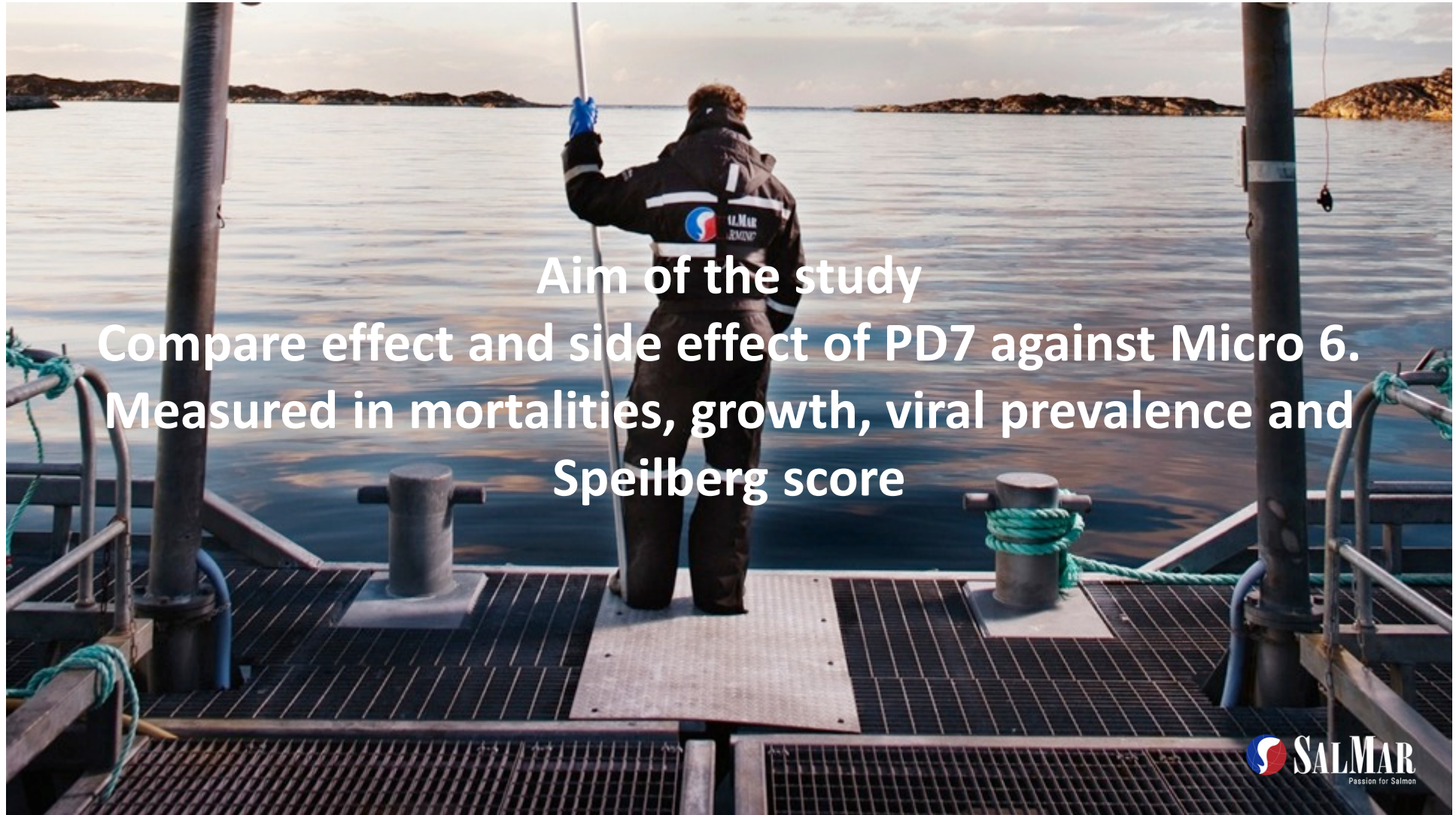




Field vaccine benchmark

Presentation
at
PD TriNation 2018
by
Magnus Vikan Røsæg



Aim of the study

Compare effect and side effect of PD7 against Micro 6.
Measured in mortalities, growth, viral prevalence and
Speilberg score

Groups

PIT-tag

Vaccine	Number of fish	Mean weight	Mean length
Aquavac PD7	999	34.7 (34.5-35.1)	14.4 (14.3-14.4)
Micro 6	1003	34.6 (34.3-34.8)	14.3 (14.2-14.3)
Saline	772	35.1 (34.7-35.4)	14.4 (14.4-14.5)

Maxilla marked

Vaccine	Number of fish
Aquavac PD7	20 000
Micro 6	20 000

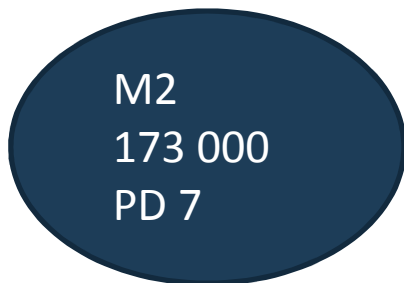
x2

Trials pens

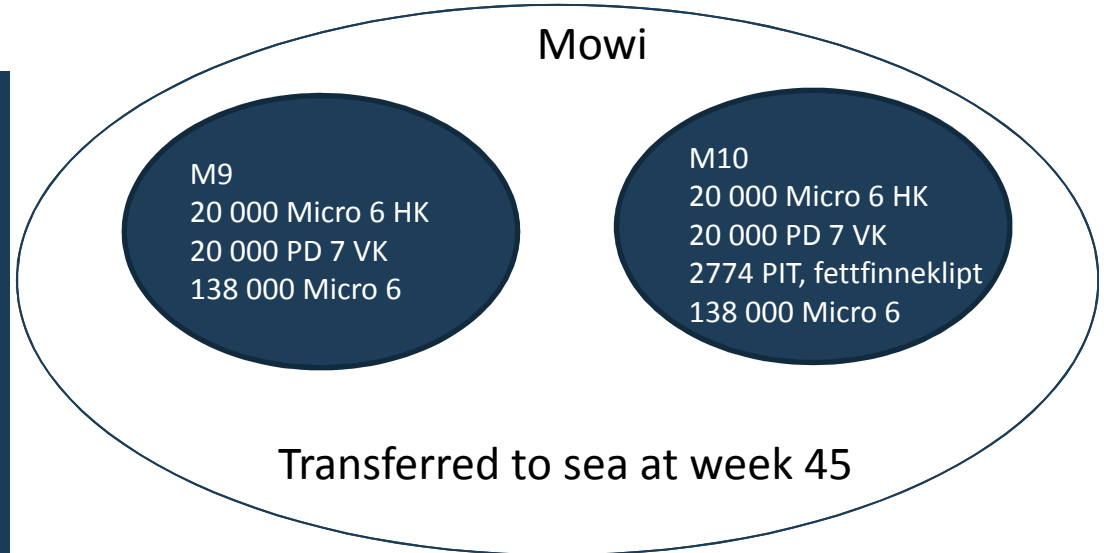
Aquagen



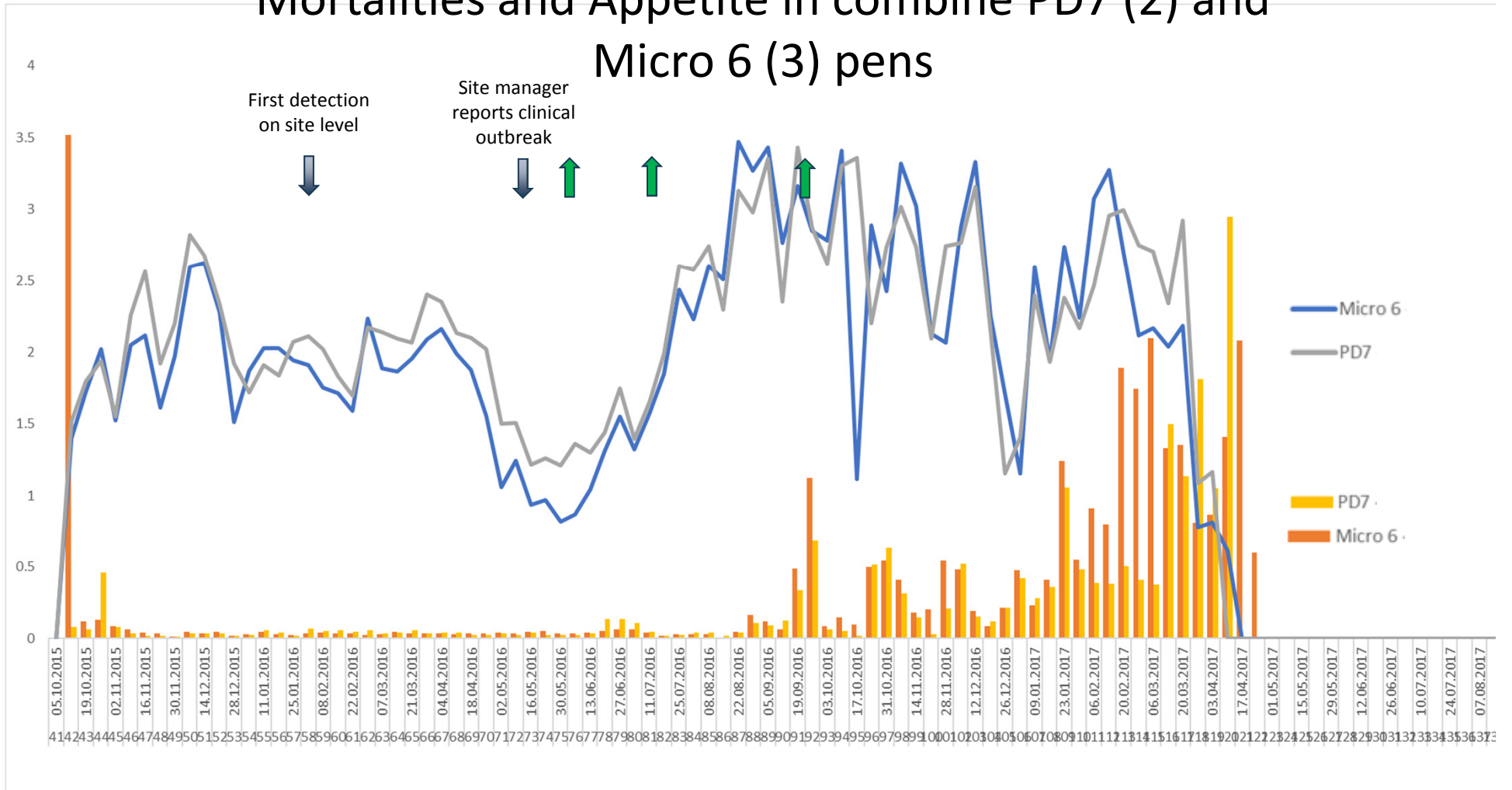
Transferred to sea at week 41



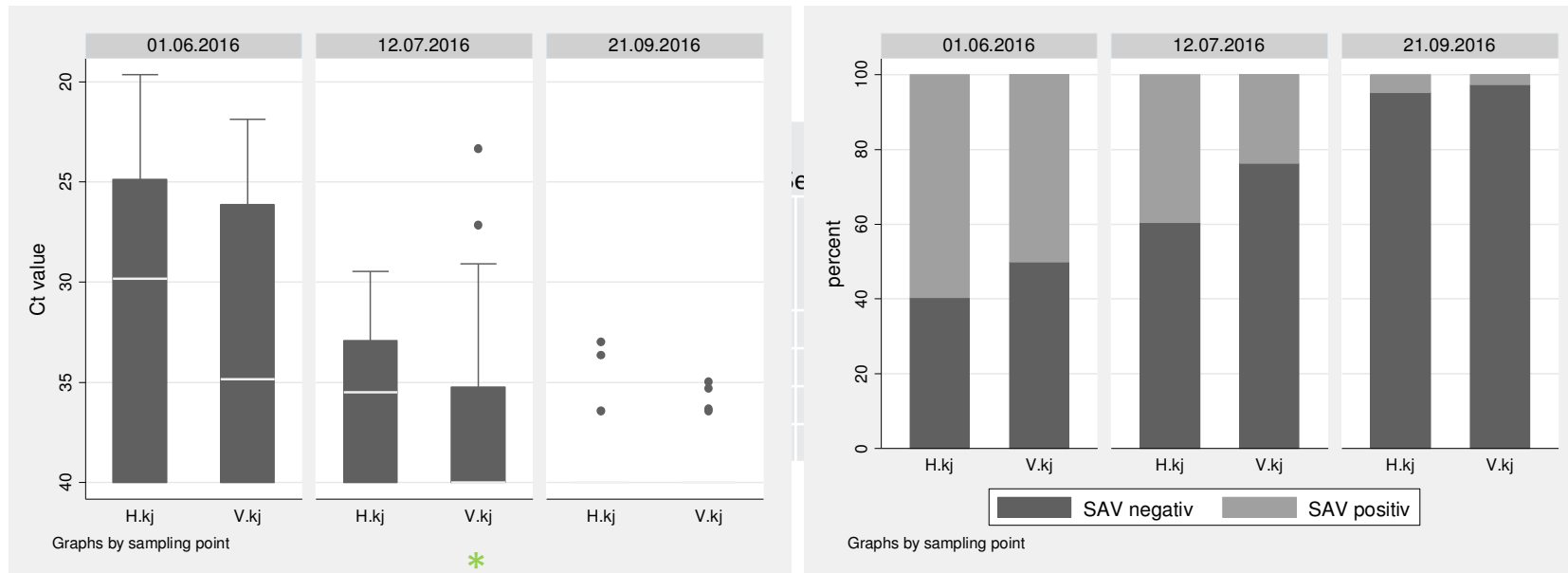
Mowi



Mortalities and Appetite in combine PD7 (2) and Micro 6 (3) pens



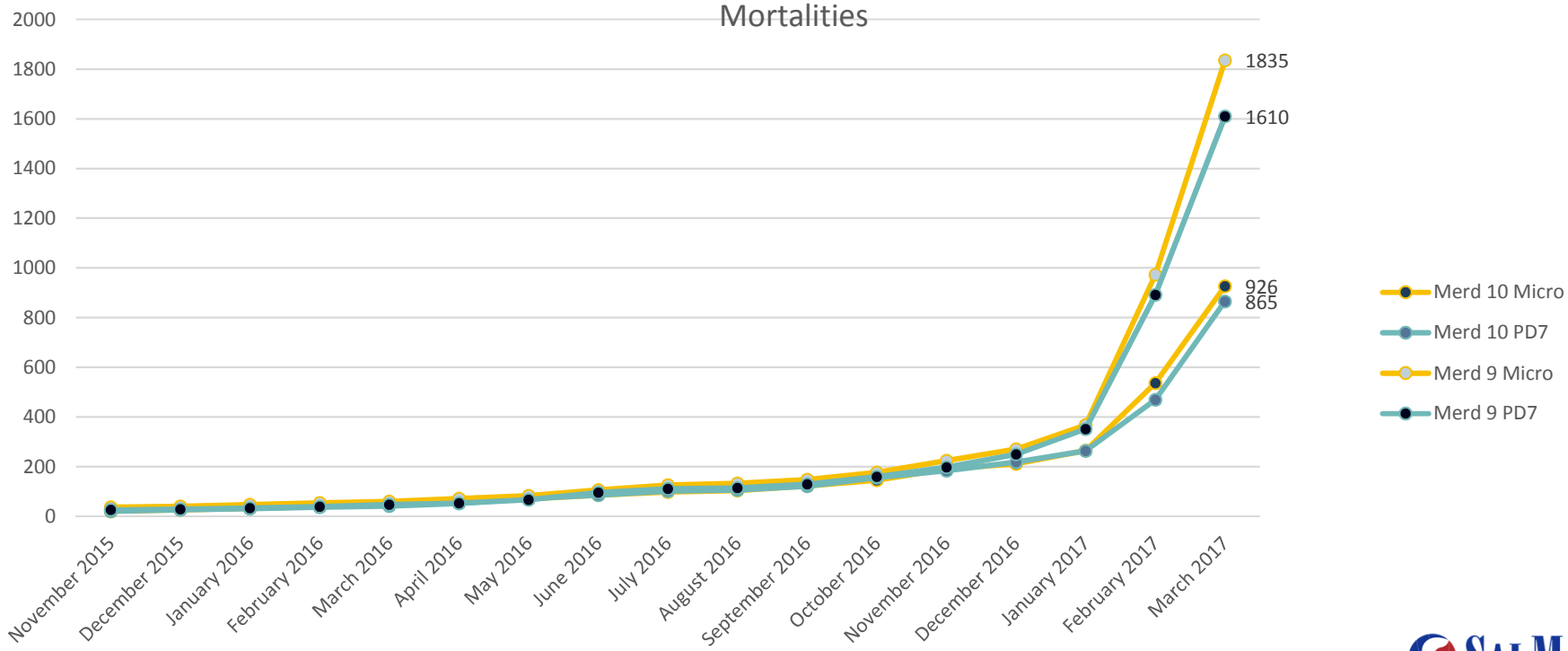
Detection of SAV RNA in maxilla marked groups



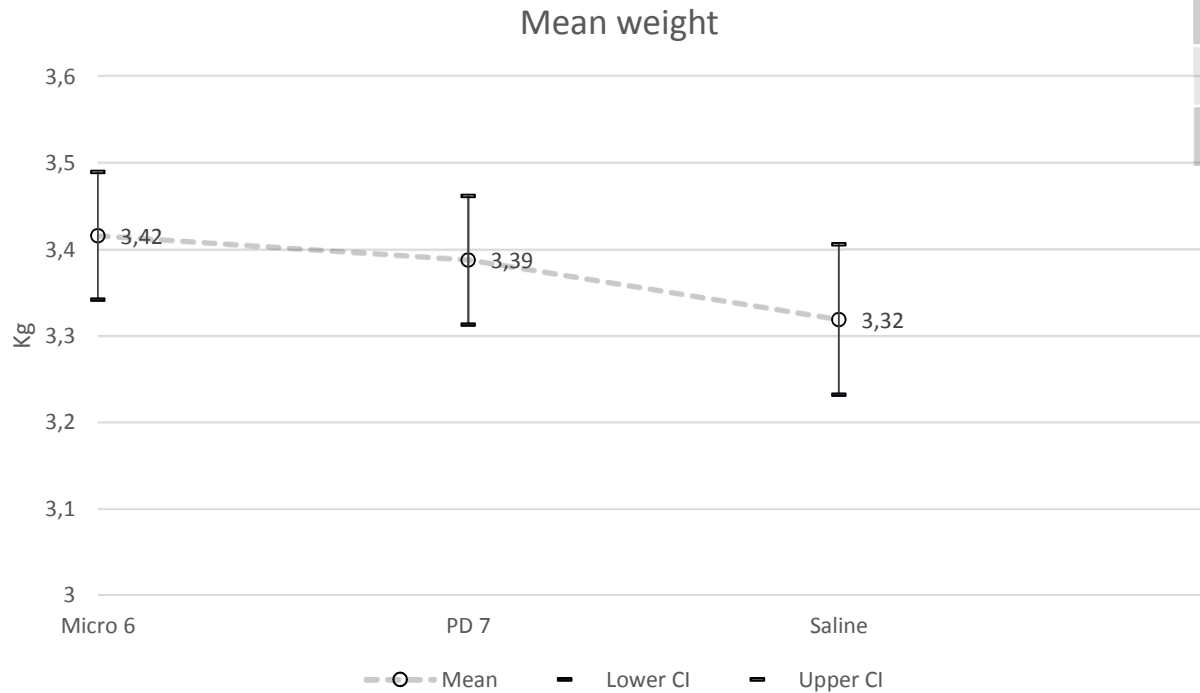
* Significant different in virus amount measured with Wilcoxon rank-sum test ($p < 0.05$)

H.kj= Micro 6, V.kj= PD7

Mortalities in maxilla marked groups



Recapture and slaughter weight in PIT-tag fish

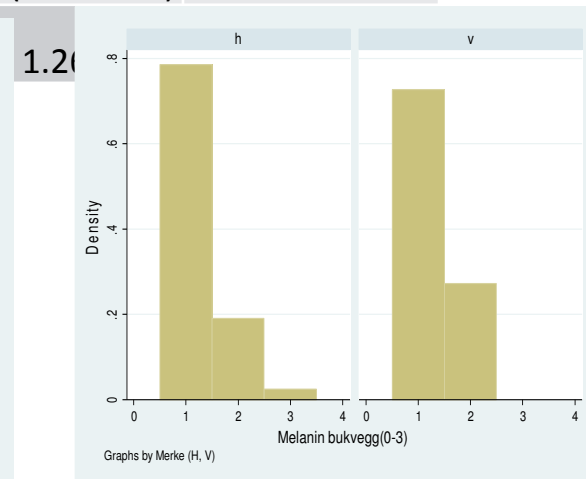
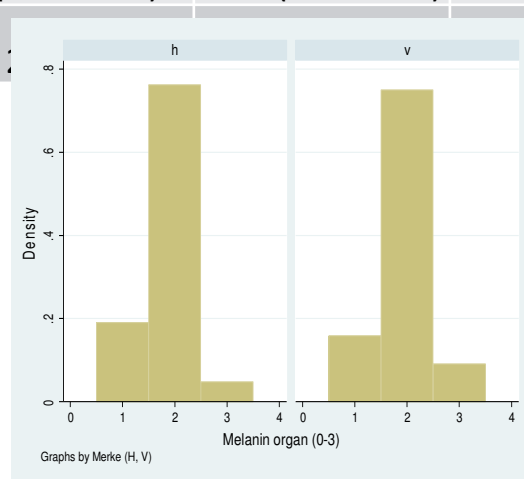
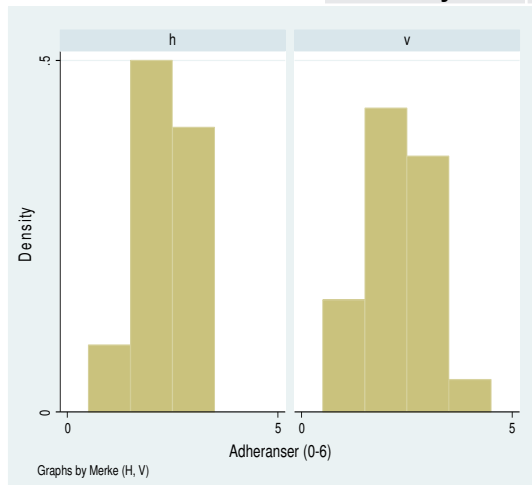


Vaccine	Number vaccinated	Recapture
Aquavac PD7	999	565 (56.6%)
Micro 6	1003	525 (52.3%)
Saline	772	440 (57.0%)

Speilberg score in maxilla marked groups

Scoring performed by VESO

Groups	Adherences (0-6)	Melanin in organ (0-3)	Melanin abdome(0-3)	Number of fish
H.kj	2.33 (2.12-2.53)	1.85 (1.70-2.00)	1.25 (1.09-1.41)	40
V.kj	2.27 (2.04-2.51)	1.93 (1.78-2.08)	1.27 (1.14-1.41)	44



Conclusion

Comparing PD 7 and Micro 6 in this field benchmark shows



- No difference in Speilberg score
- No difference in growth
- No difference in SAV related mortalities
- A trend with less SAV-RNA in PD7 vaccinated fish in the mandibular marked groups. Significant different at one sampling point in heart tissue

Acknowledgment

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Questions?