Quicker Recovery

ROTATOR CUFF SURGERY

Solution To Repair Torn Tendon In The Shoulder

"It's been a year since the Rotator Cuff Surgery was performed on my shoulder... I have never ever felt better ! Am very fine now"

- A Patient from Kolkata

Patient Guide



12,000+ Patients Treated Successfully



Dr.Santosh Kumar MBBS, D.Ortho, M.Ch.[Ortho], Specialist Orthopaedic Surgeon



POORVA ORTHOPAEDIC FOUNDATION

About Dr.Santosh Kumar



MBBS (JIPMER), D.ORTH (JIPMER); MCh ORTH (SCYCHELLS) Head : Department of Computer Assisted Joint Replacement Surgery : BELLE VUE CLINIC

JOINT REPLACEMENT SURGEON, ARTHRITIS FOUNDATION,INDIA Subspecialty- Knee Joint- Total Knee Replacement, Knee Arthroscopy. Fellowship in Joint Replacement, Max Hospital, New Delhi TRAINED IN COMPUTER ASSISTED JOINT REPLACEMENT FROM AUSTRIA Trained in Revision Knee and Hip Replacements Trained in Complex Joint Replacement from the DELTA FOUNDATION of AUSTRALIA

INTRODUCTION

Dr Santosh Kumar and his team are leading knee specialists in Kolkata. He is one of the best doctors in Knee replacement today. Knee replacements are routine in Kolkata (Calcutta) today and Dr Santosh Kumar has been instrumental in making international quality knee surgery affordable to the mass.

HE HAS EXPERIENCE OF MORE THAN TWO THOUSAND KNEE REPLACEMENTS



GRADUATION

MBBS – from Jawaharlal Institute of Post Graduate Medical Education and Research (JIPMER, Pondichery) Directorate General of health Services, Govt. of India from 1995 to 2001.

HOUSE JOB in Department of Orthopedics, JIPMER from April 2001 to June 2002.

POST GRADUATION

D Orth from Jawaharlal Institute of Post Graduate Medical Education and Research (JIPMER, Pondichery) Directorate General of health Services, Govt of India from 1st April to 31st March 2005.

BONE BANK JIPMER

In charge bone bank JIPMER from April 2004 to March 2005. TRAUMA COURSE online of ADVANCED TRAUMA LIFE SUPPORT at CMC Vellore January 2005. Clinical Research Fellow in Orthopaedic Oncology at JIPMER Hospital from April 2005 to June 2005.

REDISTRAR ORTHOPEDICS

Whole time registrar in Orthopaedics at Bhattacharyya Orthopaedics and Related Research Center (P) Ltd., Narayanpur, Kolkata – 136 from 1st July 2005 to 31st June 2007.

MCh ORTH

Passed MCh ORTH from the University of Seychelles American Institute of Medicine, March 13th 2008.

MCh Thesis : a study into the controversial aspects of interlocking nail of femur.

TRAINING

DELTA COURSE for advanced aspects of complex primary and REVISION knee replacement. At MAX Hospital , New Delhi in Sept, 2008.

FELLOWSHIP in KNEE REPLACEMENT in Max Hospital, New Delhi from Sept, 2008 with Dr. S.K.S. Marya for total of 54 knee replacement surgeries.

AO SPINE Training in Bombay July 2009.

AO TRAUMA Training 8th to 10th Oct, 2009, Kanpur

DELTA COURSE for Advanced Aspects of Complex Primary and Revision Knee Replacement, at SUN SHINE Hospital, Hyderabad in Nov, 2009.

Ranawat joint replacement course in Jan 2010 Kolkata

Trained in complex joint replacements, at Bangkok. Jan 2011 by DEPUY institute at Bangkok Trained in revision joint replacements by DE PUY institute at Chennai, June 2011.

Medtronics Academy course in cervical spine in October 2011

Trained in computer assisted knee replacement at Fortis Chandigarh in Jan 2012 AO advanced trauma course in March 2012 at Kolkata

TRAINING [continued]...

Trained in complex joint replacements in USA , PHOENIX, by KLEOS foundation (Smith and Nephew educational body) April 2012

Trained in minimally invasive spine surgery by Medtronics Academy foundation May 2012 Trained in computer assisted navigation technology for knee replacement in Vienna Austria. in June 2012.

PAPERS PUBLISHED / PRESENTED

Bilateral fracture dislocation of Hip, pipkin 1 – its management and the result – published in the West Bengal journal of orthopaedics – vol 20, number 2, September 2006, myself as Primary author.

The role of total hip replacement in ankylosing spondylitis patients – under consideration for publication in the Indian journal of orthopaedics.

OPPONENSPLASTY – a method to reconstruct the post polio paralytic thumb – presented at the midcon 2005, West Bengal Orthopaedic Association.

Follow up of 24 total hip replacements in ankylosing spondylitis patients presented at the annul conference of the West Bengal Orthopedics Association 2006.

AWARDS RECEIVED :

Dr.Santosh Kumar received Certificate of International Excellence in Minimally Invasive Computer Assisted Joint Replacement Surgery by the ASCULAP ACADEMY, Germany





Titles

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- 2. Actions of Rotator Cuff
- 3. What is a Rotator Cuff Tear?
- 4. Non Traumatic & Traumatic
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SECTION A



Muscles of Rotator Cuff

The rotator cuff is composed of four muscles, the subscapularis, the supraspinatus, the infraspinatus and the teres minor. From separate origins at the posterior (supraspinatus, infraspinatus and teres minor) and anterior (subscapularis) surfaces of the scapula.

They Fuse together with the articular capsule into a common insertion on the tuberosities of the humerus, which is known as the footprint of the rotator cuff.



Rotator Cuff Muscles

Actions of Rotator Cuff

Rotator cuff acts as a mechanical couple in conjunction with Deltoid in shoulder rotation & elevation.



Important functions:

- Counterbalance the upward pull of the deltoid on the humerus.
- Hold the head of the humerus secure in the glenoid.
- Externally rotate the shoulder which is important during arm elevation.



Functions of Rotator Cuff Muscles

The rotator cuff muscles are important in shoulder movements and in maintaining glenohumeral joint (shoulder joint) stability. These muscles arise from the scapula and connect to the head of the humerus, forming a cuff at the shoulder joint. They hold the head of the humerus in the small and shallow glenoid fossa of the scapula. The glenohumeral joint has been analogously described as a golf ball (head of the humerus) sitting on a golf tee (glenoid fossa).



During abduction of the arm, moving it outward and away from the trunk, the rotator cuff compresses the glenohumeral joint, a term known as concavity compression, in order to allow the large deltoid muscle to further elevate the arm. In other words, without the rotator cuff, the humeral head would ride up partially out of the glenoid fossa, lessening the efficiency of the deltoid muscle. The anterior and posterior directions of the glenoid fossa are more susceptible to shear force perturbations as the glenoid fossa is not as deep relative to the superior and inferior directions. The rotator cuff's contributions to concavity compression and stability vary according to their stiffness and the direction of the force they apply upon the joint.

Despite stabilizing the glenohumeral joint and controlling humeral head translation, the rotator cuff muscles also perform multiple functions, including abduction, internal rotation, and external rotation of the shoulder. The infraspinatus and subscapularis have significant roles in scapular plane shoulder abduction (scaption), generating forces that are two to three times greater than the force produced by the supraspinatus muscle. However, the supraspinatus is more effective for general shoulder abduction because of its moment arm. The anterior portion of the supraspinatus tendon is submitted to significantly greater load and stress, and performs its main functional role

What is a Rotator Cuff Tear?

A rotator cuff tear is a common cause of shoulder pain and disability among adults. Normally there are 4 rotator cuff tendons that form a covering over the top of the shoulder. These tendons allow the shoulder to move and rotate. Most tears occur in the supraspinatus tendon, but other parts of the rotator cuff may be involved. Overuse is the most common cause of tears, however a fall or sudden injury can also cause a tear.





Non Traumatic & Traumatic Tear

The etiology of rotator cuff tears can be broadly described as traumatic or atraumatic in nature. Traumatic rotator cuff tears present with sudden weakness within the shoulder following a fall onto the shoulder. Patients between the ages of 40-70 who dislocate their shoulder are at high risk for having sustained a rotator cuff tear.

Chronic inflammation within the shoulder can also lead to rotator cuff tears by causes that are poorly understood. Rotator cuff tears can also be attributed to the normal aging process with age-related degeneration leading to a rotator cuff tear that can become symptomatic.

Traumatic Tear

• High velocity trauma (partial- or full-thickness tears)

Repetitive

microtrauma (overuse, athletic)

Non Traumatic Tear

- Degenerative (Work related: Painters, electrician, etc)
- Subacromial Impingement syndrome
- Developmental Factors : Os acromiale , Type 2 or 3 acromion



Risk Factors

- Working Conditions long hours of computer usage stresses your neck and shoulders
- **Age** directly proportional relationship between age and risk of suffering rotator cuff injuries. Rotator cuff tears most common in people over 40.
- **Exercise** Athletes playing sports involving repetitive motions (racquetball and hockey players) are at a greater risk of an rotator cuff injury
- Working in Construction Carpenters and painters, who also use repetitive motions, have an increased risk of injury.
- Poor Posture can allow nerves, muscles or tendons to become pinched in your shoulder region
- **Previous Injuries** Previous injuries irritate the surrounding joints, nerves and ligaments making them susceptible to pain or restricted movement.



Natural History of Rotator Cuff Tear

Forty percent of patients treated without surgery develop enlargement of the rotator cuff tear over a 5-year period of time.

However, 20% of those will have no symptoms. Therefore, less than half of patients with tears will have enlargement but 80% of patients whose tears enlarge will develop symptoms. Small partial thickness tears may heal without surgery.



Symptoms

Patients with rotator cuff tears will commonly complain of night pain that disrupts sleep, difficulty with overhead activities, difficulty lifting objects or reaching away from the body. Patients may also have difficulty reaching behind their back. Weakness is a common complaint that can be progressive in nature depending upon the severity of the rotator cuff tear and the duration of the tear. Pain with certain movements (overhead activities) can lead to a reluctance to perform these maneuvers and subsequent stiffness.

- Pain around shoulder
- Sleep disturbed by pain
- Weakness during activities of daily living
- Previous trauma
- Time lag before presentation
- Occupation
- Predominant hand

- Pain during racquet sports and activities involving throwing
- Pain when bending the arm and rotating it outwards against resistance
- Pain on the outside of the shoulder and at times radiating down the arm
- Shoulder pain that worsens at night
- Stiffness in the shoulder joint



How are Rotator Cuff Tears Diagnosed?

The three most useful clinical tests are :

- 1. Weakness on external rotation
- 2. Weakness on supraspinatus testing
- 3. A positive impingement sign

Clinical Tests Positive	Age	Chance of Rotator Cuff Tear
All 3	Any	98%
Any 2	>60	98%
None	Any	5%



Physical Examination

- Passive and Active ROM
- Strength of motions
- Supraspinatus : Resisted elevation of arm kept in "empty can" position
- Subscapularis "Lift-off test"
- Infraspinatus : Resisted External Rotation
- Teres minor: Resisted external rotation with arm abducted more than 45°.





Impingement Test

- Hawkin-kennedy test
- Injection test: Very effective test for diagnosis
- Approx 7-10 ml of Xylocaine injected in subacromial bursa
- Wait for 2-3 minutes
- Pain in ROM will be minimal
- D/D between impingement & RC tear





Ultrasonography



Limitations of techniques

Successful use of ultrasound to examine the shoulder depends on the operator, machine, and patient factors. Knowledge of the relevant anatomy and pathologic appearances and experience in performing the technique are required of operators. Machine requirements are discussed above in Preferred Examination.

As in other regions of the body, ultrasonography of the shoulder is limited in obese patients, and views of the tendons are restricted in patients with severely limited range of movement. Ultrasonography cannot be used to directly image the subacromial space, and it provides no information about the inferior surface of the acromioclavicular joint. Ultrasonography can show the contour of bony surfaces, but no information can be obtained beneath the surface. The subacromial space is not accessible, and pathology, including the retracted end of a torn tendon, cannot be shown in this location. Ultrasonography is less sensitive than MRI to intrinsic changes within the tendon in the absence of a tear.



MRI



MRI of the shoulder provides detailed images of structures within the shoulder joint, including bones, tendons, muscles and vessels, from any angle. Magnetic resonance imaging (MRI) is a noninvasive medical test that physicians use to diagnose and treat medical conditions. MRI uses a powerful magnetic field, radio frequency pulses and a computer to produce detailed pictures of organs, soft tissues, bone and virtually all other internal body structures. MRI does not use ionizing radiation (x-rays). Detailed MR images allow physicians to evaluate various parts of the body and determine the presence of certain diseases. The images can then be examined on a computer monitor, transmitted electronically, printed or copied to a CD.



Surgery Options

When Rotator Cuff Surgery is Recommended ?

Your doctor may recommend surgery for a torn rotator cuff if your pain does not improve with nonsurgical methods. Continued pain is the main indication for surgery. If you are very active and use your arms for overhead work or sports, your doctor may also suggest surgery.

Other signs that surgery may be a good option for you include: Your symptoms have lasted 6 to 12 months You have a large tear (more than 3 cm) You have significant weakness and loss of function in your shoulder Your tear was caused by a recent, acute injury

The four major objectives are :

- (1) closure of the cuff defect.
- (2) eliminating impingement.
- (3) preserving the origin of the deltoid muscle.
- (4) preventing adhesions postoperatively without disturbing the repair by a careful exercise program

Surgery Management

Option 1 : Open Surgery

Option 2 : Mini Open Surgery

Option 3 : Arthroscopic Surgery



Open & Mini Open Repair

Open Repair

A traditional open surgical incision (several centimeters long) is often required if the tear is large or complex. The surgeon makes the incision over the shoulder and detaches the shoulder muscle (deltoid) to better see and gain access to the torn tendon.

During an open repair, the surgeon typically removes bone spurs from the underside of the acromion (this procedure is called an acromioplasty). An open repair may be a good option if the tear is large or complex or if additional reconstruction, such as a tendon transfer, is indicated.

Open repair was the first technique used for torn rotator cuffs. Over the years, new technology and improved surgeon experience has led to less invasive procedures.

Mini-Open Repair

The mini-open repair uses newer technology and instruments to perform a repair through a small incision. The incision is typically 3 to 5 cm long.

This technique uses arthroscopy to assess and treat damage to other structures within the joint. Bone spurs, for example, are often removed arthroscopically. This avoids the need to detach the deltoid muscle.

Once the arthroscopic portion of the procedure is completed, the surgeon repairs the rotator cuff through the mini-open incision. During the tendon repair, the surgeon views the shoulder structures directly, rather than through the video monitor.



Arthroscopic Repair



During arthroscopy, your surgeon inserts a small camera, called an arthroscope, into your shoulder joint. The camera displays pictures on a television screen, and your surgeon uses these images to guide miniature surgical instruments.

Because the arthroscope and surgical instruments are thin, your surgeon can use very small incisions (cuts), rather than the larger incision needed for standard, open surgery. Allarthroscopic repair is usually an outpatient procedure and is the least invasive method to repair a torn rotator cuff.



How is the procedure done ?

Joint Inspected

The surgeon inserts a small video camera called an arthroscope through tiny incisions in the shoulder to inspect the damaged joint.

Joint Debrided

The surgeon removes any loose fragments of tendon or other debris from the damaged cuff tendon in the joint. This procedure, called debridement, is usually performed arthroscopically. Afterwards, the surgeon inspects the tissue damage in the joint and determines if more surgery is needed.

Acromion May Be Smoothed

If bone spurs have formed on the bottom of the acromion, the surgeon uses a rasp-like tool to smooth the area. This is called subacromial decompression, or smoothing, and will keep the acromion from pinching down on the supraspinatus tendon. It is usually done arthroscopically.

Rotator Cuff Inspected

If no tear is found in the rotator cuff area, the procedure may end here. If the surgeon finds a torn rotator cuff tendon, the type of repair needed is based on the size and severity of the tear. Small to moderate tears may be repaired arthroscopically. Open surgery may be needed to repair large tears. First, the torn end of the tendon is cleaned up. Next, an area on the humerus is cleared.

Anchors Placed

The surgeon uses a drill or sharp tool to create one or more small holes in the bone. Anchors are then placed into the holes. The anchors hold stitches in place on the arm bone.

Tendon Sutured

The tear in the tendon is stitched together. The sutures are pulled tightly against the anchors, reattaching the tendon to the humerus.



FACILITIES

State of the art Equipments & Advanced Diagnostic & Surgical Facilities are available here







Post Operative Care

Rehabilitation plays a vital role in getting you back to your daily activities. A physical therapy program will help you regain shoulder strength and motion.

Immobilization

After surgery, therapy progresses in stages. At first, the repair needs to be protected while the tendon heals. To keep your arm from moving, you will most likely use a sling and avoid using your arm for the first 4 to 6 weeks. How long you require a sling depends upon the severity of your injury.

Passive Exercise

Even though your tear has been repaired, the muscles around your arm remain weak. Once your surgeon decides it is safe for you to move your arm and shoulder, a therapist will help you with passive exercises to improve range of motion in your shoulder. With passive exercise, your therapist supports your arm and moves it in different positions. In most cases, passive exercise is begun within the first 4 to 6 weeks after surgery.

Active Exercise

After 4 to 6 weeks, you will progress to doing active exercises without the help of your therapist. Moving your muscles on your own will gradually increase your strength and improve your arm control. At 8 to 12 weeks, your therapist will start you on a strengthening exercise program.

Expect a complete recovery to take several months. Most patients have a functional range of motion and adequate strength by 4 to 6 months after surgery. Although it is a slow process, your commitment to rehabilitation is key to a successful outcome.





Rehabilitation

After you have been treated for your condition, we want to ensure that you heal properly and regain strength. Our rehabilitation team will work with you in a private setting, at your own pace and comfort level, so that you can return to your daily lifestyle. Through exercises and training, our certified physical therapy team is here to help you get back to the things you love.

Your post operative care takes place here



What is the recovery time ?

Post-Operative Period up to 6 weeks

Immediately after the operation, you will be encouraged to keep the shoulder as still as possible. Pain will vary from person to person and depend on the extent of the repair to the shoulder. The frequent application of cold packs to the area will help to reduce the swelling and the pain.

The first phase of recovery can potentially last up to 6 weeks after the surgery. You will be instructed to keep the shoulder as immobile as possible and to keep your arm in a sling. The use of the sling keeps the weight of your arm off of the tendon which assists in the healing process.



After some time, and according to your individual needs, your surgeon will advise you to attend **physical therapy sessions**. During these sessions the therapist will perform exercises that involve passive movement of the joint. Passive movement involves no contraction of the muscles. It is particularly important that the bicep muscle not contract during this period. The therapist will move the arm gently for you, without putting undue strain on the joint. They will also instruct you on how to move, while avoiding the contraction of muscles around the joint. This gentle movement is encouraged in order to prevent the formation of scar tissue that would form if there were no movement in the joint. Formation of scar tissue will limit movement in the joint.

6 to 12 Weeks

During the following 6 to 12 week period, you will be allowed to perform a limited range of arm movements. You will not be able to lift or push heavy objects as, even after this amount of time, placing this sort of strain on the joint may cause the sutures anchoring the tendon to the bone to pull out. You should avoid supporting your body weight using the affected arm.

3 to 6 months

This is the period during which you will begin to strengthen the muscles in the arm after the relatively long period of inactivity. This is essential to your full recovery. However, caution must still be taken to not to place too much strain on the joint, as the attachment of the tendon to bone will still be in the process of healing. There are a number of light but effective exercises that will be provided by your therapist to slowly strengthen the weakened muscles.

As stated previously, duration of post-operative recovery will differ from person to person and differ depending on the extent of the repair required. In all cases the instructions given to you by the orthopedic surgeon must be followed very strictly in order to minimize the risk of complications and regain the full range of movement in your shoulder.



Future Developments

Dissolvable Anchors

Many orthopaedic surgeons have begun to use dissolvable anchors. Anchors hold stitches in place in the bone until the repair has healed. Dissolvable anchors are gradually absorbed by the body.

Arthroscopic Techniques

Future developments in the treatment of rotator cuff disease include newer arthroscopic surgical techniques. These allow more secure repairs that may improve the rate of tendon healing.

Orthobiologics

One of the most exciting areas of research is orthobiologics. These are tissue grafts and injections that promote growth of new tissue in the body and foster healing.



Outcomes of Rotator Cuff Tear Repair

Satisfaction rates are over 80-95% with improved range of motion and strength.

Approximately 6-30% will have a re-tear of the repair, however many of these remain asymptomatic. Outcomes are improved with earlier repair, smaller tears, patient age, and patient compliance after surgery.



A life changing experience

I had been having trouble with my shoulder for years. I had cortisone injections, physical therapy and medications and it only got worse. This past year I saw <u>Dr Santosh</u> and he found a rotator cuff tear which was missed earlier on an MRI by another physician. I had the surgery done and I am so happy with the results. It is a very tough surgery and long recovery but Dr Santosh is fantastic. He explains everything to you and what to expect. He answers any concerns and sees you regularly to make sure of your progress. I have recently been discharged as I have full range of motion and no pain at all. I feel fabulous. I can do things now I couldn't do before surgery. I am so pleased with the outcome and felt so well taken care of through the entire process.

- A patient who underwent Arthroscopic Rotator Cuff Surgery



SECTION B



What The Press Says : Set 1

THE TIMES OF INDIA

21 November, 2013

New surgery boon for knee patients

TIMES NEWS NETWORK

Kolkata: The periods of hospitalization and recov ery for knee-replacement surgery patients have come down significantly, thanks to improved tech-niques and quality im-plants. Such surgery was conducted on three pa-tients at Belle Vue Clinic on Wednesday. Earlier, a knee-replace-

ment surgery meant at least six days of post-operative hospitalization and the patient would be able to walk only four days later. But now, patients can stand up within hours of the sur-gery and start walking on the second day.

While doctors in the city have been performing minimally invasive sur-gery for quite some time now, minimally invasive computer-assisted total knee arthroplasty was per-formed on three patients — Sambhunath Bit (52), Meena Devi Chowdhury (65) and Chhaya Chattopadhyay (72) — at Belle Vue on Wednesday.

"Computer-assisted to-tal knee arthroplasty and minimally invasive sur-geries have been performed in the city, but independently. Minimally invasive



A patient after surgery

computer-assisted total knee arthroplasty is being done in Belle Vue Clinic for the first time in eastern In-dia," said Dr Santosh Ku-mar who performed the surgery, one of them live,

on Wednesday. The conventional pro-cedure enabled the patient to stand up on the third day of surgery, walk on the fourth day and get dis-charged from the hospital either on the fifth or the sixth day. But minimally invasive surgery enables the patient to stand within a few hours of the surgery walk on the second day and walk out of the hospital on thethird

The Telegraph METRO 29th January, 2013

Tech boost for surgery

OUR SPECIAL CORRESPONDENT

CORRESPONDENT If in and knee replacement surgeries in the city will now be more precise and less risky will n new computer-navigat-diceknique that can tell from outside the exact position of bones and the alignment of ligaments. Belle Vue Clinic on Monday claimed to be the first in the city to introduce the "fourth gener-ation" machine from Germany. The new technique will make the surgeries at least 10 minutes longer. "It has more checks and balances and so it takes more than the standard one-and-a-half hours for other

computer assisted procedu-res." sail Santosh Kumar, orthopaedic surgeon and head of the joint replacement sur-gery unit at Belle Yue. Computer navigated sur-geries have been conducted in Calcutta since 2006, but the German technology promises to increase the accuracy of knew replacement surgeries from around ab per cent to up to 85 per cent, say doctors. The machine maps the po-sition of bones in the knew sonther and the surgeries and provide information on a computer screen that help the surgeon install the implant. "The equipment not only

takes into account the bones but also aligns soft tissues like ligaments. So there is less chance of damage to liga-ments and other uncertainties too," Kumar pointed out. Buddhadeb Chatterjee, or-thopaedie surgeon with Apollo Generagles Hospitals, said the software would make things easier for surgeons. "Steps like bone registration are not re-quired. Bone registration is a process in which pointers are rubbed on the bones and the images are transferred to the computer through infrared," said Chatterjee. Me said the software was more precise and therefore better results were expected.

THE ASIAN AGE

21 November, 2013

Advanced knee surgery raises patients' hopes

AGE CORRESPONDENT KOLKATA, NOV. 20

KOLKATA, NOV. 20 For the first time in eastern India, Minimally Invasive Computer-Assisted-Total Knee Arthoplasty, (MICA-TKA) surgery was per-formed on three patients on Wednesday. The knee surgery reduces recovery time for patients. The surgeries were per-formed at Belle Vue Clinic under the supervision of Dr Santosh Kumar. Interestingly, the live surgery performed on the knee of 72 year-old Chaya

Chatterjee was shown on a giant screen at the clinic. It was a unique way to intro-duce one of the best med-Was a unique way to intro-duce one of the best med-ical advancements. This latest (MICA-TKA) procedure enables patients to stand up on his feet on the same day of the surgery, climb the stairs on the second day and are released on the third day. While the conventional procedure takes at least seven days' time for the knee of a patient to func-tion properly. According to Dr Kumar, the knee transplant is use-

ful for professionals who need a high performing knee.

"The surgery results in fantastic tackling of knee cap bone which leads to improved and full knee banding

improved and full knee bending. "With this knee trans-plant, people now will be able to use public trans-port, indulge in sports activities and lead a normal life," said Dr Santosh Kumar, who is also the head of the clinic's Computer-Assisted (Na-vigated) Joint replacement Centre.



Urgent joint replacement at prominent city hospital STATESMAN NEWS SERVICE

Kollada, 20 November God news awaits for poo-ple requiring urgent joint speedy recover. The Belle You Chinic has introduced a minimally invasive pro-outer which would take meand all hours to con-duct the strange of the strange work of the strange of the stra

total knse arthropiasty has been done for the first time in the eastern part of the country Unike conventional surgeries where the patient takes a longor time to heal, the latest procedure not only saves time, but also leads to a very minimal blood loss, "wait DF Kumar, the head of computer assist-ed/navizated injust pehace. ment centre at Belle Vue. Hefurther said, the tran Hefurther said, the trans plant costs a little more than Rs 1 lakh and can las then KS 118Kh and can last for several years. "The treatment is of immense help to those who are at the peak of their pro-fessional lives and look for early recovery. They can resume normal life within a few days of surgery ed (navigated) joint replace

THE ASIAN AGE 29th January 2013

KNEE JOINT REPLACEMENT MACHINE UNVEILED

AGE CORRESPONDENT KOLKATA, JAN. 28

The world's most modern and advanced knee joint replacement navijoint replacement navi-gation machine, OrthoPilot, an innova-tion to make knee and hip surgeries accurate and mathematical was unveiled on Monday at Belle Vue Clinic. Made in Germany, the

generation fourth machine is said to be the first of its kind in eastern India. Consultant orthopaedic surgeon and head of KIMS, Hyderabad, Dr Krishna Kiran said: "It's the pre-cision which has enhanced with OrthoPilot. It is more accurate as machine allows error-free allows surgery."

hindustantimes

29th January, 2013

NOW, COMPUTERS AID IN JOINT REPLACEMENT SURGERY IN CITY **HT Correspondent**

Ietters@hindustantimes.com

KOLKATA: Belle Vue Clinic installed 'orthopilot'; on Monday, the fourth generation navigation system that helps doctors eliminates human errors in hip and knee replacement and corrective surgeries.

"The machine's efficiency is much higher than the devices normally used for knee and hip replacement surgeries. Orthopilot is a hi-tech machine for enhancing precision during surgeries," Dr Krishna Kiran, director, Institute of Computer Assisted Joint Replacement Centre, Hyderabad, said during the launch of the Germanmanufactured device.

"Prior to computer-assisted devices, we couldn't be certain that an implant would be placed in the optimal position. It allows easy minimally invasive surgery, decreasing recovery time and post-operative pain,' he said.

The increased accuracy also help increase the life of the implants, while causing less blood loss in the patient. In fact, most patients are able to walk one day after the surgery.

Stating that Orthopilot is a powerful surgical tool that combines dedicated software with superior instrument design, knee surgeon, said Dr Santosh Kumar, head of the institute of Computerassisted (navigated) joint replacement centre at the clinic.

"It guides a surgeon to make precise cuts in the joints and remove deformities, by using infrared camera. It gives patient specific information during surgery while virtually eliminating expensive and radiation intensive CT and MRI scans before the surgery," Dr Kumar added.

E State THE TIMES OF INDIA 29th January, 2013

Orthopilot for accurate joint surgery sisted (navigation) Joint Replacement Centre, the orthopilot is the first in eastern India. The institute's head, Dr Santosh Kumar, said: "Orthopilot eliminates uncertainty and enhances precision. It also enhances long term results as de-

Kolkata: Have someone in your family, who needs to undergo a hij or knee joint replacement sur-gery? Yes, these surgeries are common in the city now but precision levels depend on the surgeon's eyes. Hence, many patients complain of problems eyes, nence, many patients company or proteins post surgery as the replaced knee is misaligned. So, those asked to go under the scalp may harbour ap-prehension after hearing tales of misalignment. But help is at hand in the form of a computer-guided orthopilot. The fourth generation hip and here is the background state of the second state.

knee joint replacement navigation machine was inaugurated at the Belle Vue Clinic on Monday. Housed in the hospital's Institute of Computer As-

News About Dr.Santosh Kumar, **About Ortho Pilot & Advanced Procedures Done By Him**



POORVA ORTHOPAEDIC

precision. It also enhances long term results as de-viation from goals during surgery is elliminated and the implants survive 1.5 to two times longer." According to him, a replaced knee under conven-tional surgery lasts 8-10 years, while one implanted with an orthopilot stays intact for 15-20 years. The

costs under both techniques remain around the

same — Rs 1.80 lakh. The same surgery costs Rs 15 lakh in Indian currency in the UK, he said. NN

What The Media Says – Set 2



गुरुवार, २८ नवम्बर २०१३, वर्ष ६८, अंक २१७, पूर्णांक २३५५३

घुटनों की तकलीफ दूर

करे महज एक ऑपरेशन



29th January 2013



औपचारिक शभारंभ हआ। उच्चस्तरीय कम्प्यूटर आधारित यह मशीन घुटना प्रत्यारोपण आपरेशन में चिकित्सक को अस्थियों के सही दिशा में सेटिंग को नेविगेट **करने में मदद करती है। इस मौके पर मौजू**द जर्मनी की घटना प्रत्यारोपण विशेषज्ञ डा वारबरा गाई ने कहा कि चौथी पीढ़ी की सर्जरी में प्रीसिजन सबसे अहम है। गाई ने कहा कि घुटने या ज्वाइंट के प्रत्यारोपण के बाद उसके सही व सटीक एक्सिस पर काम करना ही आपरेशन की सफलता है। देश के प्रमुख घुटना प्रत्यारोपण चिकित्सक डा. कृष्णकिरण जो अनेक लाइव सर्जरी कर चुके हैं, ने कहा कि यह एक ऐसी प्रक्रिया है जिसमें ०, ने फैला कि पुरु २क २क रही प्राप्तपा है। जिसम एक घुटने की जगह दूसरा घुटना ' मैथमेटिकल एक्यूरेसी' की तरह फिट हो जाता है।

अर्थोपाइलट मशीन मूल रूप से इंफ्रारेड डिटेक्टर आधारित है। उद्घाटन समारोह में

सीईओ पी टंड

कोलकाता : एमपी बिड़ला समूह के प्रमुख चिकित्सालय बेलव्यू वलीनिक में सोमवार घुटना व ज्वाइंट रिप्लेसमेंट आपरेशन के लिए मौजूद बेलव्यू के सीईओ पी टंडन सुहित कई प्रमुख चिकित्सक मौजूद थे। उच्चस्तरीय आर्थोपाइलट मशीन का



23 November, 2013

বেলভিউ ক্লিনিকে হাঁটর আন্তোপ্লাস্টি

🔳 হাঁটুর সমস্যা সমাধানে নতুন দিগন্ত বেলভিউ ক্লিনিকে। সম্প্রতি এখানে চালু হল কম্পিউটার পরিচালিত হাঁটুর অ্যান্থোপ্লাস্টি। সবচেয়ে উন্নত চিকিৎসা পদ্ধতির মধ্য দিয়ে রোগীদের এই পরিষেবা দেওয়া হবে বলে জানিয়েছেন বেলভিউ-এর হাঁটু প্রতিস্থাপন বিভাগের প্রধান ডাঃ সন্তোষ কুমার। ডাক্তারদের দাবি, সাধারণত হাঁটুতে অস্ত্রোপচারের পরে তিনদিনের মধ্যে রোগী নিজের পায়ে দাঁড়াতে পারে। হাঁটতে পারে চারদিনের দিন। কিন্তু হাঁটুতে অ্যান্থোপ্লাস্টির পরে অস্ত্রোপচারের দিনেই রোগী উঠে দাঁড়াতে পারবে। কাজে যোগ দিতে পারবে কয়েকদিনের মধ্যেই। এমনকী অ্যান্থোপ্লাস্টির সময় রক্তপাতও তলনায় অনেক কম হয়।

POORVA ORTHOPAEDIC





कोई भी

नहीं है। प्र

में सद

ि चलना - फिरना, दौड़ना - कुदना, हर काम करना सबको बहुत पसंद जाला है, पर उसे कराख और कड़े जप्य काएगे की वजह से हमारे दैनिक जीवन में कई सारी परेशानियां आने लगती हैं। न हम ठीक से चलर पोत हैं और न ही अन्य काम कर पाते हैं। ये परेशानियां दिन – प्रतिदिन बढ़ती ही जाती हैं। वफ काम जल्द से जल्द व कम खर्च में करने को कोशिश को जाती है। युद्धने की तकलीफ को बही समझ सकता है, जिसने दर्द को झेला जाती है। युद्धने की तकलीफ को बही समझ सकता है, जिसने दर्द को झेला जाती है। युद्धने की तकलीफ को बही समझ सकता है, जिसने दर्द को झेला जाती है। युद्धने की तकलीफ को बही समझ सकता है। जिसने दर्द को झेला हाल में ही एक नयी तकनीक से लोगों को परिवत करावा है। अन्य तरह स किये गये औरश्वमा में रीगियों को कम से कम दीनी दन खड़ी होने में लग जाते हैं, चौधा दिन चलने – फिरने में लगता है। पांचर्च और छठवें दिन में क्से अमरतालर से खुट्टी मिलती है। minimally invasive com-puter assisted total knee arthoplasty surgery हारा जाग जिस 1164 में 344 अस्पतील से छुट्टा मिलती हैं i minimally invasive computer assisted total knee arthoplasty surgery द्वारा आप जिस दिन ऑपरेशन करवाते हैं, उसी दिन आप अपने पैरों पर खड़े हो सकते हैं। छोपिरंशन को तिहेंयों पर खड़ना उतराना भी आप दूसरें दिन से शुरू कर सकते हैं। धोपेरिंगन के तौसरें दिन ही आपरको अस्पताल से छुट्टो मिल सकती है। सारे ऑपरेशन डॉक्टर संतोप की देखरेख में हुए।

বৰ্তমান



ম্যাচে নাইটরা আজ রয়াল চ্যালেঞ্চারের ম্থোম্থি 10:20 PM



বৃহস্পতিবার ২১ নভেম্বর ২০১৩

প্রতিস্তাপনের দিনেহ চলাফেরা এই সময়: হাঁট প্রতিস্থাপনের ছ' ঘণ্টা পরই

রীতিমতো হটিতে শুরু করলেন রোগী। কল্পনা নয়। বাস্তবেই এমন অভিনব অস্ত্রোপচার সন্তব হল খাস কলকাতায়। সেই রোগীকে বুধবার সংবাদমাধ্যমের সামনে এনে হাসপাতাল কর্তৃপক্ষের দাবি, পূর্ব ভারতে এমন অস্ত্রোপচারের নজির এই প্রথম। চিকিৎসকরা জানাচ্ছেন, দু' দিন পর তাঁকে ছেড়েও দেওয়া হবে হাসপাতাল থেকে। সৌজন্যে, 'মিনিমালি ইনভেসিভ কম্পিউটার অ্যাসিস্টেড নি ট্রান্সপ্লান্ট'। সহজ বাংলায়, কম্পিউটারের সাহায্যে নামমাত্র কাটাছেঁডা করে অপারেশন। এ দিন বেলভিউ ক্লিনিকে দুই রোগীর

এমনই অস্ত্রোপচারের সাহায্যে হাঁট প্রতিস্থাপন করা হয়। সকালে যাঁর অপারেশন হয়েছিল, তিনি বিকেলেই হাঁটাচলা শুরু করেন। বিকেলে যাঁর প্রতিস্থাপন হয়, তিনি আজ, বৃহস্পতিবার সকাল থেকে হাঁটতে পারবেন বলে দাবি বিশেষজ্ঞ ট্রান্সপ্লান্ট সার্জেন সন্তোষ কুমারের। তিনি বলেন, কৃত্রিম হাঁটুটি মালাইচাকির পিছনে বসানোর 'অর্থো-পাইলট' নামে একটি সময়ে, কম্পিউটারের সাহায্য নিয়ে খুব অল্প কাটাছেঁড়া করা হয়। ফলে, এই অস্ত্রোপচারে দ্রুত সেরে ওঠেন রোগী। অপারেশনের তিন-চার দিনের মধ্যে স্বচ্ছন্দে বাড়ি চলে যেতে পারেন। প্রচলিত প্রথায় তিন দিনের আগে হাঁটাই সম্ভব হয় না। নতুন পদ্ধতির এই অন্ত্রোপচারের খরচ একই বলে জানিয়েছেন

जनसता

वेलव्यू में घुटना प्रत्यारोपण की नई तकनीक

प्रतायद्भू म युटना प्रत्यार(140) का मुझ तकनाक कोलकता, 28 जनवरी (जनसता)। महानगर कोलकका के बेलव्यू क्लीनिक में तुरं 8 अत्याधुनिक तकनोक यांनी एडवांस कंप्यूटर सहारदान-प्रात युटना व कमर (नी एंट हिप रिप्लेसमेंट) प्रत्यारीण शुरू, ही गया है। रोगयार को इसकी शुरुकात हु है। इस मौके पर बेलव्यू क्लीनिक के सीईओ पी टेडन, डॉ. कृष्ण किरण, डॉ. हिलीप कुमार मुझुमहा, डॉ. रंतोष कुमार जैने मालूहर डॉक्टर उपरिश्व थे। बाद में टेडन ने पडकरों को बताया कि जर्मनी से यह नई तकनीक मंगई गई है। कोलकाता के किसी अस्पताल में यह तबनीक सही है। उन्होंने बताया कि बेलव्यू में हर माह तैलेव से वालीस पुदर्शना हि टेडन्होंने कर पाड़ गर्दाणाएक होता था। नं तकनीक के आने से हम्में और ज्यादा गति आ जाएगी। उन्होंने बताया कि इत दिन के मेतन स्पत्नि इत्यूय नोकर चलन-पित्र ने गंगा। छह दिन के भीतर मरीज स्वस्थ होकर चलने-फिरने लगेगा।

আনন্দবাজার পত্রিকা

21 November, 2013

হট্টির চিকিৎসায়। কম্পিউটারের সাহায্যে সামান্য কাটাছেঁড়ায় হাঁটু প্রতিস্থাপনের নতুন যন্ত্র উদ্বোধন হল। বুধবার, বেলভিউ নার্সিংহোমে। নার্সিংহোমের জয়েন্ট রিপ্লেসমেন্ট কেন্দ্রের প্রধান চিকিৎসক সন্তোয কুমার যন্ত্রটির সাহায্যে এ দিনই হাতেকলমে হাঁটু প্রতিস্থাপন করে দেখান। পরে সাংবাদিক সম্মেলনে তিনি বলেন. "প্রথাগত অস্ত্রোপচারের অন্তত তিন দিন পরে রোগী নিজে দাঁডাতে পারেন। 9 কেত্ৰ অস্ত্রোপচারের দিনেই রোগী দাঁডাতে পারেন। তৃতীয় দিনে তাঁর হাসপাতাল থেকে ছুটি হয়ে যায়। এ ক্ষেত্রে কাটাছেঁড়া, রক্তক্ষরণ অনেক কম। চিকিৎসার খরচও কম।"



पड़गा। डॉ. संतोष कुमार के नेतृत्व में बेल व्यू बिलनिक में मिनीमली इंवेसिब, कम्प्यूटर-एसिस्टेड-टोटल नी ऑथ्रोप्लास्टी की गई है। उन्होंने वताया कि पूर्वी भारत में पहली बार यहां इस तरह की सर्जरी की शुरुआत हुई है। सर्जरी के कुछ घंटों बाद मरोज अपने पैरों पर खड़ा हो सकता है दूसरे दिन कुछ कदम चल सकता है। तीसरे दिन उसे अस्पताल बेल व्यू विलनिक में मरीज के साथ डे संतोष कुमार। से छटटी दी जा सकती है।

News About Dr.Santosh Kumar, About Ortho Pilot & **Advanced Procedures Done** By Him in TV & Press





Patients' Experiences [All Ortho Procedures]



Maya Ghosh, 66 years Kolkata

"I had been suffering from knee pain for last one year. It was difficult to walk. I heard of Dr. Santosh Kumar from my friend and got my knee operated. I now can walk. My friend too is well now. Thanks to Dr. Kumar".



Mr Das, Ulta Danga, Kolkata

Operated for Rheumatoid Arthritis of knee. Total knee replacement done in may 2012. Retired but socially very active, was crippled and home bound, till he started moving out after knee replacement. He says, " it feels as if my age has reduced by 20 years".



Prem Lakhani, 75 years, Kolkata

"I had long knee problem . I consulted Dr. Santosh Kumar. I was operated on 7 Jan, 14, detained in hospital for 4 days and started walking within 4 days. No pain and I am walking almost normally. I am back to normal work. Thanks to Dr"



Parbati Roy, 67 years, Kolkata

"I am 67 year. I have been suffering since 2005 and was under medication. In Oct 2013, I was almost crippled. At this stage, one of my cousins suggested for Dr. Santosh Kumar. He operated my right knee and my left knee was operated in next July. Am fine now"



Sister Jaya, Belle Vue Clinic

"Working as in-charge nurse had become so painful till I saw some operated cases by Dr Kumar and their results at our hospital. I decided to go for Knee Arthroplasty(replacement). Am happy that within a month I joined back my work with confidence."





Arun Kumar Jana, 71 years

"I have been suffering from knee pain since 2005. I got Dr. Santosh Kumar's contact through internet. He advised for knee replacement. Although I was scared by many, yet Dr. Kumar explained all in details and operated. He and his team had been cooperative".



Mr Banerjee, Beliaghata, Kolkata

An retired footballer says, "knee pain and stiffness had crippled my life in sharp distinction to the joy of playing football in my early age, actually I had suffered from ACL injury which accelerated osteoarthritis. I am happy that the joy of movement has been restored".

Prof. Malabika Deb

After the knee replacement, I can climb up the stairs and walk. Feeling much better...



A Patient rides a bicycle with ease after undergoing Knee Replacement by Dr.Santosh Kumar using Orthopilot, an advanced computer navigation procedure.

More Patients Experiences & Testimonials can be provided on request



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Almost All Insurance Companies & Majority of TPAs Accepted By Us





Consult the Doctor via Online or Video Conference

Dr. Santosh Kumar is available for video conference with the patients for better understanding between the patient and the doctor. What you need to do is to fill in the form in the website [format given below] and submit. You will be intimated duly over phone/through mail the date and time for video conference.



You need to have Skype (free software for video conferencing) downloaded in your computer. Now add Dr. Kumar in the contact with his ID, E-mail and Phone No that will be communicated to you. You should have a web camera attached to your computer. You can interact with the doctor at the pre appointed date and time.





For Outstation Patients

If you reside outside of Kolkata, you can contact us in either of these ways :



Online Consult with Doctor. Please check our website for details



Video Conference with Doctor Kindly go through the Video Conference page



Tele Consult with Doctor Please call the Helpline numbers



Meet Doctor In Person.

Before surgery / procedure, do meet the Dr in person once.



Patient's Suite / Room Patient can choose either Suite or Normal room



Treatment Centre Location This is situated at the heart of Kolkata city



Guest Suite / Room [Family members / Friends accompanying the Patient can choose to stay at this Star Hotel situated adjacent to the Treatment Centre : as per their budget / preference]





For Communities & Institutions

For The Kind		
Attention Of		

- Hon. President / Secretary
- Admin. Dept. / Committee Heads
- Medical Officers / Office Bearers / Volunteers Of :







Housing Societies / Residential Colonies





Educational / Research Institutions

NGOs / Voluntary

Organisations



Senior Citizens' Groups / Old Age Homes



Group of Children / Persons With Special Needs [Orthopaedic]

We can help you or involve with your organization in any the following ways :



Group Health Checks Ups for your members



Health Education Programs, Seminars for your members



Special Health Cards / Packages for members



Concessions in Procedures / Implants / Doctor Fees

Please Call : +91 98319 11584 For Tieup / Health Program **Or Email :** santdr@gmail.com





For the Kind		
	For the Kind	

- CMOs [Chief Medical Officers]
- HR / PMIR / Admin. Heads
- VP / Centre / Divisional Heads
- CEOs / Directors / Management

By having a Corporate Tieup with us, You & Your employees can have the following benefits :

Concession in	Employees Health	Employees Health	Pre Approved	Exclusive Package
Treatment	Screening	Talk / Seminar	Treatment Loan	For Employees
On-Site Health	Corporate Health	Ortho Panel	Reimbursement	Priority
Checkup	Desk Setup	Membership	Facility	Treatment Facility
Corporate	Corporate Medi	Liaison Office /	Ortho Health	Health Education via Corp. Intranet
TeleHealth Clinic	Tourism Facilitation	Ortho Concierge	Tele Triage	

Please Call : +91 98319 11584 For Corporate Tieup / Program / Panel Membership **Or Email :** santdr@gmail.com





As India is a leader in Medical Tourism, you can get the following benefits while taking treatment with us :



Kolkata is 3rd largest metro in India & one of the largest in Asia. Meditourism is flourishing here with patients from all over the world including USA, UK, Australia, Europe, Gulf, African & surrounding Asian countries.



Please Call : +91 98363 65632 International Patient Manager / Co-ordinator Or Email : santdr@gmail.com





If you reside outside India, you can contact our Patient Relation Manager who will guide you through these process to make your treatment comfortable.



Please Call : +91 98363 65632 International Patient Manager / Co-ordinator Or Email : santdr@gmail.com



The Fees

For Consultation In Person / Visit	• Rs 800 INR • \$ 13 [US Dollars]	
For Consultation With Digital X-Ray	• Rs 1,000 INR • \$ 16 [US Dollars]	
For Video Conference With Doctor	• Rs 600 INR • \$ 10 [US Dollars]	
For Tele Consultation	• Rs 300 INR • \$ 5 [US Dollars]	
For Special Consultation	• Rs 100 INR • \$ 2 [US Dollars]	For Charitable Purpose. Only 5 Patients / Day. With Prior Appointment.
For Online Consultation	• FREE • \$ 0 [US Dollars]	Via Email. Will be Co-ordinated with Patient Relations Manager
For Group Consultation	 As Per Case & No. of Patients 	For Communities / For Charitable Groups / For NGOs / VOs / Etc

Please Call : +91 98363 65632 [Patient Relations Manager / Co-ordinator] Or Email : santdr@gmail.com



About the Foundation

Poorva International Orthopaedic Foundation was created as a health charity dedicated solely to help people build, maintain and restore their bone and joint health. We do this by raising and allocating funds for the research, education, treatment and care that help patients to live and move independently - longer and stronger.

We invite you to help us in whatever capacity you can to fight against orthopaedic diseases & disorders. Your participation helps the tens of thousands of people living with pain, isolation, unhappiness and an inability to enjoy life due to bone and joint disorders such as arthritis, osteoporosis and injury.



Founded in 2014, Poorva Orthopaedic Foundation is a national registered charity powered by professional staff and network of volunteers. The Foundation is Kolkata's only health charity dedicated solely to helping people maintain and restore their bone and joint, or orthopaedic health.

What we do

Poorva Orthopaedic Foundation raises money through the trustees' donations and invests those funds in programs to advance orthopaedic research, promote patient and public education, and improve community care.

The Foundation is committed to patient education and to providing patients and their families with accurate, up-todate information that will make going through orthopaedic surgery a little easier and less frightening.

Our Vision:

To be Patients' voice for bone and joint health.

Our Mission:

To achieve excellence in bone and joint health, mobility and function for all patients through the advancement of research, education, and care.

Our Values:

People: We work in the interest of orthopaedic patients, their families, and the professionals who treat them and for the future of any Individual who may require orthopaedic care.

<u>Making a Healthy Difference</u>: We contribute to the health of our communities and our nation by working with volunteers, patients, professionals, government and industry toward timely and quality access to bone and joint care.

<u>Good Governance</u>: We are committed to excellence in the governance of our organization and will do so ethically, morally, according to the law, and towards the achievement of our Mission.

Help to keep people on the move!





POORVA INTERNATIONAL ORTHOPAEDIC FOUNDATION



Connect with us

Call : +91 98363 65632

Mob : +91 98319 11584

Email : santdr@gmail.com

Visit : www.mykneemylife.org

Consult : Ortho Dept., Belle Vue Clinic, 7 Loudon Street, Kolkata 700 017, West Bengal, India Regd. Office : Beliaghata, Kolkata 700 010