



WHO Collaborating Center
for Maternal and Child Health
Trieste Italy

A free online Cardiotocography course for Sri Lankan maternity services: A novel intervention in the new normal

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Introduction

Errors in fetal monitoring management and hypoxic brain injuries among newborns

Cardiotocography remains a key tool that is in practice to identify neonates with possible acidosis

Experience from neonatal morbidity reviews suggest that lack of knowledge in interpreting CTG is alarmingly high among practitioners

CTG training leads to increased knowledge and interpretation skills and improved quality of care

Periodic training in CTG interpretation is a mandatory training in developed countries

Method

A literature survey was carried out to identify the existing guidelines, training programs on CTG interpretation.

Course objectives and contents were developed adopting from international and national guidelines

An expert panel involving local and international obstetricians and midwives reviewed and a final consensus was reached

An online learning management system was developed using HTML/ CSS, Bootstrap framework and jQuery JavaScript library technologies as front end developments

Initial concerns in the contents, minor discrepancies and technical issues were corrected

Contents of the course

Pre test (20 multiple choice questions)

Physiology of fetal oxygenation

Physiology of intrapartum hypoxia

Interpretation of cardiotocographs,

Physiological cardiotocography interpretation

Practical tips for fetal assessment during labour

Post test

Feedback

Generation of a Certificate

Key features of the course

This is the first ever online program to teach and train a core skill in maternity services initiated in Sri Lanka

This course has been designed for the participants to follow at their own pace during their free time. Hence added flexibility for time management

This is a comprehensive and interactive program that has been designed for caregivers in the low middle income countries

This is user friendly and can be accessed using ones mobile phones, tabs and lap tops.

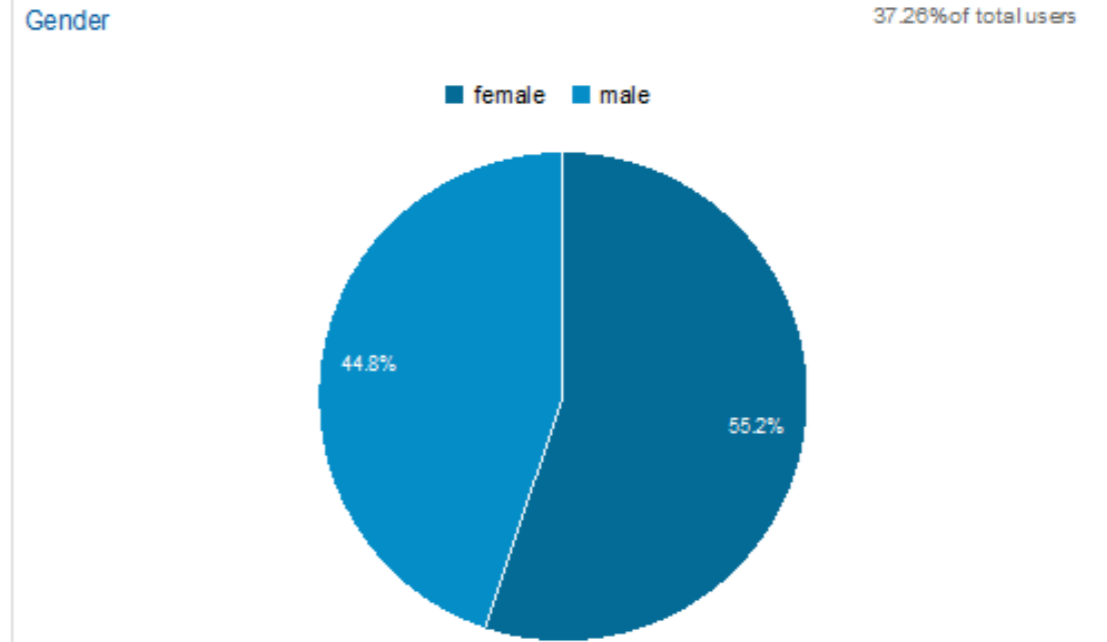
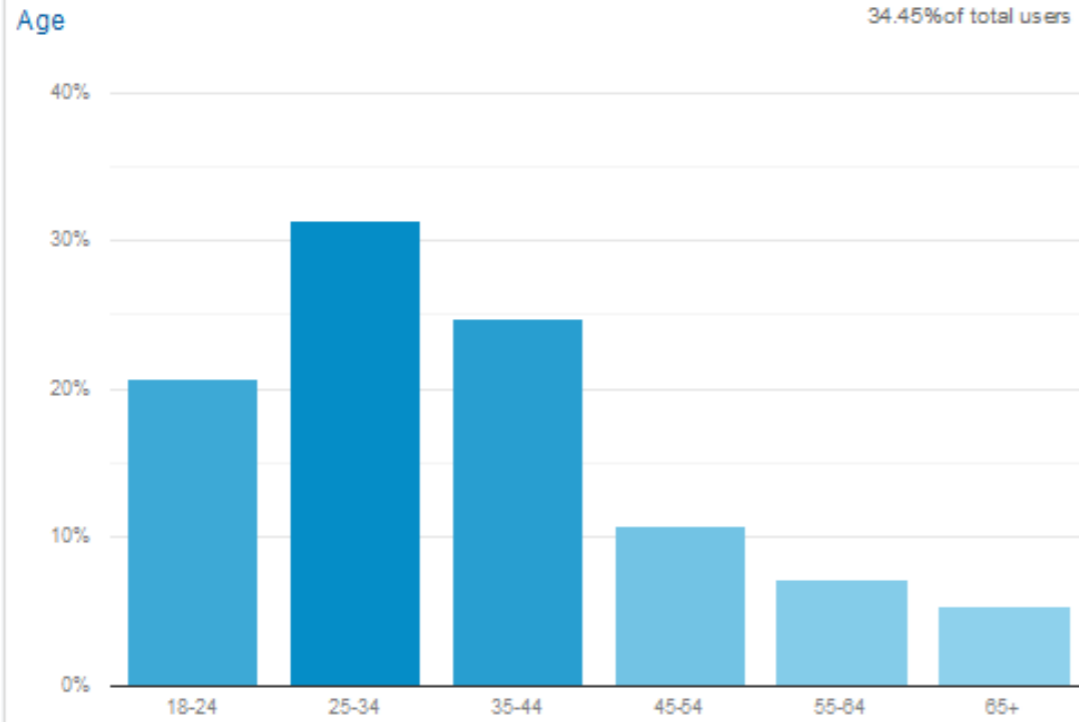
This course has all the necessary features of a good learning management system

Animations and voice narration help the participants to learn more effectively

A dash board for the administrator to track the progress of each participant and provide feedback regarding their progress

Outcomes

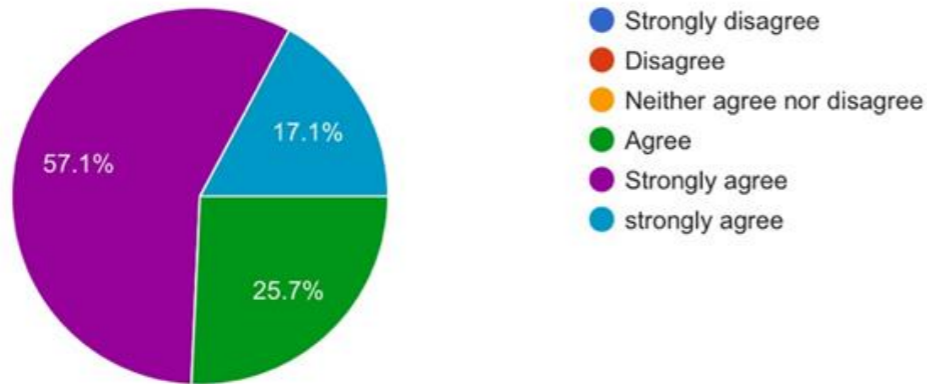
KeyMetric:



Professor	9
Senior Registrar	21
Registrar	31
Senior House Officer/ Medical officer	18
House officer	14
Nurses/ Midwives	35
Medical Students	55
Undefined	127

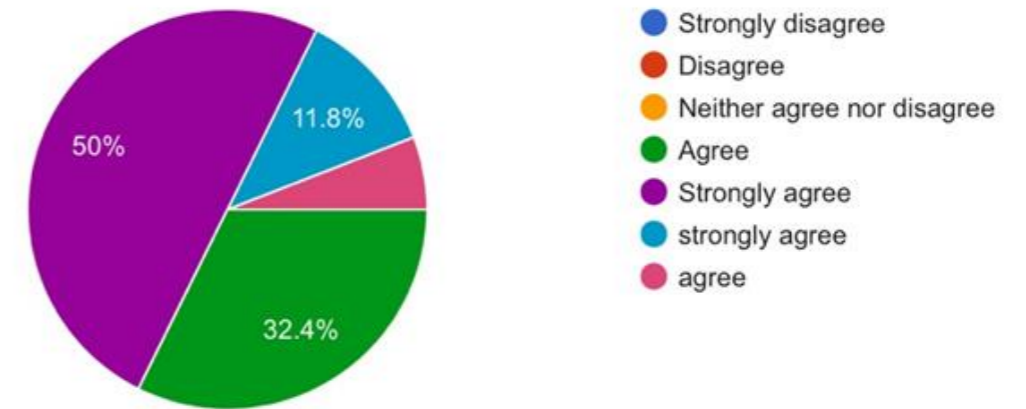
Learning objectives were clearly mentioned.

35 responses



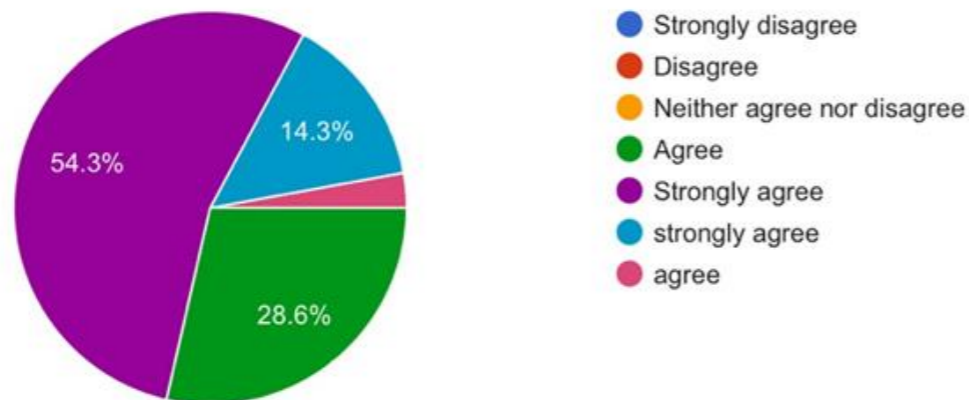
Learning objectives were appropriate to the course.

34 responses



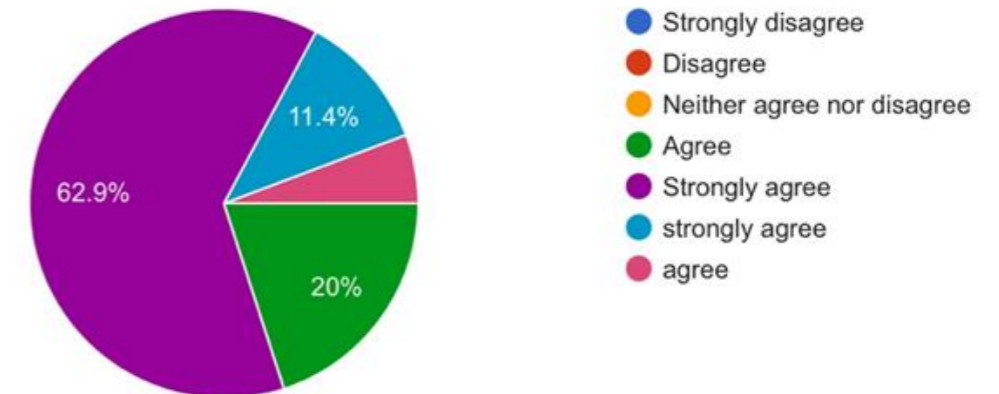
Presentation slides were clear and easy to understand.

35 responses



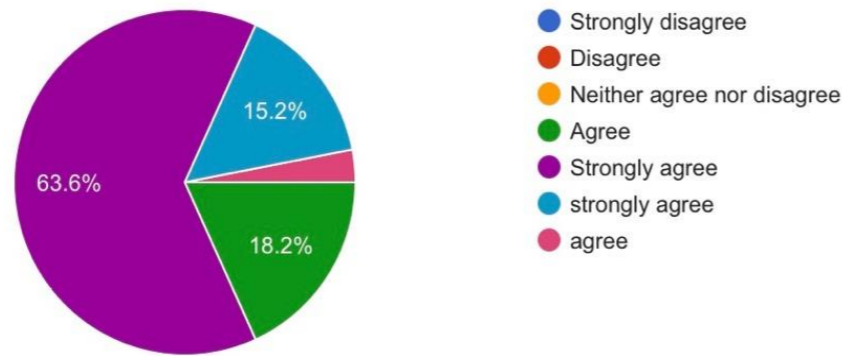
Content covered in this course was relevant to my work setting.

35 responses



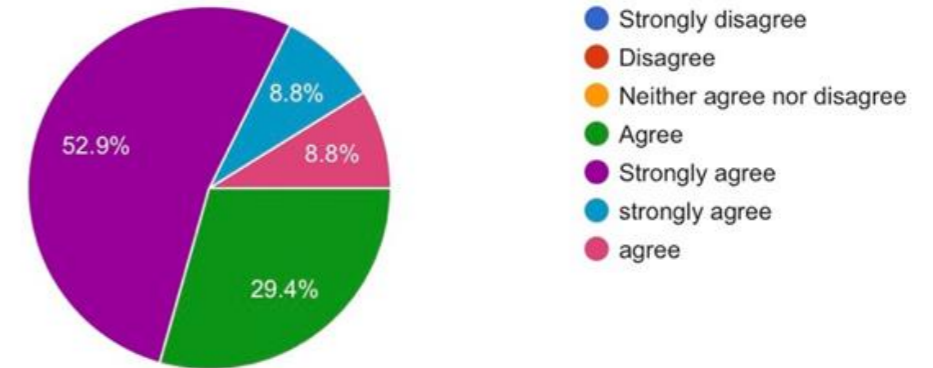
Audio narration was clear and consistent through out the course.

33 responses



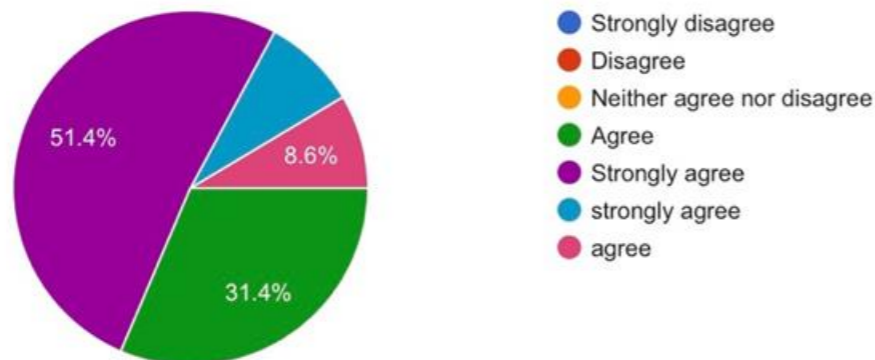
Visual aids used were appropriate.

34 responses



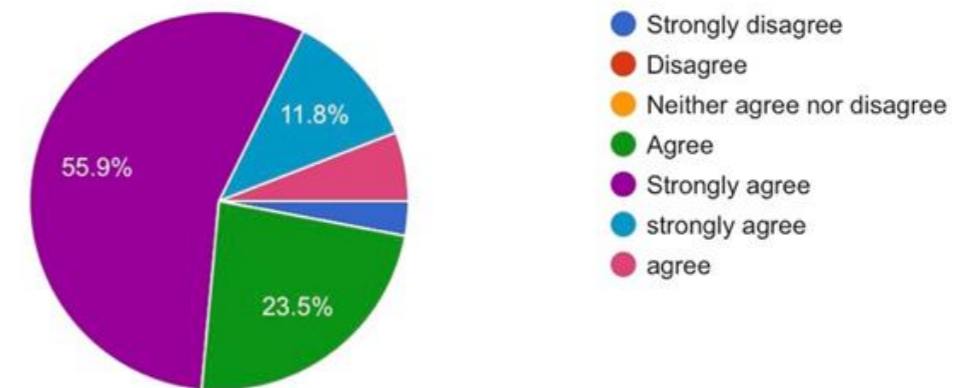
Pre course assessment and post course assessment were consistent with the learning objectives.

35 responses



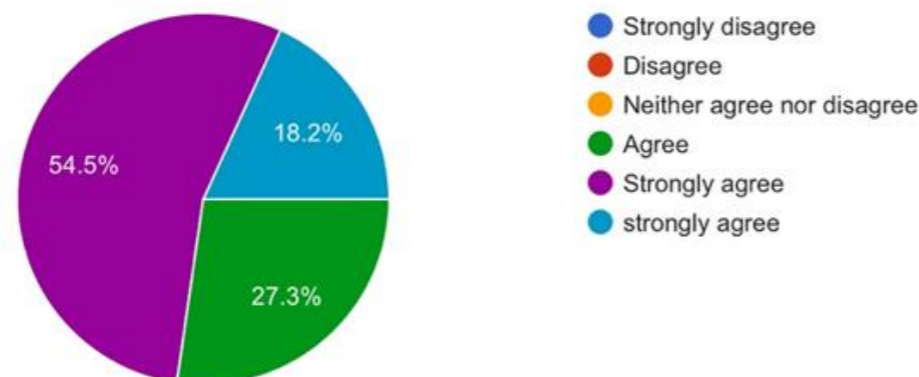
Pre course assessment and post course assessment were appropriately challenging.

34 responses



Supplementary reading materials were clearly stated to support student success.

33 responses



The overall delivery of the course will improve my patient care.

35 responses

