

## Successful use of factor viii concentrate and fresh frozen plasma for four dental extractions in an individual with combined factor v and VIII deficiency

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### Abstract

Background: Combined factor V and VIII deficiency (CF<sup>v</sup>F<sup>viii</sup>D) is a rare autosomal recessive disorder, with an estimated prevalence of about 1:100,000 in the Jewish population. Affected individuals have between 0 and 30% of normal levels of factor V and VIII, whereas the levels of other plasma proteins are not altered. This bleeding disorder has been treated by replacement therapy with plasma infusion and FVIII concentrate as source of factor V and VIII, respectively, depending on the severity of the haemorrhage. Case Report: The individual with CF<sup>v</sup>F<sup>viii</sup>D was a 22-year-old man with APTT of 21 s (control 32 s), PT of 27 s (control 12 s), factor V of 13%, and factor VIII of 21%. He had four untreatable carious teeth, including the maxillary first premolars and the mandibular first and second right molar. Factor VIII concentrate infusion began 12 h before the first dental extraction procedure and was continued in 4 h intervals. Moreover, 10 ml/kg of fresh frozen plasma were given for compensating factor V deficiency. No remarkable haemorrhage occurred during and after the procedures. The levels of factor V and VIII post procedures were 64 and 70%, respectively. Conclusion: It seems that plasma levels of 60-70% for both factor V and VIII may be sufficient for major dental procedures. Copyright © 2009 S. Karger AG, Basel.

### Reaxys Database Information

### Author keywords

Combined factor V and VIII deficiency; Dental extraction; Factor VIII concentrate; Fresh frozen plasma

### Indexed Keywords

**EMTREE drug terms:** blood clotting factor v; blood clotting factor viii; fresh frozen plasma; koate dvi; unclassified drug

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