Lingual haematoma after treatment with alteplase (recombinant tissue plasminogen activator) for acute myocardial infarction

Stephen R McMahan, Brian Morrow, Norman P S Campbell

Figure 1 Anterior view of tongue haematoma 24 hours after onset.

A 69 year old previously healthy man was admitted with a 40 minute history of chest pain. The electrocardiograph showed evidence of an acute anterolateral myocardial infarction (MI). He was treated with soluble aspirin (300 mg), heparin (5000 units bolus), alteplase (rt-PA) (100 mg), and heparin infusion (1000 units/h).

An hour and 50 minutes later he complained of a dry mouth and examination showed considerable swelling and discoulouration of the tongue and floor of the mouth, with the tongue occupying about 75% of the oral cavity. The appearances were consistent with an extensive spontaneous lingual haematoma (figs 1 and 2). There had been no trauma or instrumentation in the mouth. The patient could not speak clearly but did not have dysphonia or stridor. The activated partial thromboplastin time was 95-2 seconds and the plasma fibrinogen concentration was 1.94 g/l (normal ranges 2.9–4.0 s and 2.5–4.5 g/l respectively). The heparin infusion was stopped and protamine (45 mg) given.

The patient was transferred to the intensive care unit where he was observed to see whether he needed intubation. Respiratory distress did not develop. Recovery was uneventful and bruising in the soft tissue of the anterior neck and submandibular areas persisted for 10 days (fig 3).

Haemorrhage into the tongue is a very rare complication of thrombolysis. It has been reported after streptokinase treatment for acute MI.1 The patient should be managed in a unit with facilities for complex intubation techniques.

Although swelling of the tongue after thrombolytic treatment may indicate anaphylaxis (which is well recognised with streptokinase but has also been reported with alteplase2), the possibility of lingual haematoma should be considered.

Lingual haematoma after treatment with alteplase (recombinant tissue plasminogen activator) for acute myocardial infarction.

S. R. McMechan, B. Morrow and N. P. Campbell

Br Heart J 1995 74: 205
doi: 10.1136/hrt.74.2.205

Updated information and services can be found at:
http://heart.bmj.com/content/74/2/205.citation

These include:

- Email alerting service
  Receive free email alerts when new articles cite this article. Sign up in the box at the top right corner of the online article.

Notes

To request permissions go to:
http://group.bmj.com/group/rights-licensing/permissions

To order reprints go to:
http://journals.bmj.com/cgi/reprintform

To subscribe to BMJ go to:
http://group.bmj.com/subscribe/