The Moni
cova Wireless Patch System provides the opportunity to enhance your current monitoring experience.

It connects with your Corometrics* 259cx series
maternal/foetal monitors and the data flows seamlessly to your existing surveillance and archival system.

Enhanced monitoring for difficult to monitor patients

The Moni
cova Nova
ti monitors fetal heart rate, maternal heart rate and uterine activity, all in addition to the cable-free system. It is an effective solution for monitoring high BMI patients and minimizes the risk of maternal/fetal heart rate confusion. In addition, the cable-free system requires no repositioning nor is it allowed for easier monitoring during clinical procedures.

Patient satisfaction

The single patient use Nova
ti Patch is a completely cable-free wireless solution. It allows for greater freedom of movement during labour and a more comfortable experience for the patient.

"We found Monica to perform excellently in very obese women (35>BM<60)"

University of Arizona College of Medicine, Tucson USA

Prof W Cohen, BSc, MSc, PhD, FRSM, FESC, FACC, FRCP. University of Arizona College of Medicine, Tucson USA

References


Stampalija T, Signaroldi M, Mastroianni C, Rosti E, Signorelli S. Fetal and maternal heart rate confusion and Reliability of Uterine Contraction Identification Using Abdominal Electrophysiological Signals that can be passively detected by electrodes positioned on the maternal abdomen. From these signals a number of parameters: fetal heart rate, maternal heart rate, uterine activity, maternal movements and parameters describing fetal ECG morphology and RR intervals (for research only) can be extracted, in real-time and over an extended period of time.

Monica Healthcare is developing a series of innovative wearable sensors that uses wireless technologies to facilitate globally accessible obstetric care, risk management and patient satisfaction.

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In the USA the Novii Wireless Patch System is sold exclusively for use with the Corometrics* 259cx series fetal/maternal Monitor by GE Healthcare.

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Enhanced monitoring for difficult to monitor patients

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“...in very obese women (35< BMI <60)’’


References


Stampalija T, Signaroldi M, Mastroianni C, Rosti E, Signorelli E. Continuous Telemetric Trans-Abdominal Fetal ECG Monitoring. Home Labour Induction with Retrievable Prostaglandin Pessary and Ectopic Contraction Morphology and RR Intervals (for research only) can be extracted, in real time and over an extended period of time.

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About Monica Healthcare

Monica Healthcare is developing a series of innovative wearable monitors that uses wireless technologies to facilitate globally accessible obstetric services in the home and hospital.

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Monica Novii Wireless Patch System

Improved Fetal Maternal Monitoring

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Monitoring High BMI Patients

Pacing as consistent, reliable fetal heart rate and uterine activity can be challenging on high BMI patients. Monica Novii registers the electrical signals on the patients abdomen and therefore the quality of the monitoring is not compromised by high BMI. Studies including women up to a BMI of 30 have shown minimal loss in FHR and UA performance as the BMI of 60, have shown minimal loss. Studies, recruiting women up to a BMI of 60, have shown minimal loss of the monitoring signals on the patient’s abdomen and therefore the quality of the monitoring is not compromised by high BMI.

Helps to Mitigate Risk

In a high BMI patient, finding the ideal transducer placement can be difficult. Because the Novii uses electrical signals, it is not impacted by maternal weight. The transducer can move relative to the patient. In addition the Novii’s ability to simultaneously monitor and differentiate between the fetal and maternal ECG allows the maternal and fetal heart rates to be monitored simultaneously. The fetal QRS complex has a width less than 10% of the maternal QRS. This and other differences between the maternal and fetal ECG allows the Novii to be reasonably certain that the true FHR has been detected even in challenging circumstances.

MHR/FHR Confusion

Monica Novii uses the abdominal bio-ECG and fetal ECG wave shapes to uniquely identify and separate the maternal and fetal heart rates. When fetal ECG data is not available, the fetal QRS complex is easily less than 10% of the maternal QRS. This and other differences between the maternal and fetal ECG allow the Novii to be reasonably certain that the true FHR has been detected even in challenging circumstances. The true FHR has been detected even in challenging circumstances.

Motion and Freedom

When the cables, belts or transducers are removed, the Novii System allows fetal heart rate monitoring which can help the birthing process two-fold. The system’s line of sight range of 30m (90 feet) allows the patient to move about the room freely.

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Mobility and Freedom

With no cables, belts or transducers attached, the Novii System allows fetal heart rate monitoring which can help the birthing process two-fold. The system’s line of sight range of 30m (90 feet) allows the patient to move about the room freely.

With no transducers, no wires are connected to the patient. The Novii’s ability to simultaneously monitor and differentiate between the fetal and maternal heart rates can significantly reduce the occurrence of maternal/fetal confusion.

Waterproof

The Monica Novii Patch is waterproof and can be left in place during a bath or shower. The patient does not need to be disturbed or re-positioned, the Novii System’s line of sight range of 30m (90 feet) allows the patient to move about the room freely.

Long Inductions and Labors

The Novii System has two inductive charging wells allowing two Pods to be charged at the same time. The Pod battery life is up to 9 hours, with a 1.5 hour recharging time, swapping Pods could not be simpler, with a 1.5 hour recharging time, swapping Pods could not be simpler, with a 1.5 hour recharging time, swapping Pods could not be simpler.

Patient Friendly and Convenient

The Monica Novii is a comfortable alternative to transducers with belts and cables, which can significantly reduce the likelihood of maternal/fetal confusion.

MHR/FHR Confusion

Monica Novii uses the abdominal bio-ECG and fetal ECG wave shapes to uniquely identify and separate the maternal and fetal heart rates. The fetal QRS complex is easily less than 10% of the maternal QRS. This and other differences between the maternal and fetal ECG allow the Novii to be reasonably certain that the true FHR has been detected even in challenging circumstances. The true FHR has been detected even in challenging circumstances.

Corometrics’ Monitor

The Novii System connects seamlessly with any Corometrics* monitor or to any other brand. The Novii Pod interface connects to your Corometrics* monitor via Bluetooth – no cables – no belts – no transducers – with the Novii interface display device shown on the left, which connects effortlessly using magnets to the maternal/fetal transducer inputs.
Monitoring High BMI Patients

Picking up consistent, reliable fetal heart rates and uterine activity can be challenging on high BMI patients. Monica Novii monitors the electrical heart rate and uterine activity. The fetal QRS complex is a useful echo that can show the difference between maternal and fetal ECG. This and other differences between the maternal and fetal ECG allow the Monica Novii to reasonably certain that the true FHR has been detected. You can be confident that you are monitoring the fetal heart even in the most challenging circumstances. With transducers placement can be difficult. In a high BMI patient, finding the ideal placement can be time-consuming. The Novii’s ability to simultaneously monitor and differentiate the fetal and maternal ECG allows the patient to move about freely. This translates into more reliable tracings that the true FHR has been detected. You can be confident that you are monitoring the fetal heart even in the most challenging circumstances.

MHR/FHR Confusion

Monica Novii uses the abdominal fECG and scalp EMG wave shape to separate the maternal and fetal heart rates. The fetal QRS complex is a useful echo that can show the difference between maternal and fetal ECG. This and other differences between the maternal and fetal ECG allow the Monica Novii to reasonably certain that the true FHR has been detected. You can be confident that you are monitoring the fetal heart even in the most challenging circumstances. In addition, the absence of EMG will not help to extract the uterine and neonatal signals when a clinical study to be expanded for TOCO UK only.

Helps to Mitigate Risk

In a high BMI patient, finding the ideal transducer placement can be difficult. Because the Novii uses electrical signals, it is not impacted by maternal weight. The transducer can remain in place throughout labor and repositioning, the Novii System includes three Pods for your convenience. The Novii Interface has two inductive charging wells allowing two Pods to be charged at the same time. The Pod battery life is up to 9 hours, with a 1.5 hour recharging time. The Pod battery life is up to 9 hours, with a 1.5 hour recharging time. The Pod battery life is up to 9 hours, with a 1.5 hour recharging time. The Pod battery life is up to 9 hours, with a 1.5 hour recharging time.
Corometrics’ Monitor

The Novii System connects seamlessly with any Corometrics* or Abbott monitor. The Novii Pod is a small signal processing and transmission device connects efficiently using magnets to the patient and to the Novii Patch shown on the left, which connects to your Corometrics Monitor transducer inputs.

MHR/FHR Confusion

Monica Novii uses the abdominal fECG and tocatalgo to separate maternal and fetal heart rates. The fetal QRS complex is usually less than 10% of the maternal QRS. This helps to distinguish between the maternal and fetal ECGs, allowing the Novii System to track the QRS complexes of both the maternal and fetal heartbeats. In high BMI patients, finding the ideal transducer placement can be challenging. The Novii uses electrical signals, which are not impacted by maternal weight. The transducer has a small size and can be easily repositioned, allowing for effective monitoring.

Mobility and Freedom

With the cables, belts or transducers required for traditional monitoring, the Novii System allows freedom and mobility, which can help the birthing process. The system’s line of sight range of 30m (90 ft) allows the patient to move about freely in the room. With no transducer leads between the patient and the fetal monitor, the working environment is safe and easy for everyone involved.

Long Inductions and Labors

The Novii System is a comfortable alternative to traditional belt and transducer monitoring. The single-patient-use patch eliminates the risk of cross-contamination caused by inadequate cleaning. In addition, the Novii’s intelligent automatic setup provides help and support messages to optimize and simplify operation. To prevent Pods from being lost or in operation, they are incentivized and the Interface will alert the user if a Pod is not returned to the dock after use. The Novii Wireless Patch System includes three Pods for your piece of mind.

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Enhanced monitoring for difficult to monitor patients

The Monica Novii monitors fetal heart rate, maternal heart rate and uterine activity, all with a single patch. It is an effective solution for monitoring high-BMI patients, and minimizes the risk of maternal-fetal heart rate confusion.

In addition, the cable-free system requires no repositioning nor is it allows for wearable monitoring during some clinical procedures.

Patient satisfaction

The single-patient use Novii Patch is a completely belt-free, wireless solution. It allows for greater freedom of movement during labor and a more comfortable experience for the patient.

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