Marfan syndrome with aortic dissection in immediate postpartum: a case report

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This case report details the presentation of Marfan Syndrome (MS) with aortic dissection during the immediate postpartum period in a 27-year-old female. Afflicted with a confirmed diagnosis of Marfan Syndrome, a family history of consanguinity, and recent caesarean section, the patient experienced sudden chest pain, dyspnoea, and elevated blood pressure seven days postpartum. Diagnostic imaging, including echocardiography and CT angiogram, revealed a Stanford Type B/DeBakey Type IIIB aortic dissection.

Prompt admission to the Intensive Care Unit ensued, and the patient underwent surgical interventions, including a nephrostomy and aortic endoprosthesis with left subclavian artery embolization. Over a 20-day hospitalization, the patient exhibited clinical improvement despite initial challenges in blood pressure control.

This case underscores the heightened risk of aortic dissection in the postpartum period for Marfan Syndrome patients, emphasizing the necessity of timely diagnosis, multidisciplinary care, and surgical intervention. Increased awareness among healthcare providers is crucial for early detection and intervention in this vulnerable population.