

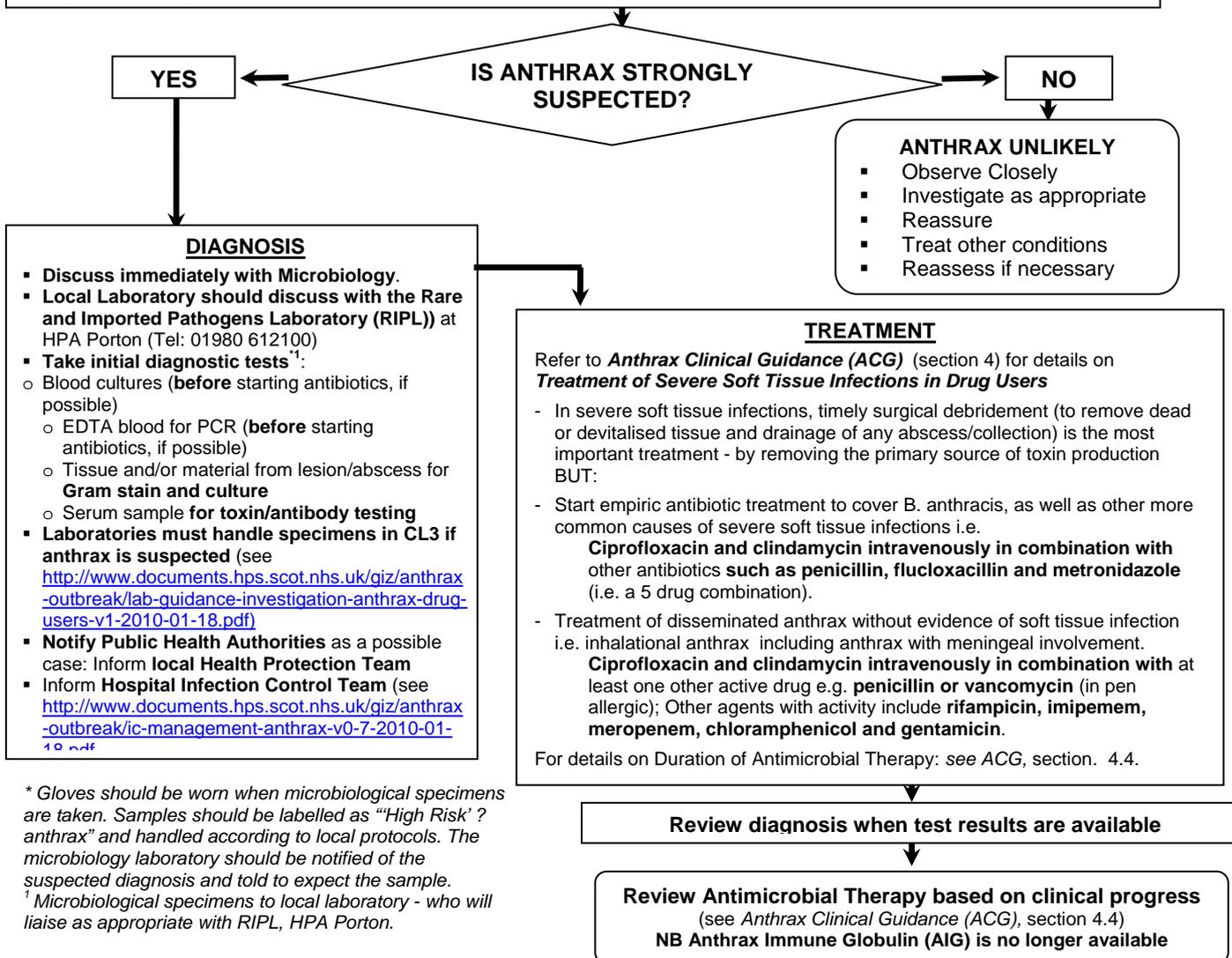
Clinical Algorithm. Clinical Evaluation and Management of Drug Users with Possible Anthrax

Anthrax Infection Suspected in a Drug User

Any drug user who presents with the following should be considered as possible cases of anthrax:

- **Severe soft tissue infection**, including **possible necrotising fasciitis or cellulitis/abscess** particularly if associated with tissue oedema (often marked). This can present as a **compartment syndrome**.
- **Signs of severe sepsis** even without evidence of soft tissue infection.
- **Meningitis** (particularly haemorrhagic meningitis). Also be suspicious if drug users present/ have CT evidence suggestive of a subarachnoid haemorrhage/intracranial bleed).
- **Signs and symptoms of inhalational anthrax** :
 - Flu-like illness, progressing to severe respiratory difficulties and shock
 - Chest x-ray signs (pleural effusions, mediastinal widening, paratracheal fullness, hilar fullness, parenchymal infiltrates)
 - Progressively enlarging haemorrhagic pleural effusions are a consistent feature
- **Respiratory symptoms** may also be accompanied by signs and symptoms suggesting meningitis or intracranial bleeding in the rapidly advancing stages of the disease process due to haematogenous spread.
- Cases of **disseminated anthrax whether 'injectional' or inhalational** may present with a variety of symptoms such as abdominal pain, nausea, vomiting, diarrhoea, gastrointestinal haemorrhage, ascites etc. suggestive of either GI involvement or actual gastrointestinal anthrax.

NB: A drug user could also present with the signs and symptoms of classical cutaneous anthrax (see separate algorithm: *Clinical evaluation and management of persons with possible cutaneous anthrax*). In the recent outbreak, the presentation has been one of mainly soft tissue sepsis, rather than classical features of black eschar.



* Gloves should be worn when microbiological specimens are taken. Samples should be labelled as "High Risk? anthrax" and handled according to local protocols. The microbiology laboratory should be notified of the suspected diagnosis and told to expect the sample.

¹ Microbiological specimens to local laboratory - who will liaise as appropriate with RIPL, HPA Porton.

See also Anthrax Clinical Guidance (ACG) at <http://www.documents.hps.scot.nhs.uk/giz/anthrax-outbreak/clinical-guidance-for-use-of-anthrax-immune-globulin-v12-1-2010-03-19.pdf>