

# Severe Kawasaki disease caused by parvovirus B19 infection?

## Schweres atypisches Kawasaki getriggert durch Parvovirus B19?

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### Introduction:

The symptoms of parvovirus B19 infection overlap with those of Kawasaki syndrome. Parvovirus B19 infection can cause severe (atypical) Kawasaki syndrome, as described in a case report of two children (1). In a sample of 15 patients with mucocutaneous lymph node syndrome, concurrent or temporally related parvovirus B19 infection was found in two-thirds (2). Other authors describe parvovirus infection mimicking atypical Kawasaki syndrome with persistent fever and rash (3).

### Methods:

A case report of a four-year-old boy with atypical Kawasaki syndrome is presented. The clinical course and therapeutical challenges are described.

Figure 1: Diffuse painful erythema nodosum, predominantly on the lateral dorsum of the foot.



Figure 2: Disease progression of atypical Kawasaki syndrome. The time axis is not shown proportionally.

### Conclusions:

Parvovirus B19 infection before and during Kawasaki syndrome was associated with several complications in this four-year-old boy, including haemolytic anaemia, hyperleukocytosis, and erythema nodosum. The haemolytic anaemia may be due to intravenous immunoglobulin (IVIG) administration (4) or parvovirus B19 infection/reactivation. Erythema nodosum is occasionally seen in association with Kawasaki syndrome (5). In this case erythema nodosum and hyperinflammation could be related to the prolonged disease activity due to late diagnosis, resulting in the need for extended steroid therapy.

#### References

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