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From: [redacted] [redacted]@mlslab.nl]
Sent: Fri 3/26/2021 3:05:36 PM
Subject: Dead space - Dood volume
Received: Fri 3/26/2021 3:06:56 PM
[Dead Space Needle only REV01 \(1\).pdf](#)
[Dead Space Syringe only \(luer Slip and Luer Lock\) REV02.pdf](#)
[CORP-SIN-184-0221 v4 Low Dead Space Injection Devices.pdf](#)

Beste [redacted]

In bijlage en onderstaand sturen we informatie over het doodvolume van de vier producten van de producent Sol Millennium die jullie bij ons afnemen.

"In the attached file, you can see the dead space for the references P180003, SN2310 and some others.

For the blunt fill needle, we didn't prepare such report because these needles are used only for preparation and so the vaccine (or other medication) can easily be expelled from inside the needle.

As we got questions about this earlier, we checked anyway and here was the answer from my colleagues:

Using the procedure explained below, it is possible to reduce this volume in significant quantity, in fact, withdrawing air to remove the liquid inside the Blunt fill needle, the estimated liquid that remains inside the needle is around 10 µl (0.010ml).

How to remove residual volume during aspiration:

- *Insert blunt fill needle into the vial- connected with the syringe*
- *Turn the vial to upright position*
- *Withdraw the dose of vaccine*
- *Move the needle tip still in vial in upright position- to the space where is air/ out of liquid- and aspirate again little air to remove residual volume from aspiration needle*
- *Carefully adjust again proper dose in the syringe*
- *Place the vial back on the table and remove syringe with aspiration needle from vial or disconnect the syringe only*
- *Connect with hypodermic needle prior to vaccination"*

Hartelijke groet,

[redacted] [redacted]

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