

Central Monitoring System

OmniView-SisPorto®



Everyone is safer



View all the rooms



Act fast when time matters



Workflow improved



Central Monitoring System

OmniView-SisPorto®

Prevent fetal hypoxia to be overlooked in a busy labour ward

⦿ Visual and sound alerts for CTG features including for:

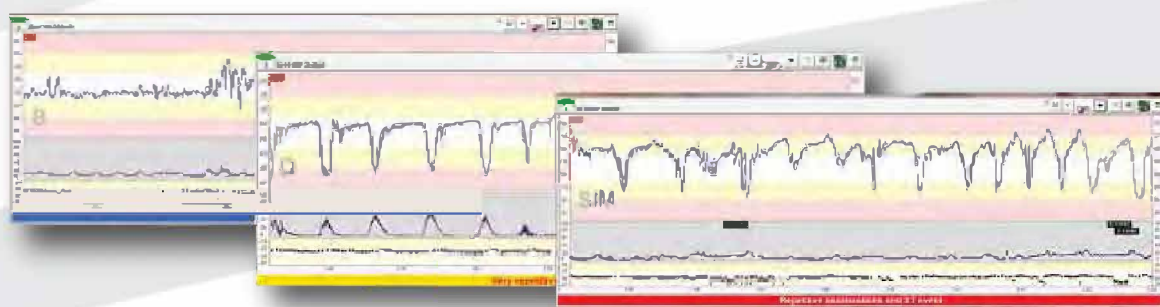
- ✓ Excessive uterine contractions
- ✓ Prolonged decelerations
- ✓ Reduced long-term variability
- ✓ Reduced short-term variability

Improve time management

- ⦿ Tracing start and stop handled automatically
- ⦿ Automatic optimization of active tracings size
- ⦿ Automatic Name and ID communication with STAN 31

Improve follow-up

- ⦿ Automatic tracing archival
- ⦿ Stored tracing reviewing and simulation for education purposes



Continuously detects the connection and disconnection of fetal monitors.



The SisPorto® analysis of the fetal heart rate provides real time alerts to aid intrapartum management.

For more information and related scientific publications or if you want to start using OmniView-SisPorto® for your practice please send us an e-mail to omniview@speculum.pt

Central Monitoring System

Fetal Monitors

Omniview-SisPorto®



- ⌚ Omniview is compatible with the main existing fetal monitors.
- ⌚ A multiple client architecture ensures that a practically unlimited number of computers can be connected via a local intranet to display tracings.

Flexible to upgrade any installation with:

- ⌚ more monitored rooms and fetal monitors
- ⌚ more CTG viewing locations
- ⌚ additional Hospital integration functionalities
- ⌚ labour and delivery notes



Labour and Delivery notes

Omniview-Sisporto® integrates closely with Maternum, the Labour and Delivery module

- ⌚ Allows introduction of patient labour and delivery notes
- ⌚ Data can be introduced using touch or keyboard and mouse
- ⌚ Flexibility to have the information on several locations and devices
- ⌚ Possible to use standalone



- ⌚ Labour progression graphs and notes
- ⌚ Patient information including risk factors
- ⌚ Newborn and delivery details
- ⌚ Room Chalkboard
- ⌚ Touch screen or keyboard mode
- ⌚ Cross-platform Web Application
 - ✓ Windows/Mac
 - ✓ PC/Tablet
- ⌚ Access trough web browser
- ⌚ Active Directory Authentication
- ⌚ Paperless operation and optional printouts
- ⌚ Archive search and Auditing log

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Intrapartum CTG Analysis

OmniView-SisPorto®



Omniview-SisPorto®

REASSURING

ATTENTION

SUSPICIOUS

VERY SUSPICIOUS

PATHOLOGICAL



Alerts for the risk of fetal hypoxia



Aids evaluation of the CTG



**What would
SisPorto®
Analysis
present?**

Intrapartum CTG Analysis

OmniView-SisPorto®

Technology

- The SisPorto analysis of the fetal heart rate provides real time alerts to aid intrapartum management and has shown to improve the accuracy of clinicians when analyzing CTGs.
- Omniview-SisPorto® leads the technology in CTG analysis, with extensive publishing on reference journals and the involvement of top authors from the field.
- Analysis includes estimation of uterine contractions, of fetal heart rate baseline, identification of accelerations, decelerations, and quantification of short- and long-term variability.



- ✓ **Is objective and increases agreement on interpretation ¹**
- ✓ **Evaluates parameters not visible to the human eye ²**
- ✓ **Provides accurate alerts ³**

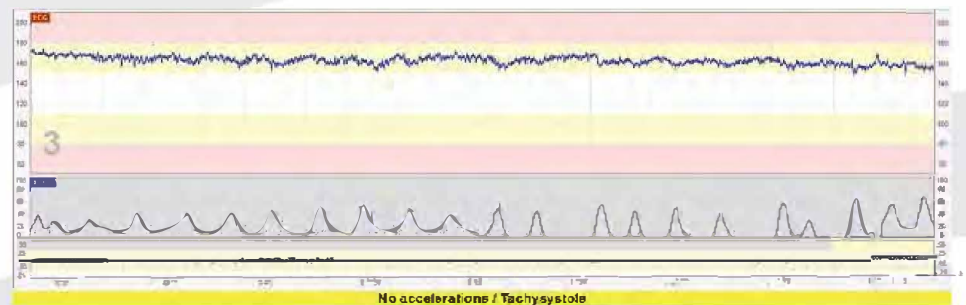
Visual and Sound Alerts

No Pathological Alerts

Cesarean Section
Umb art pH: 7.27
Apgar 1: 9
Apgar 5: 10
Apgar 10: 10

Reduced STV since more than one hour

Cesarean Section
Umb art pH: 6.79
Apgar 1: 0
Apgar 5: 0
Apgar 10: 0



Suspicious alerts provide just visual messages. In this example they may help managing oxytocin use and suggest searching for reactivity signs.



At any time a user may open a window with more detail on the analysis. Both quantitative and Graphical results are available.

¹ Costa A et al. Access to computerised analysis of intrapartum cardiotocographs improves clinicians' prediction of newborn umbilical pH. BJOG2010;117(10):1288-93.

² Ayres-de-Campos D et al. Computer quantification of short-term variability as an adjunct to fetal electrocardiographic monitoring. BJOG 2007;114(11):1446-7.

³ Costa A et al. Prediction of fetal acidemia by computer analysis of fetal heart rate and ST event signals. Am J Obstet Gynecol 2009;201(5):464.e1-6.

Intrapartum CTG Analysis

OmniView-SisPorto®

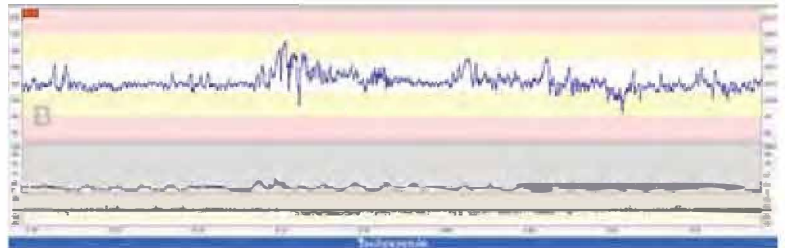
Alert Examples

Blue Attention Alerts

Related to conditions that are not usually associated with fetal hypoxia but may deserve some action on the part of health professionals.

The “Excessive uterine contractions” alert should motivate the evaluation of an eventual oxytocin induction/augmentation of labour and suggests careful monitoring for the appearance of hypoxemia-related changes in the fetal heart rate.

ATTENTION



SUSPICIOUS

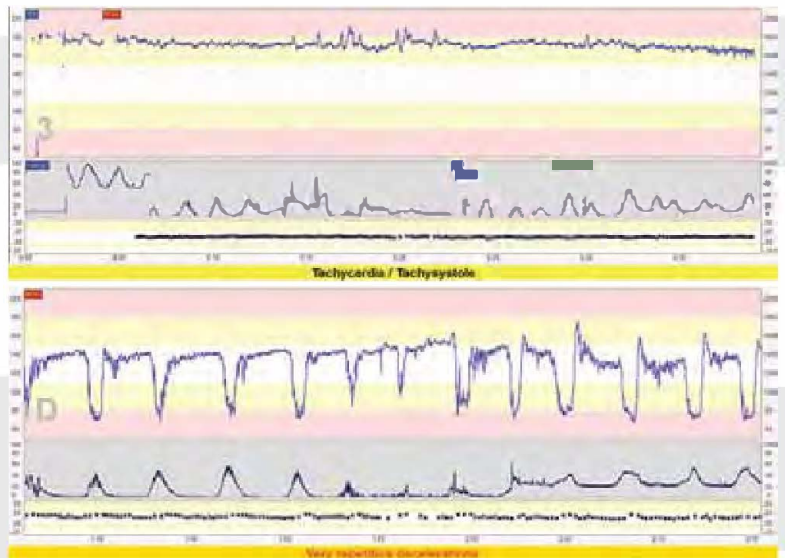
VERY SUSPICIOUS

Yellow and Orange Alerts

These alerts signify the occurrence of fetal heart rate events that are not normal, but which by themselves are also not specific of fetal hypoxia.

As hypoxemia is a possible cause of these changes efforts should be made to uncover and to correct causal or contributing situations (mother lying on her back, maternal hypotension, uterine hyper contractility).

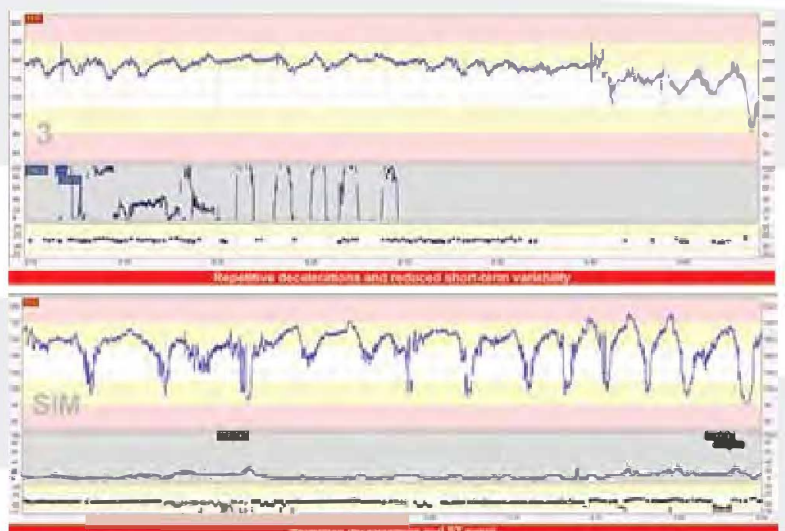
If CTG changes do not revert rapidly, fetal ECG with ST analysis or FBS can be considered.



PATHOLOGICAL

Red Alerts

These alerts are associated with a high probability of central fetal hypoxia, and should elicit an action from health professionals for the immediate reversal of a cause of hypoxia or the rapid removal from the intra-uterine environment. Other factors must also be taken into account, such as gestational age, maternal hyperthermia, administered drugs, intra-uterine growth restriction, previous CTG patterns, etc.



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