




Mortality & Disease Trends

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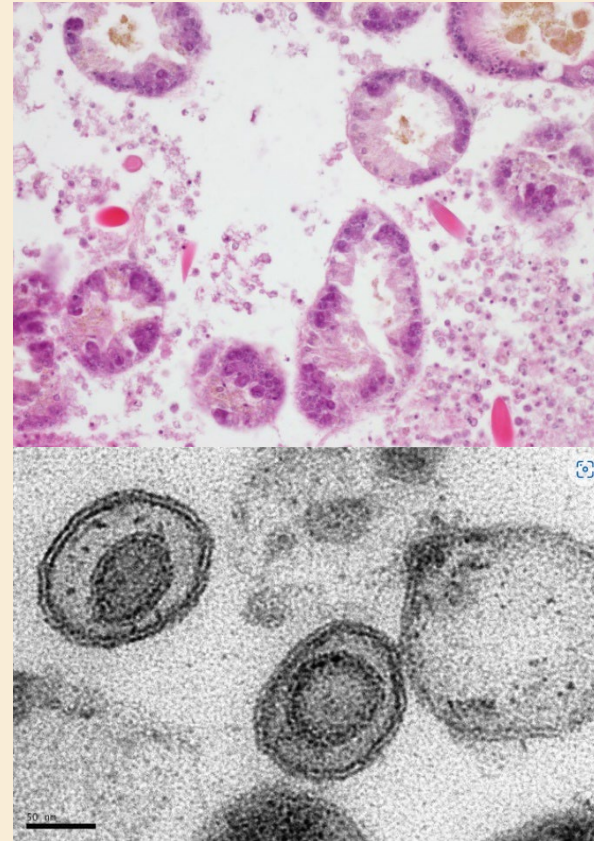
Content

- Main Pathogens of Pacific oysters in Ireland:
 - Ostreid Herpes Virus-1 (μ Var)
 - *V. aestuarianus* (subsp. *Francensis*)
 - Mortality situation 2020-2022
 - Mortality and Disease trends 2008-2023
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Main Diseases

Ostreid Herpes Virus-1(μ Variant)

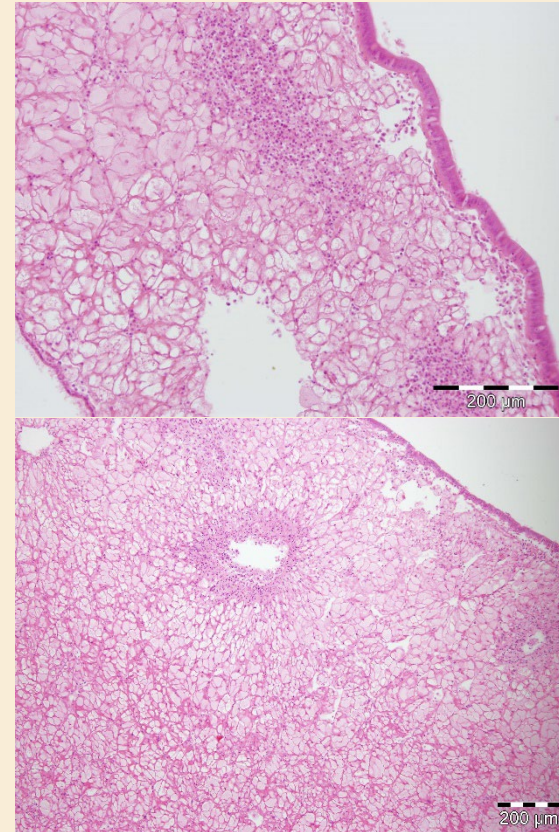
- Variant of OsHV-1 emerged 2007 / 2008 in France
- Caused rapid high mortality in spat and juveniles
- Rapidly spread to Ireland and other parts of Europe
- 2010 – 2021: Surveillance Programme to protect the areas which remained free of the virus
- 2014-2019 decline in the number and intensity of outbreaks
- 2020-2022: No clinical outbreaks reported
- 2023: low level detection in imported stock
- OsHV-1 – no longer a problem / under-reported?



Main Diseases

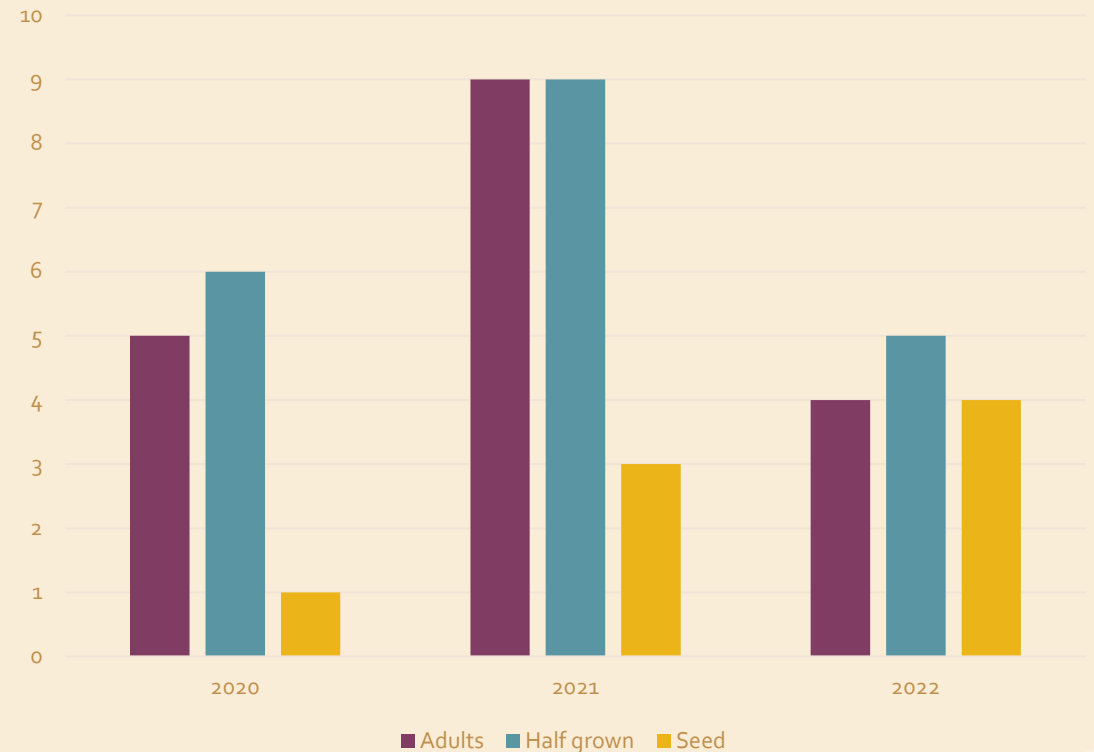
Vibrio aestuarianus subsp. *francensis*

- Bacteria belonging to the *Vibrio* genus
- First described in association with mortality in *C. gigas* in France in 2000
- “re-emergence” as a significant problem in 2011-2012 in France
- Historical study: sporadic detections 2001-2011 in Ireland
- 2013 routine monitoring started in Ireland
- 2015: widespread mortality associated with it’s presence
- Since 2015
 - good and bad years
 - *V. aestuarianus* detected in the majority of production sites
 - Some sites experience recurrent mortality annually
 - Other sites – only at the harvesting stage
 - Data we have dependant on reporting- potential underreporting?

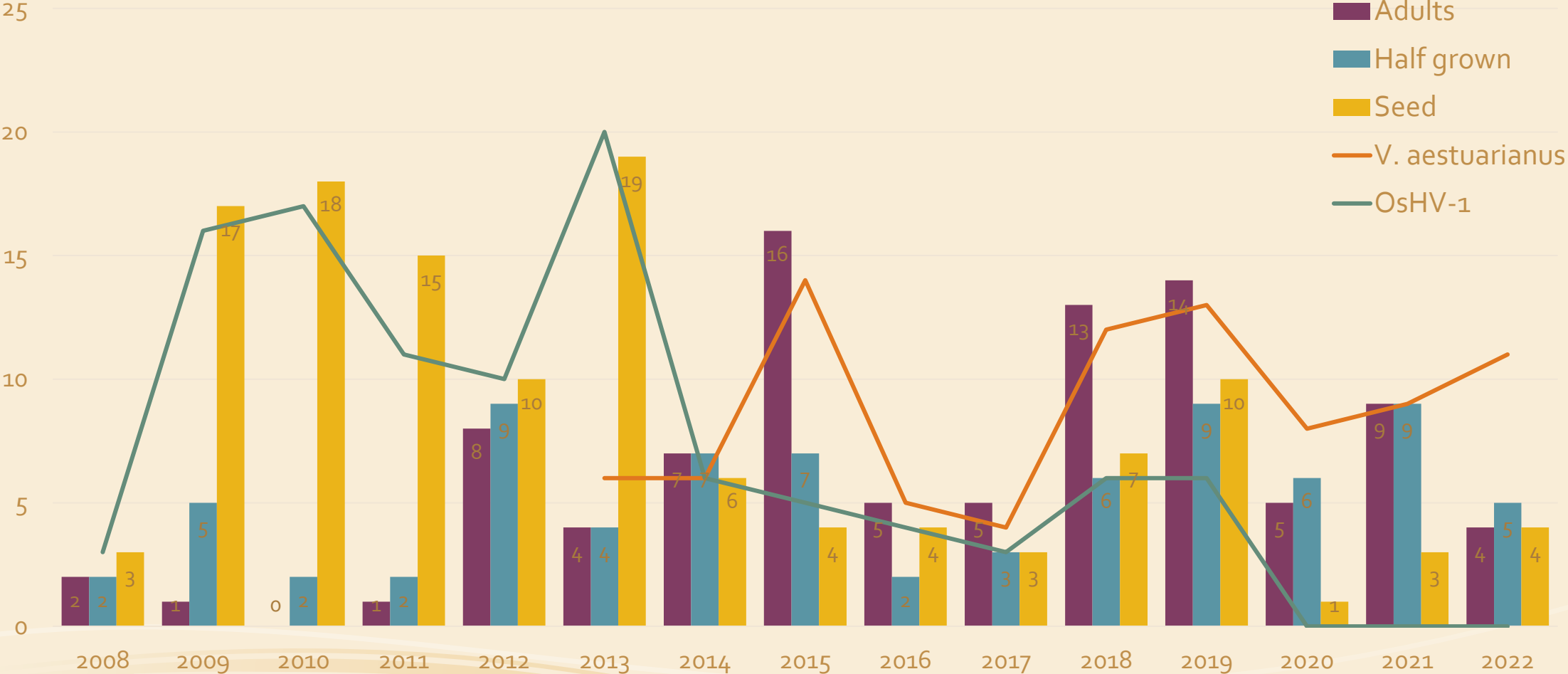


Mortality Situation 2020-2022


- No detection of Ostreid Herpes Virus-1
- *Vibrio aestuarianus* detected in all age classes in association with mortality
- Bacteria belonging to the *Vibrio splendidus* clade frequently detected
- *Vibrio aestuarianus* most predominant pathogen detected in all 3 years




Mortality reports & clinical disease detection 2008 to 2022



Conclusions

- Ostreid Herpes Virus-1 – declining issue on sites?
 - *Vibrio aestuarianus* – Predominant issue affecting *C. gigas* production
 - Since 2019 -*Vibrio aestuarianus* linked to spat mortality
 - Role of *Vibrio splendidus*? Other bacteria?
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WHAT NOW?

- What do we know about *Vibrio aestuarianus*?
Lydie Canier, EURL for Molluscn diseases, IFREMER
"*Vibrio aestuarianus*, a bivalve pathogen - summary of work carried out over the past 15 years"
 - Disease Mitigation
Isabelle Arzul, EURL for Molluscn diseases, IFREMER
" Can we prevent and mitigate bivalve diseases?"
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Thank you

The slide features a light beige background. At the bottom, there are several decorative, wavy lines in shades of cream and light gold, creating a soft, flowing effect.