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Re: Collaboration with Pune Instrumentation

To Whom It May Concern:

I am writing to confirm that I have worked with Pune Instrumentation's Suraxa® UVC device and found that it inactivates over 99.99% of SARS-CoV-2 and H1N1 influenza A virus RNA within 2 minutes of exposure at 54 Watt. These inactivation efficiencies were obtained by adding viral RNA or live virus to plastic, cotton or paper surfaces and placing these surfaces in the device for the indicated time.

UVC inactivates RNA viruses by creating crosslinks and breaks in the viral RNA. We have used this principle and the Pune Instrumentation's UVC device to create breaks in SARS-CoV-2 and H1N1 influenza A virus RNA. This inactivated viral RNA was then used to develop an RT-qPCR method that can distinguish between infectious and non-infectious viral RNA. The results of this study are available on MedRxiv under the title: "Reducing persistently positive SARS-CoV-2 diagnoses using long-range RT-qPCR".

Yours sincerely,


AJ te Velhuis, PhD
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