About	Submit	Journals	Research Topics
Search for articles, people, events and more.			

Login | Registe

EVENT ABSTRACT Back to Event

First evidence of infectious hematopoietic necrosis virus (IHNV) in the Netherlands

Olga Haenen^{1*}, Heike Schuetze², Michael Cieslak², Clazien De Vos³, Armin Elbers³, Suyin Oldenburg⁴, Marcel Spierenburg⁴, Ineke Roozenburg-Hengst¹, Michael Voorbergen-Laarman¹, Marc Engelsma¹ and Niels Jørgen Olesen⁵

- 1 Central Veterinary Institute, part of Wageningen UR, Department of Bacteriology and Epidemiology, Netherlands
- ² Friedrich-Loeffler-Institut, Bundesforschungs Institut für Tiergesundheit, Germany
- 3 Central Veterinary Institute, part of Wageningen UR, Department of Bacteriology and Epidemiology, Netherlands
- ⁴ Netherlands Food and Consumer Product Safety Authority (NVWA), Netherlands
- ⁵ DTU National Veterinary Institute, Section for Virology, Denmark

In spring 2008, infectious hematopoietic necrosis virus (IHNV) was detected for the first time in the Netherlands. The virus was isolated from rainbow trout, Oncorhynchus mykiss (Walbaum), from a put-and-take fishery with angling ponds. IHNV is the causative agent of a serious fish disease, infectious hematopoietic necrosis (IHN). From 2008-2011, we diagnosed eight IHNV infections in rainbow trout originating from six put-and-take fisheries (symptomatic and asymptomatic fish), and four IHNV infections from three rainbow trout farms (of which two were co-infected by Infectious Pancreatic Necrosis Virus, IPNV), at water temperatures between 5 and 15°C. At least one Dutch farm (with both put-and-take fisheries and rainbow trout culture) delivered trout to four of these eight IHNV positive farms. Mortalities related to IHNV were mostly <40%, but increased to nearly 100% in case of IHNV and IPNV co-infection. Subsequent phylogenetic analysis revealed that these 12 isolates clustered into two different monophyletic groups within the European IHNV-genogroup E. One of these two groups indicates a virus-introduction event by a German trout import, whereas the second group indicates that IHNV was already (several years) in the Netherlands before its discovery in 2008. Since 2011 no further IHNV infections were detected in the Netherlands. In this poster, details on the first IHNV detections in 2008-2011 in the Netherlands are presented.

Keywords: Infectious hematopoietic necrosis virus, rainbow trout, phylogenetic analysis, The netherlands, Virus introduction

Conference: AquaEpi I - 2016, Oslo, Norway, 20 Sep - 22 Sep, 2016. Presentation Type: Poster Topic: Aquatic Animal Epidemiology

Citation: Haenen O, Schuetze H, Cieslak M, De Vos C, Elbers A, Oldenburg S, Spierenburg M, Roozenburg-Hengst I, Voorbergen-Laarman M, Engelsma M and Olesen N (2016). First evidence of infectious hematopoietic necrosis virus (IHNV) in the Netherlands. Front. Vet. Sci. Conference Abstract: AquaEpi I - 2016. doi: 10.3389/conf.FVETS.2016.02.00020

Received: 25 May 2016; Published Online: 14 Sep 2016.

* Correspondence: Dr. Olga Haenen, Central Veterinary Institute, part of Wageningen UR, Department of Bacteriology and Epidemiology, Lelystad, Netherlands, olga.haenen@wur.nl

 $\ensuremath{\text{@}}$ 2007 - 2016 Frontiers Media S.A. All Rights Reserved