



Gynaecology & Paediatrics



Accessibility for the public to the Emergency Management System, to adequate radio space for providers to communicate with each other in spite of disaster, communications is the epitome of EMS.



Department of Celebrations

DEPARTMENT OF
GYNAECOLOGY & OBSTETRICS



Virinchi Hospitals, Virinchi Circle, Road #1, Banjara Hills, Hyderabad-500 034, India.

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Dr. Mandira Singh

M.S. (OBG), D.G.O., D.N.B., FICMCH
 Infertility Specialist & Laparoscopic Surgeon
 Director, Obstetrics & Gynaecology

Dr. Mandira Singh M.S.(OBG) DGO, D.N.B. (OBG), FICMCH is Director of Obstetrics and Gynaecology Department, Virinchi Hospitals. She is an Infertility Specialist and Laparoscopic Surgeon with an overall experience of 29 years in the field of Obstetrics and Gynaecology.

Prior to Virinchi Hospitals, she worked as Sr. Consultant in Obstetrics and Gynaecology Department at Medwin Hospitals for 21 long years and headed the department. She was also associated with Care Hospitals (Musheerabad) and Olive Hospitals (Toli Chowki) as Sr. Consultant Obstetrics and Gynaecology department.

Dr. Mandira Singh passed her under graduate training from Patna Medical College in 1987. She continued her junior and senior house surgeon-ship for six months respectively and passed Diploma in Obstetrics and Gynaecology department from same college by the year 1990. In the same year, she cleared Diploma of National Board in Obstetrics and Gynaecology in single attempt. By 1993, she completed her MS in Obstetrics and Gynaecology from Patna Medical College.

Later in 1994, she was conferred with Fellowship in Indian College of Maternal and Child Health (FICMCH). She got trained in Minimal Invasive procedures (Laparoscopic Surgeries), Infertility and Intrauterine Insemination (IUI) from eminent doctors. During her entire career, she managed many high risk pregnancies like pregnancies with cardiac disease, liver disorder, HIV, SLE, etc. and had given a successful outcome to many patients. Apart from these surgeries, she also performed many laparoscopic surgeries, management of ectopic pregnancies, ovarian cyst, PCOD drilling, laparoscopic tubectomies and laparoscopic hysterectomies.

She attended and participated in multiple national and international conferences and workshops. Minimal Invasive Surgeries, Vaginal Surgeries, High Risk Pregnancies and Infertility Management are her fields of interest.

FOREWORD

The department of Obstetrics and Gynaecology is committed to provide world-class care to women from all age groups. The spectrum of services span from general care to complex gynaecological surgical procedures. Our obstetrical care includes management of both routine and high-risk pregnancy cases, prenatal diagnosis and treatment. The gynaecological care includes diagnosis & treatment for all disorders of the female reproductive system.

We also offer advanced techniques in diagnosing and treating the gynaecologic conditions. We use advanced techniques including laparoscopic surgery, gynaecologic and obstetric ultrasound, and gynaec cancer surgeries.



Dr. P.S. Sudha
MBBS, MD, DGO
**Sr. Consultant Obstetrics &
Gynaecology Laparoscopic Surgeon**

Dr Sudha is a Senior Consultant in the Department of Obstetrics and Gynaecology at Virinchi Hospitals. She has overall 18 years' experience in the field of obstetrics and gynaecology including nine years' experience in laparoscopy and infertility. Prior to joining Virinchi Hospitals, she worked as Consultant Obstetrician and Gynaecologist at Bristle Cone Hospitals, Kirloskar Hospitals, Sumachandra Hospitals and Kamineni Hospitals. She has hands-on experience in advanced laparoscopic surgery.

She performed several total laparoscopic hysterectomies, myomectomies, and obstetrics & gynaecological ultrasounds including follicular monitoring in patients on ovulation induction. In addition, she has done quite a large number of laparoscopic post-partum sterilizations. Her areas of interest include gynaecologic laparoscopy and high-risk pregnancies. She presented papers at national and international conferences. According to Dr Sudha robotics is changing the way in which laparoscopy is performed.



Dr. Sridevi Gutta
MS (Obstetrics & Gynaecology), Fellow - Gynaecology (GCRI),
Pain & Palliative Care (GCRI)
Consultant Gynaecologist, Pain & Palliative Care Specialist

Dr. Sridevi Gutta is a Gynaecologic oncologist, in the Departments of Gynaecology & obstetrics. Prior to joining Virinchi Hospitals, she worked as a Senior Resident in MNJ Cancer Hospital, Hyderabad and as an Asst. Professor at Akash Medical College, Bangalore. She is among the panel of doctors for Durgabai Deshmukh Hospital and Research Centre, Hyderabad.

She is an accomplished and astute professional with over 10 years of versatile exposure and demonstrated hands on experience in all aspects of obstetrics and gynecology and gynaec-oncology. Having significant exposure in obstetrics and gynaecology and gynaec-oncology management, she is capable of managing all kinds of obstetrics and high risk pregnancies and infertility cases including emergencies, surgical managements, forceps/vacuum deliveries and MTP's, medical and surgical management of ectopic pregnancies. As a part of her practice, she conducts health camps, cancer screening programs and counselling programs on a regular basis. She manages terminally ill cancer patients by effective pain management and palliative care. Her research focus is mainly gynecologic cancers and their treatment. Her areas of interest include high risk pregnancies, gynecologic oncology, fertility-sparing surgery, cervical cancer, uterine/ endometrial cancer, ovarian cancer, vaginal cancer, vulvar cancer, developmental therapeutics, advanced-stage gynecologic cancer and gestational trophoblastic disease.



MAMMOGRAPHY

UNIQUE FEATURES

- More precise & provides excellent image quality with faster exams
- Requires less efforts and is more comfortable to patients
- Keeps exposure to a minimum with dose-saving features
- Uses technology that reduces dose upto 30% without compromising on image quality
- Reduce variation between operators and examinations and the risk of patient movement with OpComp
- Synthetic visualization of tomosynthesis volumes in both 2D and 3D
- Efficient workflow
- Achieves optimal image quality with breast thickness and Automatic Exposure Control (AEC) measurements
- Increases patient throughput with features like iso-centric rotation and fully motorized system movements

THERAPEUTIC APPLICATIONS

- Breast cancer
- Ductal carcinoma
- Tumors in breast



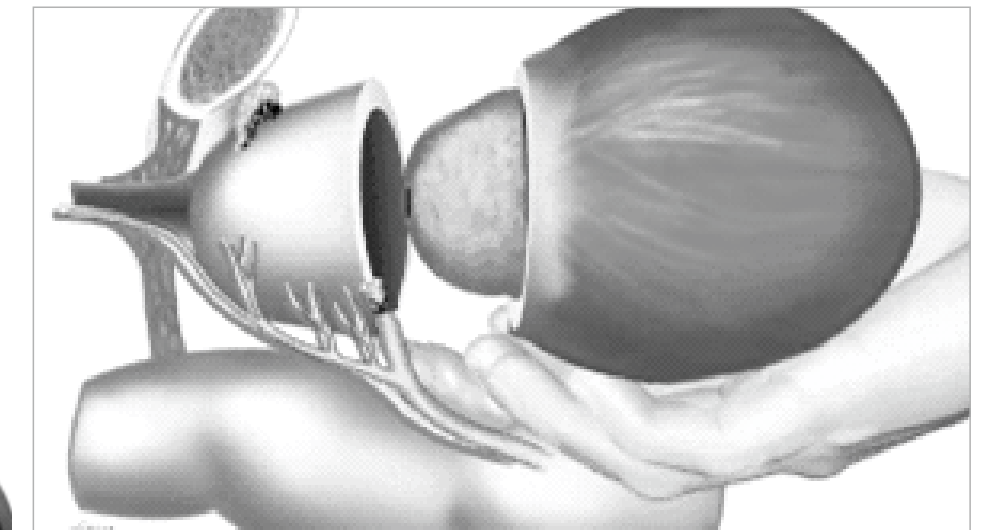
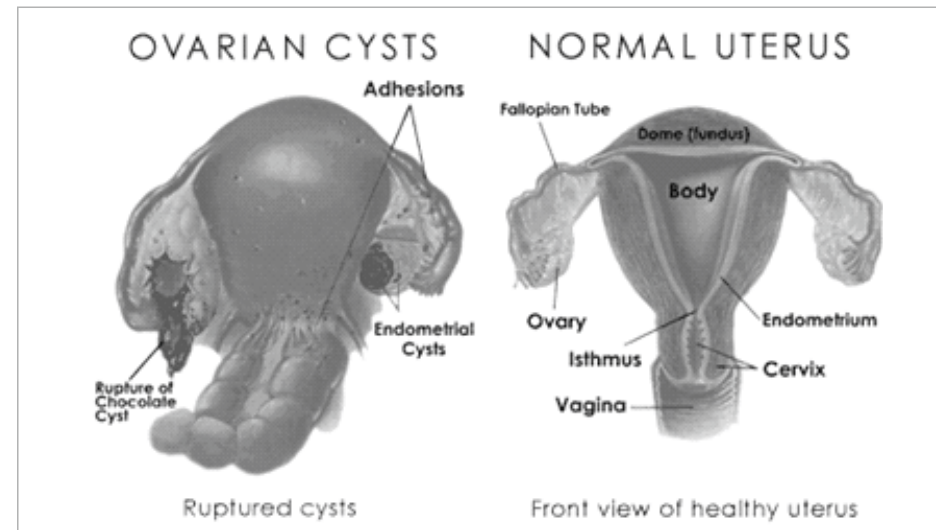
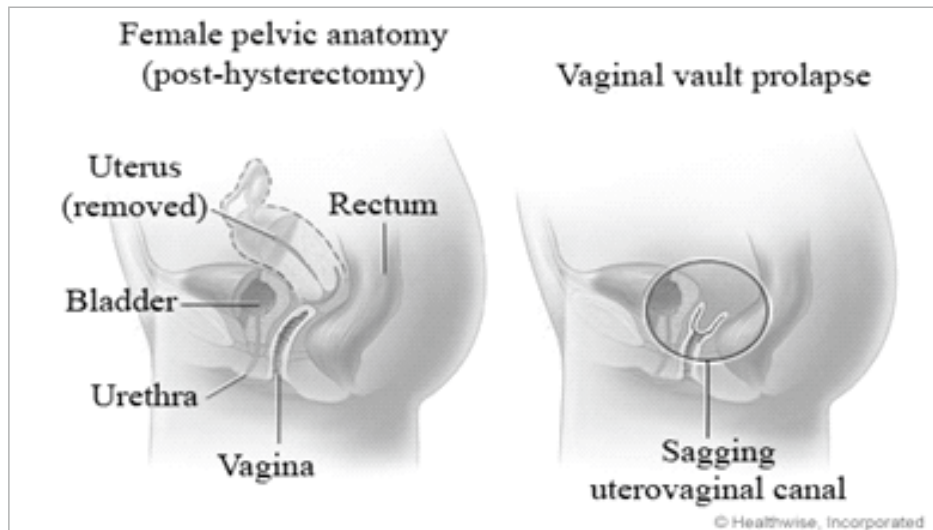
ULTRASOUND

UNIQUE FEATURES

- It is modular, reliable and comes with remote monitoring
- Automatically adjust to optimize the transducer for specific exam type producing excellent image quality with little or no image adjustment
- Allows to scan a wide range of technically difficult patients
- More definitive clinical information about tissue stiffness
- Dynamic organ and tumor assessment in real time
- Auto doppler for vascular imaging

THERAPEUTIC APPLICATIONS

- Endometriosis
- Leiomyoma
- Adenomyosis
- Ovarian cysts and lesions
- Pelvic organs
- ectopic pregnancy



- Abnormal bleeding
- Cancer
- Cervical Cerclage
- Chronic Pelvic Pain
- Contraception options
- Cystocele
- Ectopic Pregnancy
- Endometriosis
- Fecal Incontinence/Accidental Bowel Leakage (ABL)
- Female sexuality issues
- Fertility and reproductive services
- Fibroids
- Fistulas
- Gynecologic Oncology
- High-risk obstetrics
- Irregular Menstruation (heavy bleeding, prolonged periods)

- Lower genital tract dysplasia
- Menopause
- Ovarian cysts
- Ovarian transposition
- Pelvic floor dysfunction
- Pelvic inflammatory disease
- Pelvic heaviness or fullness
- Precancerous conditions of cervix and early cervical cancers

- Pregnancy and Flu
- Pregnancy Care
- Premenstrual Syndrome (PMS)
- Urinary incontinence
- Urinary tract infections
- Urine leakage
- Urogynecological services
- Uterine prolapse
- Uterine, vaginal and vulvar disorders

- Vaginal vault prolapse
- Vaginal yeast infections
- Vulvodynia
- Warts and premalignant lesions of the lower reproductive tract

Best protection is early detection



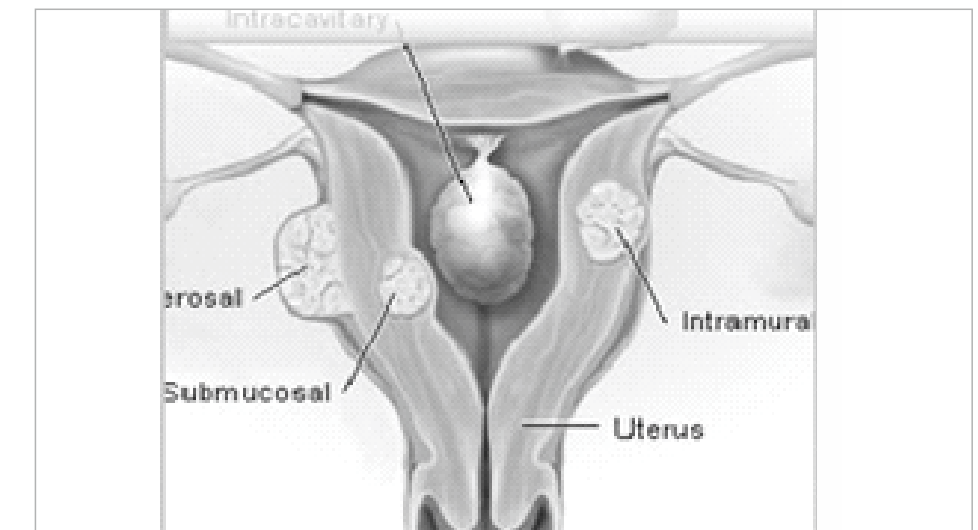
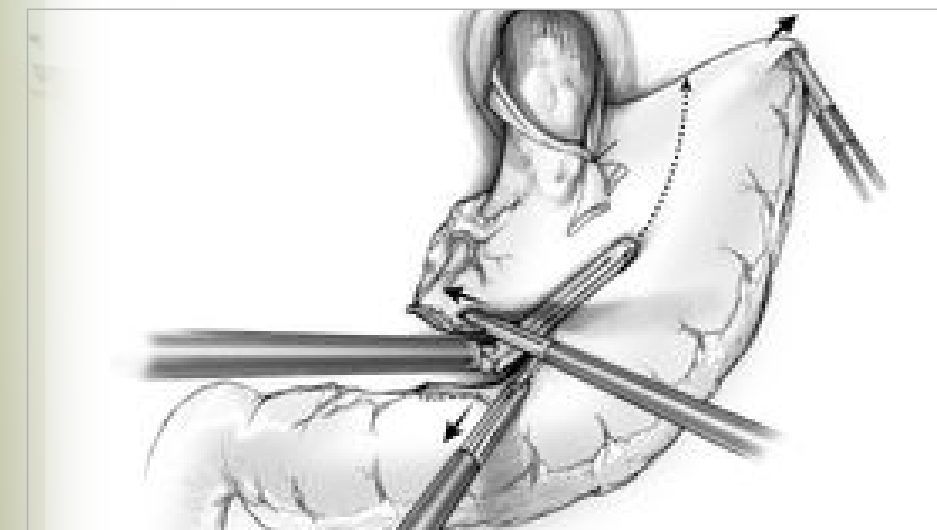
OFFICE HYSTEROSCOPY

UNIQUE FEATURES

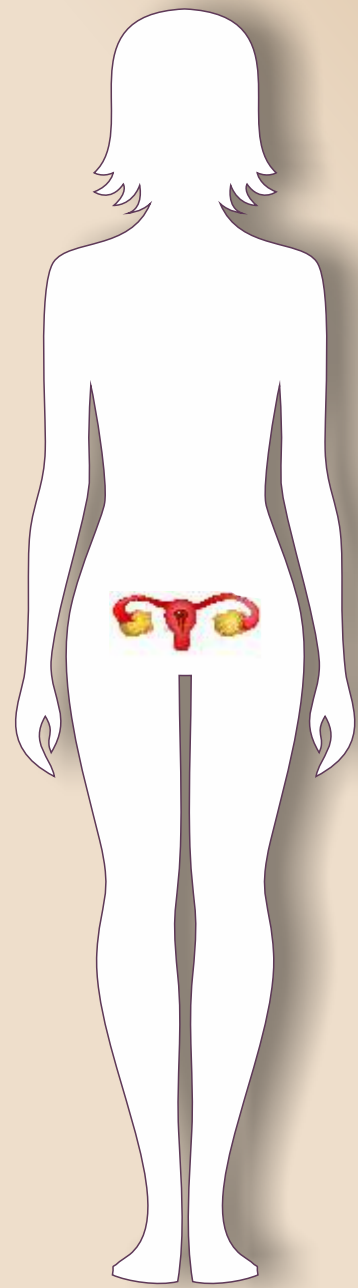
- Brilliant imaging
- Atraumatic insertion in the cervical canal possible without dilation and anaesthesia due to very small outer diameter
- Intraoperative changeover from single-flow to continuous flow

THERAPEUTIC APPLICATIONS

- Asherman's syndrome
- Endometrial polyp
- Abnormal uterine bleeding
- Adenomyosis
- Endometrial ablation



- Cancer screening & staging
- Cystectomy
- General obstetric and gynecologic care
- General Physicals
- Immunizations & Injections
- Infertility evaluation & Treatment
- Irregular Menstruation
- Laparoscopic oophorectomy
- Laparoscopic supracervical hysterectomy
- Laparoscopy
- Lymph node debulking & dissection
- Lymphadenectomy or sentinel lymph node biopsy
- Maternal-Fetal Medicine
- Menopause treatment
- Midlife care
- Minimally invasive surgery
- Miscarriage
- Myomectomy (laparoscopic and hysteroscopic)
- Non-incisional sterilization for permanent contraception (Essure)
- On-site imaging services including MRI, CT and ultrasound
- Oophorectomy / salpingo-oophorectomy
- Radical trachelectomy
- Reproductive Surgeries
- Robotic Hysterectomy
- Sexually transmitted diseases
- Simple or radical hysterectomy
- Supracervical total hysterectomy
- Tension-free vaginal taping/Vaginal vault suspension



BIOCHEMICAL



ELECTROPHYSIOLOGICAL



HISTOPATHOLOGICAL



ANATOMICAL



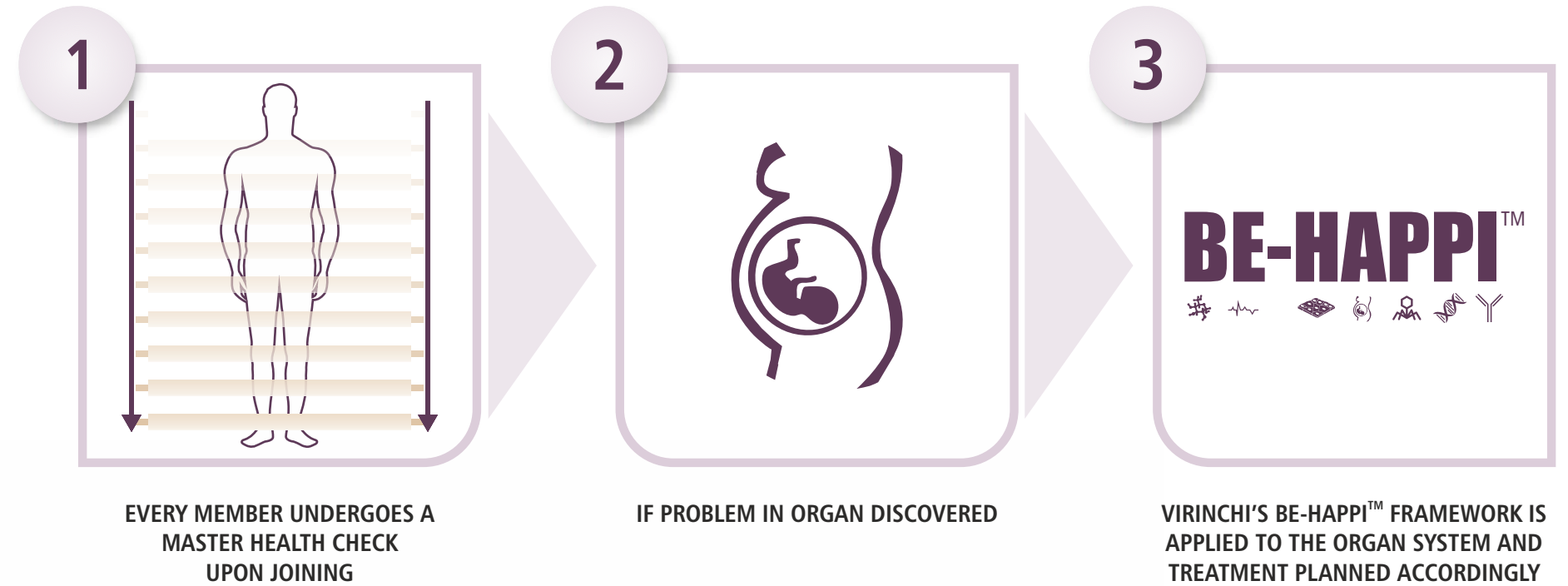
PATHOGEN SCREENING



PHENOTYPIC & GENETIC



IMMUNOLOGICAL



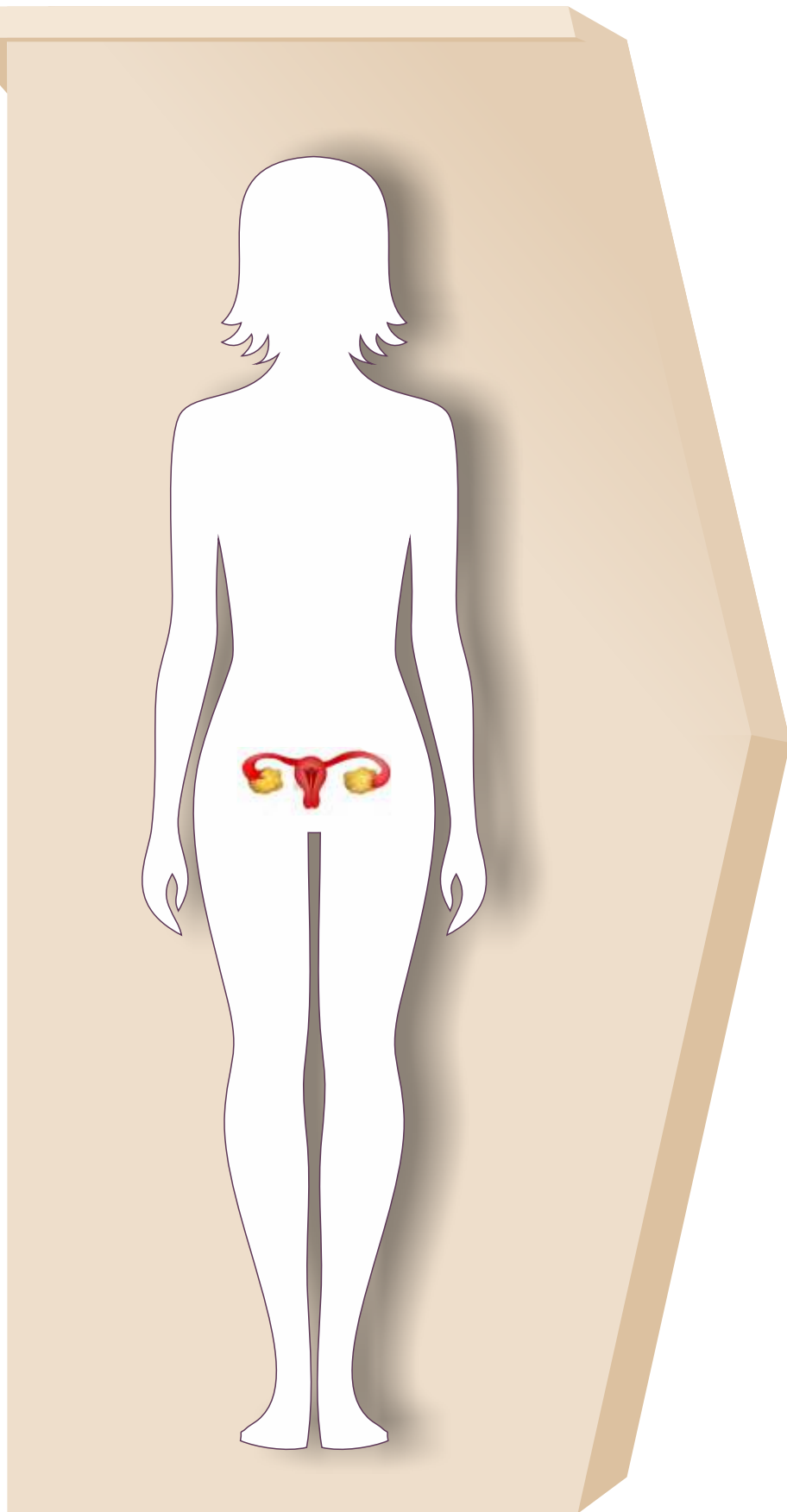
Biomarkers are biological indicators that provide us with a means of understanding the relationship between measurable biological processes and clinical outcomes for evaluating health and wellness. Further, the study of biomarkers enables us to devise treatment options for all disorders and diseases since they enhance our understanding on physiology and anatomy of an individual.

Proper functioning of every organ and system in our body is essential for us to live a healthy and good quality of life as we progress through various phases of our life. Any deviation from performing one function may result in disordered physiological processes and will be associated with either symptomatic or asymptomatic disorder. If the disorder is manifested in the form of symptoms and signs, then it can be identified accurately with the help of specific diagnostics tests. However, asymptomatic disorders that typically do not show any clinical symptoms and signs could gradually lead to secondary complications affecting one or multiple systems that may be difficult to understand and treat.

Therefore it is very essential to understand the health of all the organs and systems of our body irrespective of respective/overall disorderliness with or without any symptoms in order to understand thoroughly whether any function is impaired or progressing towards impairment with the help of comprehensive diagnostic tests. Virinchi's proprietary BE-HAPPI™ evaluates the health status of every organ and organ system from a biochemical, electrophysiological, histological and cytological, anatomical, pathogenic, phenotypic and genotypic, immunological perspectives. The influences of these factors on biomarker levels also indicate disorder's onset and/or its progression either as an independent or comorbid consequence.

With advanced and sophisticated technology housed in world-class infrastructure, and strong rooting in evidence-based medicine, Virinchi is well-positioned to undertake this comprehensive analysis to derive accurate and predictable diagnosis, thus enabling its physicians to devise individual-specific predictive, preventive and reactive therapies and interventions.

VIRINCHI'S PROPRIETARY BE-HAPPI™ DIAGNOSTICS FRAMEWORK



BIOCHEMICAL



Many of the biological molecules including nucleic acids, proteins, lipids, fats and naturally occurring small chemicals that are formed due to metabolic and physiological activities serves as important contributors to understand the health of every organ and system in our body; and also help us to evaluate the nature and degree of disorderliness across systems and organs with the help of analytical, cytological, histochemical and immunological methodologies.

PARAMETERS TESTED @ VIRINCHI

17-OHP 17 hydroxy progesterone, Activin, Alanine Amino Transferase (ALT), Albumin, Albumin/Globulin Ratio, Alkaline Phosphatase (ALP), Androgen, Androstenedione, Anti ZO-1, Anti-beta catenin, Anti-E-cadherin, ARF panel, Aspartate Amino Transferase (AST), Basophils, Bikunin, Bilirubin, Biogenic amines, Blood Type (ABO Grouping & RHO Typing), BUN (Blood Urea Nitrogen), BUN/Creatinine Ratio, Calcium, Cancer Antigen (CA) 15-3 Blood Test, Cancer antigen 125 (CA125), Carbon Dioxide, Casts, CBC with Differential Blood Test, Cervical mucus tests/ Post coital test (PCT), Chloride, Cholesterol, c-Jun N-terminal kinase (JNK), Cleavage fragment of H4 (inter-a-trypsin inhibitor heavy chain), Comprehensive Metabolic Panel (CMP), C-Reactive Protein High Sensitivity (CRP HS), Creatinine, CRP, Crystals, D-dimer, DHEAS, Diglycerides, EGFR (epidermal growth factor receptor), Eosinophils, Epithelial Cells, Estimated Glomerular Filtration Rate (eGFR), Estradiol, Estrogen, Female Hormone Panel, Follicle-stimulating hormone (FSH), FOLR1 (folate receptor alpha), Free fatty acids, Free Testosterone, Free Thyroxine (T4) Index, GH-Growth hormone, Globulin, Glucose, Glucose transporter-4 (GLUT4), Glutathione peroxidase (GPx), Glutathione-S-transferase (GST), Gonadotropin-releasing hormone (GnRH), Granulocyte colony-stimulating factor (G-CSF), Granulocyte-macrophage colony-stimulating factor(GM-CSF), Haptoglobin-a (HP-a), H-cadherin, Hematocrit, Hemoglobin, High density lipoproteins(HDL), Human epididymis protein 4 (HE4), Human prostatic (PRSS8), Hydrogen peroxide (H2O2), Hypermethylated Death-Associated Protein Kinase (DAPK), Hypoxia-induced factor-1 (HIF-1), iFOBT, IL12p70, IL1b, IL-6, IL-6r, Inhibin, Insulin growth factor binding protein (IGFBP-1), Insulin receptor (InsR), Insulin receptor substrate 2 (IRS2), Insulin-like growth factor 2 (IGF2), Interleukin 8 (IL8), Ketones, Lactate, Lactate dehydrogenase A (LDHA), LH-human chorionic gonadotropin (hCG), Lipid Panel Blood Test, Lipophilic organochlorine, Low-Density Lipoprotein (LDL), Luteinizing hormone (LH), Luteinizing hormone/chorionic gonadotropin receptor (LHCGR), Lymphocytes, Macrophage colony-stimulating factor(M-CSF), Macrophage inhibitory factor (MIF), Malondialdehyde (MDA), MCI, Mean Corpuscular Hemoglobin Concentration (MCHC), Mean Corpuscular Volume (MCV), Melatonin (N-acetyl-5-methoxytryptamine), Mesothelin, Metalloproteinase-8 (MMP-8), Metformin, MMP9, Monocytes, Monoglycerides, Mucus, N1-acetyl-5-methoxytryptamine (AMK), N1-acetyl-N2-formyl-5-methoxytryptamine (AFMK), Neutrophils, Nicotinamide adenine dinucleotide phosphate oxidase system (Nox), Nitrite, Nuclear factor kappa B (NF- κ B), Occult Blood, Osteopontin, OVX1, Phalloidin-TRITC, Phosphatidyl inositol 3-kinase (PI3K), Phosphodiesterase D4 (PDE4D4), Phospholipids, Platelet Count, Potassium, Pregnenolone, Progesterone, Protein kinase B, Protein Total, Quantitative hCG blood testing, Red Blood Cell Count (RBC), Red Cell Distribution Width (RDW), Rhodopsin, Serum lysophosphatidic acid (LPA), Sex hormone-binding globulin (SHBG), Sodium, Steroidogenic cytochrome P450 enzymes, Stromal cell-derived factor 1 (SDF-1), T3 Uptake, T4, Testosterone, TG triglycerides, Thyroid Stimulating Hormone (TSH), Transthyretin (TTR), Urobilinogen, Very Low-Density Lipoprotein (VLDL), Vitamin D 25-Hydroxy Blood Test, White Blood Cell Count (WBC), YKL-40

ELECTROPHYSIOLOGICAL



Electrodiagnostic biomarkers provide information on electrical activity (action potential) due to native or altered electrophysiology of cells and tissue or their response towards electrical stimuli (evoked potential). Typically, electrocardiography (ECG), electroencephalography (EEG), and electromyography (EMG) are employed to measure the electrical activity values and help to diagnose, evaluate, and treat the individual with impairments of the neurologic or neuromuscular or muscular systems.

PARAMETERS TESTED @ VIRINCHI

Frontal EEG theta/beta ratio-ADHD disorder; Intra-uterine pressure-Electrohyterography; Pelvic floor muscle contraction-perineometer

HISTOPATHOLOGICAL



Cytopathology and Histopathology observations of cells and tissue allow the understanding of gross structural, physiological and molecular changes at the cell and tissue level respectively. These microscopic observations with grading and staging are vital to understand the response of cells to due to external stimuli or DNA level changes which either might result into a transient change or pathological consequence requiring suitable surgical or medical or radiological therapy.

PARAMETERS TESTED @ VIRINCHI

Calretinin, Cytokeratin 5, Cytokeratin 6, Cytokeratin-14, Cytokeratins 17, Degree of tubule formation-in breast cancer, Mitotic count -in breast cancer, Nuclear pleomorphism-in breast cancer, p-cadherin, Topoisomerase II alpha

ANATOMICAL



Imaging techniques offer sensitive and precise visualization and also digitization of anatomical features of organs and systems of the body. It helps the patient or individual to undergo a gamut of pain free investigations, non-invasively. And these biomarkers can be measured using either radiological or non-radiological modalities such as, X-ray, CT, Ultrasonography, Electroencephalography, Magnetoencephalography, and Magnetic Resonance Imaging in order to provide us with either qualitative or quantitative measure of the anatomical features and physiological processes such as blood flow.

PARAMETERS TESTED @ VIRINCHI

Apparent coefficient diffusion of pelvic region, AUCs for invasion of the bladder, rectum and pelvis, Cervical consistency index, Oxygenation, perfusion and tissue physiology of the tumour microstructure, Sagittal T2 image of Cervix, Volumetric bone mineral bone density

PATHOGEN SCREENING



Pathogen screening helps to find out either presence or absence of all the relevant pathogenic microorganisms including - bacteria, fungi, viruses, mycoplasma and protozoans. This identification process allows the healthcare provider with specific information on every possible mode that can be implemented towards prevention, treatment and eradication. It also allows the physician to decide pathogen specific medication in suitable dosage and form for effective and safe elimination without causing any adverse effects to the affected patient.

PARAMETERS TESTED @ VIRINCHI

Chlamydia and Gonorrhea testing, Chlamydia trachomatis, Cytomegalovirus, Gardnerella vaginalis, Haemophilus ducreyi, Herpesvirus, HIV retrovirus, Myco plasma hominis, Neisseria gonorrhoeae, Papillomaviruses (Papovaviruses), Treponema pallidum, Trichomonas vaginalis, Urea plasma urealyticum, Varicella-zoster virus(VZV)

PHENOTYPIC & GENETIC



Changes brought about to the DNA, RNA and their respective derivatives due to germline or somatic mutations influence an individual's overall existence and susceptibility or resistance towards a wide variety of disease causing infectious agents. Understanding the underlying molecular details with the help of advanced/next generation sequencing technologies provides insights into either devising a therapeutic or corrective intervention.

PARAMETERS TESTED @ VIRINCHI

ABCG2 multidrug transporter, Activator protein-1 (AP-1), AKT1, ALDH1 (Aldehyde Dehydrogenase 1), ALMS genes, APC, Apolipoprotein A-1 (apoA-1), ARID1A (the AT-rich interactive domain 1A), BBS genes, BORIS, BRAF, BRIP1, Cacna 1f mutations, Catalase (CAT), CD14, CDH1, CDK12, CDKN2A, CHEK2, CLDN4, CRB1 mutations, CSMD3, CTNBN1 (beta-catenin), CYP19A1, CYP39A1, DICER1, EBP, E-selectin, FAT3, FBN1, FOXD4L4, FOXL2, GABRA6, Glutathione S-Transferase Polymorphisms (GSTM1), Glutathione S-Transferase Polymorphisms (GSTP1), Glutathione S-Transferase Polymorphisms (GSTT1), Growth arrest-specific 6 (Gas6), GTF2A1, HAAO, High mobility group AT-hook 2 (HMGA2), Homeobox A10 gene (HOXA10), HOXA9, HOXA11, ICAM-1, Kallikrein (KLK), KHSRP, KRAS, MAL, MLH1, MRE11A, MSH2, MSH2, mtDNA mutations, NF1, NFAT5, Nibrin(NBN), NPHP genes, OAT gene, OPCML, p14ARF, p15, p16, PALB2, PARK2, Pentraxin 3 (PTX3), PIK3CA, PMS2, RAB, RAD, RAD50, RAD51C, Rad51D, RAN, RANTEX, RAP Ras-related protein Rab-5B (RAB5B), RB1, RHEB, RHO, RUNX3, SDF-1 SNP 801G/A, SFRP5, SNGG (synucelin- β); encoding an activator of the MAPK and Elk-1 signaling cascades, SNP -463G/A, STK11, Synaptotagmin 1 (SYT1), TFP12, USH1G gene

IMMUNOLOGICAL



The immunologic Biomarkers provide insights into the body's response towards cancer, infectious diseases, immunization, immunodeficiency, allergies, asthma, autoimmunity, and others. These features can be studied from variety of biological specimens by using highly advanced and high throughput immune assay systems. And these biomarkers also help to understand the extent of disease progression and probability of positive prognosis for a wide range of diseases.

PARAMETERS TESTED @ VIRINCHI

Chicken Pox Titers, Hepatitis A Total (IgM - IgG), Hepatitis B Immunity Test, Hepatitis B Surface Antibody, Hepatitis C Antibody, Herpes 1&2 IgG Abs, HIV 1/2 Antigen/Antibody, IgM Serum, MMR Antibodies, Syphilis RPR, Varicella Zoster Virus Antibodies IgG

ENDOMETRIAL ABLATION SYSTEM

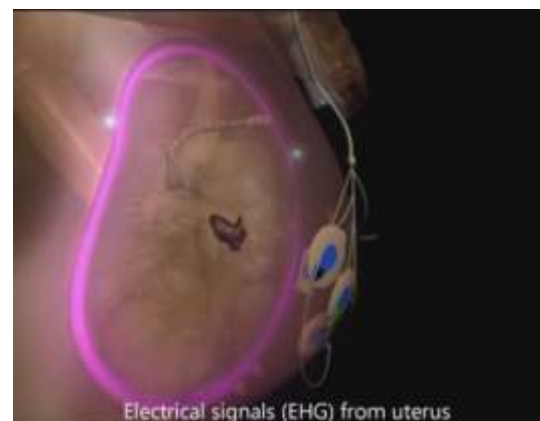


- Intended to ablate the endometrial lining of the uterus in pre-menopausal women with menorrhagia (excessive bleeding) due to benign causes for whom childbearing is complete
- A bipolar radio frequency system that uses high voltage radio frequency (RF) electrical current to ionize argon gas that is fully contained and circulated within a sealed silicone membrane of the Plasma Formation Array (PFA)
- The argon plasma heats the interior surface of the silicone membrane. This energy, in the form of heat, is conducted through the silicone membrane to the tissue in contact with the membrane

IMPROVED INTRAPARTUM MONITORING FOR FETAL MONITORING



- The small wearable device with innovative labour and delivery monitoring solution
- It is used with an interface device allowing it to be used with installed L&D monitor with an FSE option



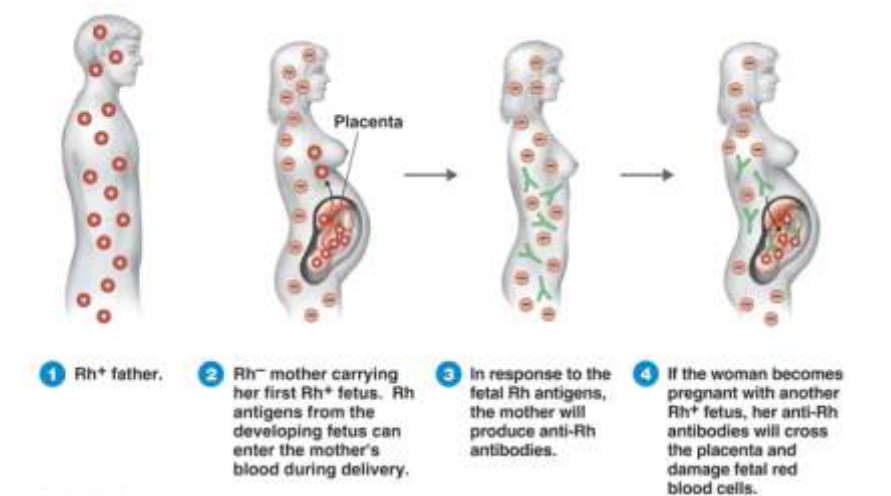
COMPACT ULTRASOUND SYSTEM

- New transducer technologies deliver a powerhouse combination of features to meet the demands of point-of-care and general imaging applications
- Supports a wide range of applications including abdominal, OB/GYN, MSK, vascular, cardiac, nerve, pediatric and small parts
- Incorporates Innovative Imaging Technologies like Tissue adaptive B-mode imaging, Adaptive Doppler imaging, Harmonic imaging, Speckle reduction imaging, Spatial compound imaging, Panoramic Imaging, Needle visualization



IMMUNE GLOBULIN INTRAVENOUS

- An anti-D product that is indicated for the suppression of Rh isoimmunization in non-sensitized Rh0 (D)-negative patients and for the treatment of immune thrombocytopenic purpura (ITP) in Rh0 (D)- positive patients

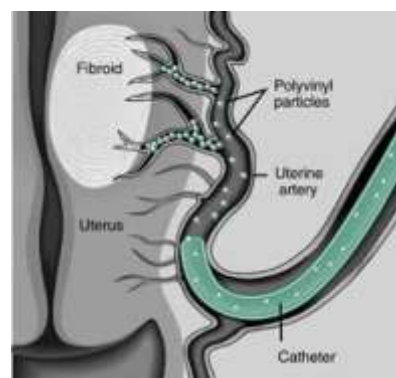
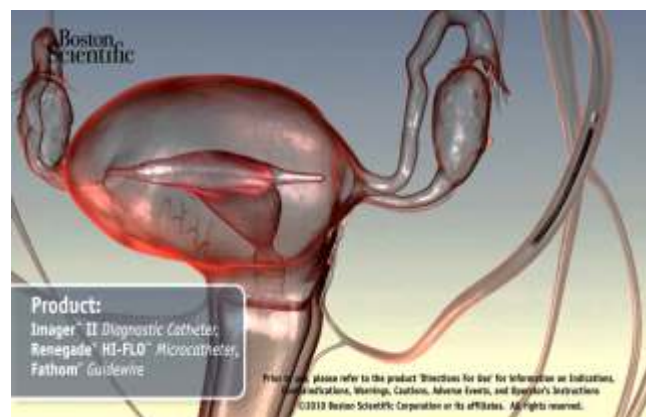


ANTI-GRAVITY SUITS TO HANDLE PPH IN WOMEN



- Suits that astronauts wear while on space missions can also be used to help the internal bleeding in mothers who have recently given birth
- The G-suit is used to apply external pressure to the entire lower portion of a woman's body so that the bleeding is reduced, long enough for her body's natural healing processes to take over
- In 2012 WHO and the International Federation of Gynecologists and Obstetricians officially recognized the G-suit as a safe way to handle PPH in women

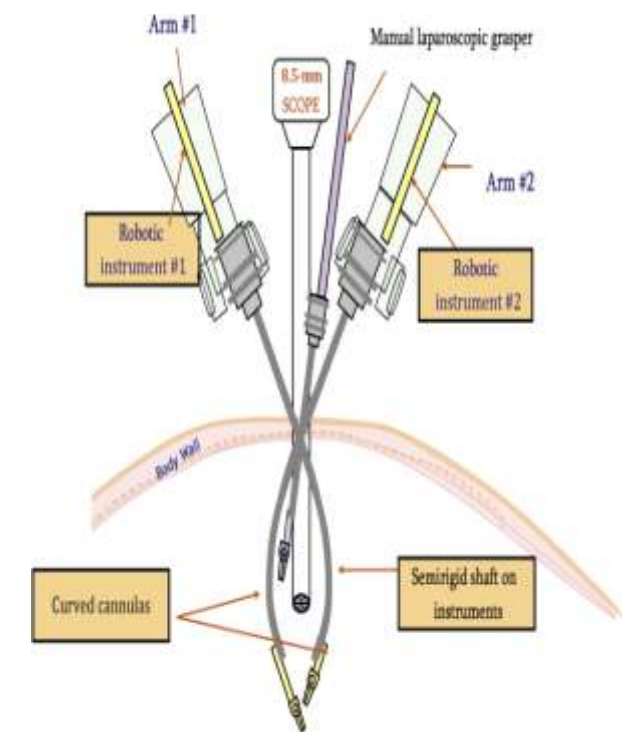
UTERINE FIBROID EMBOLIZATION (UFE)



- Proven to be successful in significantly decreasing or eliminating fibroid related symptoms of bleeding, pressure and pain in women with uterine fibroids
- Minimally-invasive alternative to surgery used to treat women who are having symptoms from fibroids
- Effective alternative to surgery and hormonal treatment
- Minimal hospital stay
- Quick return to normal activities
- Preserves the uterus, cervix and ovaries
- Significant improvement in quality of life

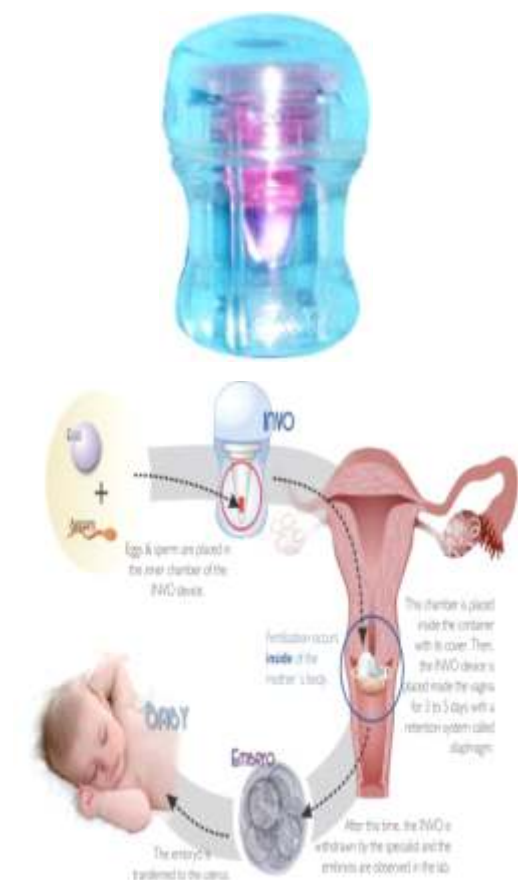
LESS and NOTES

- Laparoendoscopic single-site surgery (LESS) and Natural Orifice Transluminal Endoscopy Surgery (NOTES) allow doctors to perform surgeries with minimum cutting and virtually no scars
- Pain levels and recovery times are significantly reduced with these scarless surgeries, allowing patients to return home and resume daily activities much more quickly



THE INVO CELL

- A small capsule that is used in infertility treatment, for the incubation of eggs and sperm for embryo development
- Utilizes the women's vagina as a natural incubator to support embryo development
- Offers patients a more personal approach to achieving pregnancy, decreases the risk of multiple births and reduces the chance for creating unused embryos
- Allows conception and embryo development to take place inside the mother's body, thereby having a baby simpler and less expensive, while promoting more involvement by the woman



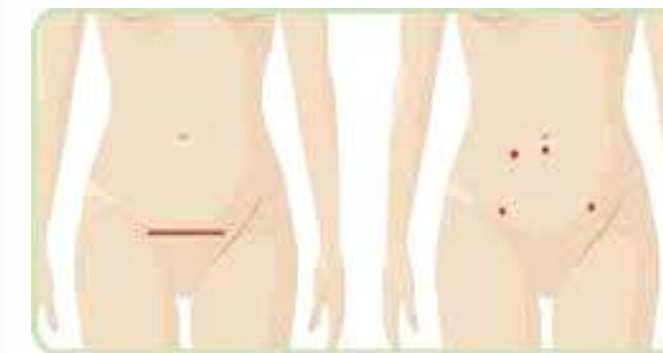
From embryo to their first cries,
we are with you all the way



ROBOTIC MYOMECTOMY

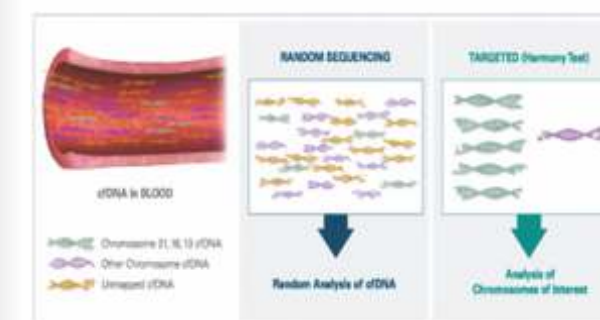


- Remove uterine fibroids through small incisions with unmatched precision and control, Robot-assisted surgery allows for superior visualization of the fibroids and the surrounding tissues with an improved ability to suture the uterus—resulting in less overall blood loss during the procedure compared to open or laparoscopic surgery

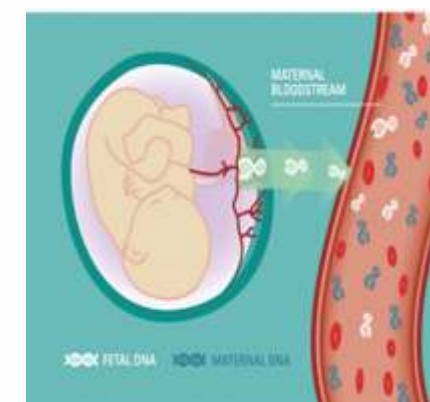


Open Surgery Incision da Vinci Myomectomy Incisions

PRENATAL TEST



- A blood screening test for trisomies 21 (Down syndrome), 18, and 13 chromosomes that delivers accurate results from as early as 10 weeks of pregnancy
- Relies on a proprietary targeted DNA-based technology (DANSRTM and FORTETM) to provide exceptionally accurate results



Your baby is our first attention

DEPARTMENT OF PAEDIATRICS



FOREWORD

Paediatrics & Paediatric Surgery department at Virinchi Hospitals provides comprehensive care to infants, children, adolescents and young adults suffering from a wide range of congenital and acquired conditions that need simplest of medication, management, minimally invasive to complex-open surgeries.

The department operates 24-hours a day and includes diagnostics, consultation, management and follow-up care managed by a highly-experienced team of paediatric physicians, surgeons, nurses and other relevant paediatric specialists. The Services are sufficiently reinforced with the participation of immensely skilled anaesthetists, intensivists, nursing and supporting staff.

Our division works collaboratively with other allied disciplines including Anaesthesiology, Critical Care Medicine, Gastroenterology, Neonatology, Oncology, Pulmonology, General Paediatrics, Adolescent Medicine and Emergency Medicine and closely with the family of the affected child to design personalised plan of surgery & treatment, which is most suitable to overcome the condition and unique circumstances.



Virinchi Hospitals, Virinchi Circle, Road #1, Banjara Hills, Hyderabad-500 034, India.

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Dr. Mohammed Nayaz Ahmed
 M.B.B.S., D.C.H.
 Sr. Consultant Paediatrician

Dr. M. Nayaz Ahmed is Sr. Consultant in the department of Paediatrics at Virinchi Hospitals. He is one of the senior most doctors in Virinchi Hospitals. He has an overall experience of 32 years in this field. Dr. Nayaz began his professional career way back in 1985 as a specialist in Paediatrics in a hospital in Saudi Arabia. He continued in the same role for another five and a half years in Saudi.

Dr. Nayaz later joined King Fahad Hospital as Resident in Paediatrics and Neonatology for a short period of time. Haematology, Endocrinology and Neonatology were his specialty clinics. He moved from Saudi Arabia to Edinburgh (U.K.) and joined Victoria General Hospital Kircklady as Senior House Officer in the department of Paediatrics. He worked in Edinburgh from 1996 to 1998 and then flew down to India, where he joined Medwin Hospitals as Senior Registrar in Paediatrics. From 2009-2017 before joining Virinchi Hospitals, Dr. Nayaz has worked with many hospitals in Hyderabad; being the Sr. Consultant Paediatrician he was responsible for Paediatrics and Neonatal cases. Fernandez, Medwin, Lotus and Nice are few of those hospitals.

Dr. Nayaz completed his M.B.B.S in 1976 from Osmania Medical College and D.C.H from National University of Ireland.



Dr. K. Vamshi Krishna
 M.D. (Paediatrics)
 Sr. Consultant Paediatrician

Dr. Vamshi Krishna is a Sr. Consultant Paediatrician at Virinchi Hospitals in the department of Paediatrics with an the overall experience of 19 years in this field. He began his professional career as Neonatal Registrar at Krishna Children's Hospital, Hyderabad in 2003. Later, he moved to Abhaya BBC Children's Hospital as Neonatal Registrar and managed to work as part-time consultant in various other hospitals in Hyderabad during 2004-2009. He also worked in couple of Hospitals outside India, as Consultant in the department of Paediatrics. By mid 2009, Dr. Vamshi moved to the United States as Director of Research at North Valley Nephrology for a year.

In 2010, he shifted his base to India and worked as Director and Consultant in the department of Paediatrics at Venus Hospital. At the same time he managed to run Venus Mother & Child Hospital.

He under graduated from J J Medical Medical College and post graduated in M.D. from M.R. Medical College, Karnataka. Apart from these, Dr. Vamshi has also volunteered and participated in many community activities.

NEONATAL INTENSIVE CARE UNIT INCUBATOR



UNIQUE FEATURES

- Embedded with a cascade control algorithm, that is able to minimize a baby's temperature swings as well as provide uninterrupted uniform heat during the transition from incubator to warmer
- Minimizes stressful touches by reducing the need to move or reposition the baby through one-touch canopy lift
- Manages sounds through adjustable alarm settings, hands free alarm silence, a low noise fan and a hood cover, which helps to dampen external noise
- With a large canopy surface, x-ray tray and radiolucent mattress it makes it easy to take digital x-ray images without disturbing the baby

THERAPEUTIC APPLICATIONS

- Premature and Extreme Low Birth-Weight
- Perinatal Asphyxia
- Major Birth Defects
- Sepsis
- Neonatal Jaundice
- Infant Respiratory Distress Syndrome

PHOTOTHERAPY

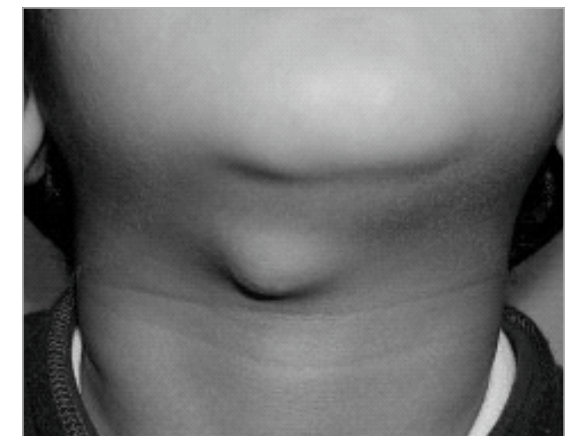
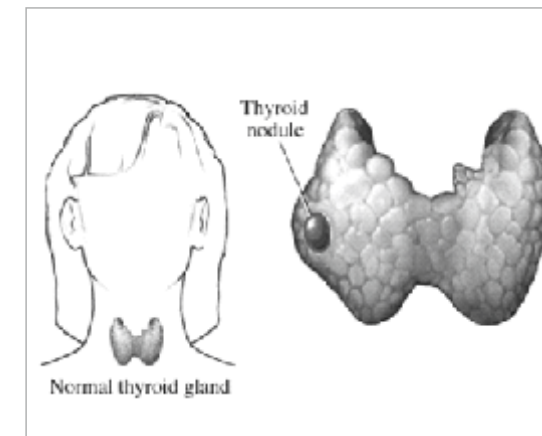
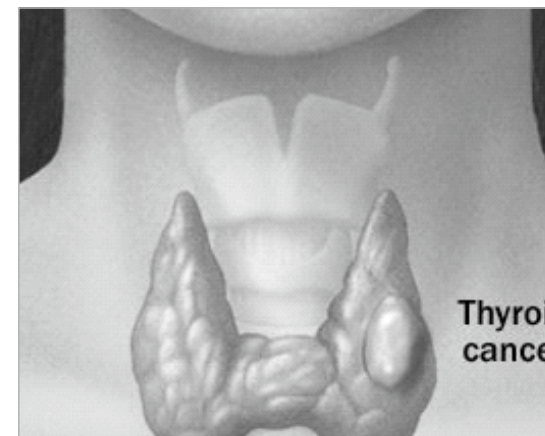
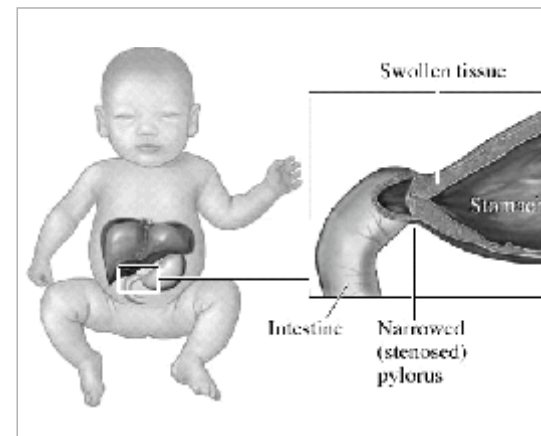
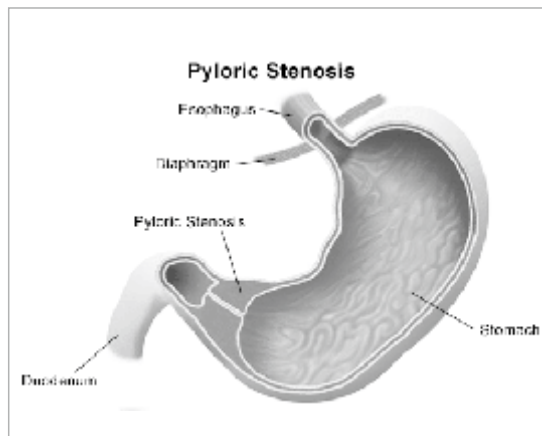


UNIQUE FEATURES

- Heavy duty mobile stand with high irradiance phototherapy unit
- Fire retardant enclosure for light source
- Dual digital cumulative hour timer for tubes usage and patient exposure
- Light weight detachable unit can be incorporated along with infant care trolley, radiant warmer

THERAPEUTIC APPLICATIONS

- Severe hyper bilirubinemia
- Bilirubin-induced neurologic dysfunction (BIND)



- Achalasia
- Ambiguous Genitalia
- Annular Pancreas
- Anorectal Malformation
- Appendicitis
- Biliary Atresia
- Branchial Cysts, Sinuses and Remnants
- Breast Problems (congenital conditions to neonatal infections)

- Bronchogenic cyst
- Chest (Mediastinal) Cysts
- Chest Wall Deformities (Pectus Carinatum Pectus Excavatum)
- Cholecystitis Acalculous
- Choledochal Cyst
- Cholelithiasis (Gallstones)
- Congenital cystic adenomatoid malformation
- Congenital Diaphragmatic Hernia (CDH)
- Congenital tracheal stenosis

- Conjoined Twins
- Crohn's Disease
- Cystic Hygroma
- Empyema
- Epididymitis and Orchitis
- Esophageal Atresia & Tracheoesophageal Fistula

- Gallbladder problems
- Gastroesophageal reflux (GERD)
- Gastroschisis
- Hepatoblastoma
- Hernia
- Hirschsprung's Disease
- Hydrocele
- Hyperinsulinism
- Imperforate anus
- Inguinal and Scrotal Disorders

- Inguinal Hernia
- Intestinal Failure (Short Gut syndrome)
- Intussusception
- Lumps & Cysts
- Lung abscess & tumors
- Lesions
- Malrotation and Volvulus
- Meckel's Diverticulum
- Meconium Ileus
- Neonatal Grave's disease

- Neck Abnormalities
- Necrotizing Enterocolitis (NEC)
- Neuroblastoma
- Obesity
- Omphalocele

MAJOR CONDITIONS TREATED

Little things mean a lot



UNIQUE FEATURES

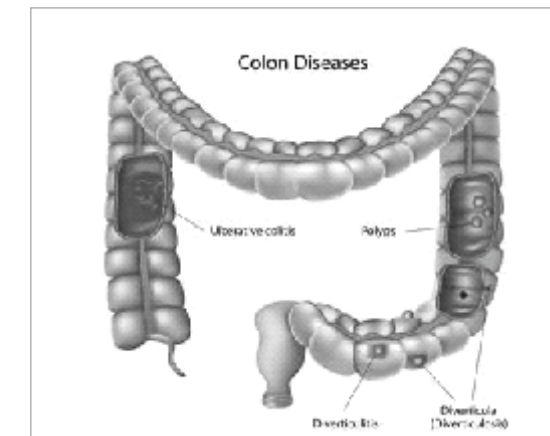
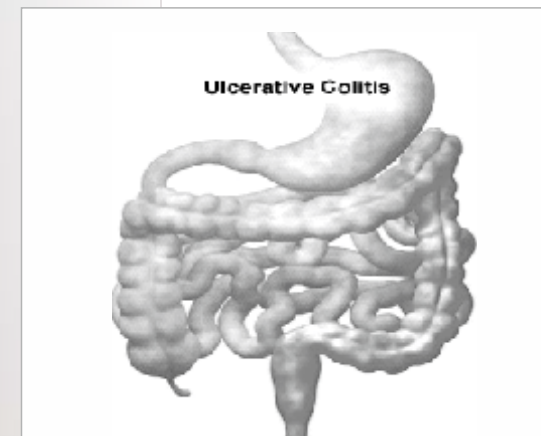
WARMER



- Monitoring of skin temperature by means of sensor, range: 30 to 42°C
- Heat is evenly distributed via the heater, which is optimized for bed size and walls of warmth ensure that no heat spills over
- Temperature range – skin: 34 to 38°C (user pre-settable) air: room temperature to 39°C
- Display indicates system errors, sensor failure, alarm and visual message on LCD for high/low, over/under temperature for skin and air, heater failure, power control device failure

THERAPEUTIC APPLICATIONS

- Maintain the Body Temperature of the Baby
- Limit the Metabolism Rate

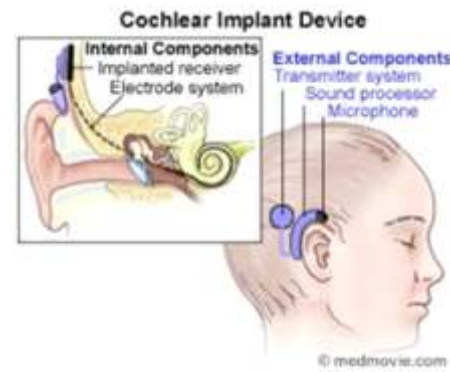


- Pancreas Divisum
- Pancreatic Tumors
- Pancreatitis
- Pediatric Cancer
- Perirectal Abscess
- Pulmonary emphysema (congenital)
- Pulmonary sequestration
- Pyloric Stenosis
- Reproductive disorders
- Short Bowel Syndrome

- Solid Chest (Mediastina) Tumors
- Spleen disorders
- Testicular Torsion
- Thyroglossal Duct Cysts and Sinuses
- Thyroid Cancer
- Thyroid Ectopic
- Thyroiditis
- Torticollis
- Tracheomalacia
- Ulcerative Colitis

- Umbilical Granuloma/Polyp
- Umbilical Hernia
- Umbilical Infection (omphalitis)
- Undescended Testicle
- Wilms' Tumor

EAR SOUND PROCESSOR



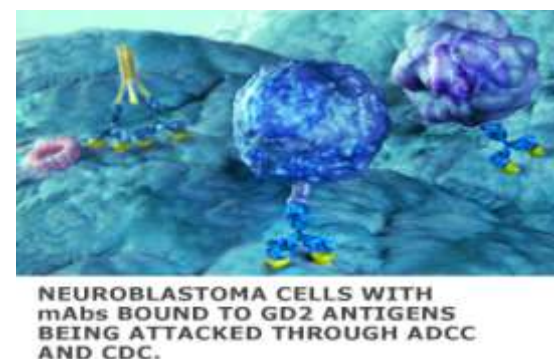
- The sound processor provides unique, groundbreaking features that help you to effortlessly hear better in any environment
- The processors analyzes and automatically adapts to the sound around you so you hear your best wherever you



ANTI-GD2 BINDING MONOCLONAL ANTIBODY THERAPY

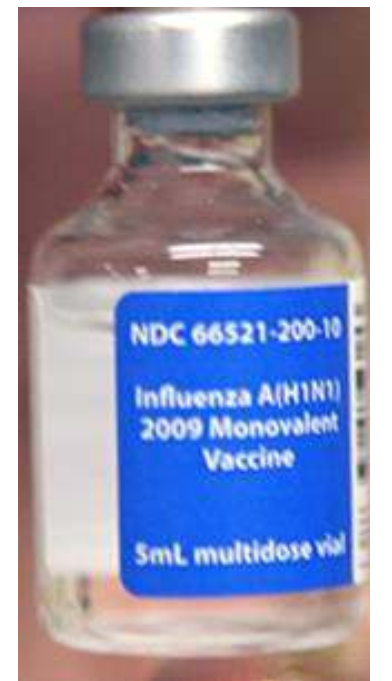


- Anti-GD2 binding monoclonal antibody therapy for pediatric patients with high-risk neuroblastoma, a type of cancer that most often occurs in young children
- Dinutuximab binds to the glycolipid GD2. This glycolipid is expressed on neuroblastoma cells and on normal cells of neuroectodermal origin, including the central nervous system and peripheral nerves
- Dinutuximab binds to cell surface GD2 and induces cell lysis of GD2-expressing cells through ADCC and CDC



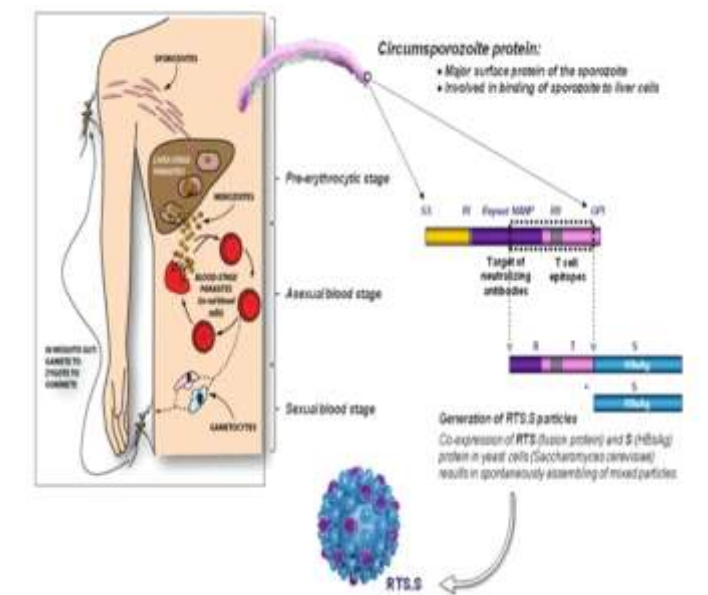
LIVE ATTENUATED INFLUENZA VACCINE

- Nasal drops containing live attenuated virus can be used as a vaccine in lieu of needles, and provide effective protection from influenza for this high-risk population
- As of the 2015/2016 flu season, the CDC recommends that children ages 2-8 years old receive this nasal spray flu vaccine over the flu shot as it was found to prevent 50% more cases in younger children

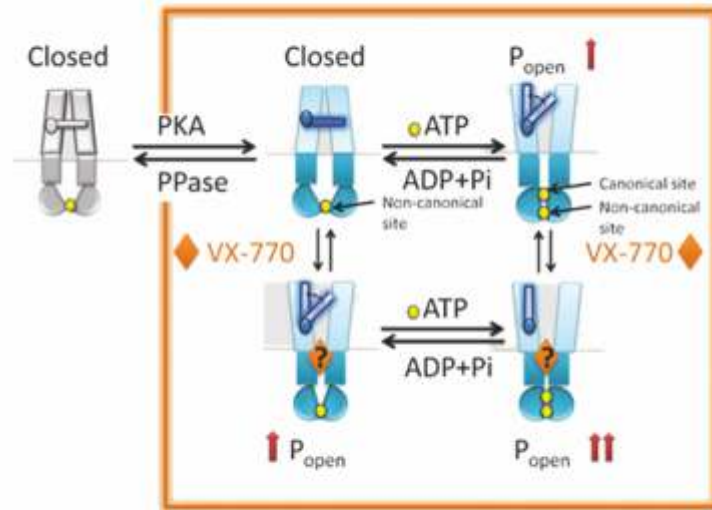


FIRST-EVER MALARIA VACCINE

- RTS,S is the first malaria vaccine to have completed pivotal Phase 3 testing and obtained a positive scientific opinion by a stringent medicines regulatory authority
- RTS,S is a vaccine against Plasmodium falciparum, the most deadly malaria parasite globally



IVACAFTOR



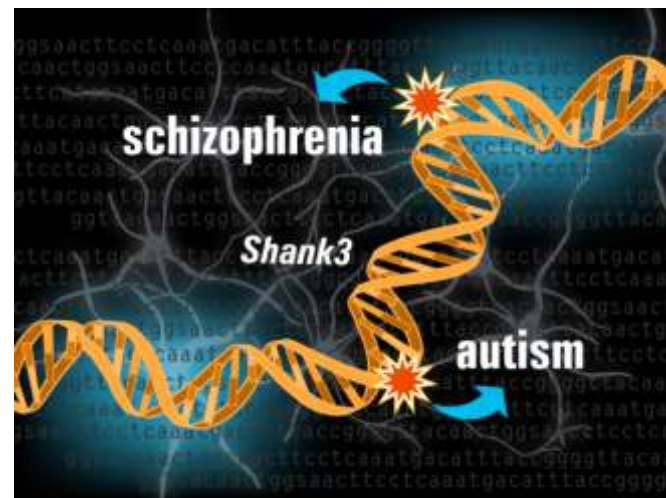
- Ivacaftor a drug used to treat cystic fibrosis (CF) in children who have one of 10 mutations in the cystic fibrosis trans membrane conductance regulator (CFTR) gene (G551D, G1244E, G1349D, G178R, G551S, S1251N, S1255P, S549N, S549R and R117H)

PAEDIATRIC ROBOTIC UROLOGICAL SURGERY

- Robotic-assisted surgery (da Vinci Surgical System) is the newest and most exciting technique in minimally invasive surgery
- Traditional minimally invasive surgeries present some technical limitations for the surgeon. Working with the robotic surgery system gives the surgeon better dexterity, precision and visibility in performing complex surgeries
- The most common urologic applications for robotic surgery are for ureteropelvic junction obstruction (UPJ), bladder augmentation, appendicovesicostomy and ureteral procedures
- Robotic surgery for these and other procedures have proven to give similar results as in open surgery, but with the advantage of smaller incisions and significantly shorter recovery time



REVERSING AUTISM 'AT THE FLICK OF A SWITCH'



- Autism is a complex spectrum of disorders caused by numerous underlying factors, but around one per cent of cases are caused by a missing gene called Shank3
- This gene is critical in the early development of the brain and, when missing, leads to many of the symptoms associated with autism spectrum disorders, including problems with social interactions and repetitive behaviours
- Researchers found that in mice lacking the gene, switching it back on later in life could reverse some of the autism-like behaviours in the animals
- Shank3 produces a protein which plays a role in helping brain cells communicate with each other and helps organize other cells in the brain