

# Quantitative Approaches in Clinical Medicine: From Neurosurgery to Oncology

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The 21st century has witnessed a notable increase in the collaboration between mathematical and biomedical scientists, paving the way for significant advances in clinical medicine. In this talk, I will showcase the impact of simple mathematical models on addressing challenges encountered by neurosurgeons and clinical oncologists. Additionally, if time permits, I will also discuss the mathematical modelling of a ground-breaking therapeutic approach in oncology involving High Intensity Focussed Ultrasound, which offers the potential to revolutionize the field of clinical oncology.