



Section: 10. Medicines affecting the blood > 10.2. Medicines affecting coagulation

EMLc

ATC codes: V03AB14

Indication	Haemorrhagic disorder due to circulating anticoagulants or coagulation factors inhibitors ICD11 code: 3B21
INN	Protamine sulfate
Medicine type	Chemical agent
List type	Core (EML) Complementary (EMLc)
Formulations	Parenteral > General injections > IV: 10 mg per mL in 5 mL ampoule
EML status history	First added in 1977 (TRS 615) Changed in 1979 (TRS 641) Changed in 1984 (TRS 722) Changed in 2007 (TRS 950)
Sex	All
Age	Also recommended for children
Therapeutic alternatives	The recommendation is for this specific medicine
Patent information	Patents have expired in most jurisdictions Read more <a href="#">about patents</a> .
Wikipedia	<a href="#">Protamine sulfate</a>
DrugBank	<a href="#">Protamine sulfate</a>

### Summary of evidence and Expert Committee recommendations

Protamine sulfate was added to the complementary list of the EMLc to reverse the effect of heparin. The Subcommittee accepted that medicines affecting coagulation were essential for children and endorsed protamine sulfate for inclusion in the EMLc. Because of the need for specialist supervision of the administration of heparin sodium, protamine sulfate and warfarin in children, the Subcommittee recommended that these three medicines be included in the Complementary List.

