

## Paraprotein-Induced Discordance Between Direct and Total Bilirubin Levels in Patients with Myeloma: A Case Series

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### Abstract:

**Introduction:** Elevated direct bilirubin levels despite normal or low total bilirubin values pose a diagnostic challenge in patients with myeloma. Paraproteins present in these patients may interfere with direct bilirubin measurement, leading to discrepancies between direct and total bilirubin levels.

**Objectives:** This case series aims to illustrate the impact of paraproteins on direct bilirubin measurement in patients with myeloma and highlight the variability in paraprotein composition among different cases.

**Methods:** Four cases of patients diagnosed with myeloma were identified, each presenting with high direct bilirubin levels and normal total bilirubin values. Total and direct bilirubin levels were measured on Beckman Coulter Biochemical Analyzers using Beckman Coulter reagents. Additionally, the medical histories and treatment regimens of these patients were different, highlighting the variability in their conditions and management approaches.

**Conclusion:** The presence of paraproteins in patients with myeloma can lead to discordant direct and total bilirubin levels, highlighting the need for further research to elucidate the clinical implications of these findings. Understanding the influence of paraproteins on direct bilirubin measurement is crucial for optimizing the management of patients with myeloma. This case series underscores the importance of considering paraprotein interference in interpreting bilirubin levels in patients with myeloma.