

## Presentation Abstract Submission

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<b>Research Title</b>	Sample Size Calculation in Medical and Health Research: Does it really matter?

### Abstract:

Background: Optimal and appropriately estimated sample sizes are important at the planning stage of research as they are prerequisite to any statistical analysis and inference. However, the context of sample size and its calculation are usually missing or is poorly presented in many health and medical articles. This presents the urgent need for alerting the researchers on sample size and its calculation. Aim: To highlight the importance of optimal sample size, how it is appropriately estimated, and the faults and risks associated with lack of and/or wrongly calculated sample size. Methods: This is going to be a short, concise, and engaging PowerPoint presentation. The presentation will highlight an overview of sample size and the importance and essentiality of optimal sample size in medical and health research. Illustrate, using examples, the risks associated with the lack of and/or wrongly calculated sample size. Results/ Session outcome: After the session, the participants are expected to have a good understanding of the concept of sample size in general. Specifically, they are expected to have improved knowledge of sample size. Conclusion: Optimal sample size is necessary for valid statistical analysis of medical and health research. This proposed session assures the improvement in the understanding and knowledge of the participants of sample size calculation in medical and health research using a simplified approach. Keywords: Sample size, Sample size determinants, Inference, Margin of error