**Title: The impact of COVID-19 on neurological health**

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**Abstract (up to 300 words)**

A double suction centrifugal type of pump was converted into a hydraulic turbine (pat-pump acting as a turbine). The casing was maintained and the pump impeller was replaced by a hydraulic runner. it was made of stainless steel with a diameter of 0.662 meters. it had 12 blades as compared to the 5 blades of the original pump impeller. It was assembled inside the original pump casing and was installed along the existing 0.9 m diameter water pipeline of the rio verde water consortium inc. The water treatment plant has an elevation of around 100 meters above sea level. A bypass line was connected along the existing pipeline to accommodate the installation of the PAT.

**Biography (up to 200 words)**

Lisa Roys completed her PhD at the age of 35 years from Stanford University, USA. She is the head of the mechanical engineering department of Stanford University, USA. She has over 300 publications that have been cited over 700 times, and her publication h-index is 25. She has been serving as an editorial board member of several reputed journals.

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**Mode of Presentation:** Oral/Poster.

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