PRODUCT CATALOG SEPTEMBER 2023 • maternova™

EMPOWERING GLOBAL HEALTH THROUGH INNOVATIVE SOLUTIONS

Maternova is on a mission to facilitate access to affordable, evidence-based, life-saving technologies to populations across the globe. It is founded with the vision of improving health outcomes globally, including in low-resource settings. This includes the U.S.

Our technical team and scientific advisory board use a rigorous evaluation process to guarantee a high, evidence-based standard for every product we offer. We bundle devices according to health challenges, creating a one-stop shop for customers.

Maternova partners with a broad range of national and international healthcare NGOs, governments and distributors

in over 60 countries around the world.

We deliver innovations to your team, anywhere.





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Maternal mortality is a global, public health issue.

There is an immediate need for medical technologies and devices to address women's health and maternal health challenges, targeting common concerns during pregnancy, childbirth, and and throughout the lifespan.

Postpartum hemorrhage is one of the leading causes of death for women around the world, while other causes of maternal mortality and morbidity include hypertensive disorders (high blood pressure). Maternova's innovations can be used in various settings by health workers with different skills and training. We support them in finding accurate diagnoses and treatment options.

Maternova puts together a pipeline of hundreds of innovations based on research and approaches by innovators. Maternova selects the most relevant, evidence-based, and affordable solutions for our customers looking to improve health outcomes for women and mothers across the globe.





Non-Pneumatic Anti-Shock Garment

The Non-Pneumatic Anti-Shock Garment (NASG) is an evidence-based, low-cost, first-aid device used to stabilize women who are experiencing obstetric hemorrhage (bleeding before or after childbirth).

The NASG is a unique first-aid device, robust and easy to use in low-resource and humanitarian contexts. It requires only minimal training, and is washable and reusable up to 100 times. It is also lightweight, and easy to use also during transport between health facilities.

The WHO and FIGO (International Federation of Gynecologists and Obstetricians) have included the NASG in their recommendations for "Managing Postpartum Hemorrhage" since 2012.

Learn more here.





Guaranteed high-quality device ensured through careful manufacturing oversight and trusted product delivery



Widely used in UN Agencies including UNICEF, NGOs and by individual clinicians



CE marked and externally used medical device



CRADLE VSA Vital Signs Alert Device

The Cradle VSA is a handheld semiautomatic vital signs monitor with a unique pregnancy-adapted alert system designed for community health workers and midwives to detect pregnancyrelated emergencies like preeclampsia, sepsis, and shock.

Developed by UK experts, tested in multiple clinical trials, and widely used in low-resource clinical contexts since 2016, this device is essential for all health workers providing antenatal care.

Its minimal training requirements make the device suitable for all levels of health personnel, like community health workers, trained midwives, nurses, and doctors.

<u>Learn more here.</u>



- Identifies shock after hemorrhage & high blood pressure due to eclampsia (2 leading causes of maternal death)
- Groundbreaking, innovative traffic-sign alert system based on an algorithm tailored to pregnancy
- CE marked and fulfills WHO criteria for use in low-resource settings



CELOX PPHPostpartum Treatment

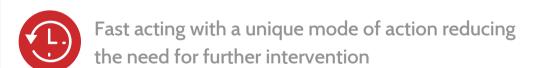
CELOX™ is a gauze covered with Chitosan from shellfish used to treat postpartum hemorrhage. It creates a robust gel plug that seals the bleeding site, working independently of the clotting mechanism. It's effective in patients on blood thinners and with conditions such as hypothermia.

With its easy-to-use design for uterine packing during atonic postpartum bleeding, CELOX™ has minimal

training requirements and is highly effective. Next to its rapid hemostasis, it also has antibacterial properties.

It's clinically effective, supported by a range of peer-reviewed clinical papers. The external gauze of CELOX™ has successfully been used for trauma and emergency management in military contexts for over 17 years and its intrauterine use has been CE marked.











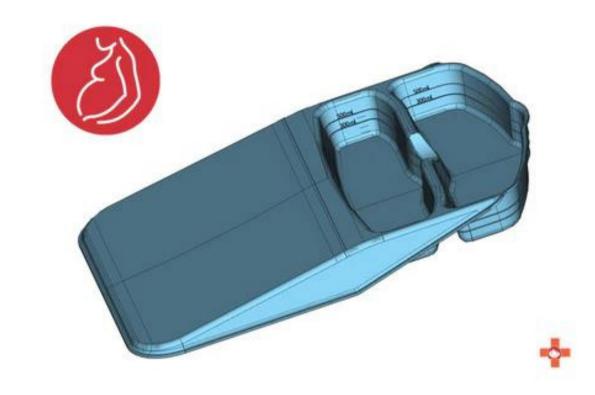
MaternaWell Tray to measure blood loss

Blood loss measurement is important for to early PPH diagnosis and subsequent treatment, ultimately improving outcomes.

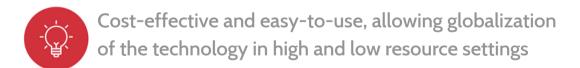
The quantitative measurement of blood lis essential. This is a blood loss device (BLMD) to facilitate early detection of PPH.

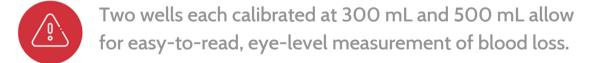
This novel device, the MaternaWell Tray, was invented by a South African obstetrician. The device is placed under the buttocks of a mother after delivery and allows measurement of blood loss up to 1000 mL

Already in use in South African facilities and in other sites across Africa.









Bouquet Speculum 360° Cervix View

Speculum examinations are an essential part of gynecology care for the early diagnosis and effective care of cervix cancer. The Bouquet Speculum, like regular speculums, keeps the vaginal wall to the side with its petals, but its innovative design makes it more patient-friendly.

The Bouquet Speculum has 3 elements:

- 1. a 5- petal vaginal inserter connected to a 135-degree angled handle;
- 2. a semi-fixed, removable dilator at the end of the vaginal inserter;
- 3. a removable, reusable LED pen light.

Designed for optimal cervix visualization, this device and allows clinicians to perform cervical procedures without assistance and to provide trauma-free patient care.

Learn more here.







The handle on the Bouquet speculum is 135° allowing for examinations on bunks, tables, beds, and more



One-Size-Fits-All: the speculum is suitable for all women, regardless of weight, parity, and anatomy



FDA-cleared device with 360 degree complete view of the cervix



Pocket Fetal Dopplers

Pocket Fetal Dopplers can be used by any health practitioner to detect and monitor the fetal heart beat, key for detecting intrauterine fetal distress leading to stillbirth or neonatal death.

We offer 3 different Fetal Dopplers:

1. UltraTec PD1

- Audible fetal heartbeat, easy to use
- Ideal for routine Antenatal Care

2. UltraTec PD1+

- LCD display and built-in fetal heart rate processing
- RS232 interface for connection to optional PC software

3. UltraTec PD1 DWR

• Sealed probe for water immersion, suitable for water births monitoring.

Learn more here.





Small (fits in a pocket) handheld, and lightweight



Built-in loudspeaker and headphone connection, with volume control



CE marked and externally used medical device



Balloon Tamponade Catheter

The BT Catheter is a soft, easy-to-insert silicone balloon tamponade catheter that applies pressure to control postpartum hemorrhage (PPH), a leading cause of death for women globally.

Its dedicated design makes it easy to use for optimal compression of the bleeding site, not requiring extensive training. The dual-lumen catheter allows for a saline solution to expand the balloon to create pressure, while simultaneously providing uterine drainage.

This non-pharmacological, non-surgical method to control PPH saves lives when surgical methods are not available.

Not available until July 2023.

<u>Learn more here.</u>





Sterile packed, single-use, and disposable device



Recommended by the WHO (for CEmONC facilities) and FIGO (also in PHC settings)



CE-marked device



Hemoglobinometer Point of Care

Anemia has been linked to increased maternal morbidity and negative pregnancy outcomes e.g. premature birth. Anemia in newborns is associated with negative short-term impacts on physical growth and development.

Point-of-care anemia detection can diagnose anemia from a drop of blood (capillary or venous), providing accurate results for on-the-spot decisions and immediate treatment if required.

The lightweight hemoglobinometer offered by Maternova Inc. is comparable to laboratory reference values, it has high sensitivity and specificity with an operating temperature of 10-42°C, and can be used in the field or clinics to assess levels of anemia.

<u>Learn more here.</u>



- Immediate hemoglobin results and hematocrit calculations in less than 2 minutes
- Wireless connection via Bluetooth (patient data can be added for better data management)
- CE-marked device



Hegenberger Retractor

Suturing of the vaginal wall after delivery can be challenging for clinicians and uncomfortable for patients. More than 85% of women having a vaginal birth suffer some degree of perineal trauma.

The Hegenberger Retractor can help reduce avoidable complications associated with suboptimal repair of postpartum tears and episiotomy.

Made from smooth plastic for comfort and ease of use, the Retractor is inserted into the vagina after delivery, holding the vaginal walls laterally to both sides and giving a clear view of the tears for easier repair. With the use of the Hegenberger retractor, no additional assistant is needed (even with long tears).

Maternova is the distributor in Peru.





Made from smooth plastic it is flexible soft and anatomically fitted



Client satisfaction assessment showed 100% of clinicians appreciated the improved visibility of tears



CE-marked device





In the newborn period, infants are particularly vulnerable, and a range of simple interventions and care can greatly improve the odds of life and wellbeing of the child during this period (0-28 days).

In lower-resource countries, safe birth and neonatal care present numerous challenges especially due to a lack of adequate medical devices and medicine.

Maternova ensures that innovative, evidencebased, and tested devices are available in lowresource settings and humanitarian contexts, where most neonatal deaths and stillbirths take place.

Some of these innovations are ingeniously simple and practical, while others include advanced technology elements.





DreamWarmer

The Durable Re-usable Electricity-free Affordable Mattress called the DreamWarmer™ is a novel, clinically tested solution that allows infant warming on a gel mattress made of phase change material.

The material is safe, hygienic and the warmer has been tested with more than 1000 infants. The mattress itself can be heated in hot water (boiled by any means) and can maintain its temperature of 37 degrees C for 6 hours.

The DreamWarmer[™] comes with a thermos which allows for hot water to be readily kept hot for rewarming the device. The DreamWarmer[™] can be used alone to warm the infant or wrapper behind the infant with a person providing skin to skin (STS) warming or Kangaroo Mother Care.





Keeps infants warm for more than 6 hours, longer than competition



Electricity-free (heat to 37 degrees in boiling water)



Safe: Temperature indicator (orange band) clarifies safe start time for infant



BiliDx Bilirubinometer

Assessing total serum bilirubin is crucial to diagnose jaundice. In many settings clinicians must endure long waits for labs and centrifuges.

The BiliDx (reader and cassette system) was developed to allow a fast, bloodbased determination of bilirubin levels at the point of care using a handheld reader

The device uses lateral flow cassettes to determine bilirubin levels in the blood sample, delivering results in minutes and saving the clinician precious hours of time. A blood sample is transferred onto the lateral flow cassette, which is slipped into the handheld reader. Results appear in 5-10 minutes.

Lateral flow tests cassettes sold separately in packs of 50.















Allows bilirubin estimation at the point of care using a drop of blood, without a laboratory



More accurate than transcutaneous bilirubinometer method



CE-marked

Pumani bCPAP

The Pumani bubbleCPAP (called bCPAP) is used to treat respiratory distress syndrome (RDS) in premature neonates and respiratory illness in infants from 1 to 10 kg.

Designed specifically for the lowresource hospitals, it is an effective, affordable and user-friendly solution that is effective in combating respiratory distress. The device allows the flow of pressurized air into the infant's lungs through nasal prongs and tubes.

The Pumani bCPAP is already in use in more than 30 countries and is affordable, rugged and effective.

Provides the same level of therapeutic pressure as other commercial CPAPs for less than one-third of the price













Effective in infants 1-10 kg



Easy set up in less than 5 minutes



CE-marked medical device



Preemie Test Prematurity Assessment.

According to the WHO, every year 15 million babies are born too early, and 1 million die due to prematurity complications. Whenever a baby is born too small, birth attendants need to make time-sensitive decisions about immediate interventions and referral of the newborn to a hospital.

The Preemie Test is the first medical device capable of accurately assessing the gestational age of a newborn.

This simple-to-operate, evidence-based device assesses gestational age using light to determine skin maturity through its photobiological properties. This allows for the timely initiation of treatment or quick referral to a NICU if needed.

<u>Learn more here.</u>





Non-invasive technology



Portable and easy for non-specialists to use



IApproved by Anvisa (Brazilian FDA equivalent)



ThermoSpot Temperature Check

In low-resource settings in low- and middle-income countries, hypothermia in infants is one of the most important risk factors for morbidity and mortality among newborns. Infants are less able to regulate their body temperature and in the first hours of life can have significant heat loss.

Interventions to prevent and manage infant hypothermia can help reduce neonatal morbidity and mortality by 18%-42%.

The ThermoSpot is a non-invasive infant hypothermia indicator. The ultrasimple, low-cost device adheres to the skin and indicates infant hypothermia or fever by a change of color.

Learn more here.





Sticks directly onto the skin



Can remain on for 7-10 days, and is reusable



Can signal fever or hypothermia by change in color



Infant Mylar Wrap for Warmth

Infants are extremely susceptible to hypothermia, even in tropical climates, and it is a major contributor to newborn morbidity and mortality. Low birth weight infants are at higher risk of hypothermia due to their less mature thermoregulatory systems.

The Infant Mylar Warming Blankets have a little hood to wrap over the baby's head and they fold over at the bottom to keep the baby warm during transport.

The blanket is extremely lightweight and easy to pack and transport. These blankets are particularly effective in a colder settings where infants need to be transported from homes or facilities to hospitals.

Learn more here.





The sterile mylar infant warming blanket keeps infants warm



It reduces evaporative and convective heat loss



Sold in packs of 100 units



Infant Ambu Bag Infant Resuscitator

Asphyxia, a deficiency of oxygen is one of the leading causes of neonatal mortality and can result in birth complications. Immediate oxygen supply can save the newborns' life.

The reusable, easy-to-use, silicone (100 % latex-free) Infant Resuscitator is a life-saving product. It has a hand strap for good grip which helps reduce fatigue during manual ventilation.

Infant resuscitation is a common procedure in clinical practices all over the world, and the Ambu brand is unparalleled.

Learn more here.





Optimal user handling and support during extended ventilation



CE marked and FDA cleared



Easy to disassemble and sterilize



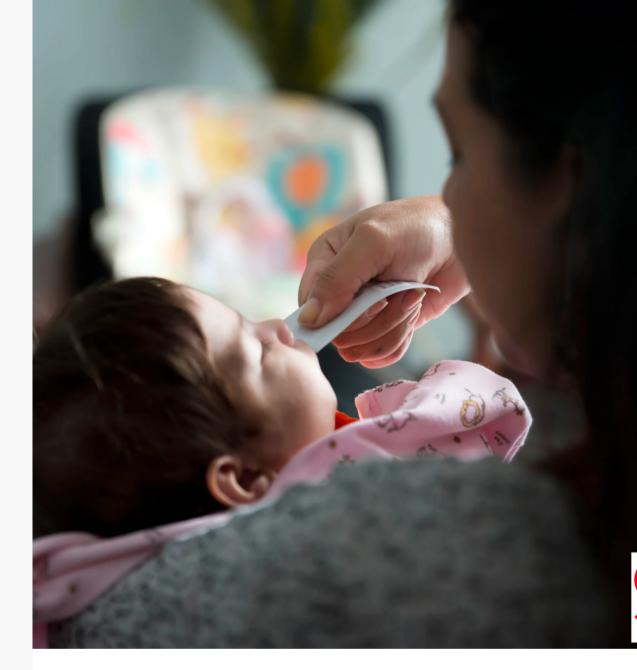
Pratt PouchARVs for HIV

Every year, tens of thousands of infants are infected with HIV during childbirth or breastfeeding. Antiretroviral prophylaxis Nevirapine (NVP), when properly dosed and administered, can prevent HIV transmission if administered within 72 hours of birth for 6 weeks, but access to the appropriate dose of NVP for that time period is challenging or impossible for women who live in remote places.

The Pratt Pouch allows the prepackaging of correct neonatal medicine dosages so that these drugs can be administered at home, by the mother.

This innovation can significantly reduce the number of new HIV infections each year. In Ecuador, through VIHDA Foundation, HIV has been prevented in 1,000 infants through the Pratt Pouch.

Learn more here.





Low-cost and more reliable dosing of antiretrovirals for infants born to HIV-positive mothers



Heat-stable means of treating newborns from home without the need to visit a health facility



12-month shelf life for pre-dosed antiretrovirals developed by Duke University's Engineering School



Kangaroo Mother Care Support Shirt

Preterm birth and low-birth-weight (LBW) are major causes and contributors to neonatal, infant, and child mortality. Every year, more than 1 in 10 babies is born prematurely. Complications from preterm birth are the leading cause of death among children under 5.

Skin-to-skin contact has been shown to increase neonatal survival in numerous studies. Kangaroo Mother Care (KMC) is an intuitive, bonding way to hold an infant, and the KMC Support Shirt is designed to promote breastfeeding and contact between newborns and parents.

KMC is used to reduce morbidity and mortality amongst preterm or low-birth-weight infants and has been associated with lower rates of infection, illness, and hypothermia.

Learn more here.





Instructions displayed via illustrations on garment-toxin-free and 93% natural cotton



Tests in U.S. hospitals by mothers



Multiple sizes available for different body types and genders





Malnutrition underlies a large percentage of the global burden of disease. Every year, millions of women and children die or suffer from physical or cognitive impairment due to lack of nutrition, or the right kind of nutrients.

Pregnant women and children under five years of age are particularly vulnerable to developing malnutrition-related health problems. Optimal maternal nutrition can determine the survival and general wellbeing of both the mother and the child.

Moreover, severely malnourished children are at high risk of experiencing slow intellectual and behavioral development, which can cause impairments in mental functions. Therefore, receiving proper nutrition at a young age is crucial.

Technologies to measure the extent of malnutrition and simple interventions to alleviate stunting are part of Maternova's portfolio.





Ready to Use Therapeutic Food

It is expensive and difficult to treat severely malnourished children in a clinic or hospital. Once a child is identified as severely malnourished, treatment would ideally occur in a community setting or at the home so that the mother or caretaker and the child would not be separated.

Ready to Use Therapeutic Foods (RUTF), is an energy-dense, mineral/vitamin enriched food specifically designed to treat Severe Acute Malnutrition at the community level.

RUTF is given over a period of six to eight weeks, with no need for other foods during treatment other than breastmilk. The paste contains vital nutrients and does not require mixing with water or with other foods.

Learn more here.





Supplementary food for severe acute malnutrition



Energy-dense mineral/vitamin enriched food in ready-to-feed foil packet



Portable package and shelf-stable recipe



Ready to Use Supplementary Food

Moderate acute malnutrition is a pervasive issue in pregnant women and in children. Supplemental foods are needed to complete the nutritional requirements of both pregnant women and children.

Ready to Use Supplemental Foods (RUSF), like their counterpart RUTF, are fortified with micronutrients and contain essential fatty acids and quality protein to ensure nutritional needs are met.

Packaged in a foil pouch and ready to eat, the product is portable and shelf-stable meaning that a nutritionist or clinic can determine the dose and quantity of the supplemental feeding needed but the administration of the daily dosage can occur in the home.

<u>Learn more here.</u>





Food for moderate acute malnutrition in children 6-59 months of age and pregnant women



RUSFs are fortified with micronutrients and contain essential acids and proteins to ensure nutritional needs



Supplementary food is designed for community-level feeding



Ceralyte 50 Rehydration Solution

CCeralyte restores blood volume, glucose, and electrolytes in case of dehydration for any reason (heat exhaustion, and diarrhea).

Oral rehydration solutions (ORS) have been used for many years to support more efficient rehydration. While most ORS are glucose-based, the introduction of rice-based ORS has shown improved rehydration in studies.

Rice is a starch or fiber that contains long-chained carbohydrates rather than simple sugars. Rice-based ORS help heal inflammation in the gastrointestinal tract and resorb salts and water more quickly, based on clinical studies.

The Ceralyte Rice-based Oral Rehydration Solution is effective and safe for pregnant women and babies.

Learn more here.







Highly effective, fast energy absorption to maintain hydration and plasma volume



Corrects electrolyte deficiencies and reduces diarrhea



Rice-based ORS products superior to glucose-based ones for energy and fluid absorption

MUAC Tape Arm Circumference

6.2% of children are malnourished globally, defined as "children under age 5 whose weight for age is more than two standard deviations below the median for the international reference population ages 0-59 months." (WHO).

The MUAC bracelet (Mid-Upper Arm Circumference) is a durable, sterilizable bracelet to measure degree of malnutrition in mothers and in children.

The simple rugged measuring device can determine whether an adolescent or child has severe or moderate malnutrition levels in order to determine next clinical steps.

Learn more here.





Child version and adolescent version



Meets updated UNICEF standard



Wipeable for easy sterilization





Rapid diagnostic tests, also known as point-of-care tests can quickly detect specific diseases without the need for a large laboratory.

In the past, diagnosing infections may have required sending blood samples to laboratories, with a long wait time for results. These tests were expensive and not widely available. With rapid diagnostics, faster and cheaper results can be obtained from a drop of blood, urine or saliva.

We distribute scalable technologies and innovative health solutions that effectively improve health in developing nations. Oftentimes, the earlier an infection is diagnosed, the more likely it is to be successfully managed or even cured.

These tests were specially designed for use in low-resource settings and remote areas with limited access to specialized laboratory equipment.

Our rapid diagnostic tests are reliable, accurate, and inexpensive, with minimal training required.





Medmira Tests Rapid Diagnostics

Medmira and Maternova have combined decades of experience and expertise in rapid diagnostic tests. The tests are rapid, flow-through diagnostic immunoassays developed to simplify testing procedures, eliminate the need for expensive equipment and highly trained personnel, and decrease turnaround time.

Targeting HIV 1 and 2, Hepatitis B and C, and Syphilis, are the three WHO prequalified and CE-marked combination tests offered.

The tests allow point-of-care testing by community health workers and frontline providers with high sensitivity and specificity, speeding the detection of diseases and appropriate treatment.

These tests are not yet available for sale in the United States.





HIV 1 / HIV 2 Rapid Test

- Antibody-capture immunochromatographic assay
- Can be used with blood, serum, or plasma samples
- Results ready in less than 3 minutes
- Minimum order: 500 tests
- Learn more



HIV 1, Syphilis Antibody Test

- Antibody-capture immunochromatographic assay
- Can be used with blood, serum, or plasma samples
- Results ready in less than 3 minutes
- Minimum order: 1,000 tests
- Learn more



Hepatitis B, Hepatitis C, HIV Test

- Double sandwich immunochromatographic assay
- Can be used with serum or plasma samples
- Results ready in less than 3 minutes
- Minimum order: 1,000 tests
- Learn more



Rapid Tests Pregnancy & Preeclampsia

Pregnancy tests are critical to empowering women for making their own health choices. The late recognition of pregnancy has been shown to be associated with poor birth outcomes, like premature birth, low birth weight, and NICU admissions.

If pregnant, women are advised to access antenatal care, which tests for hypertensive disorders like preeclampsia. The PrCr Preeclampsia test is able to detect potential preeclampsia indicators, which allows for timely treatment that can save women's life.

Both tests use urine samples and are easy to administer at the point of care.





Pregnancy Test (hCG)

- Antigen-capture immunochromatographic assay
- Can be used with serum or urine samples
- Results ready in 10 minutes
- Learn more



PrCr Preeclampsia Test

- "Spot-check" is a faster way to assess preeclampsia
- Measured in a 24-hour urine sample
- Learn more



Rapid Tests Water Safety

Clean, safe water is crucial for the health of mothers and children. Access to clean water during pregnancy and lactation is essential for ensuring optimal maternal and child health outcomes and avoiding adverse outcomes such as preterm birth, low birth weight, and infant mortality.

E. coli is a type of fecal coliform bacteria and its presence in water can cause severe, life-threatening illnesses.

Detection of e coli in drinking water or bathing water can prevent deaths.

Schistosomiasis is a disease that affects children and women of reproductive age, and is highly prevalent in communities that lack adequate safe water or sanitation. Maternova's urine-based test is an improvement over current methods to test for schistosomiasis.





E. coli Water Test

- Low-cost and easy-to-use kit for water testing
- Quick color-based results in 20-60 minutes
- Learn more





Schistosomiasis Rapid Test

- Detects active infection of schistosomiasis when a lab or microscopic detection is out of reach
- Results ready in 20 minutes
- Learn more



Rapid Tests Sepsis Detection

Sepsis is one of the three leading causes of death and morbidity around the time of childbirth. Sepsis is defined as a multi-organ inflammatory response due to bacterial infection.

Having rapid markers of sepsis is an important research and diagnostic tool for the women's health community and beyond. Procalcitonin concentration is an important indicator of severity of the disease, and can be used as an aid in the diagnosis and treatment of severe bacterial infections and sepsis.

Newborn sepsis is often overlooked.

Group B Strep is passed vertically from mother to newborn if not treated or prevented and is a major cause of neonatal sepsis. Maternova offers a new culture method to detect the presence of Group B Strep in the antenatal period.





Procalcitonin Rapid Test

- Antigen-capture immunochromatographic assay
- Comes with reference card on concentration of PCT
- Results ready in 30 minutes
- Learn more





Group B Strep Test

- Combines collection, culture, result and microscopic observation in one IVD device
- Results ready in 24-48 hours
- Learn more



Culture Testing

Culture tests are important for identifying the specific microorganism causing an infection and determining the most effective treatment.

Human trichomoniasis is a sexually transmitted infection (STI) caused by Trichomonas Vaginalis (TV) and the most prevalent non-viral sexually transmitted infection globally. InPouch allows for user-friendly and convenient early microscopic detection by culture confirmation of T. Vaginalis.

Urinary tract infections are common but, left undiagnosed, a UTI can progress to sepsis, or severe infection. Our unique cassettes allow a urinary tract or stool sample to be cultured, grown and looked at under a 100x microscope, all on the same device.





Trichomoniasis Vaginalis (InPouch) Rapid Test

- Cost-effective and easy to use
- Reduces exposure to collected sample
- Results ready in 5 days
- Learn more





UTI Rapid Culture Test

- The sample grows in 18-24 hours with red color indicating E. coli and other colors, other strains
- Results ready in 18-24 hours
- Learn more



Visit our website for more information on each product <u>here</u>.

For any questions, reach out to info@maternova.net

To place an order, visit our website or write to orders@maternova.net

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10 Davol Square, Providence RI 02903, United States

+1 401-282-9161

