



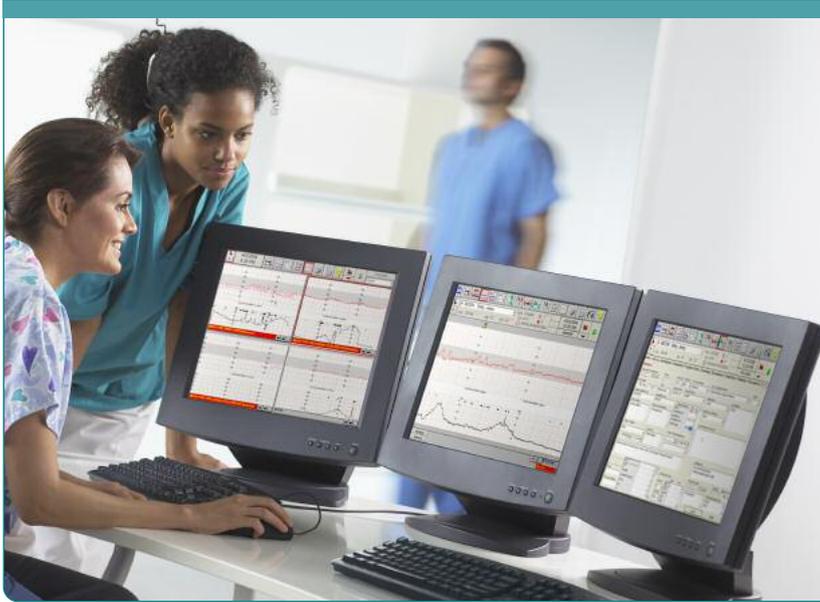
**Clinical Information Systems**

# OB TraceVue

Surveillance, alerting, storage,  
and charting for obstetrical care

**PHILIPS**

# Surveillance, on-line documentation, all in one obstetrical solution



**Philips OB TraceVue offers patient surveillance, alerting, documentation, and archiving functionality designed to ensure comprehensive coverage across the obstetrical care continuum – from the first antepartum visit to delivery, postpartum, newborn record, discharge and postpartum follow-up visits. Maternal care can be tracked across multiple pregnancies to provide a comprehensive obstetrical record.**

OB TraceVue is a patient-focused obstetrical information system that provides a complete clinical record of care for the mother and newborn. The surveillance functions present information that is transmitted from fetal and fetal/maternal monitors and generate alerts for critical events. Philips worked with the Department of Obstetrics and the Laboratory of Computer Science of the Massachusetts General Hospital\*, incorporating their knowledge, expertise, and years of experience into the development of OB TraceVue.

OB TraceVue can be accessed wherever patient information is needed – from patient bedside and delivery room, central station, nurse lounge, and physician's home or office. Easy access to well-organized information improves efficiency, allowing you to focus more attention on patients and achieve the best quality of care.

OB TraceVue is addressing legal liability by storing patient information including traces on magneto-optical media. Optical storage media can store data for up to 30 years according to the accelerated lifetime tests of the media manufacturer.

\* A Harvard Medical School affiliated hospital.

## **Clinical benefits of OB TraceVue**

- Offers superior surveillance, providing continuous trace displays of fetus and mother even with triplets.
- Provides basic and advanced fetal trace alerting, making you immediately aware of critical events.
- Ensures prompt distribution of, and access to, patient data through the electronic patient record for mother, fetus and newborn.
- Interfacing to the Hospital ADT System, helping to improve efficiency and reduces errors when admitting patients.
- Integrates into the hospital MS Domain infrastructure including user authentication via Microsoft Active Directory services.
- Interfaces to hospital-wide third party charting solutions to allow for automatic data transfer.
- Displays OB TraceVue alerts even when other clinical applications are in use.
- Saves time and effort with an intuitive user interface
- Receives fetal traces transmitted from remote locations using Avalon FM20, Avalon FM30, and FM-2 antepartum fetal monitors.
- Enables interactive remote access to closely monitor patient status when you're away from the unit. OB TraceVue is WEB enabled.

# alerting, and storage –

Philips fetal and maternal monitors, cordless transducers, and departmental information system span the obstetrical care continuum. Our technologies are designed to contribute to improved staff efficiency and support a patient-safe environment.

## GATHERING DATA

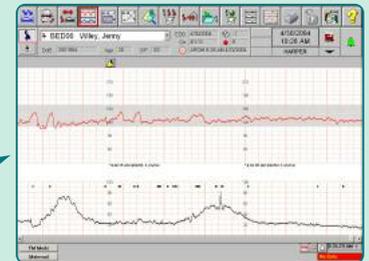


## TRANSFERRING DATA



Fetal Monitor

## SURVEILLANCE, ALERTING, CHARTING, STORAGE



OB TraceVue



Storage

### Modular design for flexibility and efficiency

OB TraceVue is a highly scalable system. It can be configured as simple non-stress test (NST) system, as centralized departmental surveillance solution and as a complete departmental point-of-care surveillance and charting solution that allows fetal, maternal, and newborn charting at every bedside.

### Interfacing to the Hospital ADT System

OB TraceVue's HL7-based ADT link allows demographic data to be downloaded from the HIS and can report transfers and discharges to the HIS.

### Integration into the Hospital IT Infrastructure

OB TraceVue can be fully integrated into the hospital MS Domain infrastructure including user authentication via Microsoft Active Directory services

### Interfacing to Hospital-wide Third Party Charting solutions

OB TraceVue interfaces to hospital-wide third party charting solutions by exporting a configurable set of

flowsheet data including vital signs, derived fetal heart rate parameters, alerts and notes. The export is based on HL7 outbound communication.

### Remarkable access

An authorized care provider can gain read/write access to OB TraceVue from any PC on the hospital LAN (OB department or physician's office) or remotely via secure connection from home.

### Runs alongside other applications

OB TraceVue runs alongside third-party applications and can be minimized to an icon while users work with other applications. The icon, which is always visible, registers alert situations, and provides charting reminders for time-sensitive tasks.

### High-Availability

The OB TraceVue high-availability option is based on a hot standby server that takes over data collection, surveillance, alerting and charting in the case the primary server becomes unavailable.

# Fetal and maternal surveillance

## Single trace screen

A well-designed and intuitive tool bar makes OB TraceVue easy to use.

Information can be entered and accessed using your choice of pointing device.

## Annotated tracing

Interventions and traces are inserted into the trace timeline.

## Seven waveforms can be traced

simultaneously, including fetal heart rate for triplets or twins, maternal heart rate, fetal movement profile, contractions, and fetal SpO<sub>2</sub>.

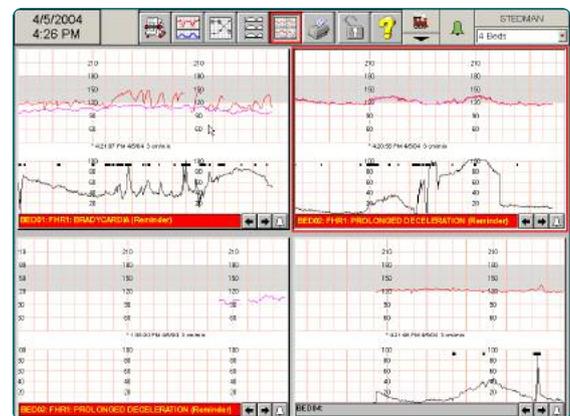


## True depiction of the fetal trace

OB TraceVue provides continuous, accurate, and clear trace displays that exactly replicate the fetal monitor trace. Trace displays incorporate all relevant data and notes, while the overview screen allows simultaneous monitoring of up to 16 patients on a single display.

## Remote trace transmission

In combination with an Avalon FM20, Avalon FM30, or FM-2 antepartum fetal monitor with modem, OB TraceVue receives traces recorded at another location.



## Overview screen

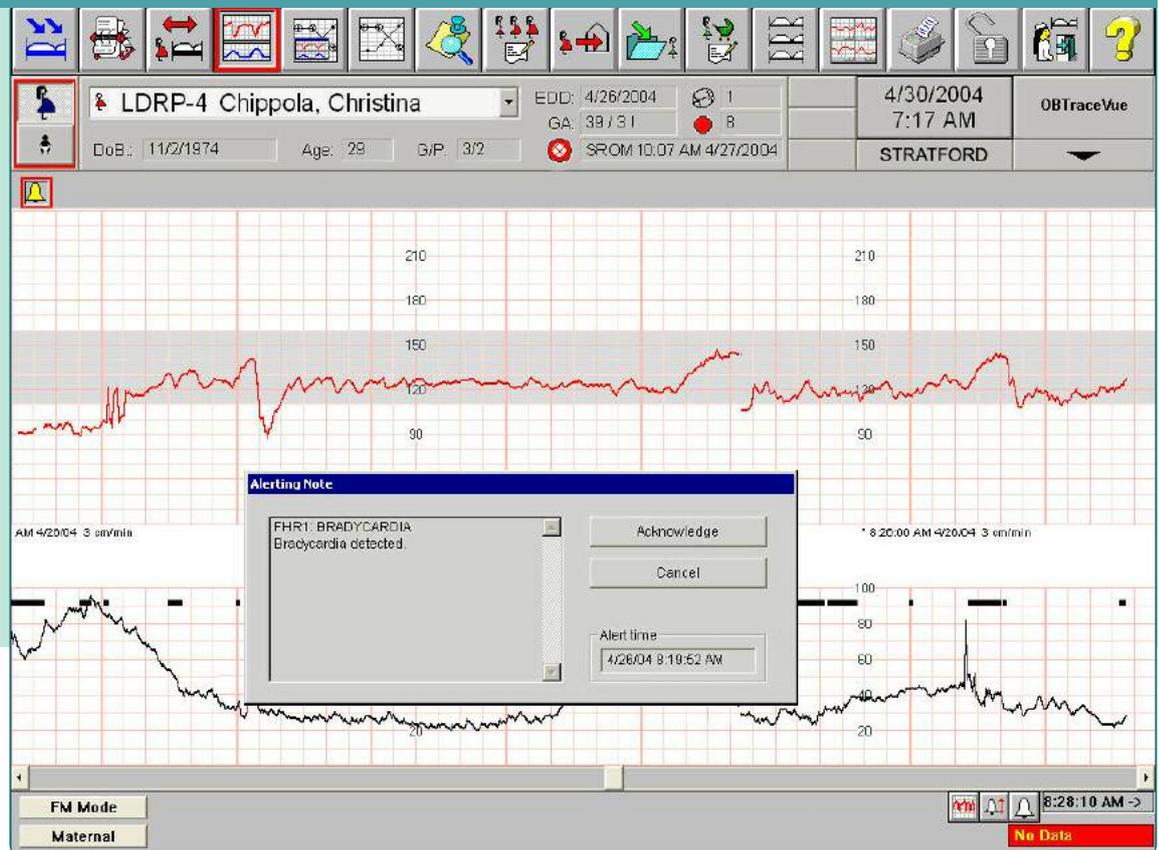
The overview screens include general and user-specific settings to view 2, 4, 9, 12, or 16 patients simultaneously.

# Basic and advanced alerting



## Trace alerting

OBTraceVue warns you of questionable tracings and critical events based on trace analysis.



## Basic alerting

Basic alerting informs you when fetal tachycardia and bradycardia limits have been exceeded, and announces unusual fluctuation in the monitor's signal. OB TraceVue provides a signal loss alert and notification when fetal trace paper has emptied. OB TraceVue incorporates cross-channel verification, a unique feature included in all Philips fetal monitors, to detect coincidences between fetal and maternal heart rates or between two fetal heart rates.

## Advanced pattern analysis

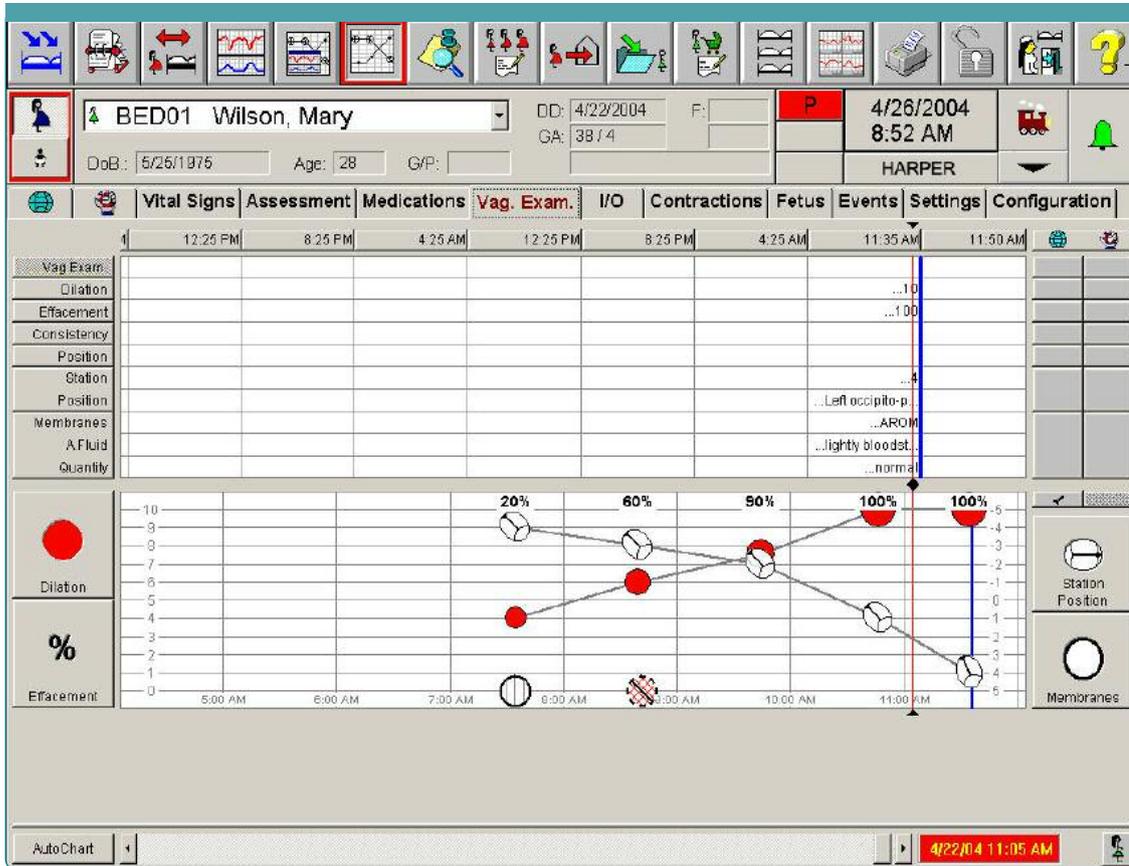
After establishing a baseline fetal heart rate, detailed pattern analysis tracks any baseline changes, short-term variability, amplitude and frequency of long-

term variability, as well as the number and type of decelerations, accelerations, and contractions. Pattern analysis gives advanced alerting (antepartum and intrapartum) and support for antepartum testing and automated charting.

## Non-stress test support

The non-stress test is used for antepartum testing to assess fetal well-being. The test is started by turning on the fetal monitor and defining the reassurance criteria in OB TraceVue. An NST report is generated when the reassurance criteria are met the first time in the current monitoring phase. When performing an NST with multiples, a separate NST report is generated for each fetus.

# Electronic patient record for mother and fetus



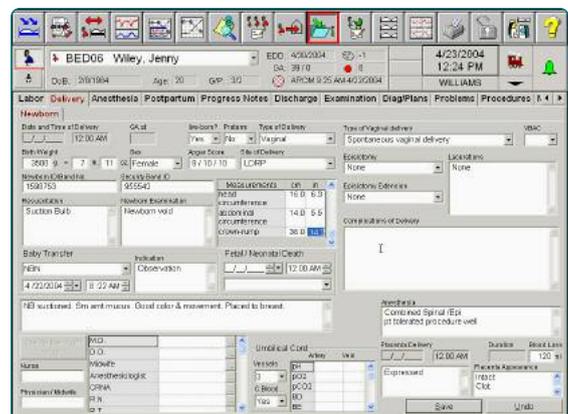
**Flowsheet-based charting**  
OB TraceVue provides a full set of data entry screens for patient charting throughout the care continuum. Extensive user-defined pull-down lists help speed the documentation process.

**Clinical information portal** links you directly to hospital procedures and protocols

## Electronic patient charting for mother and fetus

Electronic charting ensures prompt distribution of data, resulting in faster access to complete patient records wherever and whenever needed. OB TraceVue documents from the first antepartum visit to delivery, postpartum and postpartum follow-up visits. OB TraceVue also covers multiple pregnancies.

Comprehensive, integrated, and readily accessible information not only improves care, but also aids research, teaching, statistical evaluation, and administrative reporting. It also contributes to the longitudinal record on enterprise-wide systems, helping to support patient safety and to leverage capital investments and data collection.



## Forms-based charting

OB TraceVue comes with a full set of data entry screens that covers the continuum of obstetrical care.

# Electronic patient record for the newborn

## Newborn form

OB TraceVue provides a full set of newborn forms from admission to discharge including progress notes, problems, and procedures.

## Link between maternal and newborn record

When the mother and newborn are independent of each other, a link is maintained between the two records allowing you to switch between them with a single mouse click.

**Demogr. | Maturity | Admission | Progress Notes | Examination | LAB | Diag/Plans | Problems | Procedures | Screening | Attach**

Weight: 2785 g -0.5%  
GA: 39 / 2(D) - 35 / 1(A) LG  
4/26/2004 8:56 AM  
BURKETT

Date&Time	Examination	Comment	Done By
4 / 1 / 2004 1:49	Initial Examination	Performed @ mom's bedside	

Examination	Result	User
Activity	Awake	Simmons, S.
Fontanelles	Fontanells soft, flat	Simmons, S.
Sutures	Sutures normal	Simmons, S.
Scalp	Scalp hematoma	Simmons, S.
Eyes	Eyes Normal	Simmons, S.
Ears	Ears symmetrical	Simmons, S.
Nares	Nares patent	Simmons, S.
Mouth	Natal teeth	Simmons, S.
Neck	Neck-full ROM	Simmons, S.
Neuro	Cry normal	Simmons, S.
Reflexes	All normal	Simmons, S.
Resp Status	Easy/unlabored resp	Simmons, S.
Resp-Reactions	Intercostal retractions	Simmons, S.
Resp-Thorax	Thorax symmetrical	Simmons, S.
Cardiovascular	Active precordium	Simmons, S.
Peripheral Vascular	All pulses normal	Simmons, S.
Skin	Vernix	Simmons, S.
Color	Normal for race	Simmons, S.
GI Appear	Round, soft, symmetrical	Simmons, S.
GI- Bowel Snds	Hypoactive BS	Simmons, S.
GI-Organs	Liver/spleen WNL	Simmons, S.

Admission Record

## Electronic patient charting of the newborn (well baby)

OB TraceVue's newborn record provides comprehensive charting and documentation for the baby. It includes documentation of physical and neurological assessments, procedures, and discharge reports for single and multiple newborns.

**Vital Signs | Assessment | Medications | IO | LAB | Therapies | Events | Settings | Configuration**

Time	Vital Signs	Assessment	Medications	IO	LAB	Therapies	Events	Settings	Configuration
7:50 AM									
8:00 AM									
8:10 AM									
8:30 AM									
8:45 AM									
9:00 AM									
9:15 AM									

## Flowsheet form for newborn

Newborn flowsheet provides charting of vital signs, medications, intake and output, lab values, and notes.

# Patient confidentiality, reporting, and record attachment

## Attach files to the patient record

The Attachment Manager lets you attach files and scan documents such as ultrasound images and consent forms, creating a more complete electronic record.



## Patient confidentiality and data security

OB TraceVue helps your hospital comply with confidentiality and security regulations through many built-in features including:

- User and data authentication.
- User authentication via Microsoft® Active Directory service.
- Audit trails that track which patient records were accessed and by whom. They also track all clinical configuration changes.
- Physical security and disaster recovery.
- Creation of patient aliases.

## Routine reporting

OB TraceVue allows printing of annotated traces, flowcharts, forms, notes lists, NST reports, and audit trails.

The OB TraceVue forms package comes with Microsoft® Word-based print templates that can be adapted and reformatted easily. Predefined and automatic statistical reports help improve routine reporting. These reports, including weekly, monthly, and yearly statistics, and newborn logs are generated as Microsoft® Excel spreadsheets.

M1381E OB TraceVue



**Philips Medical Systems is part of Royal Philips Electronics**

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