



FMD VACCINE BANKS A NETWORK APPROACH

Dr Jef Hammond
World Reference Laboratory for FMD
The Pirbright Institute
U.K.

Background & Concept

- 2004, OIE initiative – *Ad hoc* Group on Antigen & Vaccine Banks for FMD

“..to form a network of banks for exchange of information on cross-protection of vaccine antigens

“.. harmonization of methods and standards

- 2006, progressed by EU Funded project
- 2009, endorsed at OIE/FAO Global Conference on FMD, Paraguay

..it's not just about sharing vaccines



INTERNATIONAL FMD VACCINE STRATEGIC RESERVES NETWORK

Supporting Global FMD Control

Annual Report 2010-2011

Prepared by Dr Jef Hammond December 2011

In May 2010, Dr Jef Hammond presented the network concept to the Quadrilateral Animal Health Committee (Quads) group at OIE HQ prior to the general session.

Presentations were also made to the EU (Dr Alf Fuessel) and the UK CVO (Dr Nigel Gibbens) and Defra.

The concept was favourably received and development of the network endorsed by all parties and the title of **International FMD Vaccine Strategic Reserves Network' (IVSRN)** was agreed. Establishment of the network was strongly endorsed by the OIE and FAO.



INTERNATIONAL FMD VACCINE STRATEGIC RESERVES NETWORK

Supporting Global FMD Control

Annual Report 2010-2011

Prepared by Dr Jef Hammond December 2011

The network can facilitate:

- sharing of information and best practices
- Avoid duplication saving time, money and limited resources
- rationalisation and sharing of reagents
- independent testing of FMD vaccines
- monitoring of developments relating to emergency FMD vaccines
- identification and promotion of areas of research to improve emergency FMD vaccine reserves
- provide a unified voice in discussions with vaccine manufacturers
- Potential to share banked antigens through a 'virtual international FMD vaccine bank'



INTERNATIONAL FMD VACCINE STRATEGIC RESERVES NETWORK

Supporting Global FMD Control

Annual Report 2010-2011

Prepared by Dr Jef Hammond December 2011

Network outputs:

- A paper 'Toward a Global FMD Vaccine Bank Network' was published by OIE (Barnett et al, 2010)
- ToR were finalised in November 2010 and signed off by USA, Canada, Mexico, Australia and New Zealand
- NAFMDVB provided vaccine to South Korea
- NAFMDVB/ CFIA/Pirbright research project on vaccine matching
- An annual report has been produced and circulated to members
- A paper discussing the period for return to *FMD freedom* status following an outbreak was prepared (Geale et al 2012).
- Face to face meetings arranged to coincide with international forums.
- Meetings were held at 2nd global OIE/FAO FMD conference in Bangkok June 2012 and EuFMD Open session in Jerez October 2012.



INTERNATIONAL FMD VACCINE STRATEGIC RESERVES NETWORK

Supporting Global FMD Control

Annual Report 2010-2011

Prepared by Dr Jef Hammond December 2011

2013 and onwards

- From 2010 to 2012 WRLFMD Pirbright chaired the network and In late 2012 the leadership of the network was rotated to New Zealand
- Pirbright continue to provide web support and global surveillance data to the network.
- At the Quads meeting held recently in Australia the Chief Veterinary Officers of Australia, Canada, US and NZ re-emphasised their commitment to the network, and their belief that it will continue to develop into a very valuable initiative.
- The previous TOR were updated with an Addendum, and a meeting schedule with a provisional agenda was agreed by all members. As a first action it was agreed that each of the vaccine manufacturers would be approached in term with a questionnaire about their vaccines, and that they would be invited to participate in a teleconference.
- The next teleconference will be held on the 24 April 2013.

Proficiency Testing Scheme 2012

- During 2012, the European Union Reference Laboratories for FMD and SVD, in association with WRLFMD[®], organised a round of combined FMD/SVD proficiency test scheme to help quality assure FMD and SVD diagnosis.
- The first priority was to supply proficiency panels to member states of the EU and of the EuFMD, but the panels were also made available more widely, including targeting of the OIE/FAO FMD Network Laboratories.
- The laboratory capabilities evaluated in this PTS were outbreak detection by virus, virus antigen and virus genome detection and diagnosis by serology.

Proficiency Testing Scheme 2012

Details of PTS:

- 59 labs took part in this study mostly supported by the EC and the EuFMD.
- 26 labs were from EU member countries
- 33 labs were from Non-EU countries.
- Participants were sent a package containing uniquely coded and labelled samples for testing
- Information was collected on tests in use, strains of virus used in tests, extent of ongoing testing, and quality accreditation status of tests.

Proficiency Testing Scheme 2012 EuFMD funding

Countries participating	Paid by FAO
Algeria	EUFGMD
Armenia	EUFGMD
Azerbaijan	EUFGMD
Belarus	EUFGMD
Botswana(BVI)	EUFGMD
Croatia	EUFGMD
Egypt	EUFGMD
Georgia	EUFGMD
Iran	EUFGMD
Israel	EUFGMD
Morocco (Zro)	EUFGMD
Norway	EUFGMD
Russia(ARRIAH)	EUFGMD
Serbia	EUFGMD
South Africa(OVI)	EUFGMD
Switzerland	EUFGMD
Tunisia	EUFGMD
Turkey	EUFGMD
Ethiopia	EUFGMD
Lebanon	EUFGMD
Thailand	EUFGMD
Total (labs/countries):21	

Countries not participating
Albania
Bosnia (Velic)
Iraq
Kenya
Kosovo
Libya
FYR Macedonia
Moldova
Montenegro
Syria
Sudan
Ukraine
Total(Labs/countries): 12

Proficiency Testing Scheme 2012 EuFMD funding

Countries participating	Paid by FAO
Algeria	EUFMD
Armenia	EUFMD
Azerbaijan	EUFMD
Belarus	EUFMD
Botswana(BVI)	EUFMD
Croatia	EUFMD
Egypt	EUFMD
Georgia	EUFMD
Iran	EUFMD
Israel	EUFMD
Morocco (Zro)	EUFMD
Norway	EUFMD
Russia(ARRIAH)	EUFMD
Serbia	EUFMD
South Africa(OVI)	EUFMD
Switzerland	EUFMD
Tunisia	EUFMD
Turkey	EUFMD
Ethiopia	EUFMD
Lebanon	EUFMD
Thailand	EUFMD
Total (labs/countries):21	

Countries not participating
Albania
Bosnia (Velic)
Iraq
Kenya
Kosovo
Libya
FYR Macedonia
Moldova
Montenegro
Syria
Sudan
Ukraine
Total(Labs/countries): 12