

Tuesday afternoon

Breakout Group 1: Parameter discussion for abalone SI models (mortality and particle release)

Questions for Discussion

- Q1** - What is the disease mortality rate?
- Q2** - Does the disease mortality rate depend on any other parameters (e.g., time since infection)?
- Q3** - Are infective particles produced primarily from infected living individuals, dead individuals, or both?
- Q4** - If infective particles are produced primarily from infected living individuals, what is the release rate?
- Q5** - If infective particles are produced primarily from dead individuals, how many particles are released per dead animal?
- Q6** - If infective particles are produced primarily from dead individuals, are there any scavengers that might consume and inactivate the infective particles? If so, is this particle sink important?
- Q7** - What does the transmission rate depend upon beyond the number of infective particles impinging the susceptible individual?
- Q8** - Are the particles passively taken up as a function of their water-column concentration or actively concentrated from the water column by the susceptible individual?
- Q9** - Does a dose-response relationship exist? If so, does the susceptible individual have any mechanism to inactivate particles that have been taken up?
- Q10** - What is the mortality rate of infective particles in the water column?