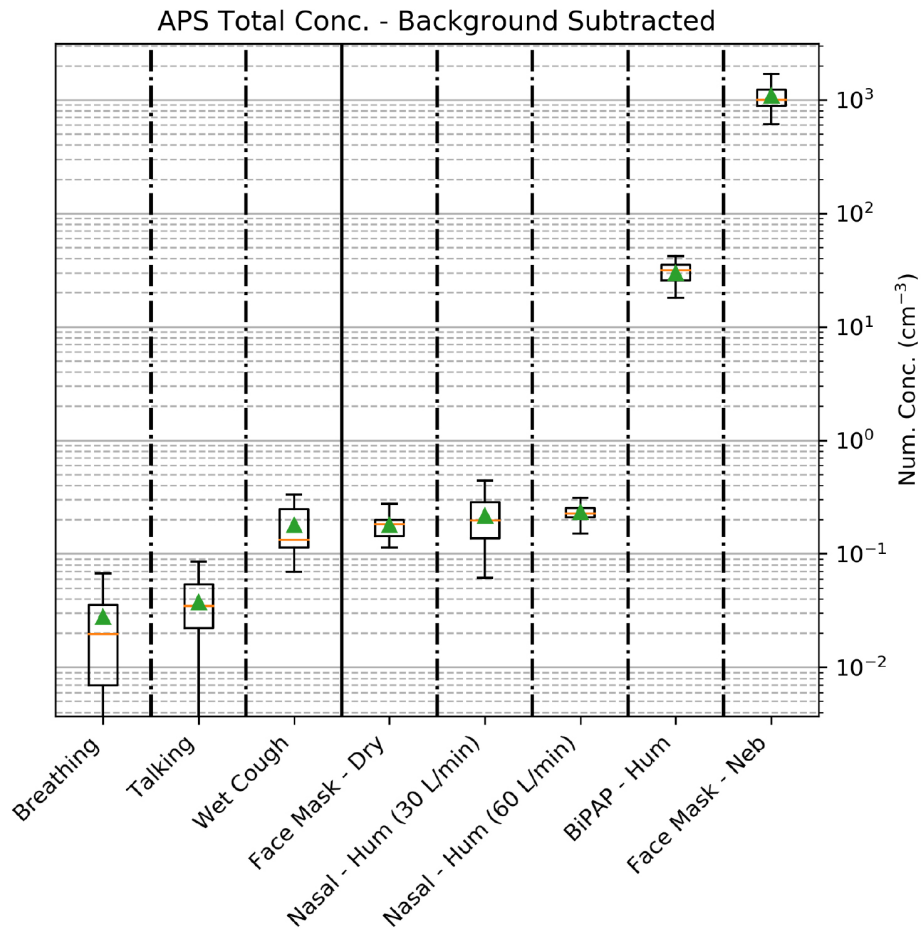


Figure 2. Total concentrations of aerosols from the respiratory interventions*



APS = Aerodynamic Particle Sizer spectrometer; BiPAP = bilevel non-invasive positive-pressure; conc = concentrations; hum = humidified; neb = nebulised. * APS (TSI APS 3220) data only. Background concentrations have been subtracted from these results. No hood (ie, hood open), no fan. For the logarithmic y-axis, number concentrations (cm⁻³) = aerosol number per cm³ (mL). The box-and-whiskers plot (standard Tukey) shows the integrated aerosol number concentrations measured by the APS with the mean background concentration subtracted from all values. Green triangles represent means, orange lines are medians, boxes are 25th and 75th percentiles, and whiskers are the 10th and 90th percentiles respectively. Aerosol generation from different treatment scenarios: patient sitting on bed breathing; patient talking (counting 1–100 and back); patient coughing for 5 seconds, every 30 seconds taking an aliquot of water before each coughing fit; patient fitted with a humidified nasal cannula; patient with a face mask on with dry oxygen flowing; patient with a leaky BiPAP mask fitted; patient with a face mask on with a nebuliser operating.