Subject: [External] Re: Question: Filter testing report JOB NUMBER: 3653-001

Date: Monday, July 6, 2020AD at 12:59:49 Atlantic Daylight Time

From: Bruce Urch

To: Ng, William, Aerosol Testing DLSPH

CC: Anwari, Vahid, Mary Speck, Jessica Trac, James Scott

William,

- 1) The pressure drop for filter/mask test #1 was -21.3 mm H2O or -0.84 inches H2O.
- 2) With lab air the count inside the mask was 16.8 particles/cc.
- 2) With salt the average count inside the mask was 2,143 particles/cc.
- 3) The FE formulae is 100 x [(outside inside) / outside].

For the mass FE we use the sum of the particle volume x counts for the 54 particle sizes from 10.4 to 469.8 nm diameter midpoint.

Bruce

From: Ng, William < William. Ng@uhn.ca>

Sent: July 2, 2020 7:16 PM

To: Aerosol Testing DLSPH <aerosol.testing.dlsph@utoronto.ca>; Bruce Urch <bruce.urch@utoronto.ca> **Cc:** Anwari, Vahid <vahid.anwari@uhn.ca>; Mary Speck <m.rutherford@utoronto.ca>; Jessica Trac <jessica.trac@mail.utoronto.ca>

Subject: Question: Filter testing report JOB NUMBER: 3653-001

Dear Bruce and Mary

Thanks to you both for all the hard work and resources.

Vahid and I just wanted to ask Bruce 3 things:

- 1. Did we have a seal pressure measured for the face-piece with the filter? And did it measure < -1000 in. water as expected?
- 2. With the raw particle count, the expected count number is <20 / cm³, what was the actual particle count for this (FE-99.7%),
- 3. by what number do we divide the particle count to get the actual %? I forgot what you once told me.

Thank you for the pressure drop measurement, that is reassuring.

Truly,

William C. K. Ng
MBBS MMed FANZCA FRCPC

Anesthesia and Pain Management, Toronto General Hospital TGH Research Institute & UHN Advanced Perioperative Imaging Lab (PI) Pediatric Cardiac Anesthesia, SickKids Hospital Faculty Dept. of Anesthesiology, University of Toronto

M 1.857.330.7399

Soli Deo Gloria

From: Aerosol Testing DLSPH <aerosol.testing.dlsph@utoronto.ca>

Date: Tuesday, June 23, 2020AD at 14:08 **To:** "Ng, William" < William.Ng@uhn.ca> **Cc:** James Scott < james.scott@utoronto.ca>

Su

2) bject: [External] Filter testing report

Hi William,

Attached are the results of our testing of the filter media you provided.

Please sign and return a copy of the attached agreement letter.

Best Regards,

Aerosol Testing Laboratory
Dalla Lana School of Public Health
Gage Bldg, Room 302
223 College, Toronto, Ontario M5T 1R4
aerosol.testing.dlsph@utoronto.ca

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