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Field evaluation of a safe and cost-effective shipment of suspected samples to diagnostic laboratories using lateral flow devices

Aurore Romey, Graham J. Belsham, Souheyla Benfrid, Cindy Bernelin-Cottet, Abdalnaci Bulut, Michael Eschbaumer, Claude Hamers, Pascal Hudelet, Syed Jamal, Anthony Relmy, et al.

► To cite this version:

Aurore Romey, Graham J. Belsham, Souheyla Benfrid, Cindy Bernelin-Cottet, Abdalnaci Bulut, et al.. Field evaluation of a safe and cost-effective shipment of suspected samples to diagnostic laboratories using lateral flow devices. Global Foot-and-Mouth (F M D) Research Alliance (G F R A), Nov 2021, Virtual Conference, Argentina. anses-04526323

HAL Id: anses-04526323

<https://anses.hal.science/anses-04526323>

Submitted on 29 Mar 2024

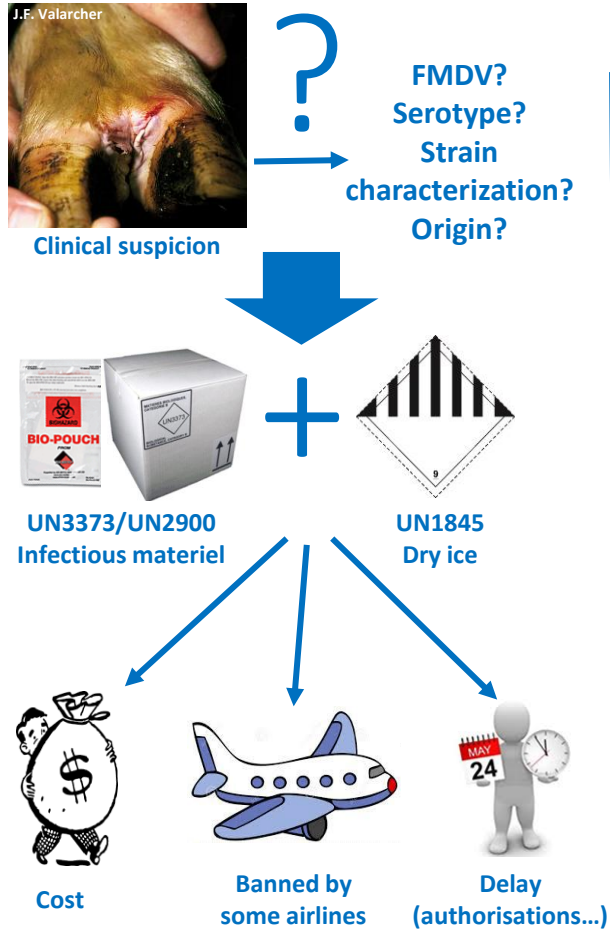
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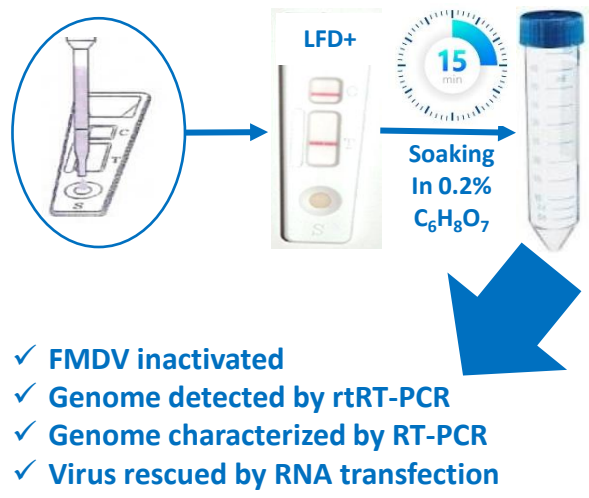


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Context



Evaluation in the laboratory



Transboundary and Emerging Diseases
ORIGINAL ARTICLE
Safe and cost-effective protocol for shipment of samples from Foot-and-Mouth Disease suspected cases for laboratory diagnostic

anses
eufmd 2013
European commission for the control of foot-and-mouth disease
GFRA
Global Foot-and-Mouth Disease Research Alliance

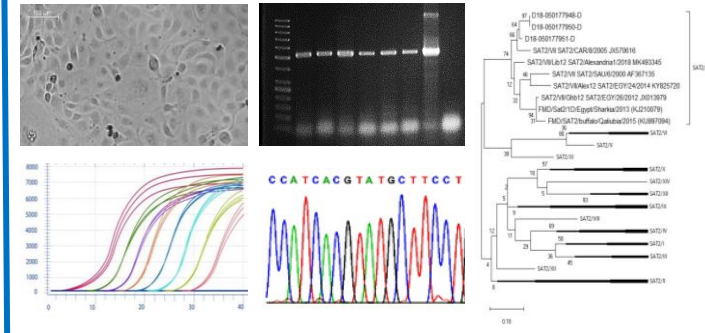
Evaluation in the field



- ✓ Collection of FMDV suspected clinical samples in 3 endemic countries
- ✓ Loading on LFD → positive signal
- ✓ Soaking of LFD in 0.2% C₆H₈O₇ for 15 minutes



- ✓ The safety of the inactivation protocol confirmed
- ✓ FMDV genome detected by rtRT-PCR
- ✓ FMDV typed by RT-PCR
- ✓ Virus rescued by RNA transfection
- ✓ Whole genome sequenced
- ✓ Strain characterized by phylogenetic study



EUFMD - Fund for Applied Research (EuFMD-FAR) - 2017
2017
National Veterinary Institute (NVI) Nigeria
UNIVERSITY OF MALAKAND
DTU
Boehringer Ingelheim
FLI
anses

Bakkali Kassimi L.¹, Belsham G.J.², Benfrid S.¹, Bernelin-Cottet C.¹, Bulut A.N.³, Eschbaumer M.⁴, Hamers C.⁵, Hudelet P.⁵, Jamal S.M.⁶, Relmy A.¹, Romey A.^{†1}, Ularanu H.G.⁷, Wungak Y.S.⁷, Zientara S.¹ and Blaise-Boisseau S.¹

AUTHORS

¹Laboratoire de Santé Animale, Laboratoire de référence Européenne, Nationale, FAO et OIE pour la Fièvre Aphteuse, UMR Virologie 1161, Université Paris-Est, Anses, Maisons-Alfort, France; ²DTU National Veterinary Institute, Technical University of Denmark, Lindholm, Denmark (DTU-Vet); ³SAP/FMD Institute, Dumlupinar Bulvarı,35, 06510, Ankara, Turkey; ⁴Institute of Diagnostic Virology, Friedrich-Loeffler-Institut, Südufer 10, 17493, Greifswald-Insel Riems, Germany; ⁵The Veterinary Public Health Center, Boehringer Ingelheim Animal Health, 29 Avenue Tony Garnier, 69007 Lyon France; ⁶Department of Biotechnology, University of Malakand (UM), Chakdara, Pakistan; ⁷FMD Research Centre, Nat. Vet. Res. Inst. (NVRI), PMB 01 Vom, Nigeria