

PARVOVIRUS B19 INFECTION

Clinical presentation and diagnosis

- Parvovirus can cause pure red cell aplasia in patients receiving Rituximab.⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾
- Usually presented with persistent anemia of unknown etiology, sometimes following a febrile illness with a rash.⁽¹⁾
- The total immunoglobulin level may be within normal limits and serology against B19 is negative.
- The diagnosis is usually made by **PCR**.
- The presence of large pronormoblasts with nuclear inclusion bodies in the **bone marrow biopsy** may suggest the diagnosis.⁽³⁾

Treatment

The reported cases responded to **high-dose IVIG**.⁽¹⁾⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾

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 - (2) Isobe Y, Sugimoto K, Shiraki Y, Nishitani M, Koike K, Oshimi K. Successful high-titer immunoglobulin therapy for persistent parvovirus B19 infection in a lymphoma patient treated with rituximab-combined chemotherapy. *Am J Hematol*. 2004;77:370 –3.
 - (3) Sharma VR, Fleming DR, Slone SP. Pure red cell aplasia due to parvovirus B19 in a patient treated with rituximab. *Blood*. 2000;96:1184 – 6.
 - (4) Song KW, Mollee P, Patterson B, Brien W, Crump M. Pure red cell aplasia due to parvovirus following treatment with CHOP and rituximab for B-cell lymphoma. *Br J Haematol*. 2002;119:125–7.
 - (5) Klepfish A, Rachmilevitch E, Schattner A. Parvovirus B19 reactivation presenting as neutropenia after rituximab treatment. *Eur J Intern Med*. 2006;17:505–7.

