168 ICU patients admitted

6 patients extubated during weekend

2 tracheotomized patient

1 oropharyngeal neoplasm

1 minor patient

4 patients excluded:

2: < 103 ufc/mL bacteria growing before  
 CHX oral care

2: more than 2 missing samples

34 patients included

44 patients ventilated > 48h

84 patients mechanically ventilated

30 patients studied

**Supplemental Figure 1**: Patient flow chart



**Supplemental Figure 2:** Individual evolution of the total inoculum of oropharyngeal isolates, for each patient, at the different time-points.