Nadroparin calcium/reviparin sodium S

Thrombocytopenia: case report

A 57-year-old man developed heparin-induced thrombocytopenia (HIT) after receiving reviparin sodium, and later, nadroparin calcium.

The man, who was a polytraumatised traffic accident victim, was transferred to a trauma clinic 8 days after trauma due to osteosynthesis of an acetabular fracture. From the second day postinjury, he had been receiving prophylactic SC injections of the low molecular weight heparin reviparin sodium 3.436 anti-Xa once daily. Upon admission, he started prophylactic SC injection of the low molecular weight heparin nadroparin calcium 3800 anti-Xa once daily, with a 12-hour delay followed by epidural catheter application. On the third day after admission, 8 days after low molecular weight heparin treatment, he developed psychomotor agility with tachypnoea and respiratory insufficiency. He was intubated and started mechanical ventilation. Tests showed an evident drop in his platelet level to $71 \cdot 10^9$/L, and a significant increase in D-dimer level to 7.4 mg/L. Thrombocytopenia continued during the fourth day. HIT was highly suspected. The following day, the presence of platelet-activating antibodies of IgG was confirmed, and he had a platelet count of $53 \cdot 10^9$/L, and a D-dimer level of 15.4 mg/L.

The man started lepirudin, and his activated partial thromboplastin time decreased. His platelet count later increased to $112 \cdot 10^9$/L. On day 23, his platelet count was $360 \cdot 10^9$/L, and he underwent surgery. Blood loss was as expected for the operation. Subsequently, lepirudin was withdrawn, and he received rivaroxaban.

Author comment: *"Our aim is to point at the use of lepirudin therapy in HIT after several trauma, as well as its importance in allowing the performance of necessary surgical treatment despite the appearance of HIT."*

Bartolek D, et al. Lepirudin and heparin-induced thrombocytopenia in a trauma patient with acetabulum fracture: A case report. Neurologia Croatica 62 (Suppl. 2): 27-31, 2013 - Croatia   803102553