

Eclair

Fetal Growth Charts



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Eclair Fetal Growth Charts provide the digital solution for charting fetal growth, replacing the need for paper-based charts.

An integral component of antenatal care is monitoring the growth of a baby during pregnancy. Fetal measurements are taken from ultrasound examinations performed at key stages of pregnancy and then plotted on growth charts. This present antenatal care providers such as midwives, sonographers, obstetricians, and prenatal nurse specialists with insight to the growth progress of the fetus, so they can manage early intervention aimed at facilitating a timely delivery and positive pregnancy outcome.

Monitoring fetal growth has traditionally involved a manual process, relying on the provider to plot measurements on paper growth charts. The process is time-consuming and prone to plotting errors that may go unnoticed. In addition, a paper-based charting system would require a mother's physical notes to access historical growth records – both inconvenient and less than ideal when there are issues with access to the records.

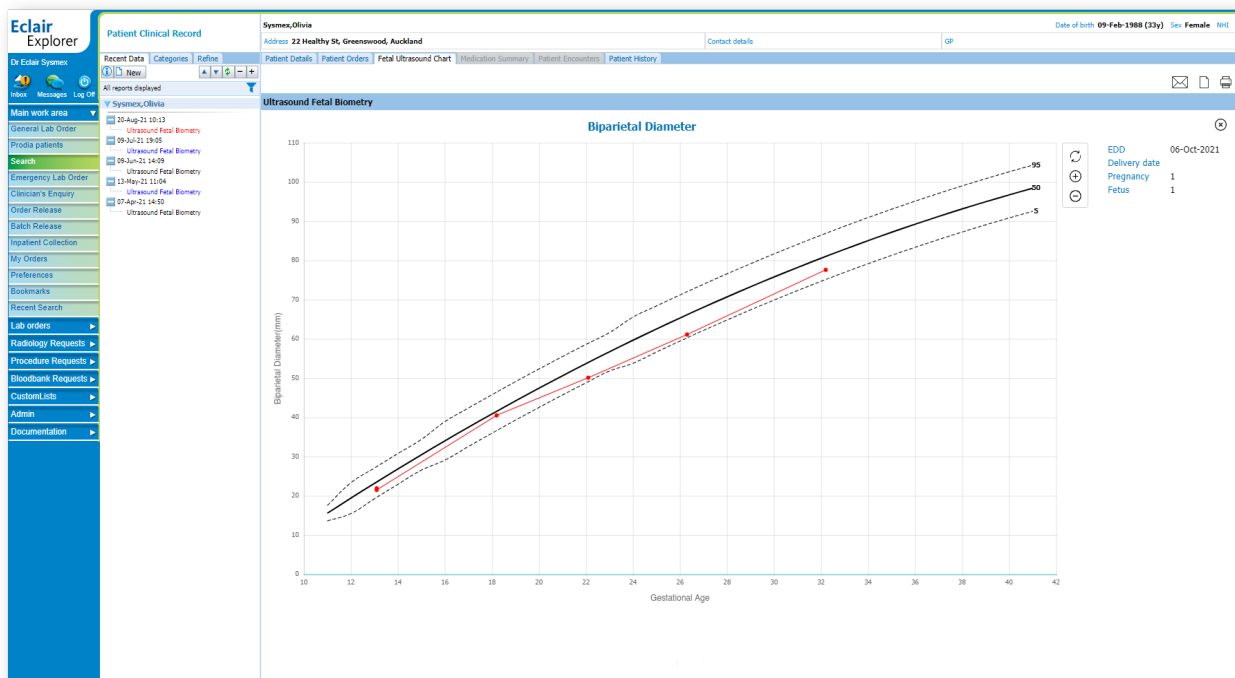
Eclair's Fetal Growth Charts has been designed to electronically record and chart ultrasound-derived, fetal biometric data. The solution enables digital growth charts to be created dynamically for each fetal parameter, and automatically plots entered growth data against standardised reference curves. Data points outside the normal range at the respective stage in pregnancy may indicate an underlying fetal growth complication, e.g. intrauterine growth restriction. Improving the ability to screen for abnormalities using the charts in Eclair may reassure the expectant mother that her baby is growing well, and bring attention to antenatal care providers any concerns regarding the baby's growth.



Digital Chart Features

Similar to the presentation on a paper-based chart, the Eclair Fetal Growth Chart provides clear graphics for optimal monitoring of fetal growth.

- The chart automatically plots measurements of gestational age against key fetal biometric parameters, including:
 - Biparietal diameter (BPD)
 - Abdominal circumference (AC)
 - Head circumference (HC)
 - Femur Length (FL)
- All points based on self-entered measurement data are plotted over reference standard values sourced from the Australasian Society for Ultrasound in Medicine (ASUM); three percentile lines (5th, 50th and 90th) display
- Zoom in and out of areas on a chart
- Click and drag to move the chart around the frame
- Hover over data points to see exact values and any comments



Eclair Fetal Growth Chart Benefits

Sysmex's electronic fetal growth charts offer numerous advantages over paper-based charts.

Accurate data capture and charting capability

Eclair prompts the accurate capture of measurement data into a pre-built clinical form, specifically designed with fetal parameter fields. Relevant comments can also be added as required. All fetal measurements are stored as SNOMED-CT codes within Eclair's clinical data repository, ensuring consistency of data across interoperable systems.

Charts are generated automatically and provide the exact positioning of points based on the entered values, keeping plotting errors at a minimum. Eclair supports the ability to chart growth data for multiple fetuses within the same pregnancy record, e.g. twins, triplets.

Seamless integration

Electronic fetal growth charts created in Eclair can be readily integrated into the mother's clinical record. A linkage can also be made between the mother and baby record within Eclair to facilitate easy access and on-demand retrieval of their patient data.

Comprehensive digital record

Eclair provides one-click access to all fetal growth charts related to a mother's pregnancy record, making it easier to monitor growth trends from early phases of pregnancy up to delivery.

Sharing made simple

Charts can be instantly shared with the mother and other healthcare providers over email or as a printed physical copy.

Complete clinical picture

Relevant patient data e.g. diagnostic results, clinical documents, and medication history are made available within the mother's record in Eclair, ensuring that fetal growth is able to be interpreted in the overall clinical context of the mother.

Sysmex are focused on digitally enhancing the antenatal practice workflow. Eclair Fetal Growth Charts provides a paperless charting solution that raises the standard for monitoring fetal growth during pregnancy, supporting healthcare providers to promote a healthy life course starting before birth.

Sysmex New Zealand Ltd
Tel +64 (9) 630-3554
www.sysmex.co.nz

Sysmex Australia Pty Ltd
Tel +61 (2) 9016-3040
www.sysmex.com.au