority of these cases were presented as plasma cell leukemia (PCL) and it was suggested that the presence of a chromosome 13 abnormality may be more common in this population. No significant heavy-light chain association was observed [2]. Our case was not PCL and we did not detect a chromosome 13 abnormality. In hematology practice, PC morphology should be carefully evaluated. The impact of the presence of a hairy cell-like appearance on patient prognosis can be determined with long-term follow-up.

Keywords: Multiple myeloma, Hairy cell, Plasma cell

Anahtar Sözcükler: Multipl miyelom, Tüylü hücre, Plazma hücresi

Ethics

Informed Consent: The informed consent for publication was obtained from the patient.

Footnotes

Authorship Contributions

Surgical and Medical Practices: İ.Y., Y.A., A.T.; Concept: İ.Y., Y.A., A.T.; Design: A.T.; Data Collection or Processing: İ.Y., Y.A.; Analysis or Interpretation: İ.Y., A.T.; Literature Search: İ.Y.; Writing: A.T.

Conflict of Interest: No conflict of interest was declared by the authors.

Financial Disclosure: The authors declared that this study received no financial support.

References

1. Algino KM, Hendrix LE, Henderson CA, Banks PM, Craig FE. Multiple myeloma with hairy cell-like features. Am J Clin Pathol. 1997;107:665-671.
2. Álvarez Flores MB, Jiménez Rolando M, Del Amo Del Arco N, Massó Asensio P, Guillén Santos R, Cava-Valenciano F. A rare finding of plasma cell leukaemia with hairy-cell morphology. Pathology. 2024;56:452-455.