

18 November 2021

Importância de isolados de *Streptococcus agalactiae* no desenvolvimento de uma vacina

Pedro Ilardi Lazcano

Biólogo marinho,

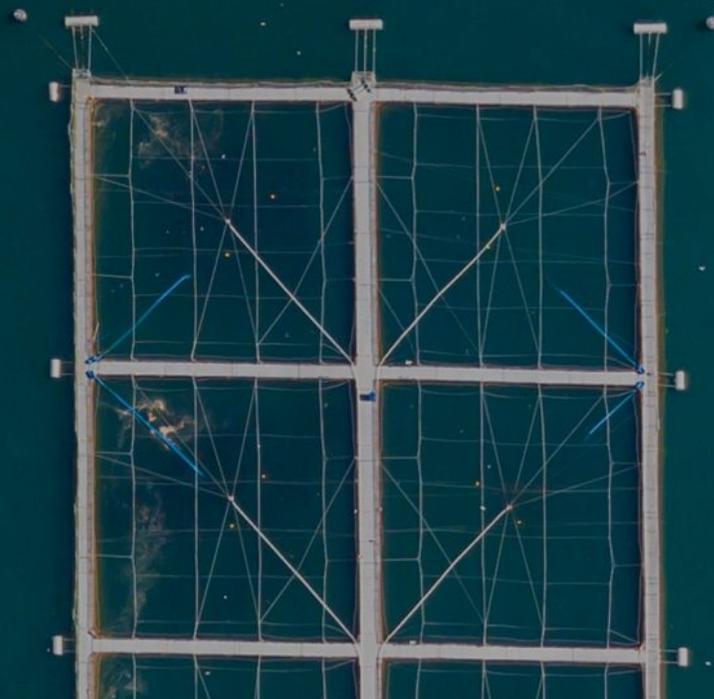
Mestre da Aquicultura

MBA

diploma em inovação

Pedro.ilardi@abbott.com

vamos começar



UNA EMPRESA DE LABORATORIOS ABBOTT

■ **Foco:**

Indústria de Aquicultura

■ **Ramos de negócio:**

SALMON, INTERNATIONAL (tilápia e camarão),
EARTH (animais maiores).

■ **Produtos finalizados:**

Vacinas, antiparasitários, antifúngicos,
antibióticos e outros menores.





Aquagestión

UNA EMPRESA DE LABORATORIOS ABBOTT

■ ■ ■ **Segurança
alimentar**

■ ■ ■ **Saúde**

■ ■ ■ **Cromatografía**

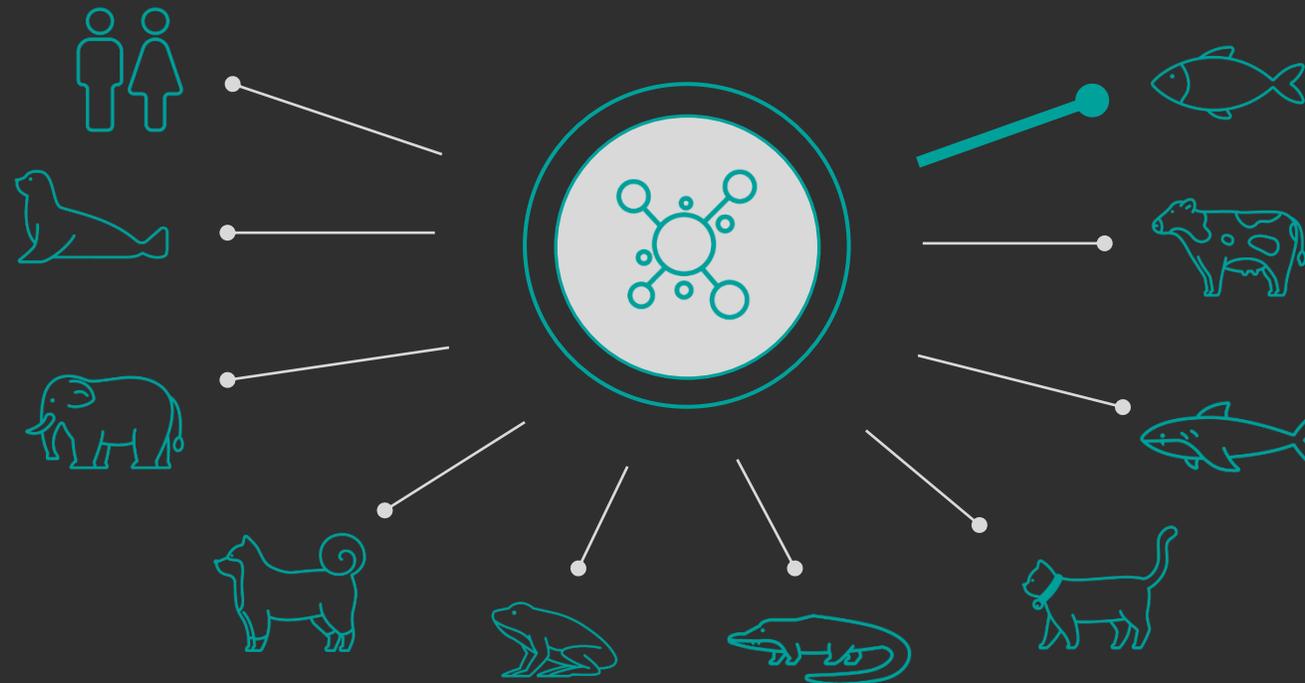
■ ■ ■ **Treinamento**

■ ■ ■ **meio Ambiente**

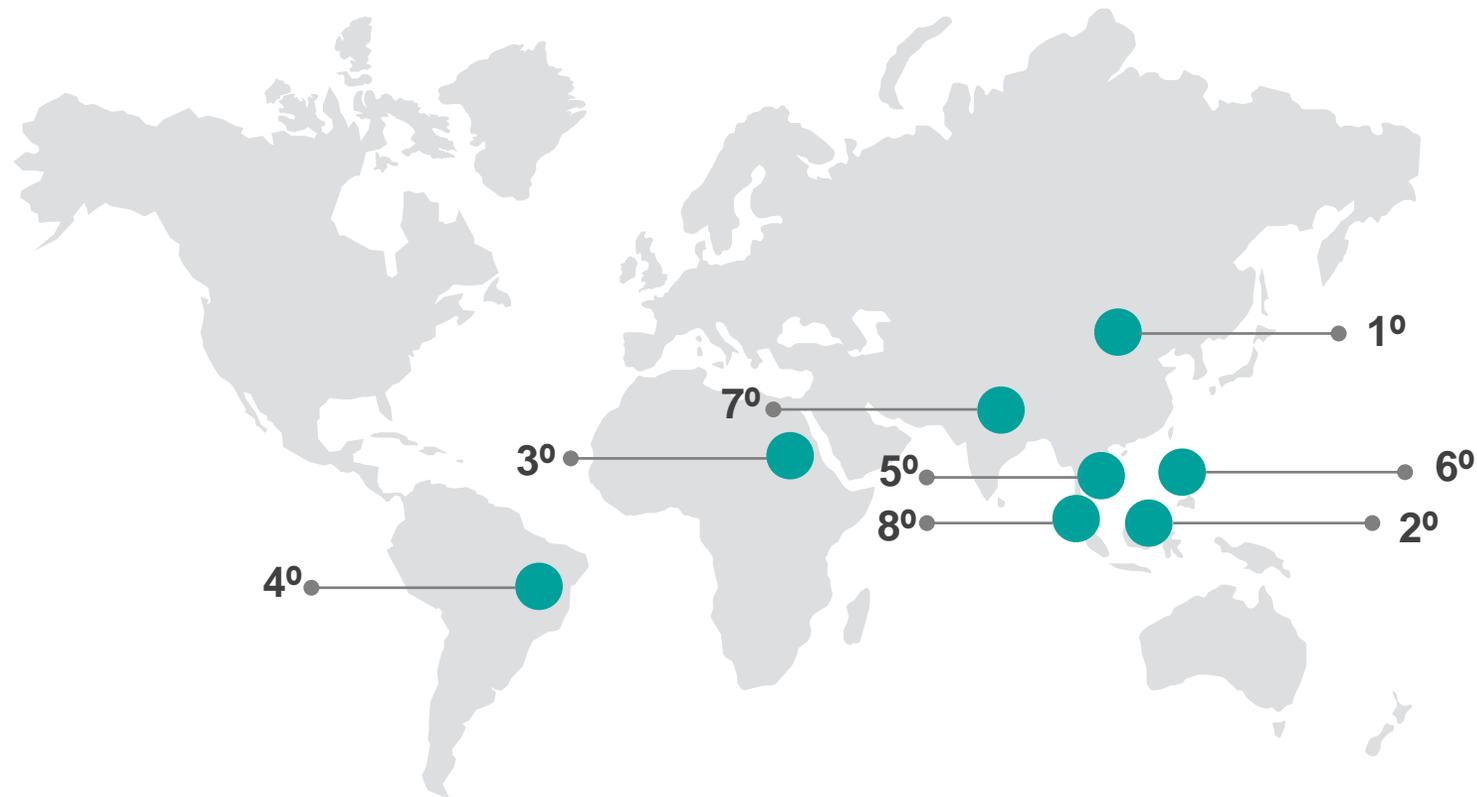
Nossos partners



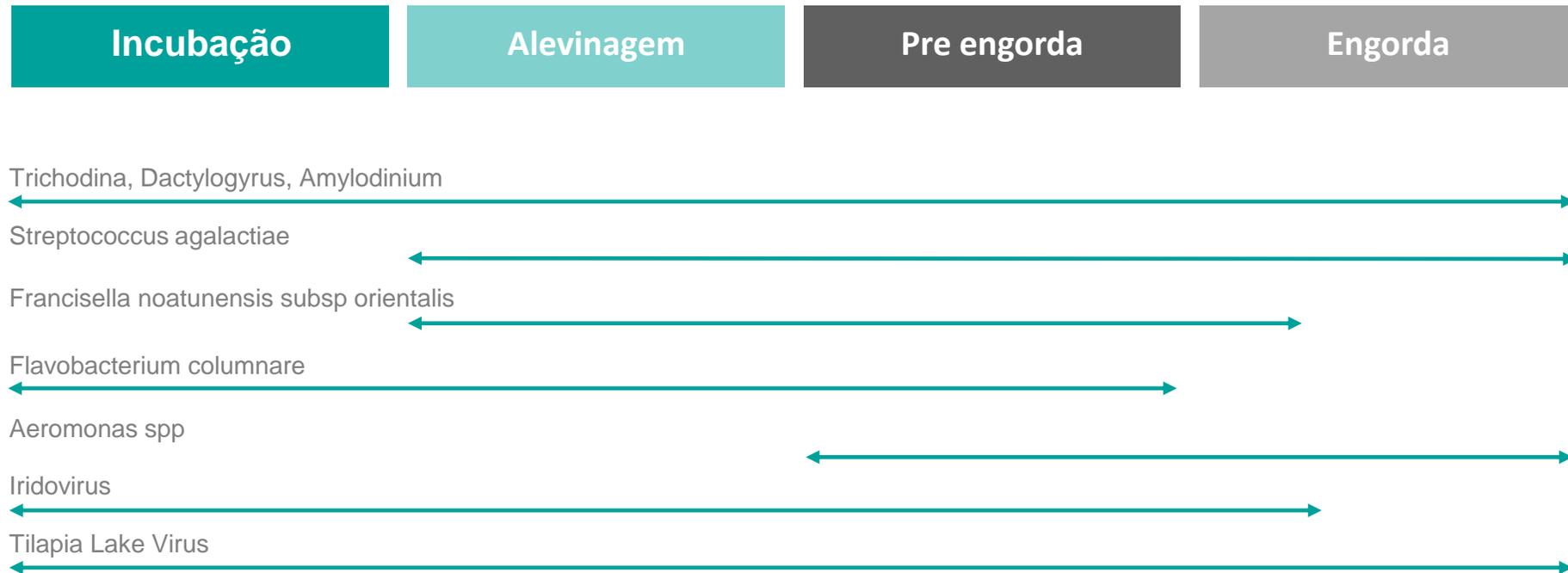
Patógeno onipresente, Afeta várias espécies



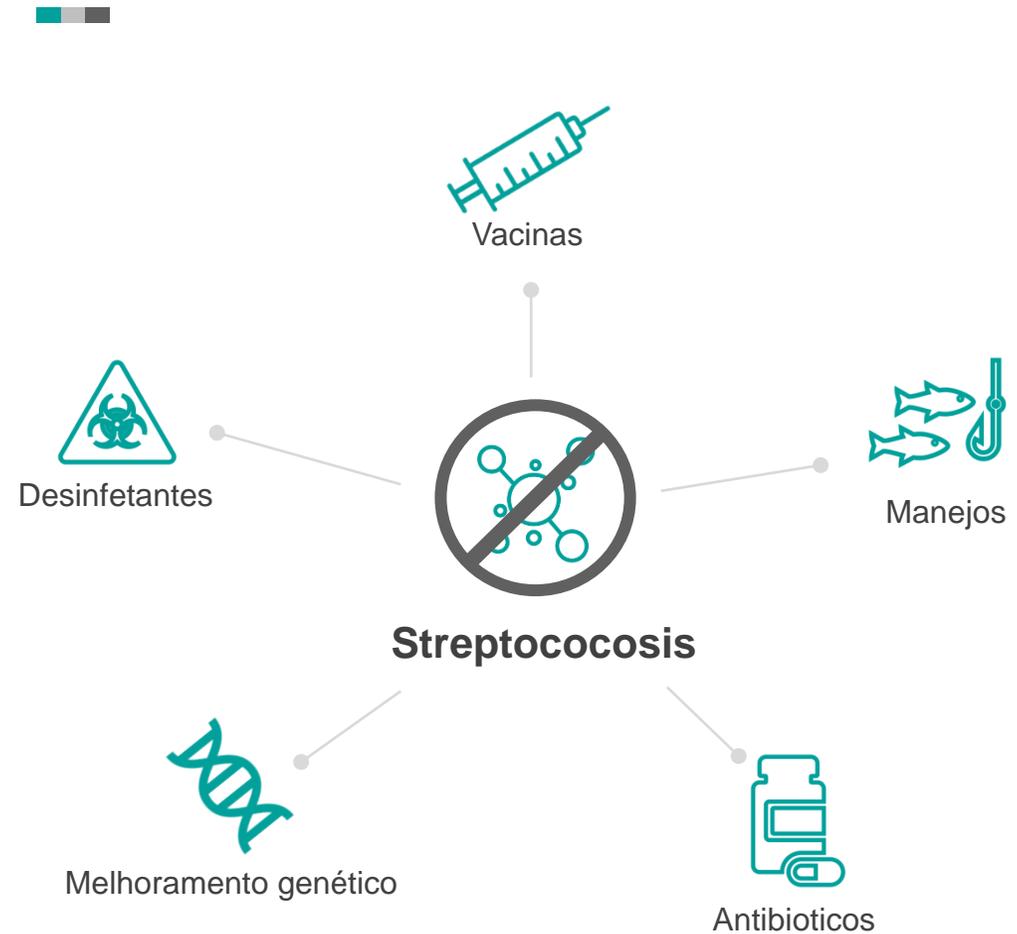
Produção de tilápia no brasil cresce mais que nos demais países



Dinâmica por fases y principales patógenos



Prevenção, Controle e tratamento

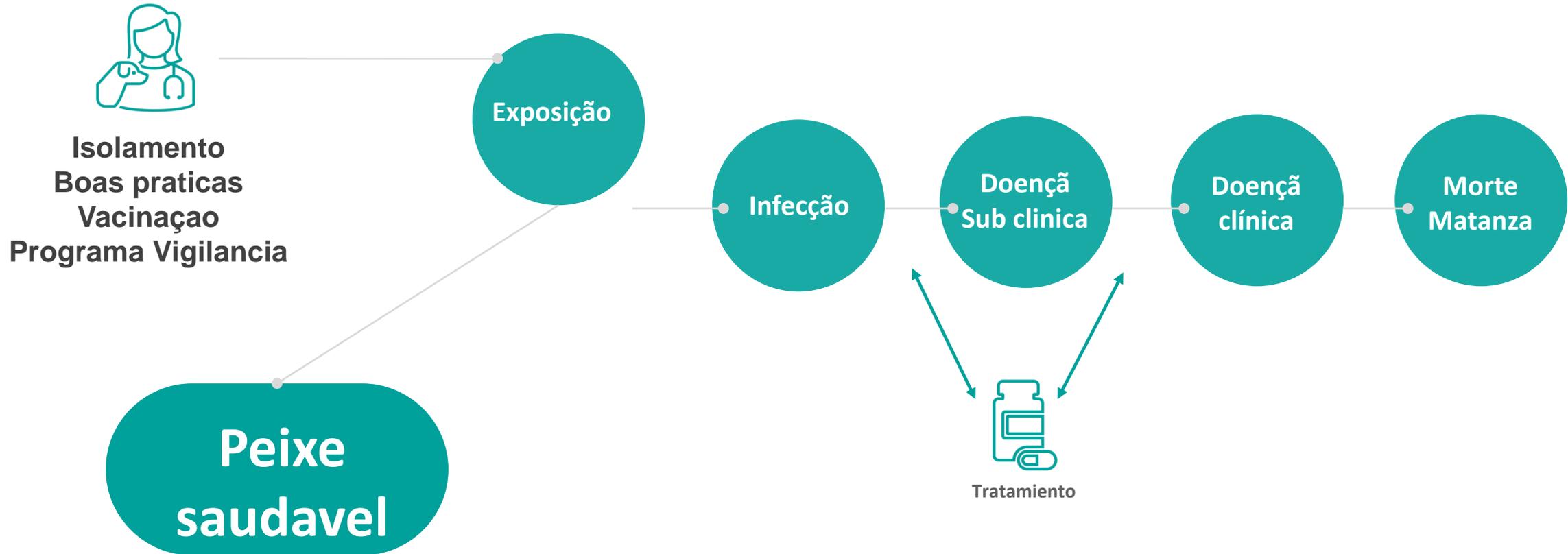




Importância da vacinação, prevenção



Importância da vacinação prevenção





Fenacam 2021

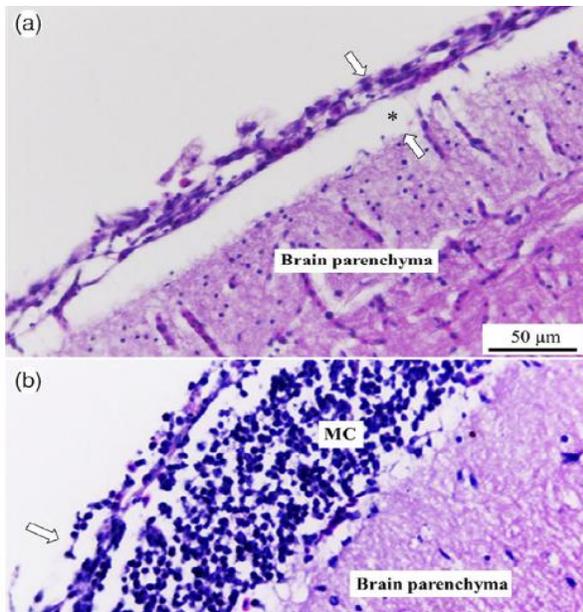
Sinais clínicos externos

Proseguir

Sinais clínicos externos

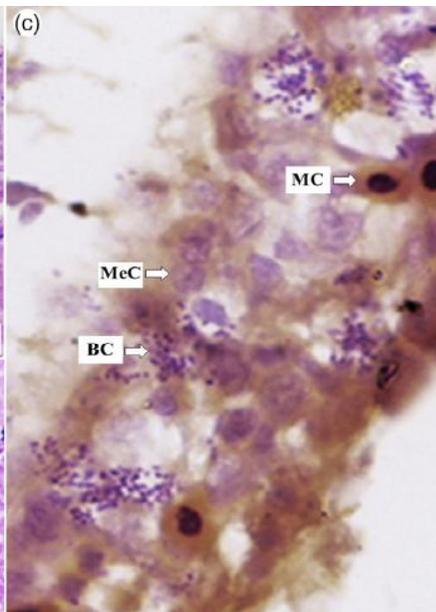


Sinais clínicos histopatología

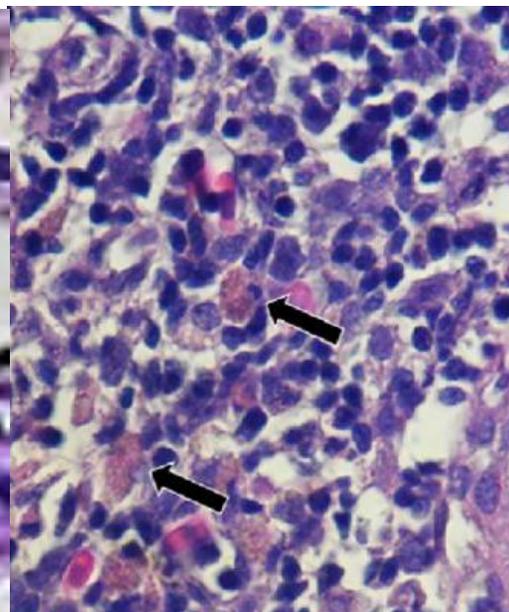
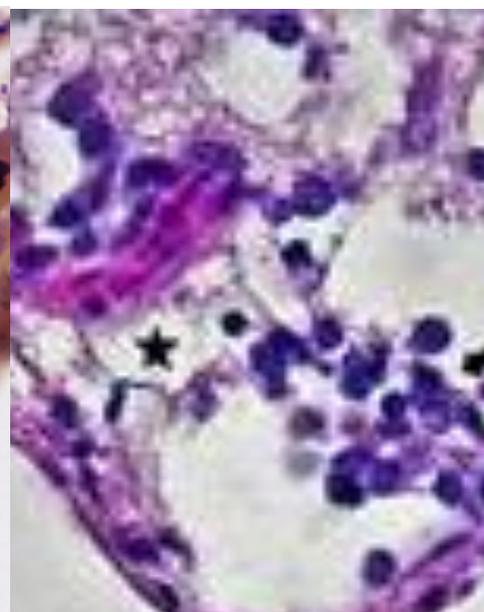


Encefalo

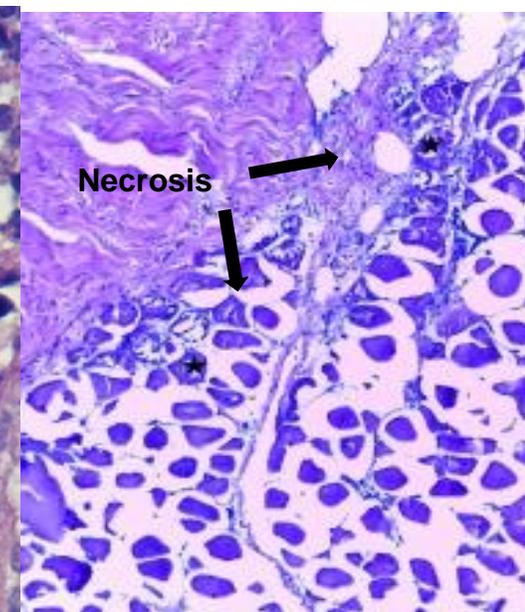
• Iyapa Palang et al., 2020



Granulomas / Infiltração mononuclear

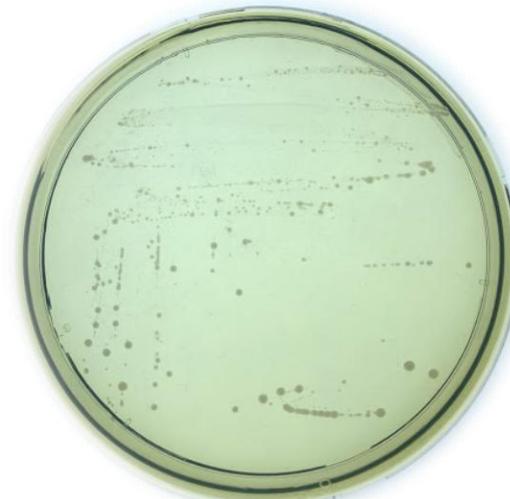
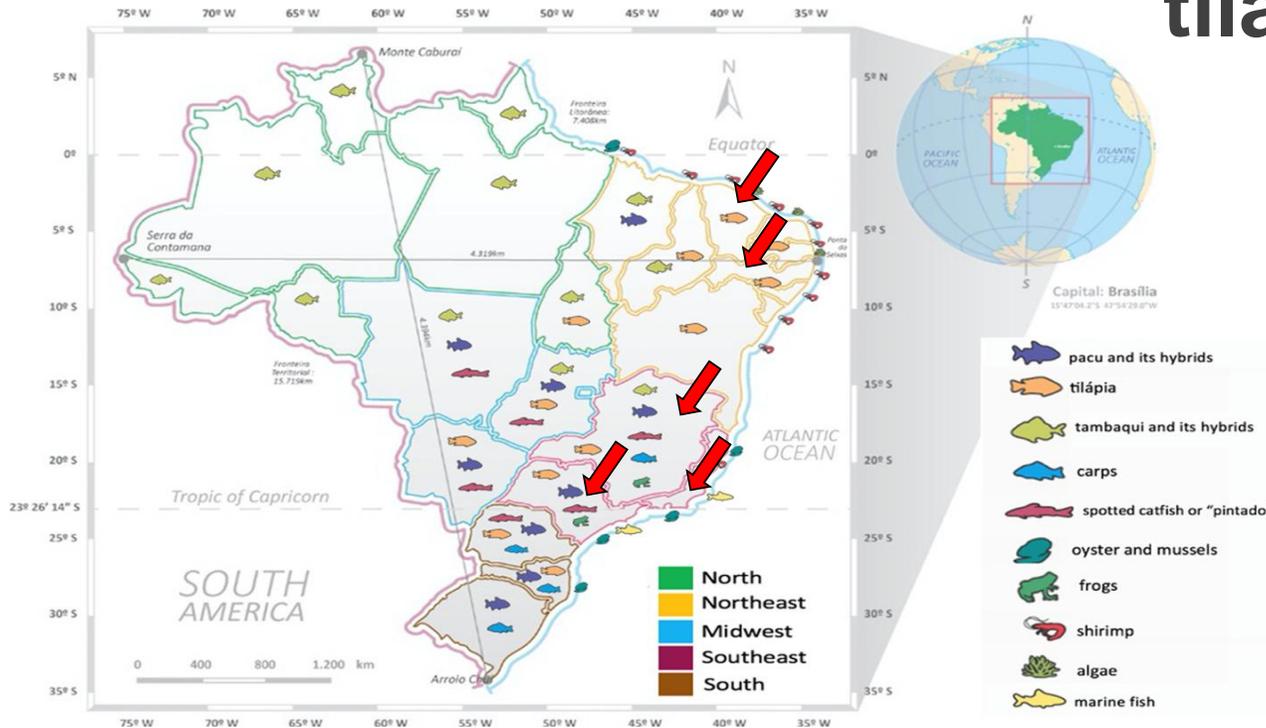


Hepatopâncreas



Músculo esquelético

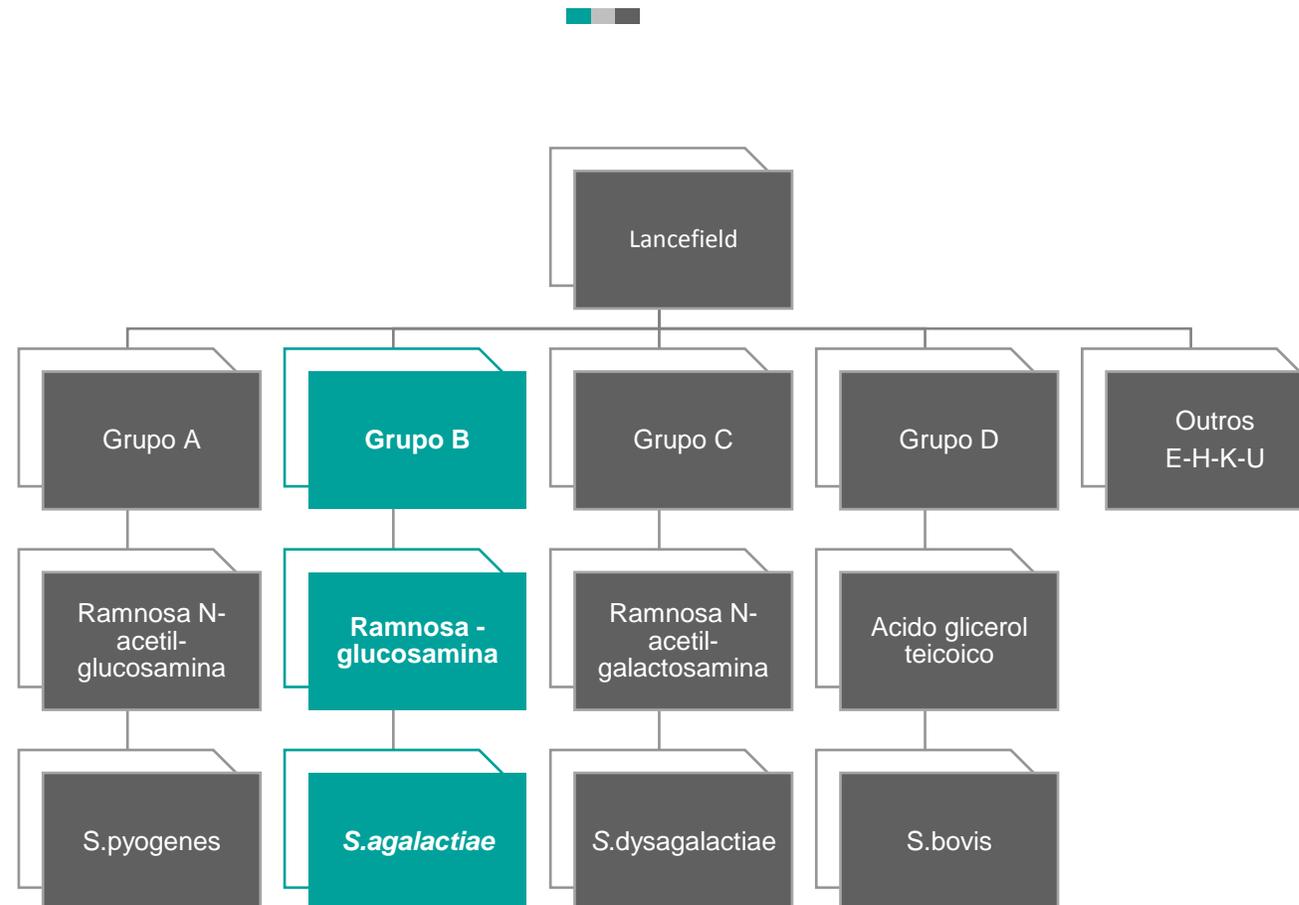
isolamento de *Streptococcus agalactiae* de surtos na tilápia



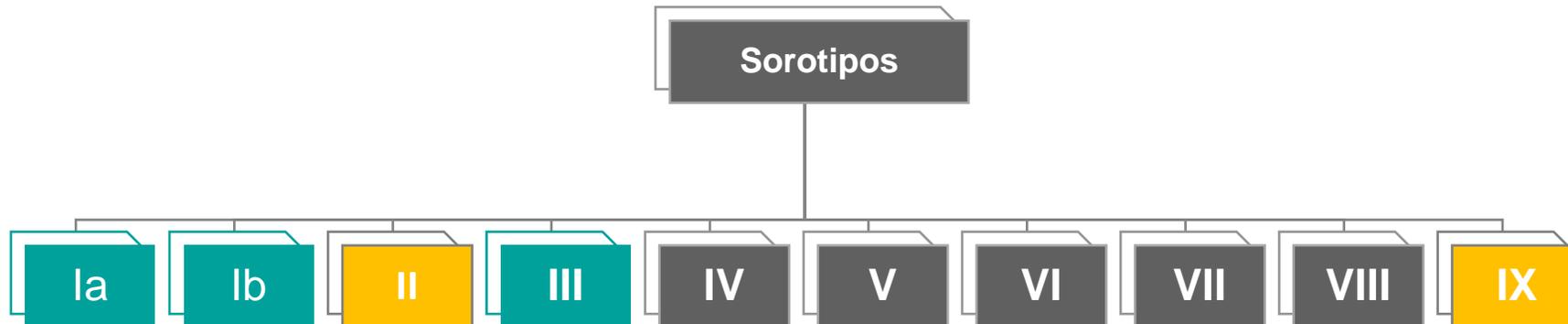
- Wagner C. Valenti et al., 2021



Caracterização sorológica dos isolados



Caracterização sorológica dos isolados

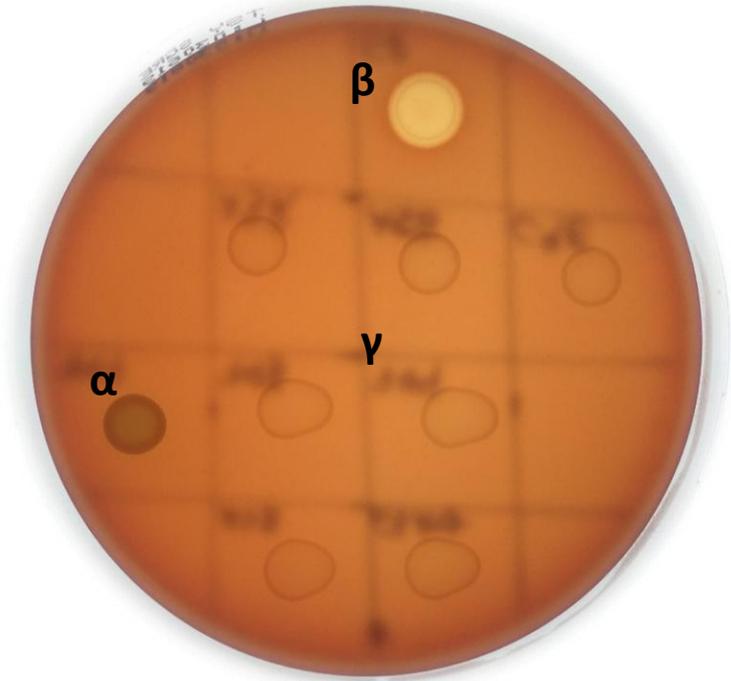
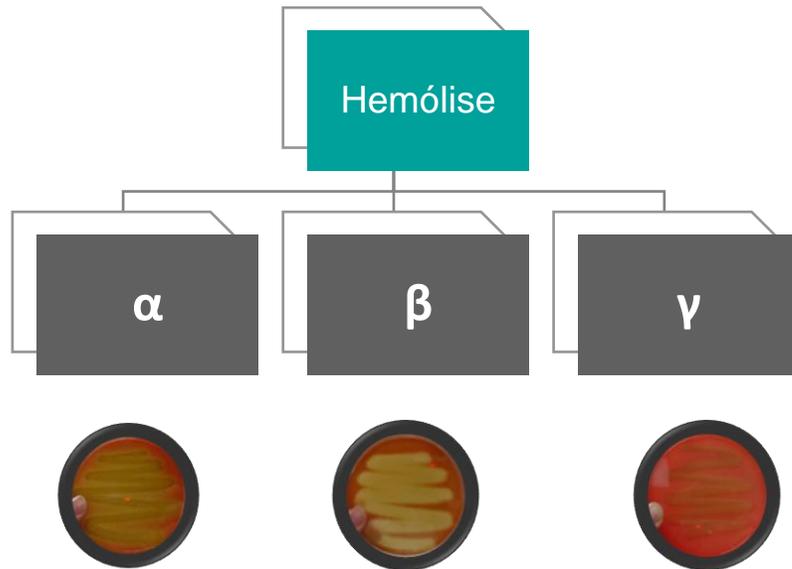


Mais prevalente

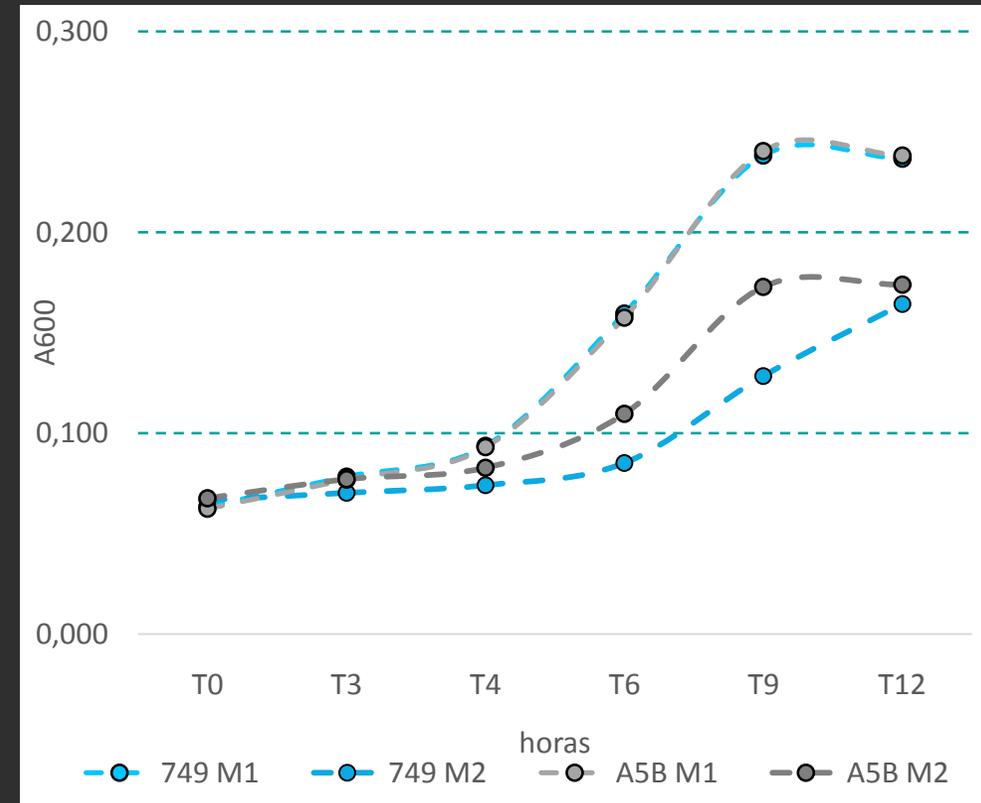
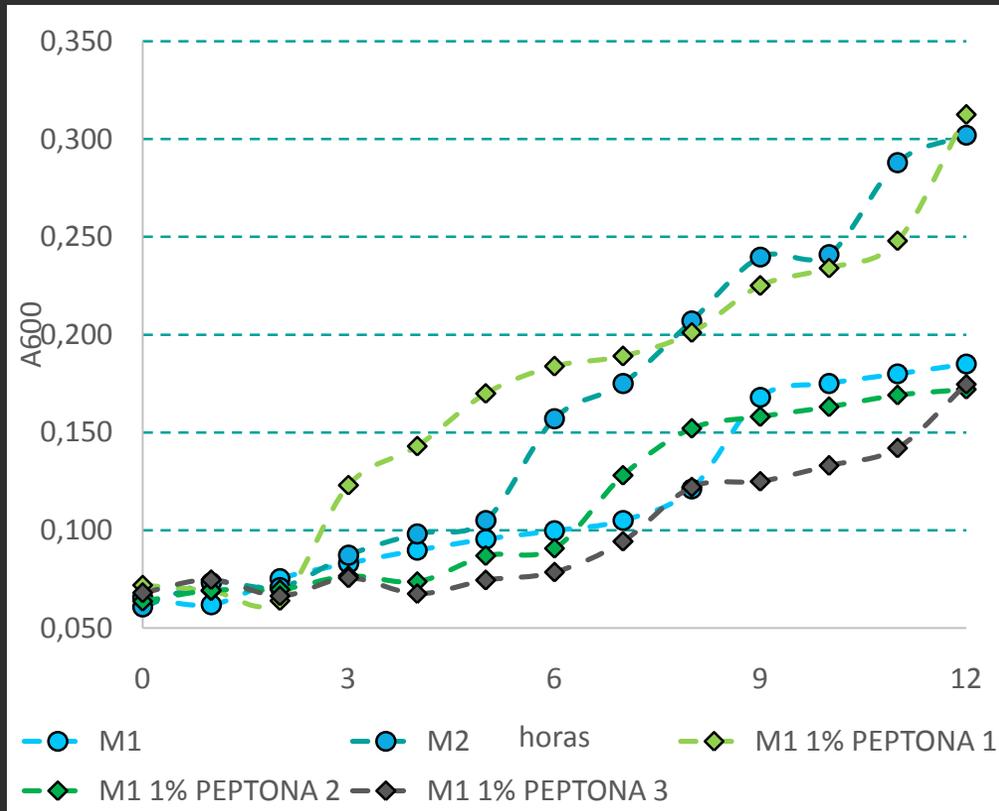
Descrito

- D.T. Godoy et al., (2013)

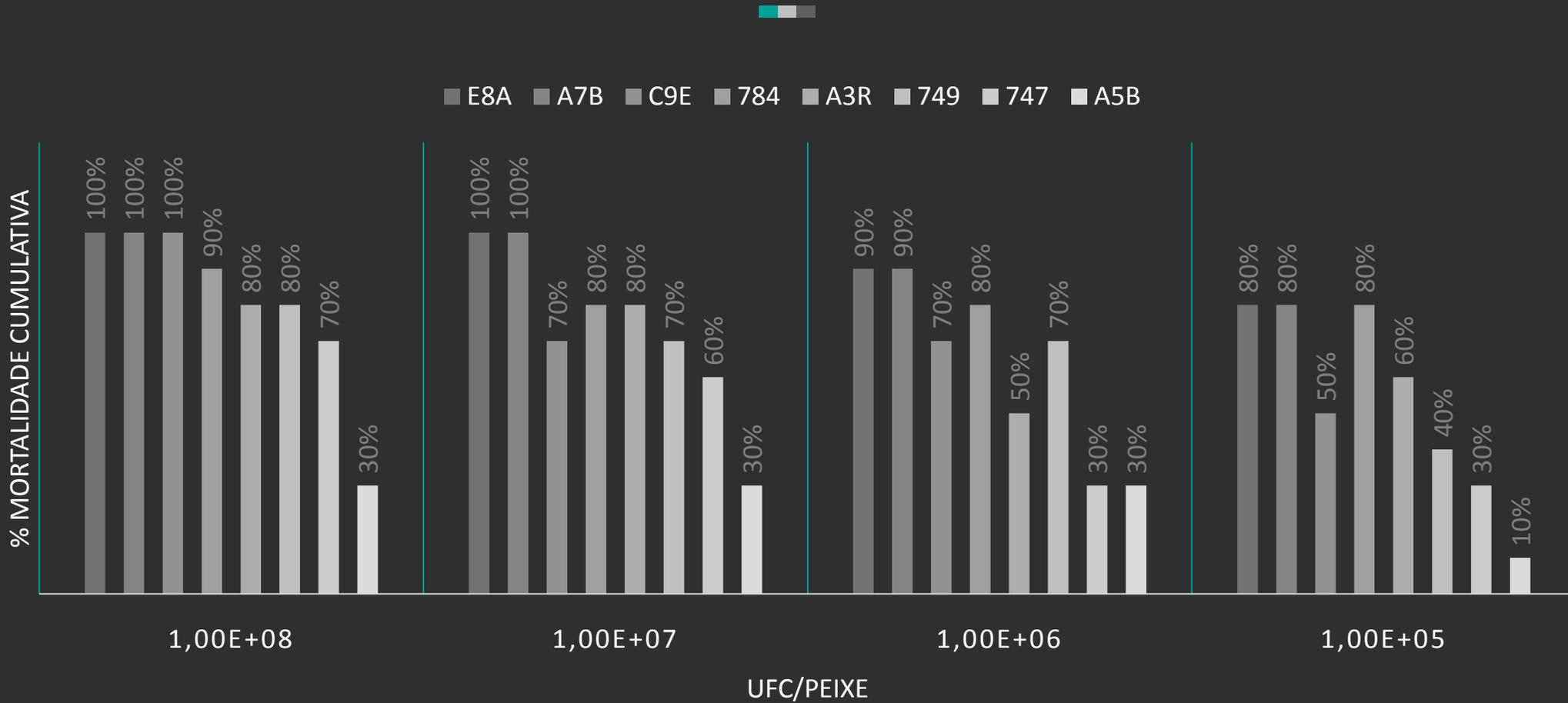
Caracterização bioquímica, hemólise



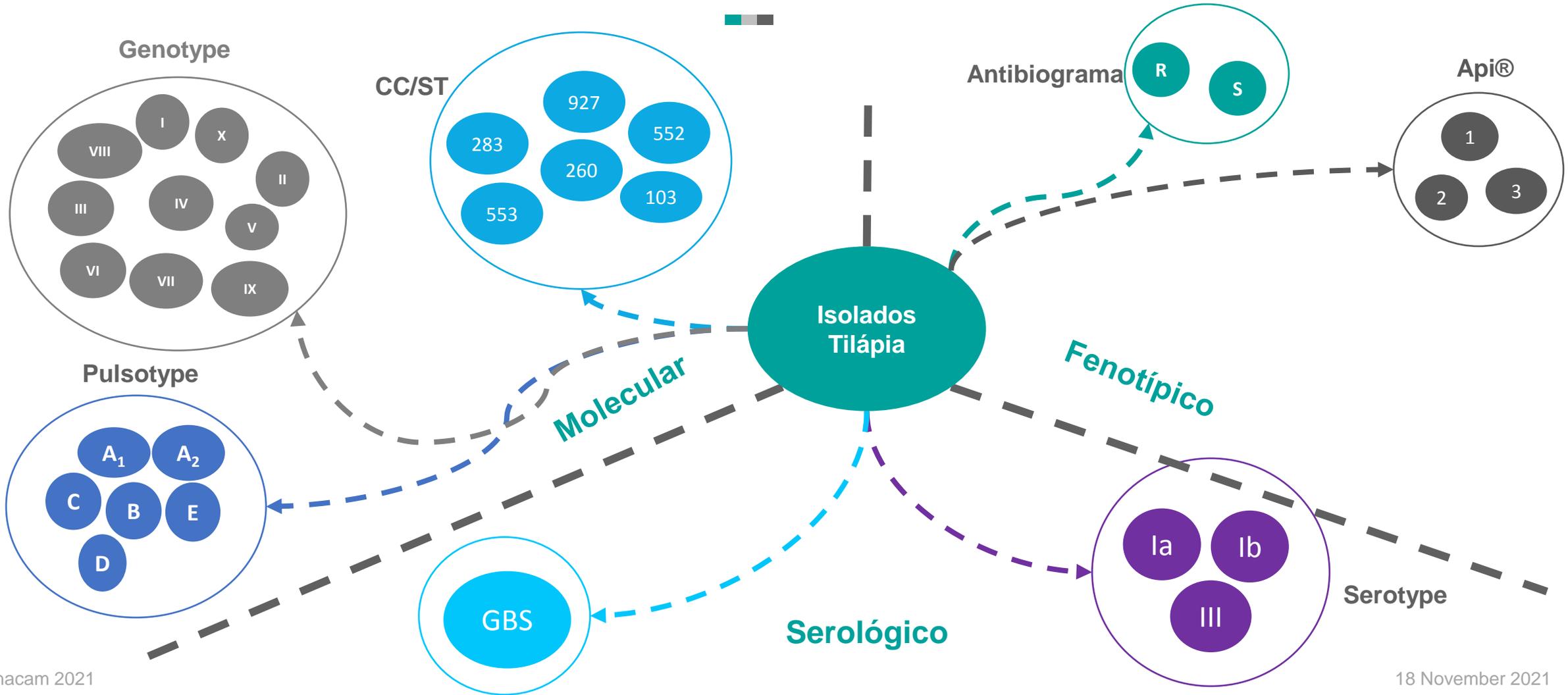
Caracterização bioquímica, Api® 20 strept; cultura



Virulência



Diversidade de isolados de s. Agalactiae



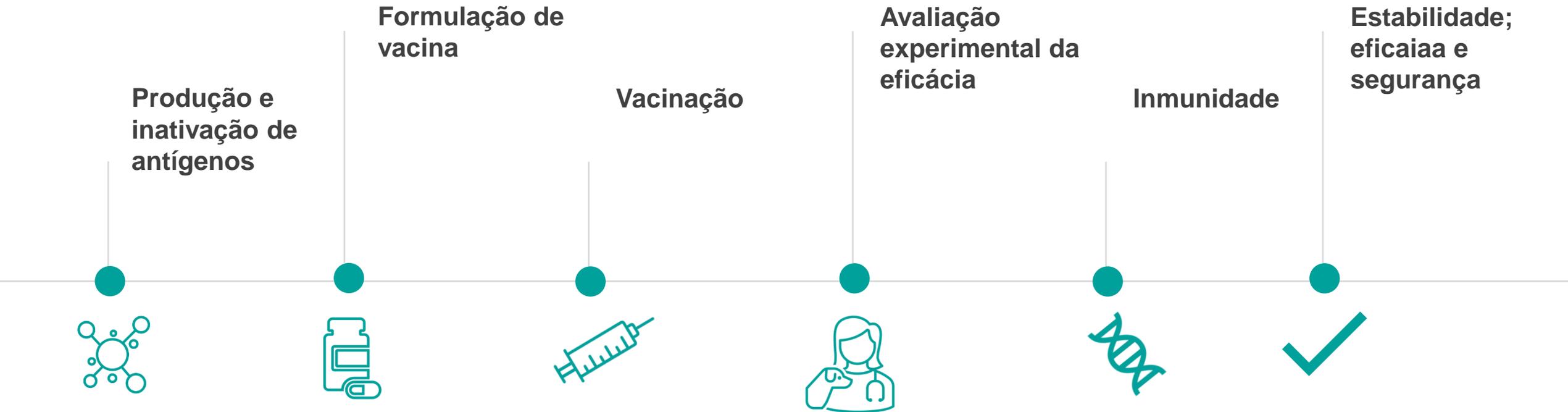
Isolamento de streptococcus agalactiae

Cepario caracterizado

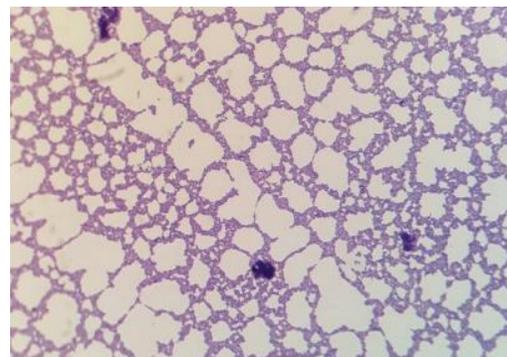
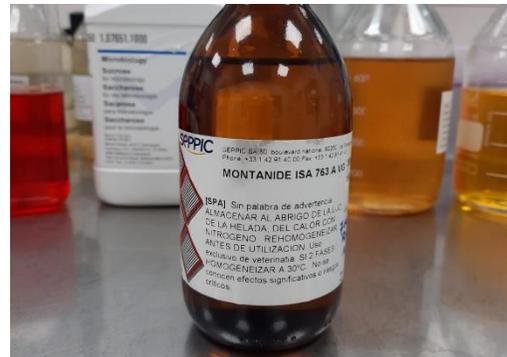
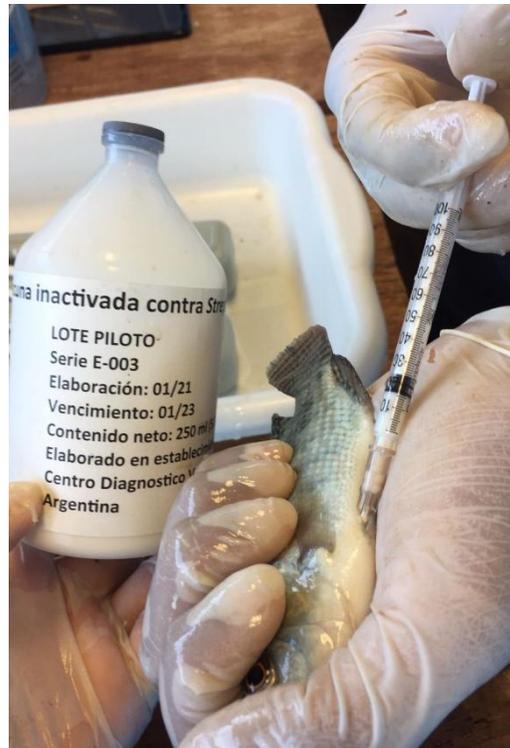


Isolados <i>Streptococcus agalactiae</i>										
Codigo FAV	Sa-001	Sa-002	Sa-003	Sa-004	Sa-005	Sa-006	Sa-007	Sa-008	Sa-009	Sa-010
Codigo Brasil	A7B	E8 AnG2	Ma	A5B	A3R	C9E	749	748	747	Re
Área geográfica	Ceará-NE	Paraná-N	Marañao	Ceará-NE	Ceará-NE	Pernanbuco-NE	Minas Gerais	Minas Gerais	Sao Paulo	Pernanbuco-NE
Ano de isolamento	2013	2013	2019	2013	2013	2013	2014	2014	2014	2019
Genótipo	II	II	n.d.	II	I	IV	I	V	III	n.d.
Serótipo	Ib	Ib	III	Ib	Ib	Ib	Ib	Ib	Ib	III
Órgão	Baço	Cérebro	Cérebro	Baço	Rim	Cerébro	Rim	Rim	Rim	Cerébro
api® Strept	3063010	3061000	3063010	3163510	3063000	3061000	3061000	3061000	1161510	3063010
virulência	Alta	Alta	Alta	Baja	Alta	Media	Media	Media	Media	Alta

Desenvolvimento de vacina



Ebive® vacina microdose



Ebive

Emulsão W/O
Adyuvantes SEPPIC ISA 763 VG

estimulador da resposta imune humoral

Dose 0,05 mL /IP

Massa antigénica:

2,00E+09 cel/mL

Formulado com isolados de campo brasileiras

MA, Maraño

Sorotipo III

Altamente virulento

E8A, Paraná

Genotipo II

Sorotipo Ib

Altamente virulento

Avaliação da segurança da vacina



Adherências
Spielberg



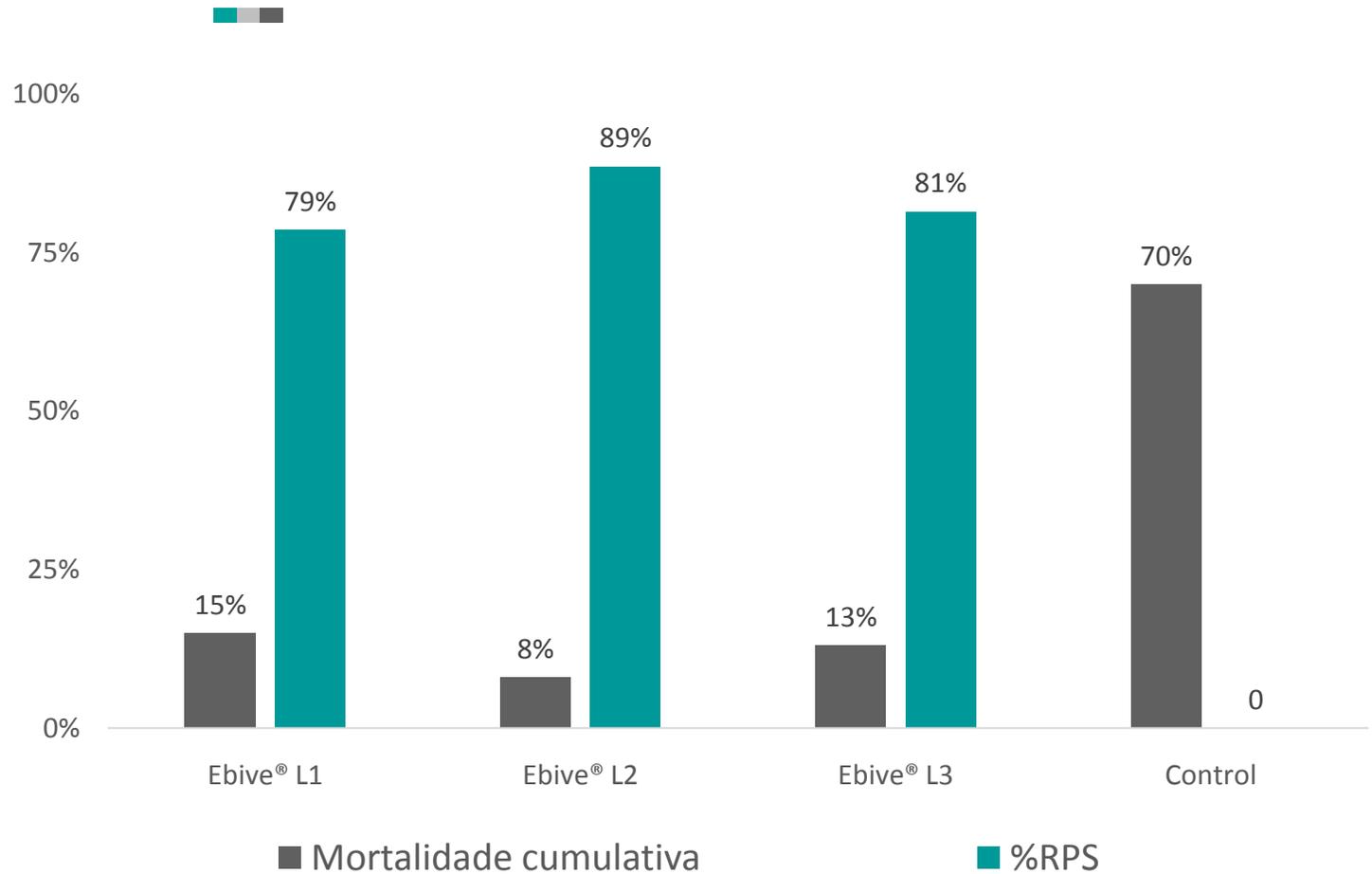
Melanosis
Visceral



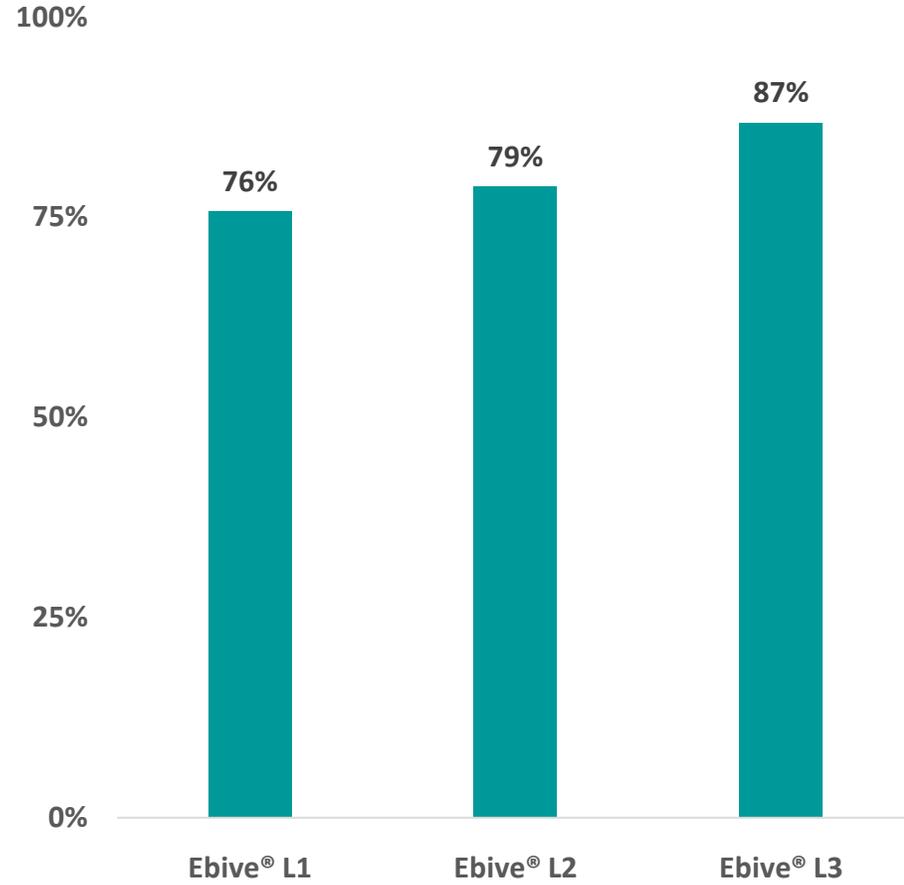
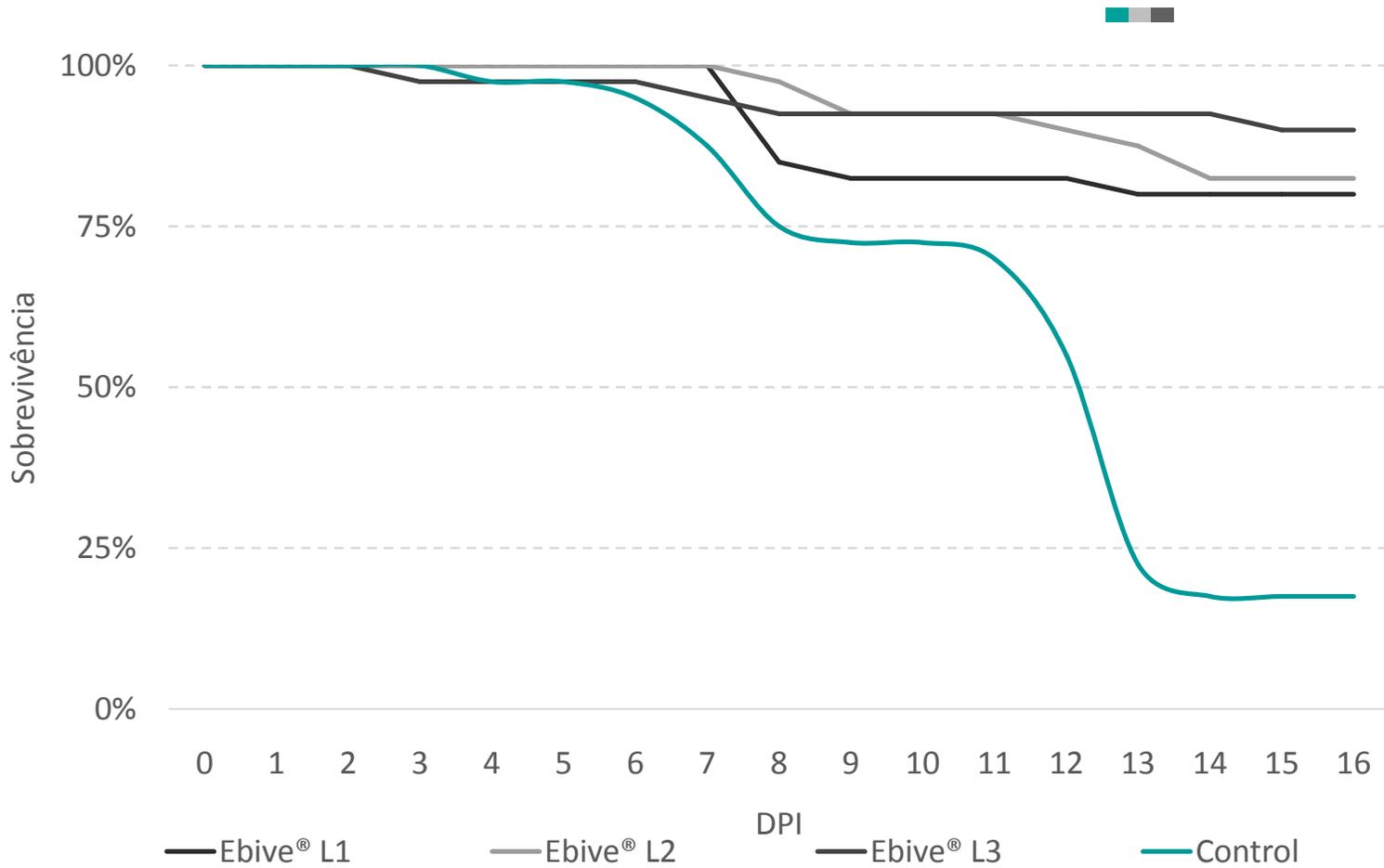
Restos
da Vacina

SEGURANÇA

Avaliação experimental da eficácia

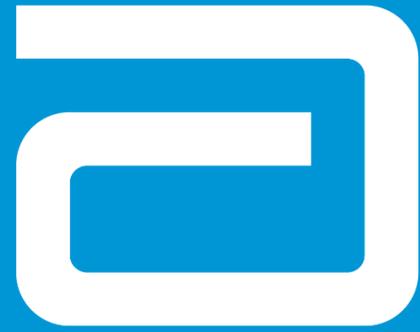


Avaliação experimental da eficácia



Muito obrigado





Abbott