**Acute transverse myelitis related to BNT162b2 vaccine in a teenage girl**

**INTRODUCTION**

BNT162b2 vaccine-associated TM has not been reported yet in children. The incidence is approximately 1.739/per million adult people as reported by the previous COVID-19 vaccine adverse event database. We present a case of transverse myelitis that developed after the BNT162b2 vaccine.

**CASE REPORT**

A 13-year-old female patient presented with lower-limb weakness and urinary retention after receiving the first dose of the BNT162b2 vaccine. On physical examination; she had gait disturbance, ataxia, and spastic paraparesis in the lower extremities and her muscle strength was 3/5. The patient had a globe vesicle and hyperreflexia in the lower extremity. Covid-19 PCR and IgM were negative. At the same time, Covid-19 IgG was positively detected. In spinal MR imaging showed that long extensive TM was observed at the C2-T7 level. The patient diagnosed with acute TM was given ıv methylprednisolone pulse therapy. There was a significant improvement in the clinical findings of the patient such as muscle weakness, urinary retention and defecation problems.

**DISCUSSION:**

Because of Covid-19 pandemia; many different types of covid 19 vaccines have been administered in the last two years. Rarely; although Covid-19 vaccine-associated TM has been reported in adult cases, Covid-19 vaccine-related TM has not been identified yet in children. Our case is very important in this respect