

Seeking alternative lice and AGD control: FW snorkel cages

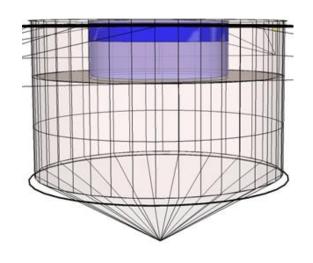
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Chemical-free lice barrier cages are here



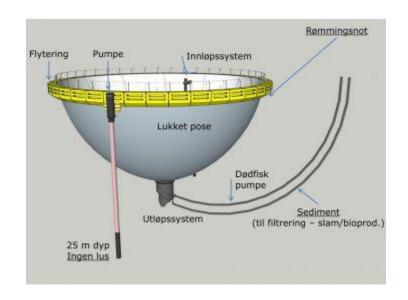


Snorkel cage



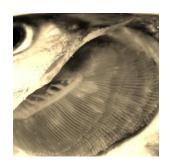
Skirt cage

Stien et al. (2012) Aquac Eng Stien et al. (2016) Aquaculture Nilsen et al. (2016) Aquaculture



Enclosed cage

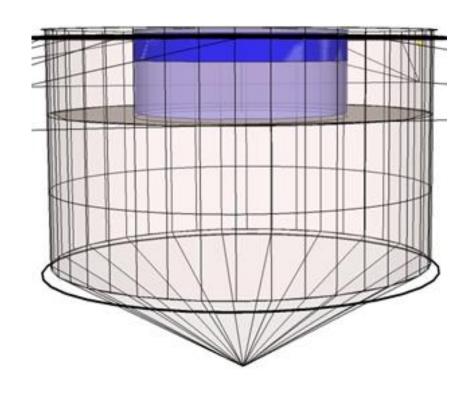
But barriers may worsen AGD outbreaks

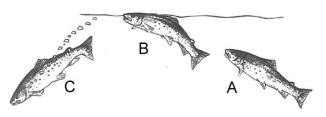




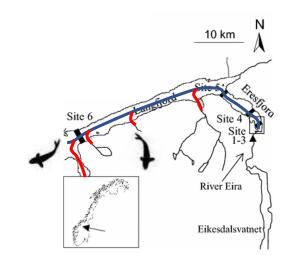
Wright (2017) Prev Vet Med

FW snorkel an option to control lice and AGD



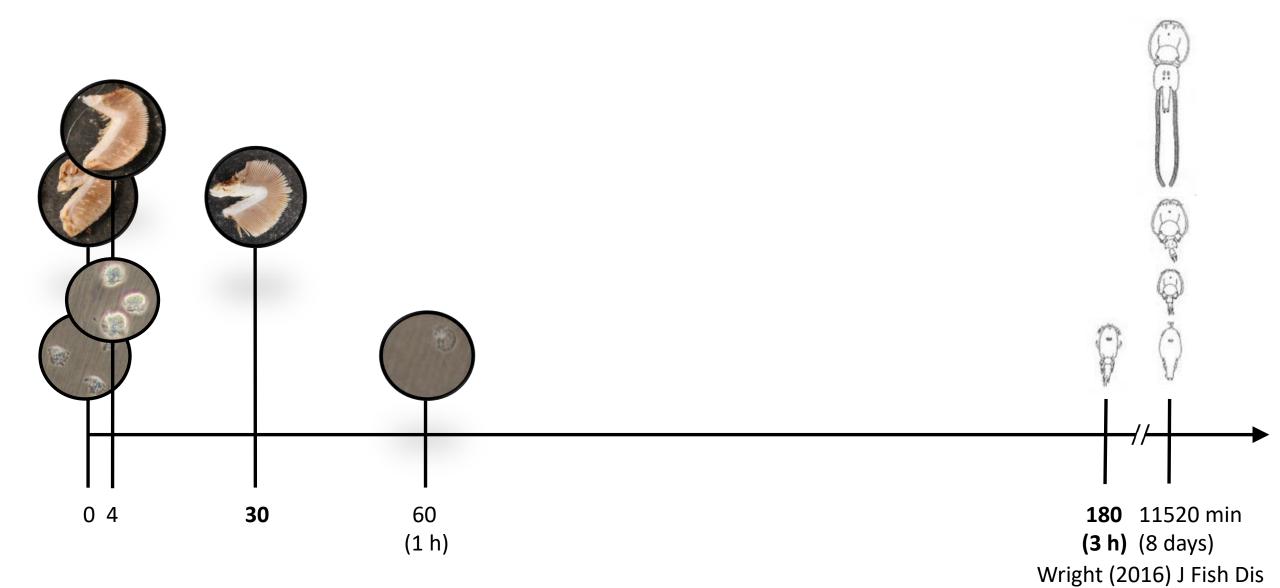


Korsøen et al. (2012) Aquac Eng

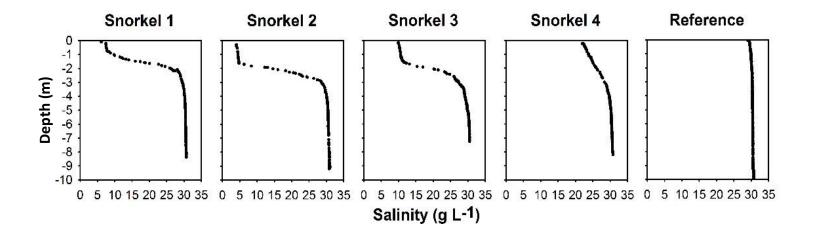


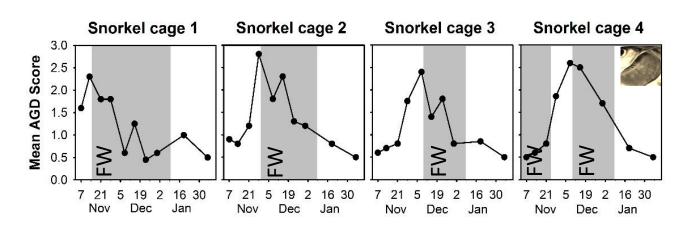
Mitamura et al. (2017) Anim Biotelem

AGD and lice in freshwater



Commercial cages: FW snorkel testing



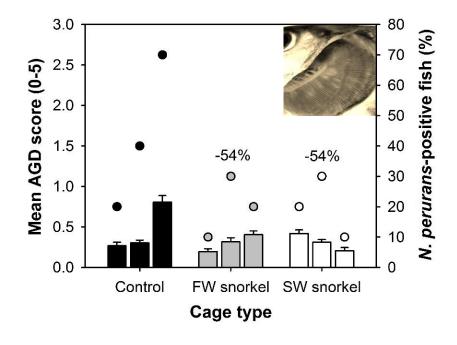


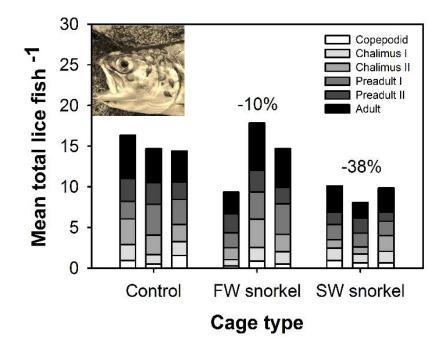


Wright (2017) Prev Vet Med

Research cage experiment: AGD and lice

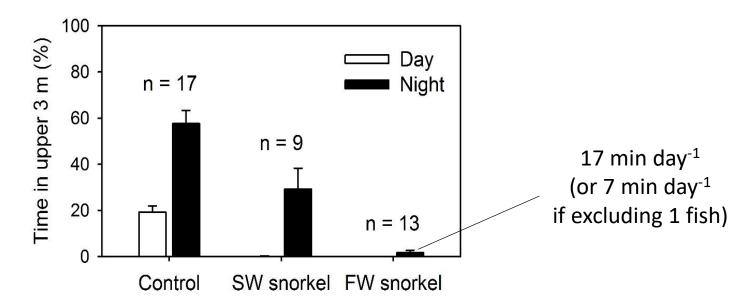




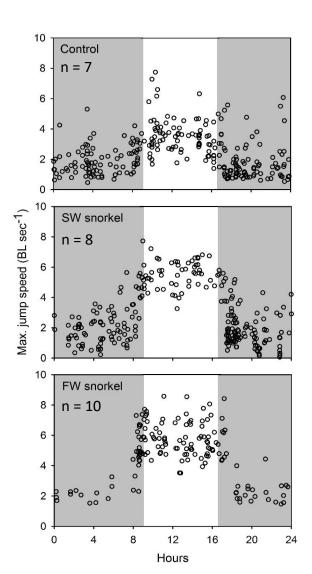


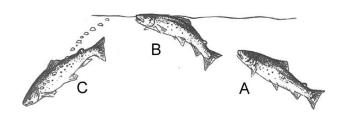
Research cage experiment: Fish depth





Research cage experiment: Fish jumps







Conclusions and future directions

- Short, frequent FW doses are a viable alternative
- FW avoidance is a thing
- May force salmon below snorkels, increasing lice infestations
- FW snorkel effects may depend on cage scale

