

# 306 Anti-tPA antibody Fab opportunity

## ► Asset Overview

<b>Product Type</b>	Antibody
<b>Indication</b>	Stroke, Pulmonary embolism, Myocardial infarction
<b>Current Stage</b>	Pre-clinical
<b>Target(MoA)</b>	Anti-tPA antibody
<b>Brief Description</b>	<ul style="list-style-type: none"> <li>LifeArc's humanized anti-tPA antibody Fab which is a monoclonal antibody fragment (Fab) that inhibits tPA</li> </ul>
<b>Organization</b>	LifeArc

## ► Differentiation

### □ Tissue plasminogen activator (tPA) risk of bleeding

- tPA is a protein involved in the breakdown of blood clots. However, tPA increases the risk of bleeding and can cause significant and, sometimes, fatal bleeding. the rates of tPA-induced **intracranial hemorrhage (ICH) is 5-7% with 50% mortality.**
- The most common adverse reactions reported with commercial tPA were related to gastritis-like symptoms and bleeding.
- In 2011, around 2% to 5% of patients with acute ischemic stroke receive tPA in the U.S. Anti tPA Fab is a monoclonal antibody fragment (Fab) that inhibits tPA.

### □ Commercialisation plan

- Launch **2025** Single IV dose - Precedent for **Orphan status, accelerated review**
- The global market of tPA will increase, therefore anti-tPA will grow with it.
- Price Global av ~\$8,800 /patient (Praxbind ®- \$3,500 / patient)

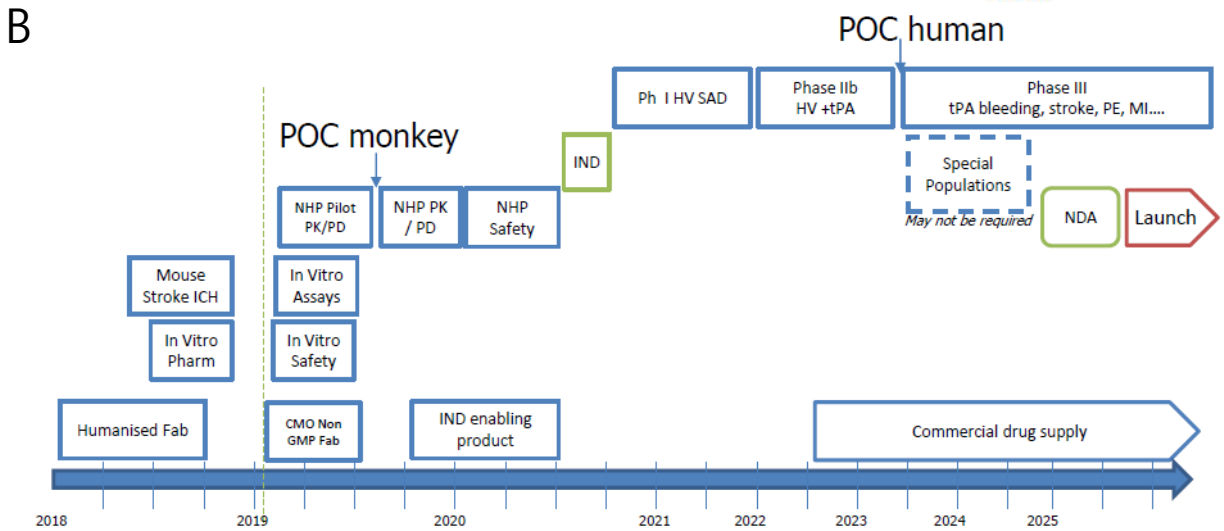
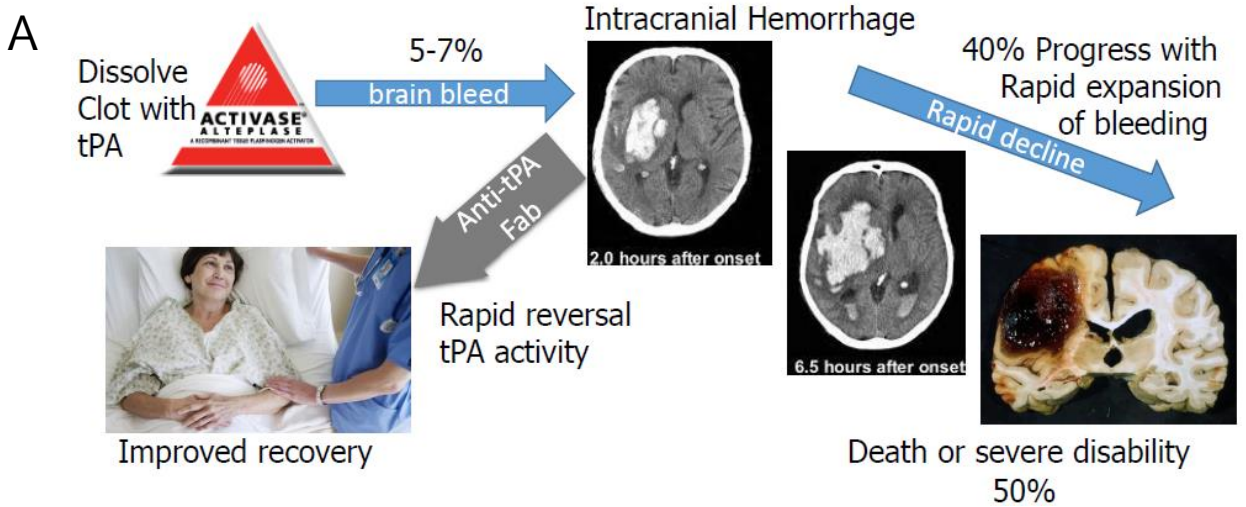
### □ Accelerated development plan of tPA Fab

- Follows regulatory pathway of Idarucizumab (Praxbind®).
- Regulatory end points are reversal of tPA activity and safety.
- Total number patients to file ~350 patients (Ph I to III)

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## ► Key Data

The use of tPA to treat ischemic stroke needs development of anti-tPA



(A) Technology overview; high rates of Intracranial hemorrhage (ICH) by tPA show the need of anti-tPA. (B) Accelerated development plan and milestones for anti-tPA.

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## ► Intellectual Property

Patent No.	
Application Date	
Status	
Country	

## ► Contact Information

Contact Person	Zhi Zhang
Email	info@lifearc.org
URL	<a href="https://www.lifearc.org/working-with-us/licensing-opportunities/">https://www.lifearc.org/working-with-us/licensing-opportunities/</a>