

Trends in the Diagnosis of PD, HSMI & CMS in Scotland:

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VIRAL MYOPATHIES IN SCOTLAND

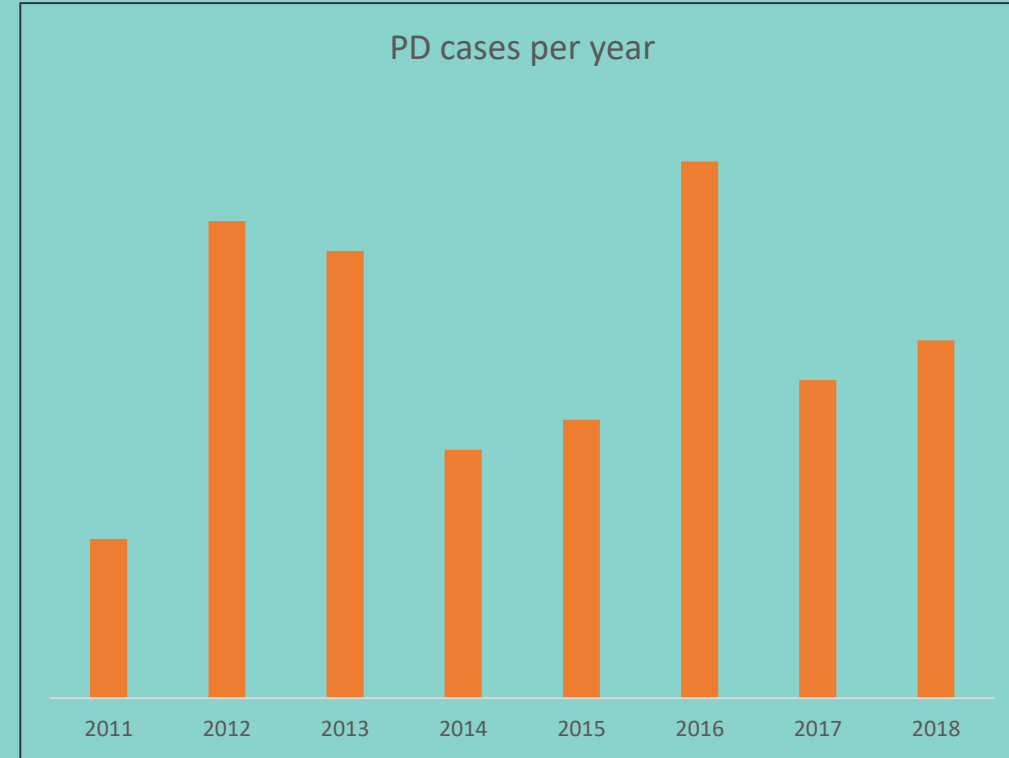
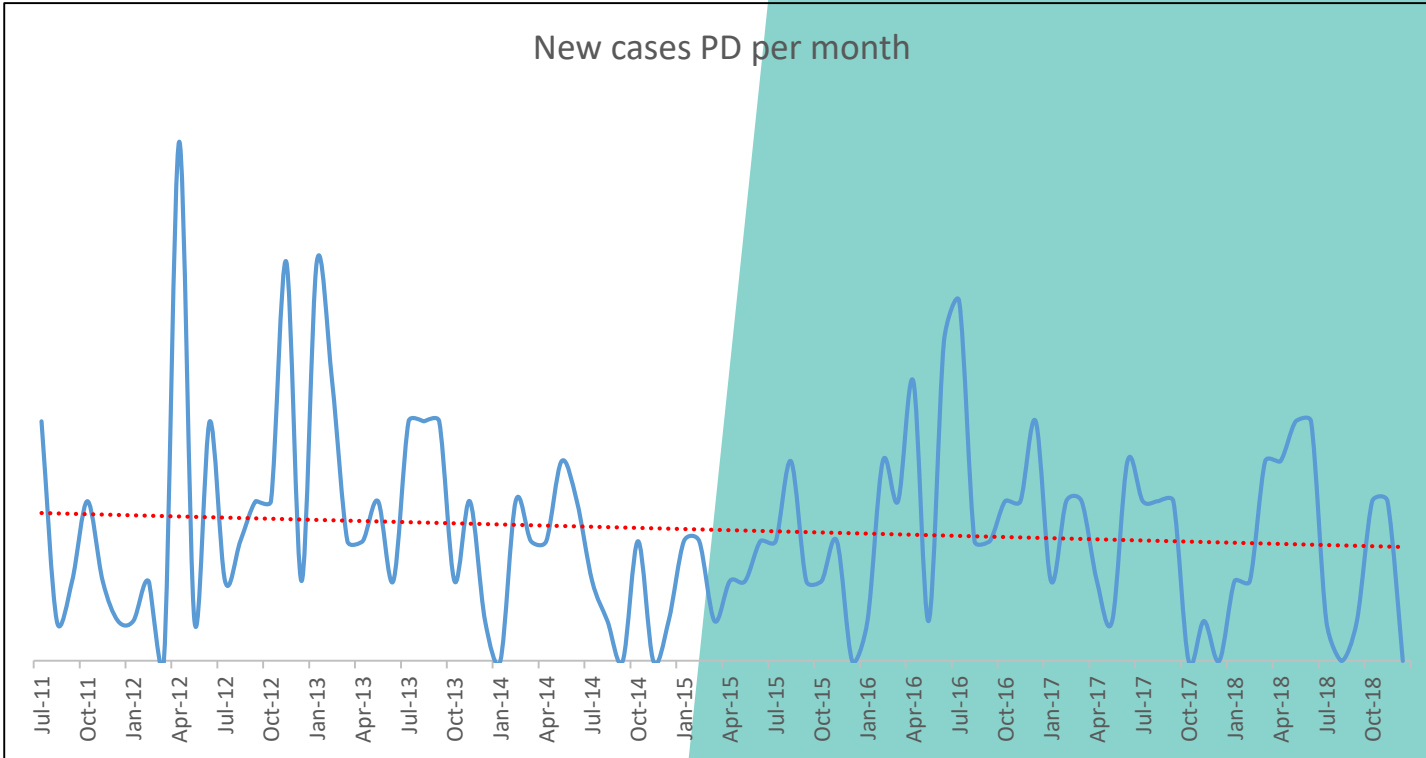
Viral myopathies still pose a significant loss to salmon industry in Scotland

- Direct mortality and morbidity
- Reduced resilience to other health challenges
- Reduced growth performance
- ? flesh quality implications

INCIDENCE OF VIRAL MYOPATHIES IN SCOTLAND

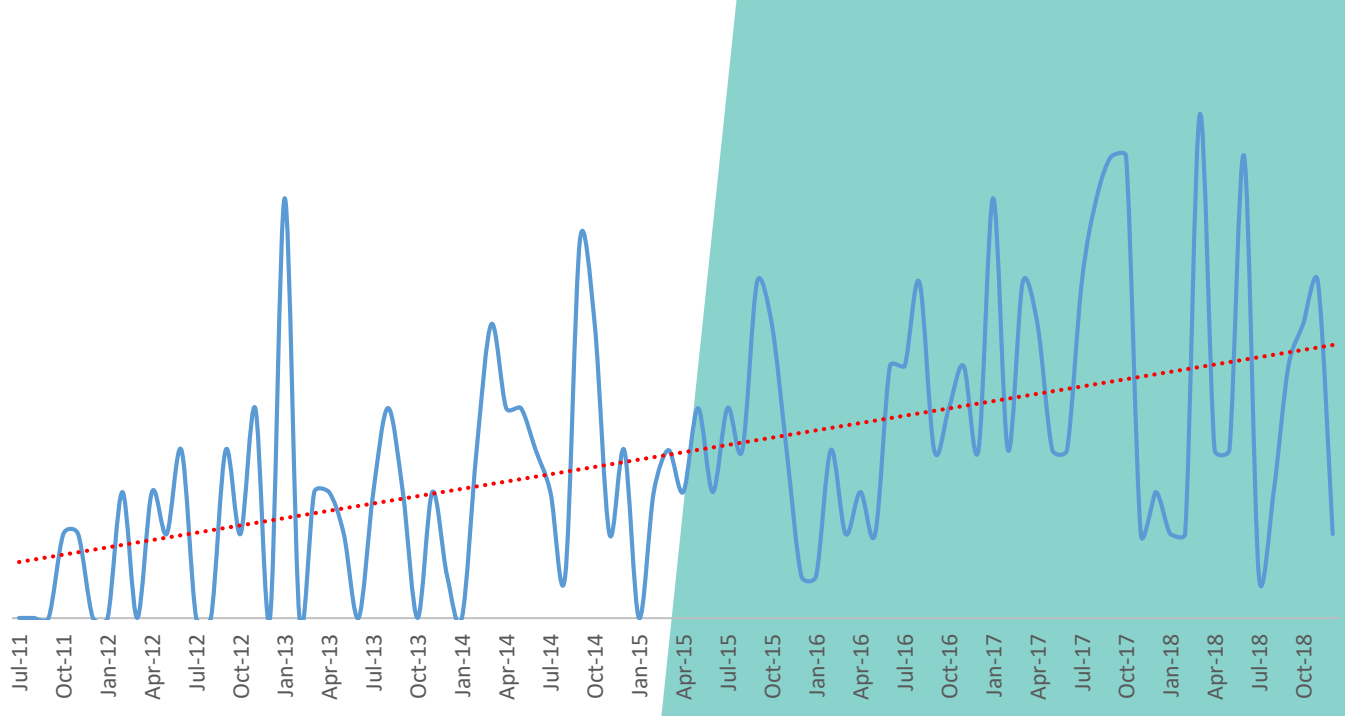
- None of these diseases are notifiable in Scotland.
- ~220 active marine salmon sites in Scotland.
- FVG database of observed pathology collected since 2011.
- Contains data on the incidence but not the severity of viral myopathies.
- Concurrent and similar pathologies occasionally make single diagnosis difficult
- Caution needed with interpretation of trends

PANCREAS DISEASE IN ATLANTIC SALMON

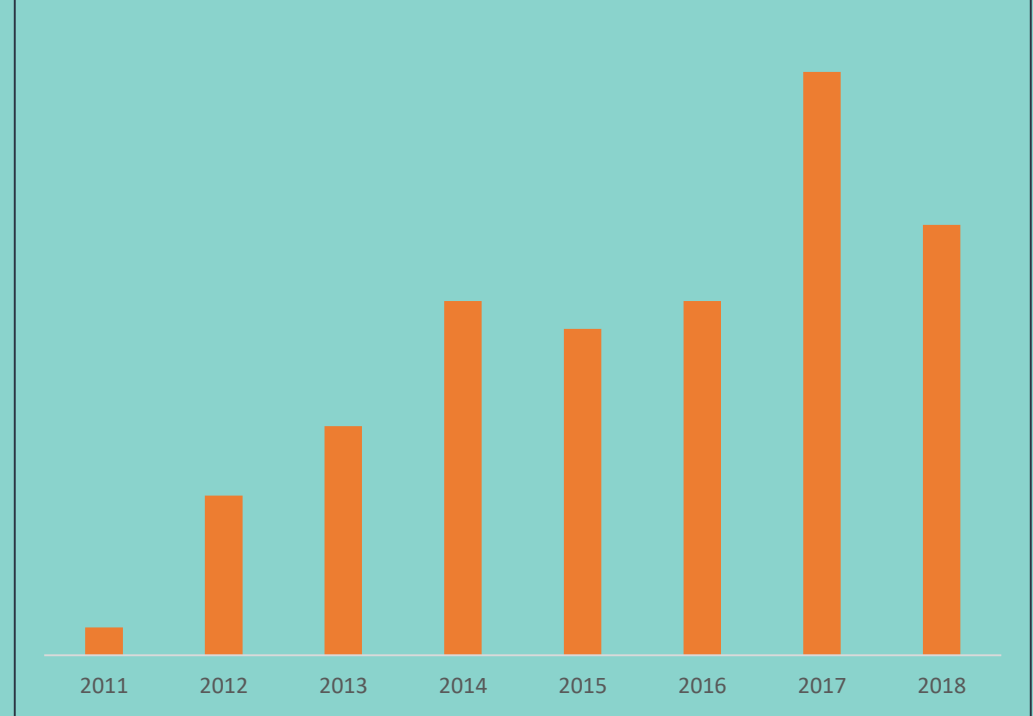


July 2011 to Dec 2018

New cases HSMI per month

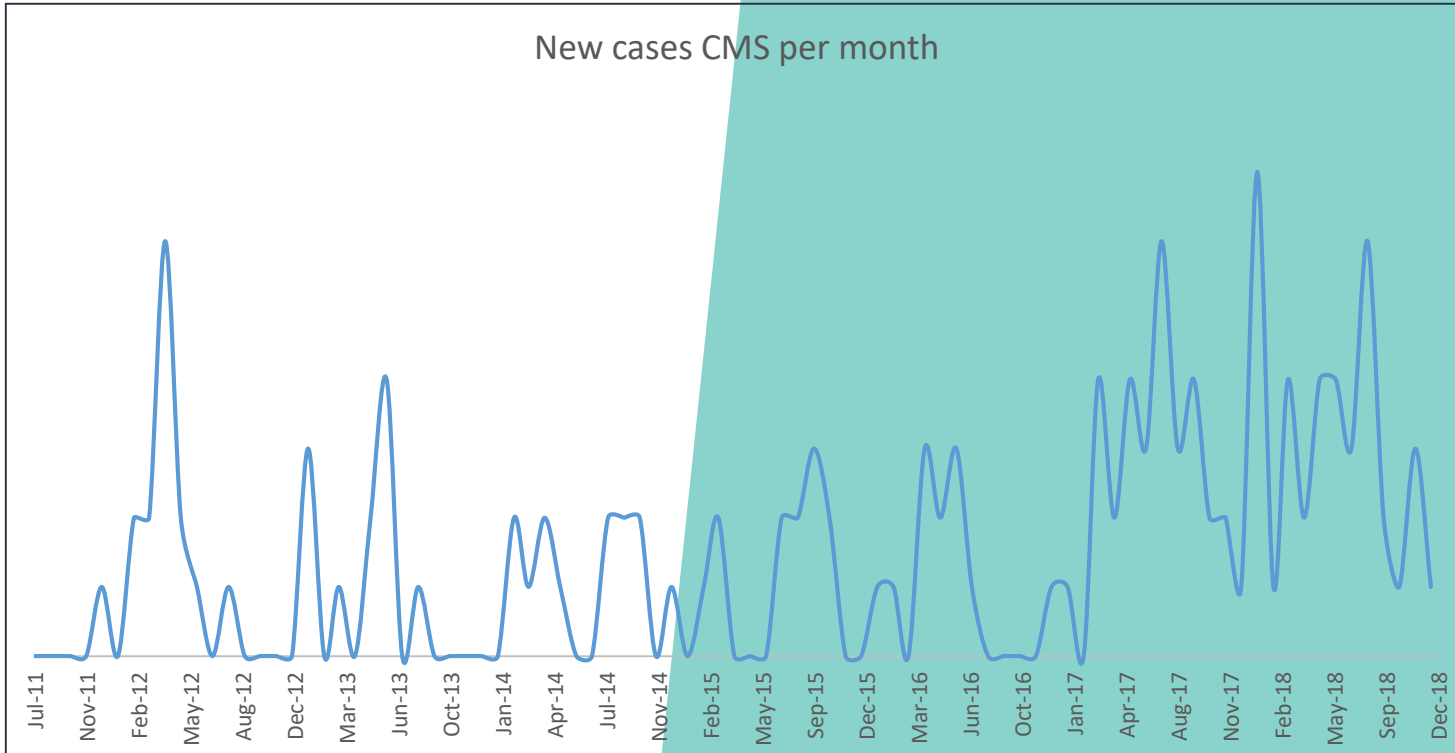


HSMI cases per year

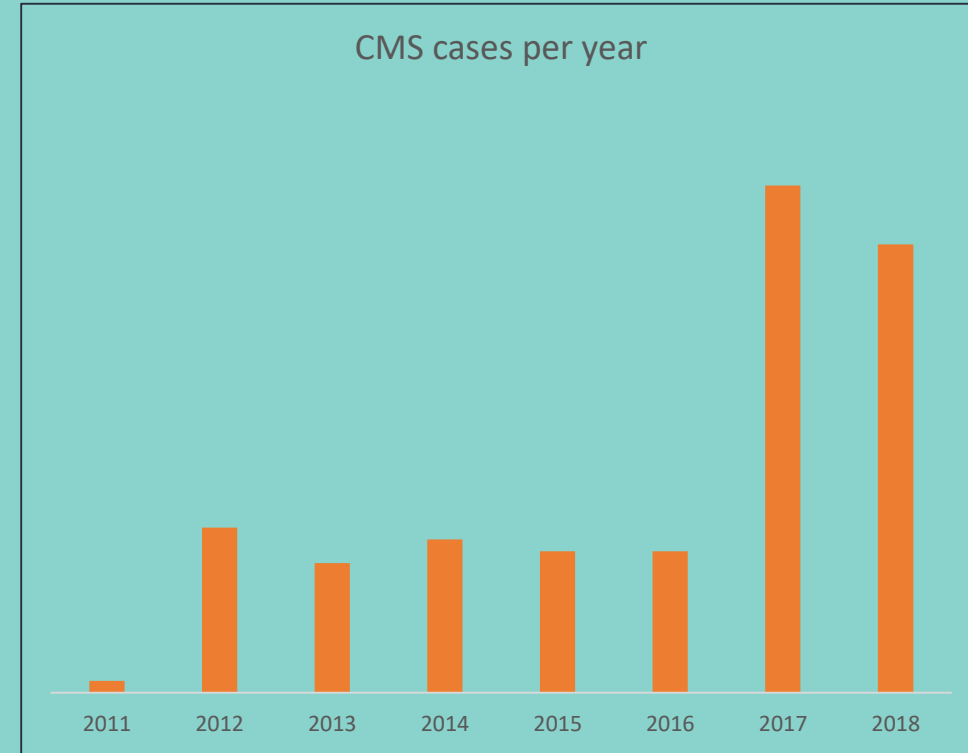


July 2011 to Dec 2018

New cases CMS per month

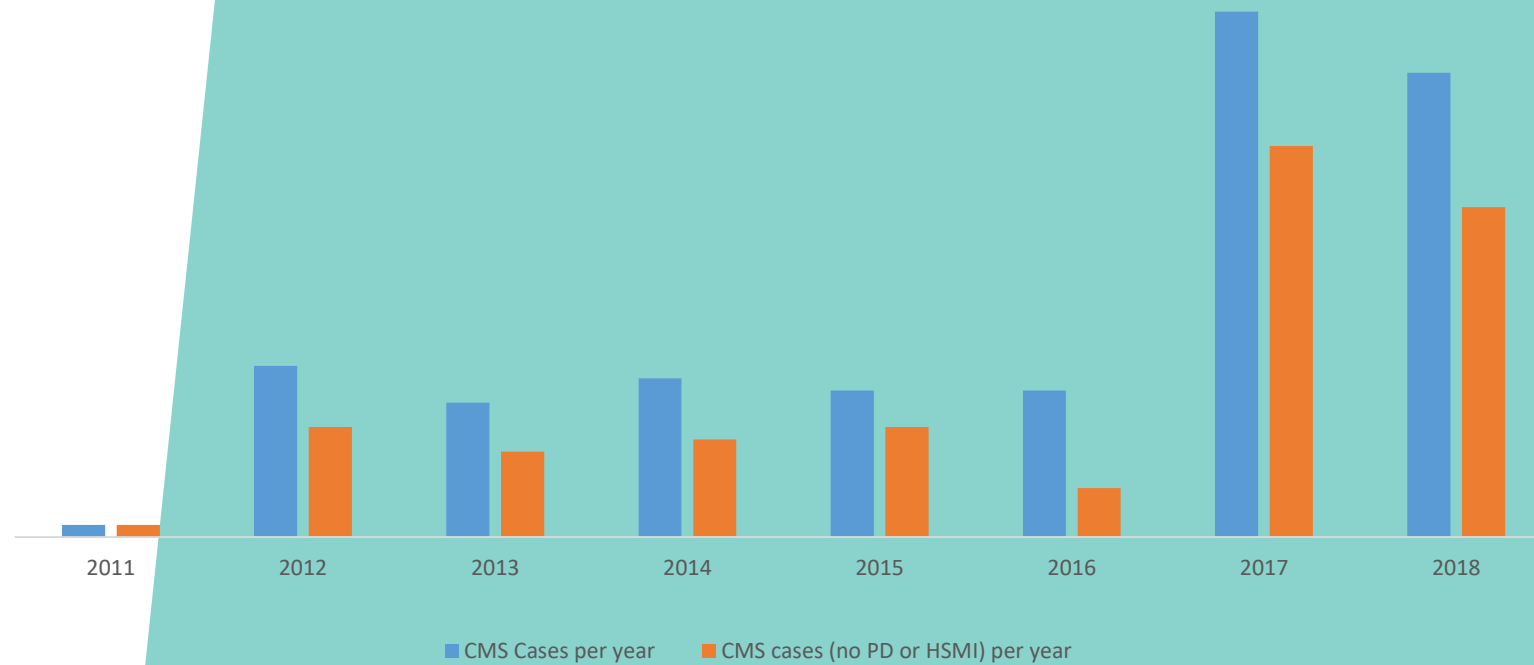


CMS cases per year



July 2011 to Dec 2018

CMS cases where PD/HSMI concurrently suspected vs cases with no PD/HSMI suspected



CURRENT VIRAL MYOPATHY TRENDS IN SCOTLAND

Similar number of PD cases in 2017 and 2018.

Number of cases with HSMI type pathology decreased in 2018. Many subclinical with very mild pathology.

Dramatic and worrying rise in CMS cases in 2017/2018. Seen in smaller fish as well as harvest fish.

No accurate information of the impact of any of these diseases.

More information on impact held by individual salmon companies.

More to be done to fully understand the impact of these diseases and available control measures.