



# A good start in life.

Products for obstetrical care

Overview of Neoventa fetal monitoring equipment,  
Training Program and the STAN method.



neoventa



# Congratulations, you made it. We are happy to be on your side.

## **Being born is one of the greatest challenges in life.**

Disruption in the fetal blood flow and temporary oxygen deficiency are a normal part of labor. A healthy fetus is well equipped to deal with hypoxia and in most cases will handle the situation successfully. But occasionally, the fetus' defense mechanisms are overwhelm-

ed, and that is when it needs your help.

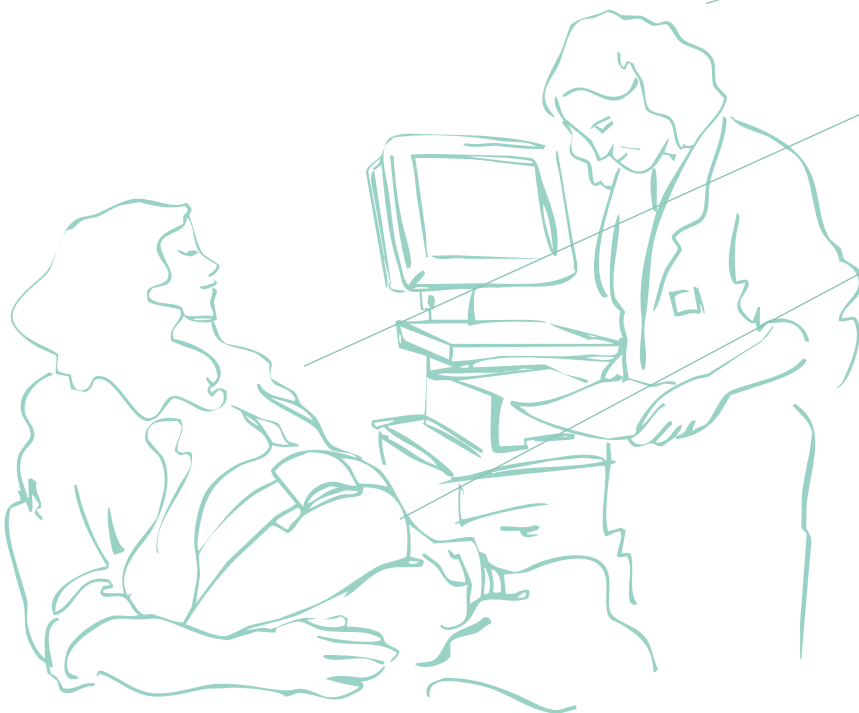
A fetus has a hard time communicating from inside the uterus. It has limited opportunities to let you know how it's coping with the situation. Obstetric healthcare professionals must base their decisions on indirect information, most often information from the fetal heart.

## **The right monitoring equipment can make all the difference,**

providing the right information in a continuous manner, so that the right decisions are made at the right time during the critical first period of a baby's life.

## Neoventa - fetal monitoring is our passion

Neoventa offers a range of advanced fetal/maternal monitoring products and services to assist obstetric professionals in caring for baby and mother during labor and delivery. Since the founding of the company, Neoventa has focused on increasing safety and convenience during delivery.



### **For the staff**

Improved decision making,  
and workflow

### **For the mother**

Best available hygiene  
and safety

### **For the fetus**

Improved outcome

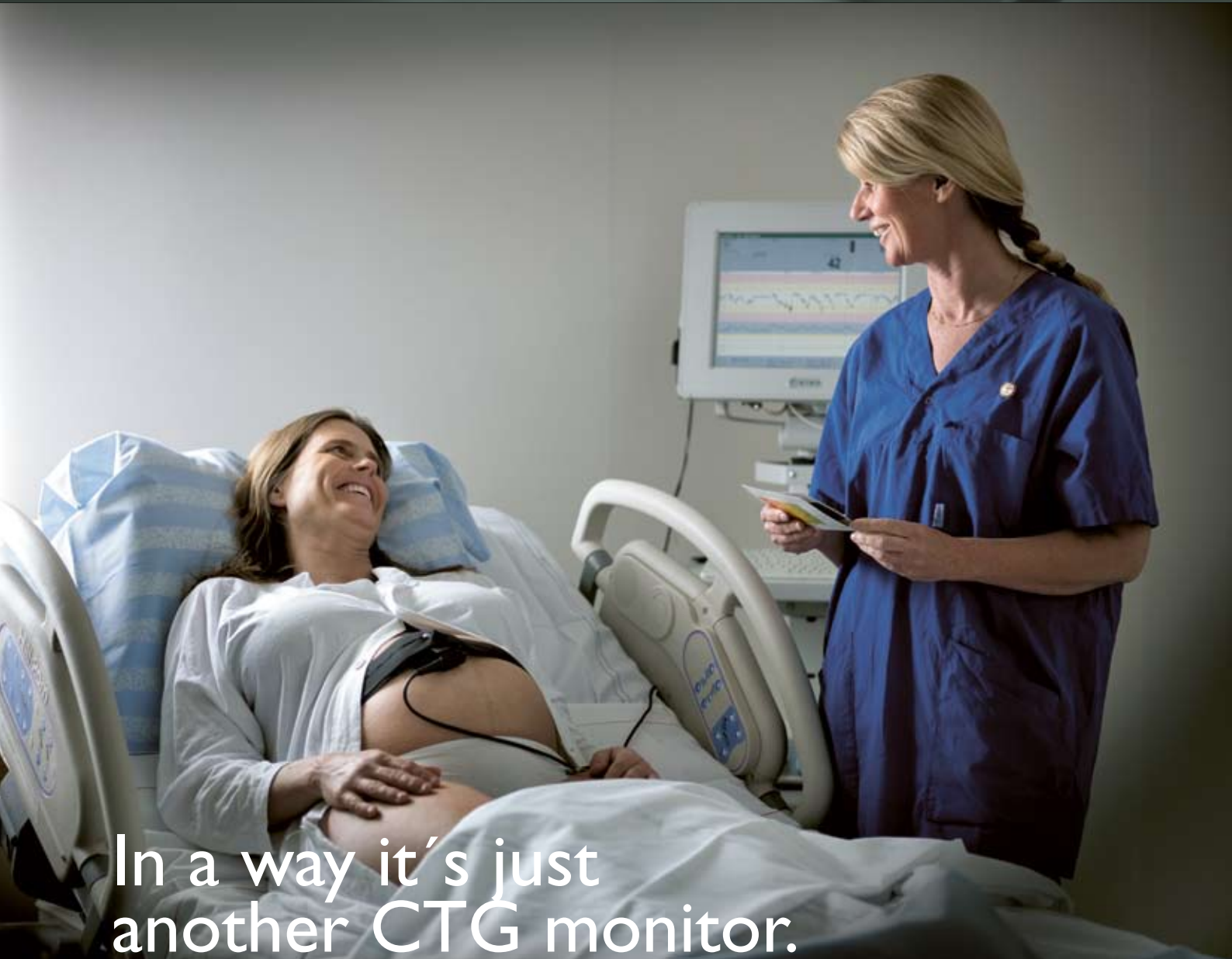
### **Did you know**

CTG monitoring is one of the most common obstetric procedures. In some countries, up to 85% of all births, are assessed with electronic fetal monitoring (*ACOG Practice Bulletin No. 62*).

As Neoventa is an innovative company, with staff who are passionate about what they do, development never stops. Products and training materials are continuously being updated, and new innovations are constantly being introduced. The goal is to be the best partner for obstetric healthcare professionals. Let us take a look at what Neoventa can offer you!







# In a way it's just another CTG monitor. But it's one of a kind.

External and internal monitoring of the FHR and uterine activity are standard functionalities in STAN S31. But there is a lot more you'll like about our monitor:

## **Standard features include:**

- Big, easy to clean, color touch screen for convenient review of traces
- Multi-lead FEKG-FHR recording - the best of two recorded signals is used to present the FHR, the result being a better trace when it is most needed - during the second stage with active pushing
- Detection of matching heart rates (fetal-fetal and maternal-fetal)
- Configurable audible and visual alarms
- Compatibility with central monitoring systems
- Unique digital storage of recordings and advanced network connectivity

**You can also adapt it to suit your needs. Possibilities include:**

- Integrated maternal vital signs
- Dual transducers that work on different ultrasound frequencies for best adaptation to the desired tissue depth
- ST Analysis (see next spread)
- Interface with telemetry system for wireless monitoring
- Real-time thermal printing solution as well as laser printer connectivity, and barcode reader for patient ID recording
- STAN Viewer software for retrospective review of recordings
- Flexible mounting solutions are available (adjustable trolley, wall mount, table stand) for more ergonomic use

STAN S31 is the best CTG monitor due to its unique benefits:

- **User friendliness (big screen and ergonomic solutions)**
- **Flexible customization options (including ST Analysis)**
- **Enhanced workflow (registration, storage and connectivity)**

**Main unit**

Touch screen with optional maternal vital signs.

**Transducers**

Ultrasound transducers with different frequency.

**Telemetry**

With option for scalp electrode.

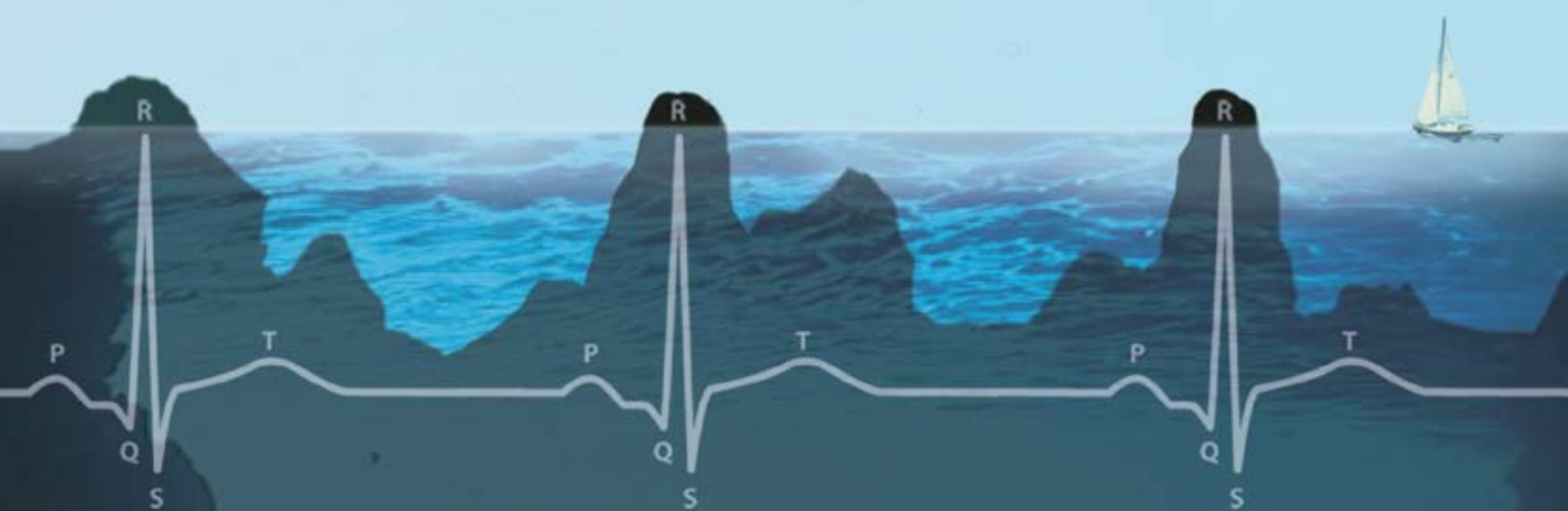
**Mounting solutions**

Adjustable trolley, table stand or wall mount.

**Printer**

Optional network or local thermal printer.

**STAN**<sup>TM</sup>  
FETAL HEART MONITOR



# You either see the surface. Or the whole picture.

**CTG is known for having high sensitivity but low specificity.**

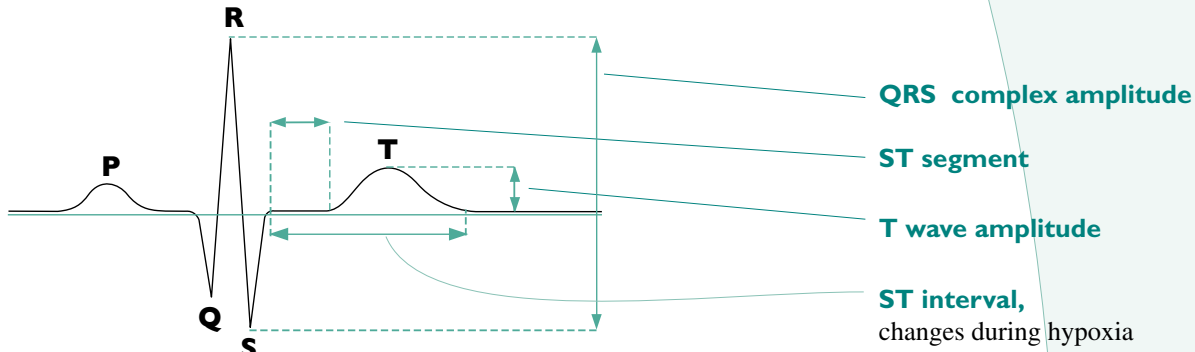
Information about the fetal heart rate is valuable, but quite often not enough. By adding analysis of the fetal ECG (ST Analysis) to the CTG trace, you are getting more precise information about the state of the fetus. The combination of CTG and ST Analysis forms the STAN method.

**Add the unique STAN ST Analysis software to your STAN CTG monitor, and start to benefit from the STAN method.**

ST Analysis requires the use of a scalp electrode or a fetal monitoring kit. The fetal ECG is recorded via the electrodes and an automatic analysis is carried out and presented on the large color touch screen.

ST Analysis helps the obstetrician or midwife decide if a fetus with an abnormal CTG is actually at risk of hypoxia. As a result, the right decisions can be made at the right time. **ST Analysis provides information about the oxygen supply of the fetal myocardium** – which is why we call it “a message from the heart.”

## ST Analysis - a message from the heart



### ST Analysis -

The T/QRS ratio is the ratio between the T-wave height and the amplitude of the QRS complex.



The Cochrane Review on the fetal ECG during labor<sup>1</sup> states that in comparison to continuous electronic fetal heart rate monitoring (CTG) alone, the use of adjunctive ST waveform analysis is associated with:

- fewer babies with severe metabolic acidosis at birth
- fewer babies with neonatal encephalopathy
- fewer scalp samples during labor
- fewer operative vaginal deliveries

(1): Cochrane Review: Fetal electrocardiogram (ECG) for fetal monitoring during labor. Neilson JP. The Cochrane library 2006:3.





# You bring the next generation. Now it's our turn.

Neoventa also offers consumable products that can be used together with the STAN CTG monitor for the best possible outcome and convenience. As a scalp electrode is necessary to perform an ST Analysis, we are pleased to introduce

a completely new and innovative concept.

**The Goldtrace+ Fetal Monitoring Kit is the complete solution for internal fetal monitoring.**

It includes a new generation scalp electrode and a disposable legplate.

**We have developed it bearing in mind: safety, hygiene and convenience** for both healthcare professionals and for patients.



## Let us take a look at what Goldtrace+ offers you and the mother-to-be

### The unique Goldtrace+ disposable legplate

Grooves and pockets on disposable legplates accumulate blood and fluids and make cleaning an impossible task.

- **You don't need to clean Goldtrace+ legplate. It's disposable!**

Reusable legplates are bulky and uncomfortable when strapped around the thigh, and thick cables are always in the way.

- **You don't have problems mobilising the mother with Goldtrace+ legplate. It's thin and light.**

Worn-out contacts towards end-of-life and legplates run-over by trolleys lead to intermittent signal problems

- **You don't have wear and tear issues with Goldtrace+ legplate. It's always new!**



Unique disposable legplate



Handle with improved ergonomics



Compact hub with Click Release™

### The Goldtrace+ new generation scalp electrode

The new design of the spiral and hub favor the attachment.

- **The Goldtrace+ electrode stays in place as long as you want it to.**

Click Release™ ensures the spiral is always fully inserted and never over-inserted.

- **The Goldtrace+ electrode gives you control of application**

A gold-plated ring has replaced the sharp-edged reference electrode

- **The Goldtrace+ electrode is safer for both the mother and baby.**

The hub has been redesigned in order to avoid entangling of hair and tissue under the spiral.

- **The Goldtrace+ electrode is easier to remove when a decision for Caesarean section has been made.**

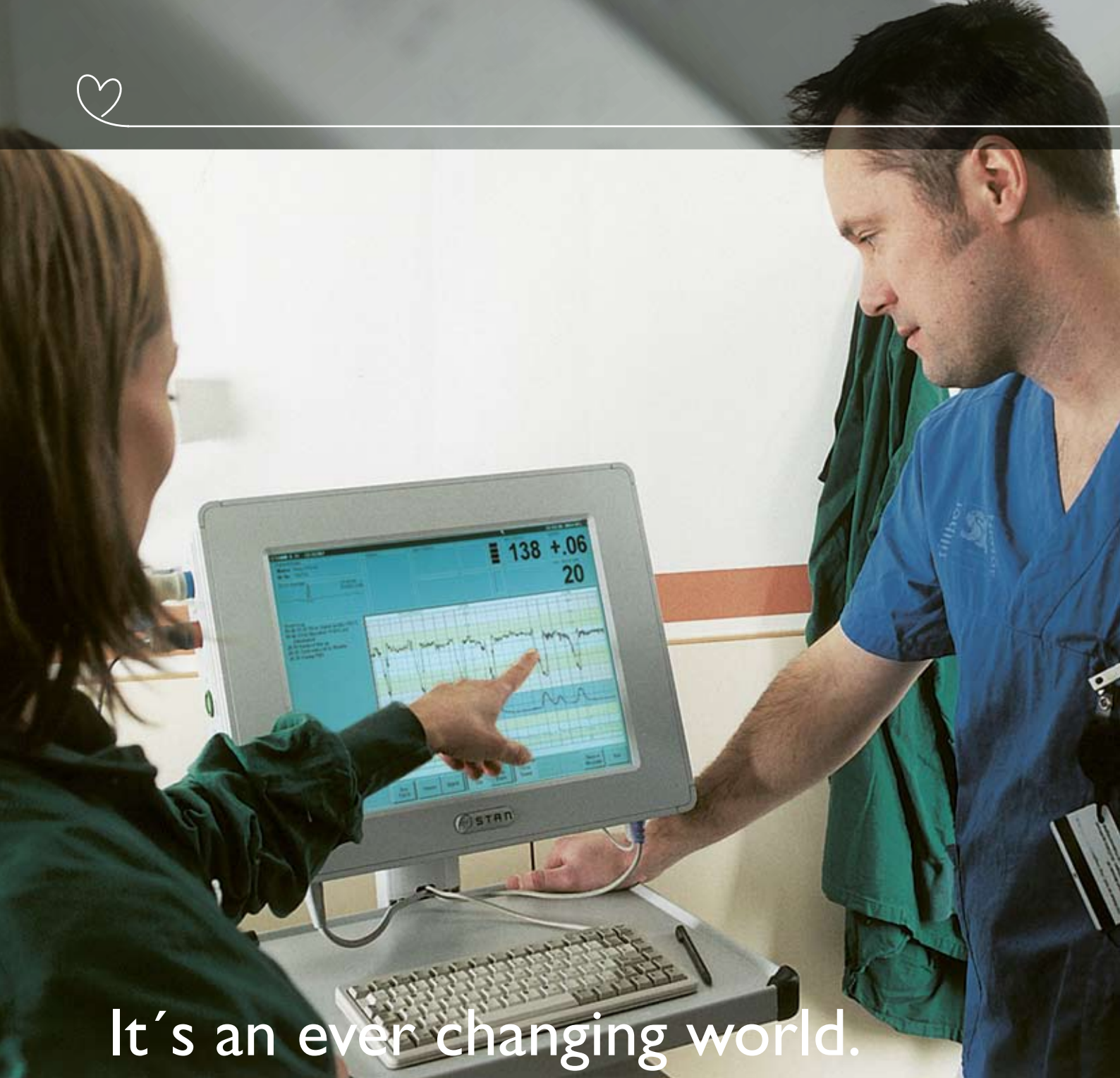
### Goldtrace+ for increased safety, hygiene and convenience.

To benefit from the advantages of Goldtrace+ with any CTG monitor, all you need is an adapter cable.

#### Are you currently using ST Analysis in your clinic?

If so, you will love the signal quality improvement you will get with Goldtrace+. You can also upgrade the hardware and software of your STAN ST equipment, to fully benefit from the improved signal quality of the Goldtrace+.

**Goldtrace+™**



It's an ever changing world.

We all need to be updated  
once in a while.

Understanding of fetal physiology and skills in CTG interpretation are essential for successful obstetric management and the use of the STAN method. Therefore, **Neoventa has developed educa-**

**tional material on fetal monitoring** that covers both CTG interpretation and ST Analysis. These teaching and training materials are unique, as they combine years of clinical experience with modern

information technology – and they form the basis of the Neoventa Fetal Monitoring training program.

## World class training program

The materials cover the following sections:

- Fetal physiology
- Cardiotocography
- Fetal ECG
- ST Analysis and ST Events
- ST Analysis in clinical practice
- Assessment of the newborn
- Using the STAN fetal surveillance system

**The full color textbook** is available in 10 languages and is being used on every continent.

The associated **Education Kit** covers the contents of the book and also features pictures and teacher instructions.

In addition to the educational material, **checklists are available** to ensure a structured approach.

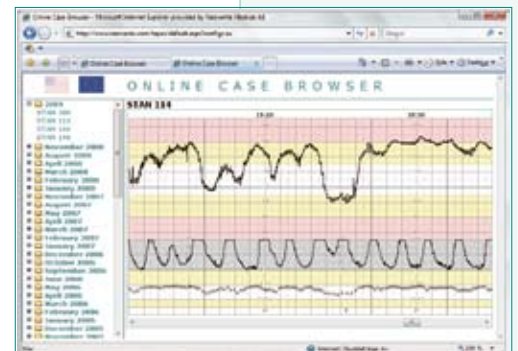
**Country-specific clinical guidelines** are available on a handy, pocket-size card to help you interpret the information provided by STAN, CTG and ST Analysis. The guidelines are developed by national reference groups across Europe.

The most recent addition is the unique **interactive web-based training program**, which is customised according to country-specific interpretation and management guidelines.

Neoventa provides **tailor-made training sessions** for the particular needs of your clinic.

**Certification tests are also available** should they be required or desired by your clinic.

Another great tool is the **STAN Viewer, a software for reviewing STAN recordings on your PC**. The STAN Viewer is a powerful educational tool used for case discussions and presentations.



### Did you know?

Our website [www.stancases.com](http://www.stancases.com) contains a variety of interesting STAN recordings. We continuously add real-life recordings to this site for educational purposes.



*Neoventa Medical AB is an innovative Swedish company founded in 1997, manufacturing state-of-the-art fetal/maternal monitoring equipment, has its headquarters in the Gothenburg area and has a presence in both Europe and the US through subsidiaries and distributors. Neoventa Medical is owned by Investor Growth Capital AB, CapMan Life Science and SEB Företagsinvest.*

*The STAN method is based on 30 years of research, and forms the foundation of the company. The STAN method combines cardiotocography with monitoring of the fetal ECG during childbirth, using a patented digital signal processing technology. It is constantly being improved in collaboration with clinical reference groups across Europe and is currently being used in over 400 obstetric centers in more than 20 countries around the world.*

*Neoventa is an environmental-friendly company, actively seeking environmental-friendly materials and solutions when developing new products. One example is the PVC-free cable on the new Goldtrace+. Neoventa prioritises ergonomic aspects of all its products in order to give healthcare professionals easy to handle, easy to work with technology and support in their everyday work.*

*Neoventa Medical's mission is to provide obstetricians and midwives with the complete solution in fetal/maternal monitoring. The goal is to reduce the risk of fetal exposure to oxygen deficiency during childbirth.*

**Neoventa – healthier babies, healthier mothers**



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For further information, read our brochures *An overview of ST Analysis* and *A future proof platform*.