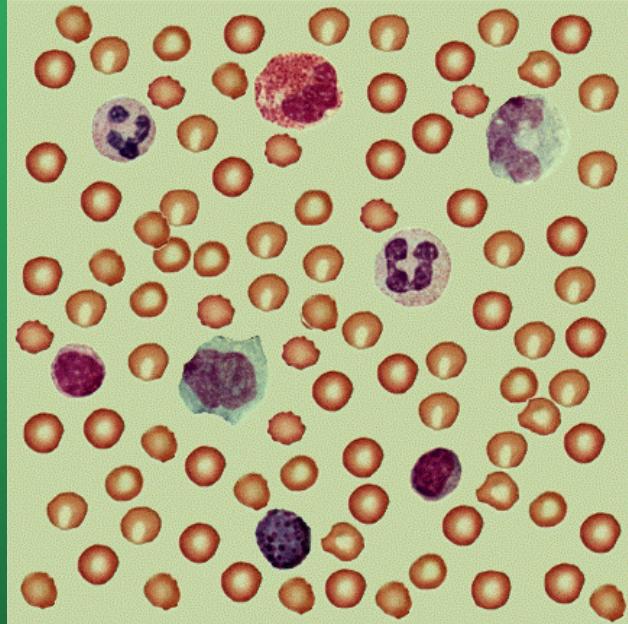


VACUNAS UTILIZADAS PARA LA PREVENCION DE ENFERMEDADES EQUINAS

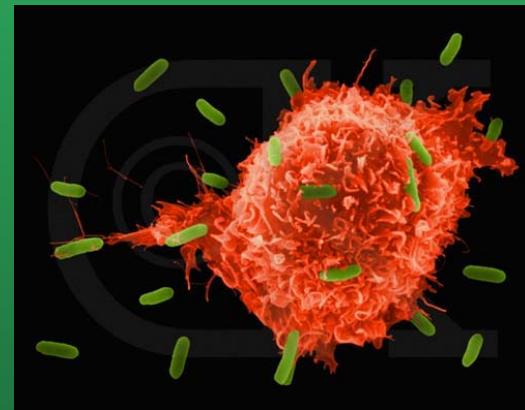
MARIA BARRANDEGUY
CICVyA INTA CASTELAR
mbarrandeguy@cnia.inta.gov.ar

CELULAS DEL SISTEMA INMUNE

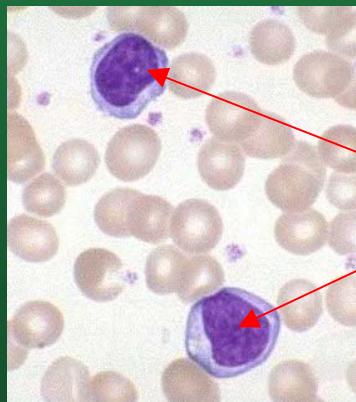


Neutrofilos
Basófilos
Eosinófilos
Monocitos

Macrofagos



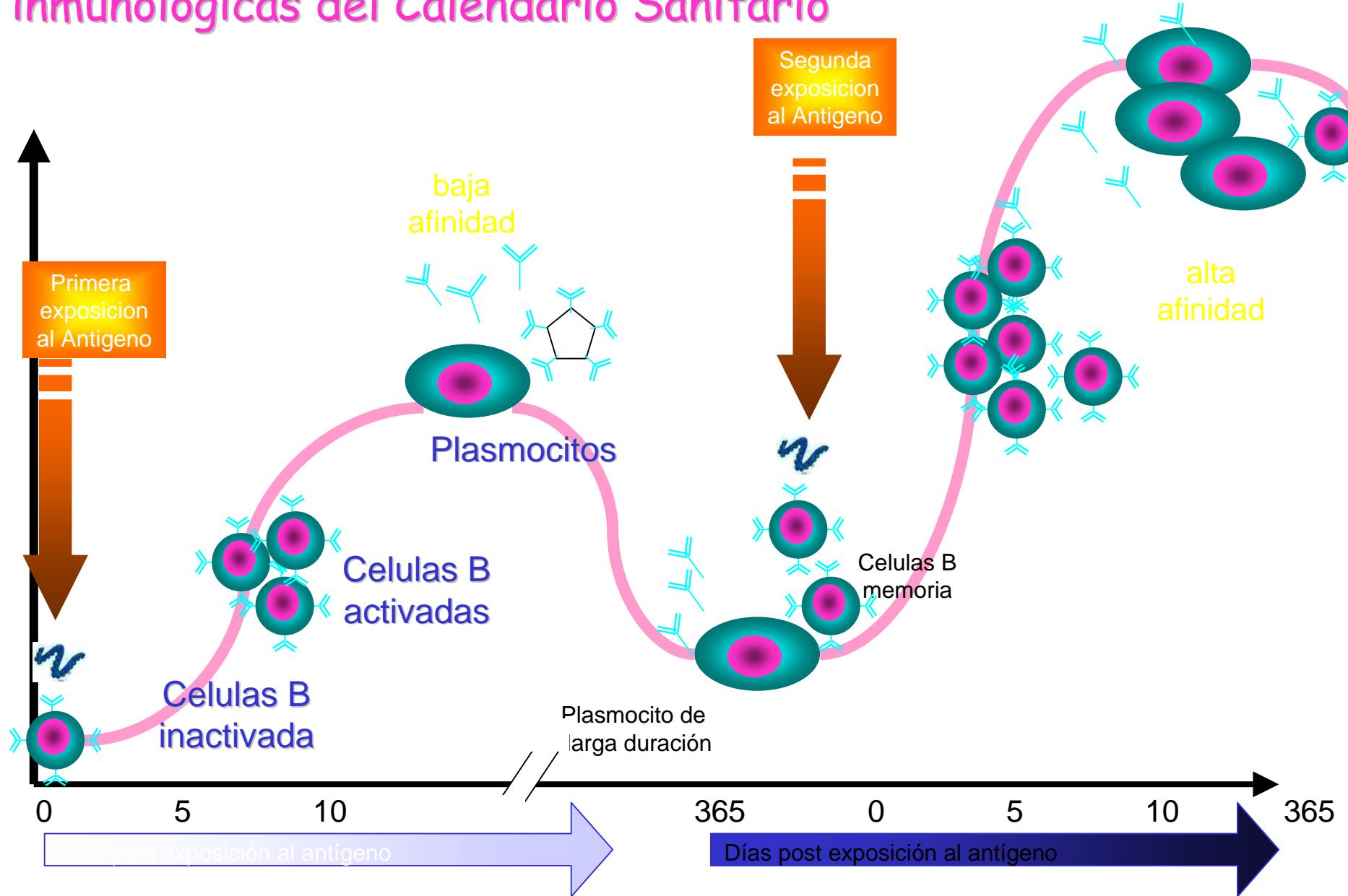
celulas dentríticas



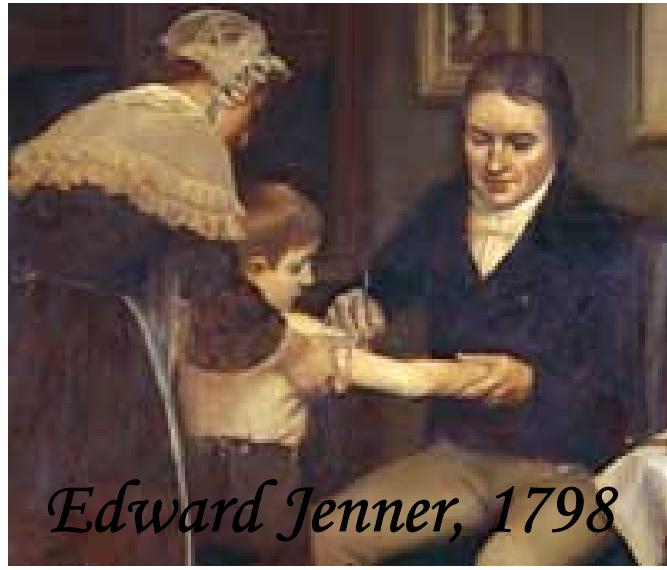
Linfocitos



Respuesta primaria, respuesta secundaria, las bases inmunológicas del Calendario Sanitario

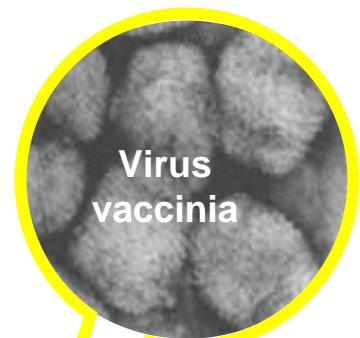


Vacunación

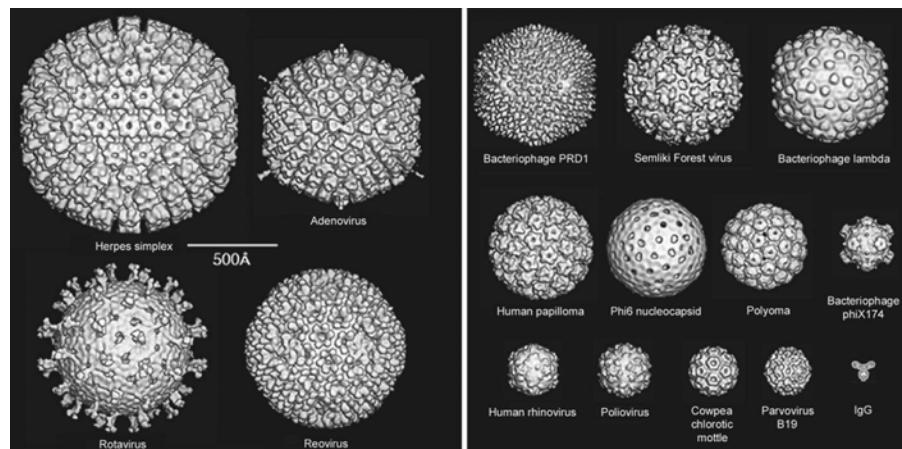
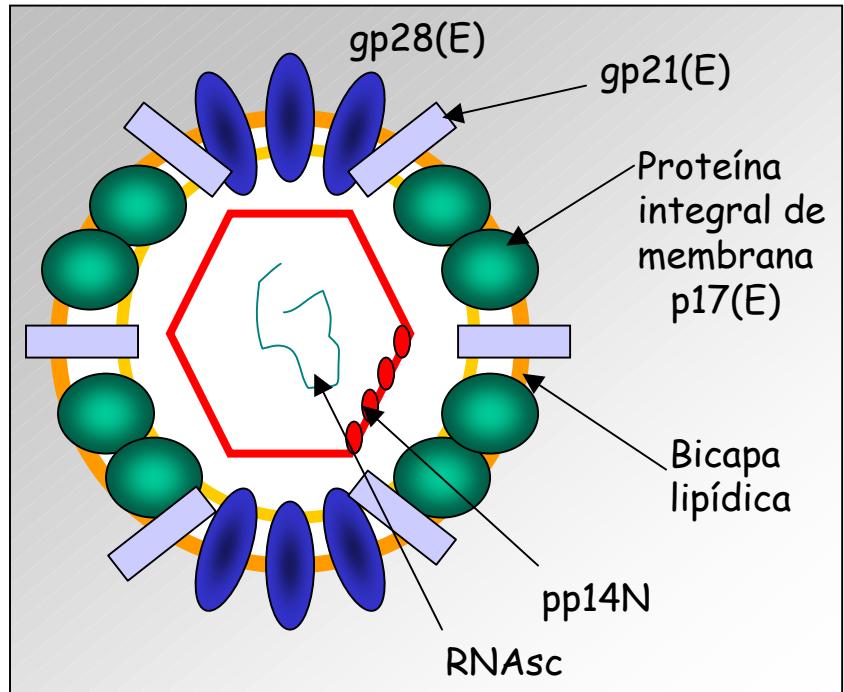


Edward Jenner, 1798

PROTECCION



Virus
vaccinia



Los avances en el conocimiento de los agentes infecciosos, de las enfermedades en sí mismas, de la inmunología, la biología molecular y las herramientas brindadas por la ingeniería genética han tenido un gran impacto sobre el desarrollo de nuevas vacunas

Recombinant vaccines for oral immunization of wildlife

The development of recombinant DNA technology has initiated a new era in rabies control. Recombinant vaccines cannot exhibit residual pathogenicity caused by rabies because they contain only single non-virulent gene products. The majority of the safety requirements for modified live-virus vaccines are also applicable to recombinant vaccines.

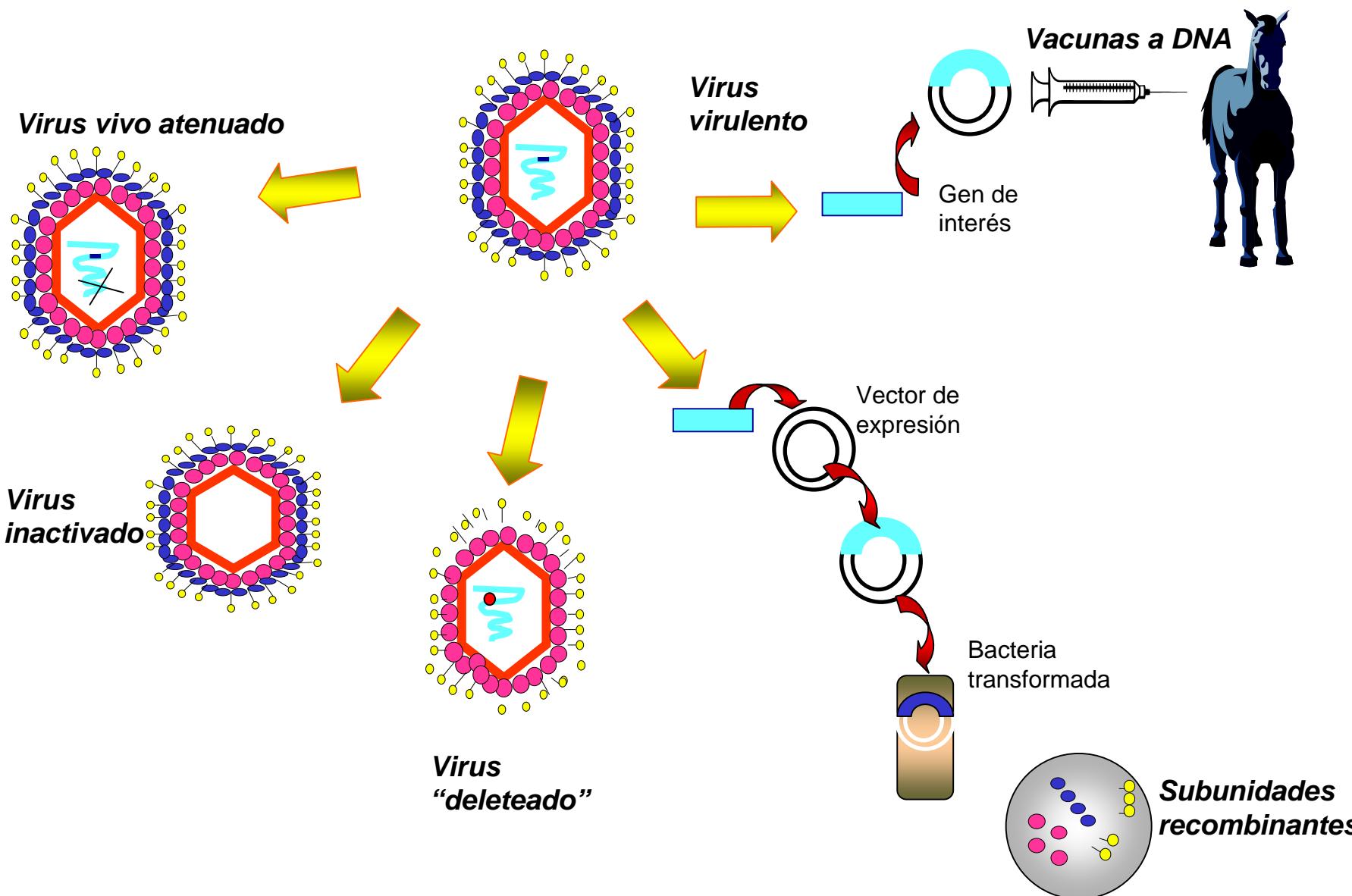
Various recombinant constructs (e.g. animal poxviruses or human or canine adenovirus as vector) expressing the rabies glycoprotein were tested in different target and non-target wildlife species by the oral route. The only recombinant that is now produced and used in large quantities is a vaccinia based recombinant product expressing the rabies glycoprotein (VRG).

VRG shares many basic properties with parental vaccinia virus (Copenhagen strain) but differs in other ways which make the vector virus safer. The deletion of the thymidine kinase gene dramatically decreases the pathogenicity of the vaccine for mice when it is given by the intracerebral and intraperitoneal routes. In addition, no viral spread from currently known sites of viral replication has been observed, and oral vaccination of dozens of animal species, including wild animals, has not revealed any residual pathogenicity. When administered orally (by direct instillation in the mouth or in a bait) to young and adult foxes or raccoons, a dose of 10⁸ TCID₅₀ (median tissue-culture infective dose) of VRG elicits high titres of virus-neutralizing antibodies and confers protection against a severe rabies challenge.

Studies have shown that the VRG vaccine is not pathogenic in over 10 avian and 35 mammalian species, including the majority of rabies reservoir hosts. Regardless of the vaccine dose or route of administration, the vaccinated animals have remained clinically normal, with no overt gross or histopathological lesions. Following oral administration, the VRG vaccine is cleared relatively quickly (e.g. within 48 hours). No abortifacient, teratogenic, or oncogenic side-effects have been noted. Large-scale field trials in foxes, raccoons and coyotes have been reported to date in Europe and North America.

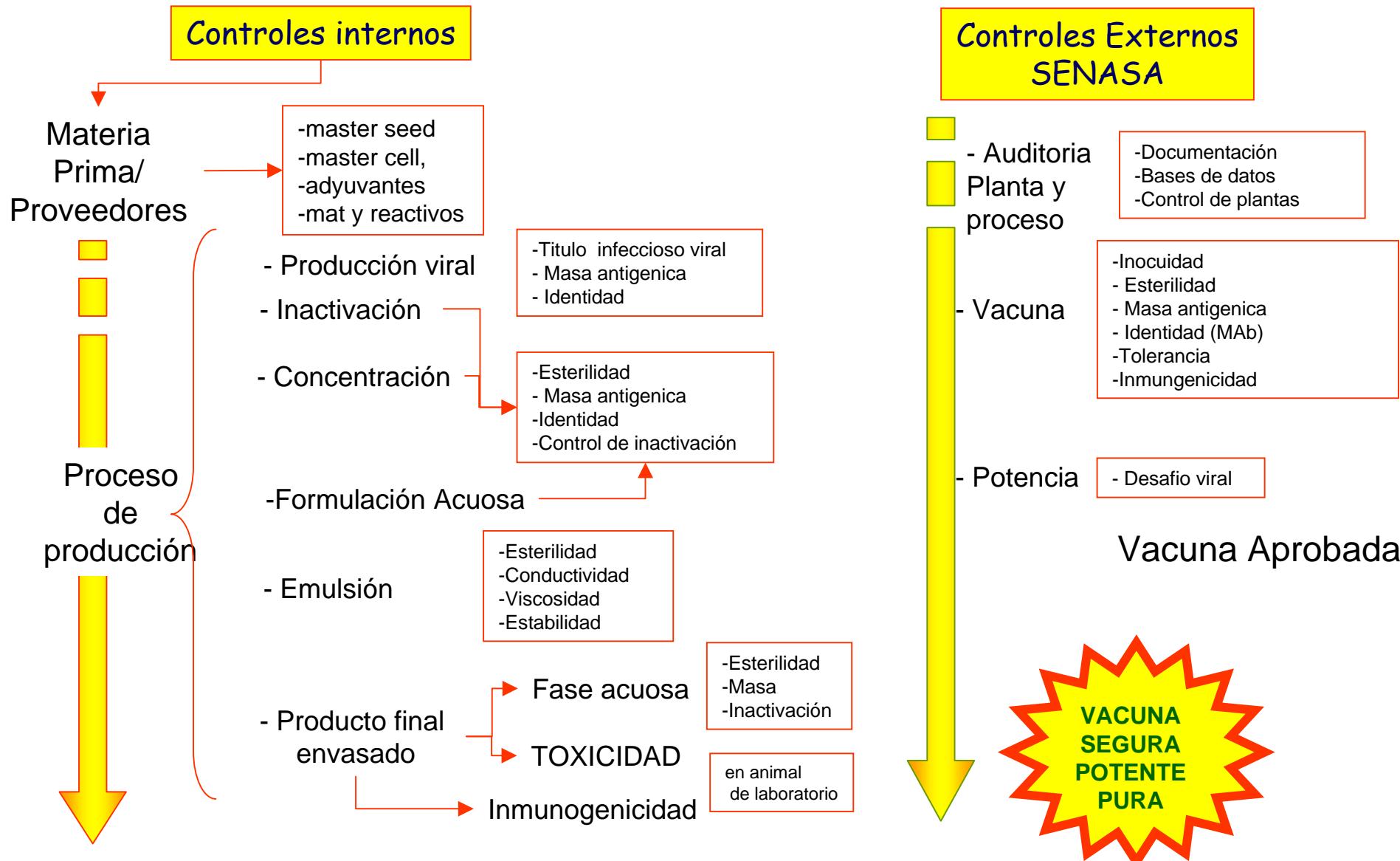
<http://www.who.int/rabies/vaccines/recombinant/en/index.html>

Vacunas Virales Equinas



Controles de Calidad

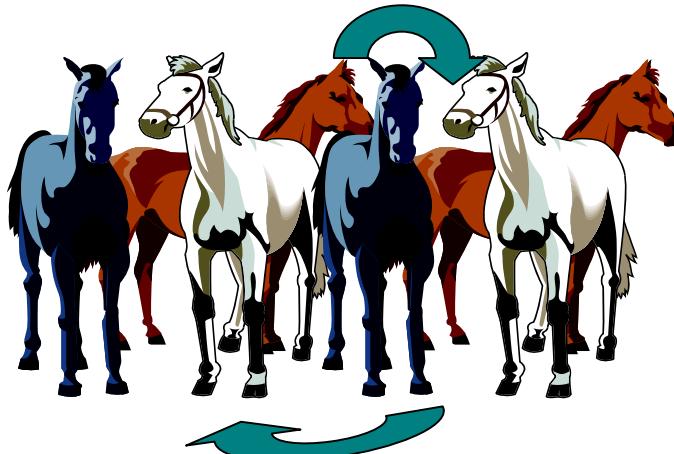
Recomendaciones de la OIE
Código de regulaciones federales en USA
Farmacopea Europea



CONTRA QUE ENFERMEDADES VACUNAR?

Infecciones endémicas en Argentina

(Influenza, Adenitis equina, rinoneumonitis, Encefalitis equina del Este y del Oeste, Rotavirus, Rhodococcus equi,etc)



ENFERMEDAD EXOTICA

Peste equina africana, Arteritis Viral Equina



**SITUACION IDEAL
POBLACION INMUNE**



Cuando vacunar?

Considerar

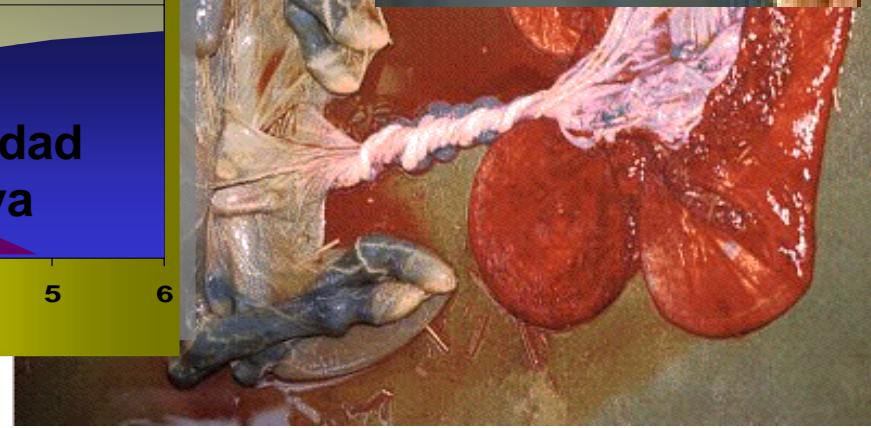
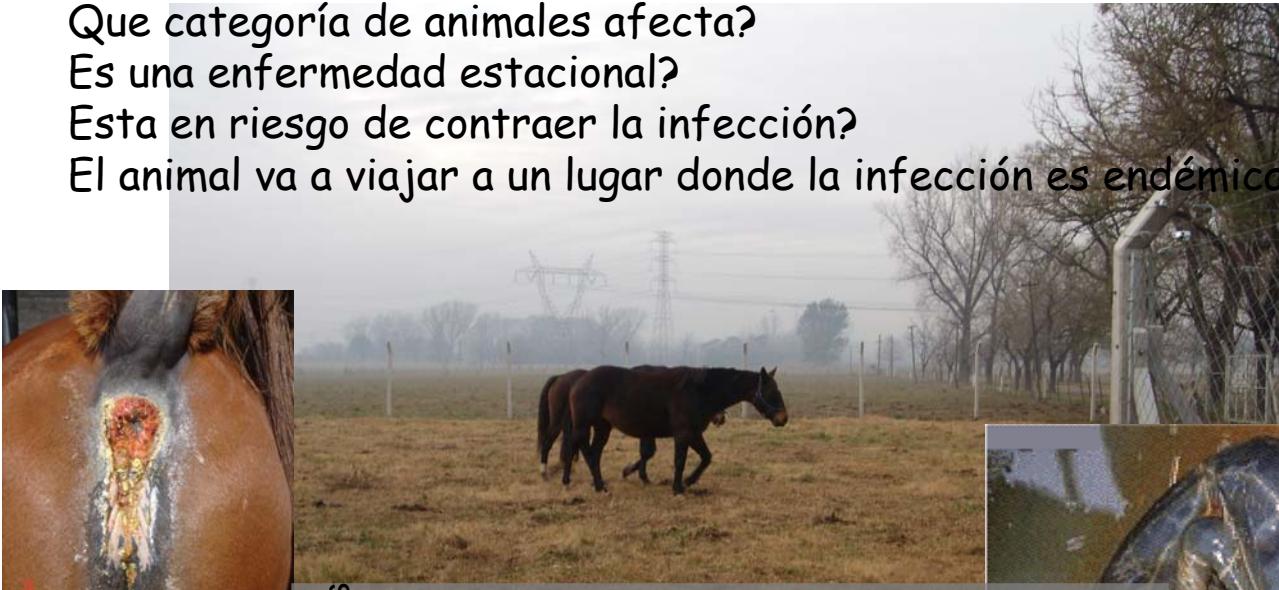
Que queremos prevenir?

Que categoría de animales afecta?

Es una enfermedad estacional?

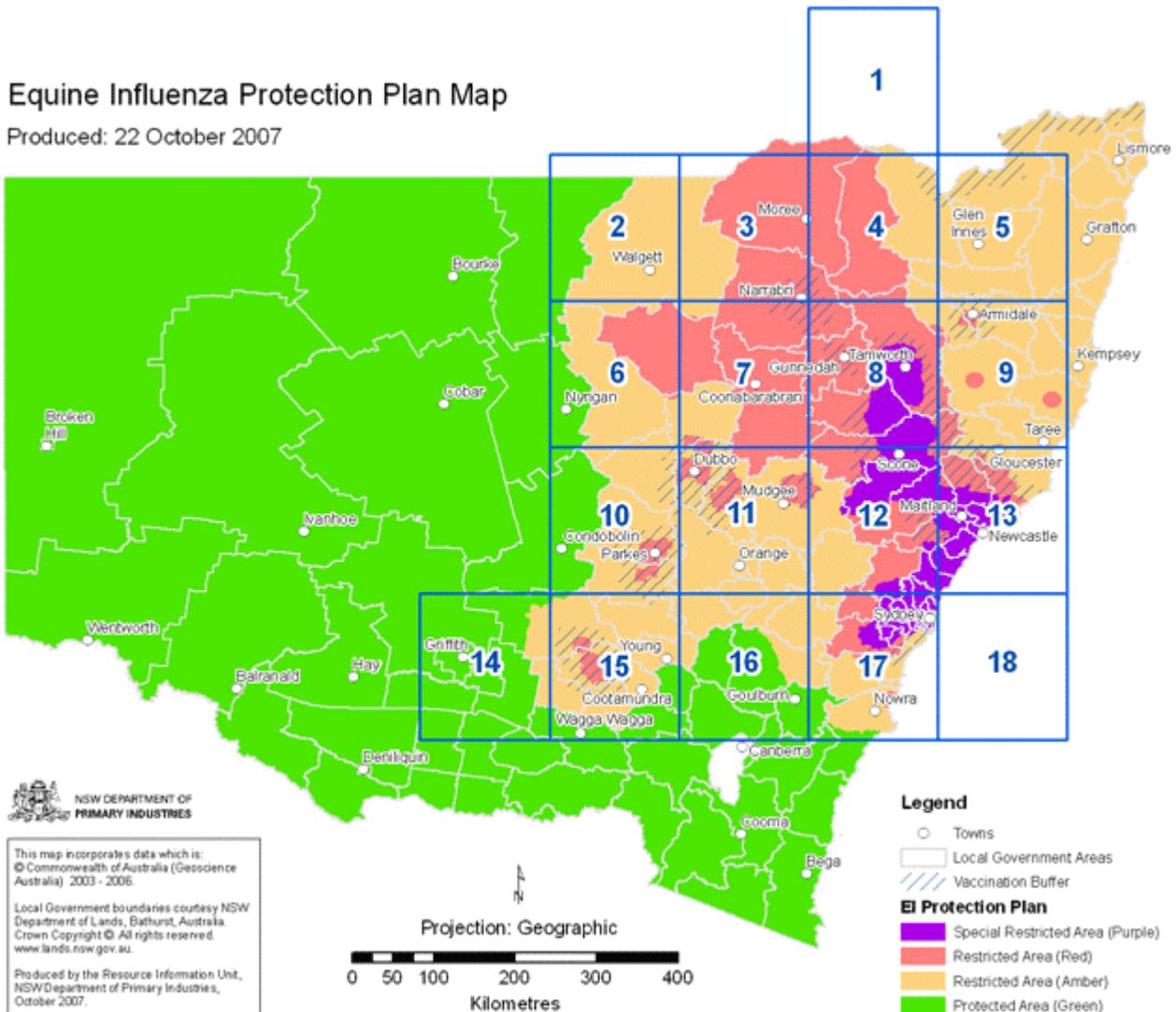
Esta en riesgo de contraer la infección?

El animal va a viajar a un lugar donde la infección es endémica?



Equine Influenza Protection Plan Map

Produced: 22 October 2007



VACUNA UTILIZADA: PROTEQFLU TE importada desde Francia (MERIAL)

PRIORIDADES PARA LA VACUNACION

- TODOS LOS EQUINOS EN LAS ZONAS BUFFER PARA EVITAR LA INTRODUCCION DE LA INFECCION A LAS ZONAS LIBRES
- GRUPOS ESPECIALES DE CABALLOS (DE DISCAPACITADOS ETC)
- CABALLOS NO INFECTADOS EN LA ZONA PURPURA
- CABALLOS DEPORTIVOS PARA PODER INGRESAR EN LA ZONA PURPURA PARA COMPETIR

Para la vacunación de equinos están disponibles comercialmente

- Vacunas a microorganismos muertos (virus y bacterias)
- Polivalentes (numerosas combinaciones Influenza+Herpes+ EEE+EEO+Tétanos, etc)
- Vacunas atenuadas por pasaje en cultivos celulares (contra Arteritis Viral Equina- ARVAC- de Fort Dodge)
- Vacunas atenuadas para vacunación por vía nasal (Influenza y Streptococcus equi de Fort Dodge)
- Vacunas a subunidades (Equiffa de Merial) contiene virus de Influenza inactivado y subunidades proteicas de Herpes Virus Equino 1
- Vacuna recombinante contra Influenza (Canaripoxvirus) y contra West Nile (Canaripoxvirus) ambas de Merial
- Vacuna génica (contra West Nile Virus de Fort Dodge)



Gracias...

9 16:05