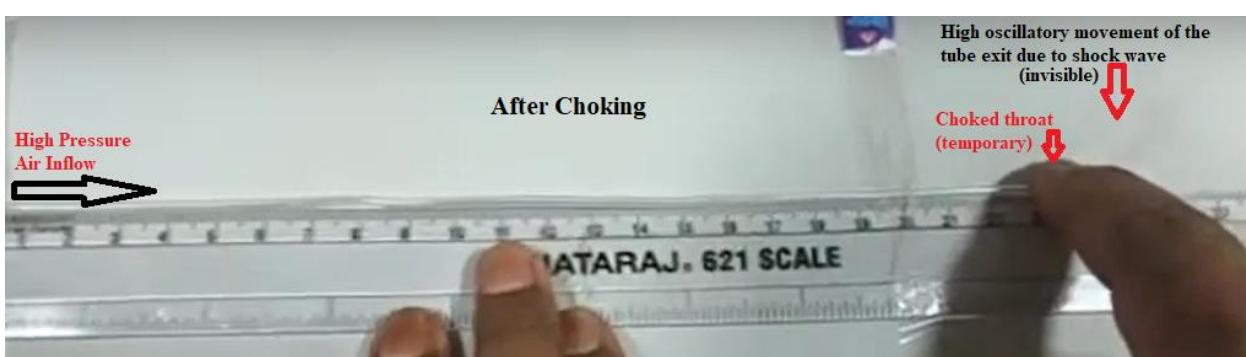
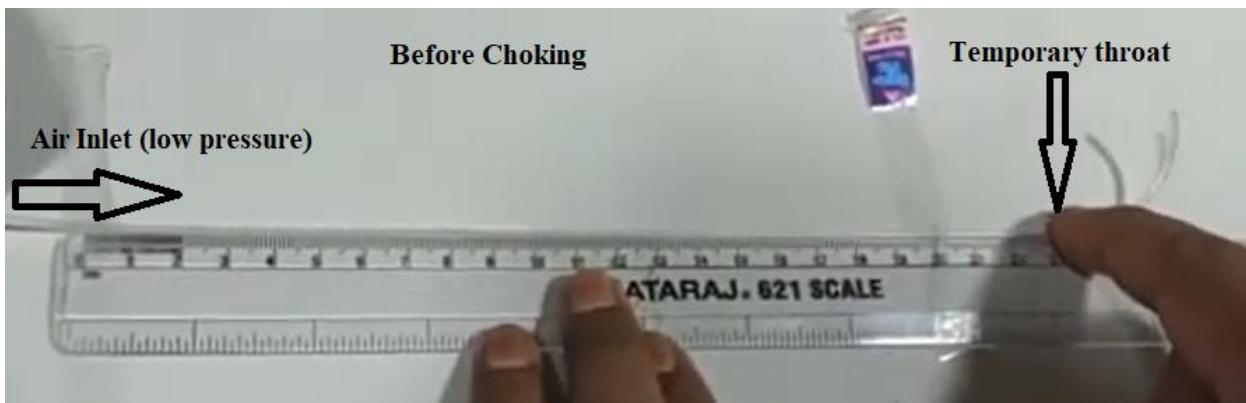


1 **SUPPLEMENTARY MATERIALS**

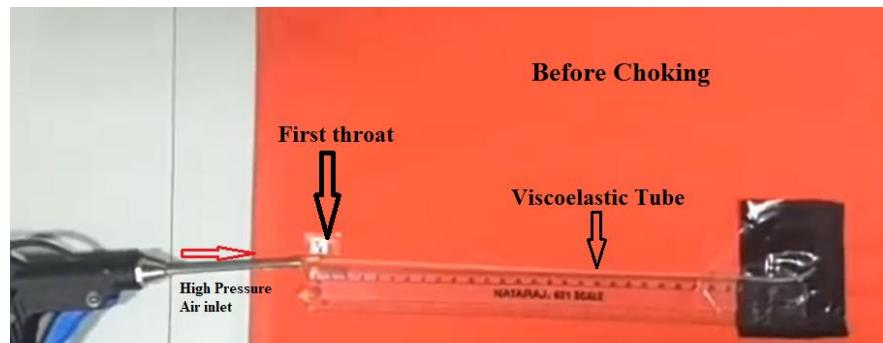
2 **Movie S1:** In silico result demonstrating the boundary layer blockage induced the Sanal flow choking at a
 3 critical pressure ratio: https://youtu.be/eFndUAU_m5I

4 **Movie S2:** In vitro result demonstrating the shock wave generation in a viscoelastic tube with
 5 vasospasm at a critical pressure ratio: <https://youtu.be/59E6pI3L5Rc>

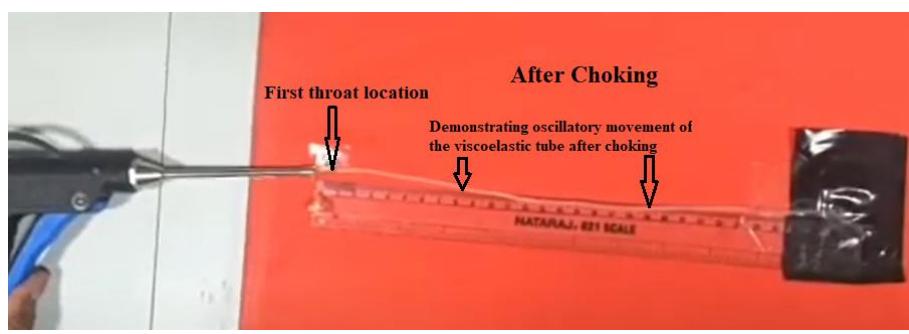
6 **Movie S3:** In vitro result demonstrating the internal flow choking and the shock wave generation in
 7 a viscoelastic tube with vasospasm at different locations at a different pressure ratio:
 8 <https://youtu.be/UQqtpQaUVHg>

9 **APPENDIX**

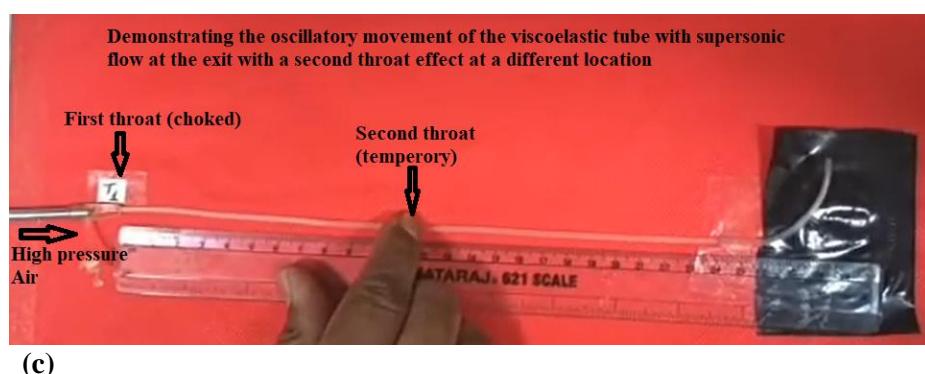
16 **Figure A1(a-b). Demonstrating the oscillation of the viscoelastic tube before and after choking due to a temporary throat effect (“Multimedia view” – Movie S2)**



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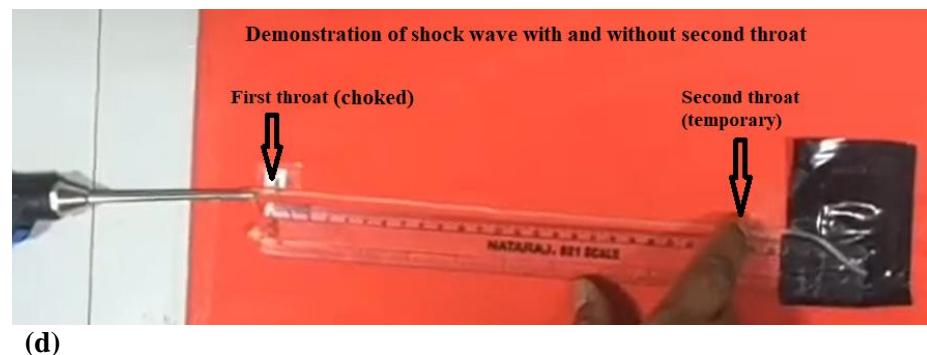


Figure A2(a-d). Demonstrating the oscillation of the viscoelastic tube before and after choking with multiple throat effects (“Multimedia view” – Movie S3)