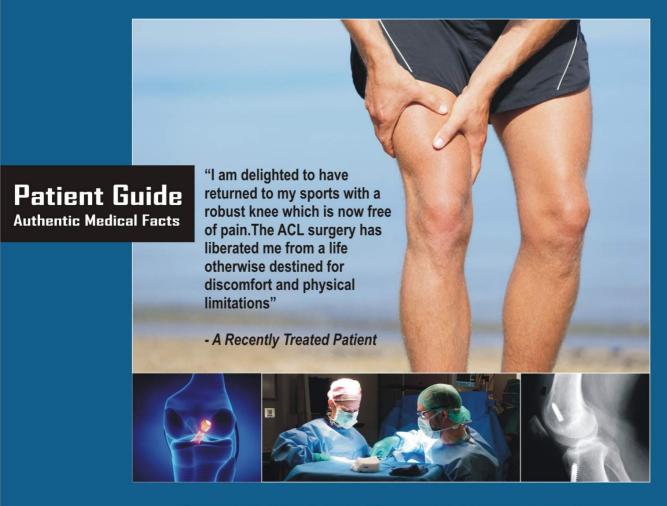
Quicker Recovery

A.C.L RECONSTRUCTION

Anterior Cruciate Ligament Surgery



12,000+ Patients Treated Successfully



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

 ${\hbox{HOUSE JOB in Department of Orthopedics, JIPMER from April 2001 to June~2002.}}$

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

Part A

- 1. Stability of Knee.
- 2. Anatomy of the ACL.
- 3. Functions of ACL.
- 4. Risk Factors to ACL tear.
- 5. Type, Pattern & Severity of Injury
- 6. Clinical picture.
- 7. Examinations.
- 8. Investigations.
- 9. Non Surgical Treatment.
- 10. Surgical Treatment
- 11. Grafts Used
- 12. Surgical Techniques
- 13. Complications
- 14. Knee Braces
- 15. Physical Therapy & Rehabilitation
- 16. Statistics of ACL injury
- 17. Patient Consideration
- 18. FAQS
- 19. Success Rate of ACL surgery
- 20. Patients Testimonials

Part B

- 21. Other Patients' Experiences
- 22. For Outstation Patients
- 23. For International Patients
- **24. For Corporate Patients**
- 25. For Communities / Institutions
- 26. What the Press / Media says
- 27. Cashless Mediclaim Facility
- 28. The Fees
- 29. Online Consultation / Video Conference
- 30. About The Doctor / Surgeon
- 31. About the Foundation
- 32. Contact Details



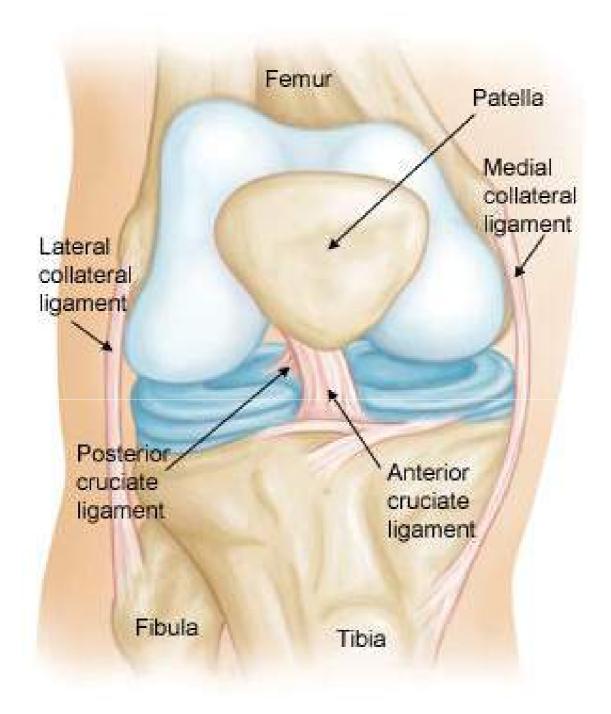


SECTION A



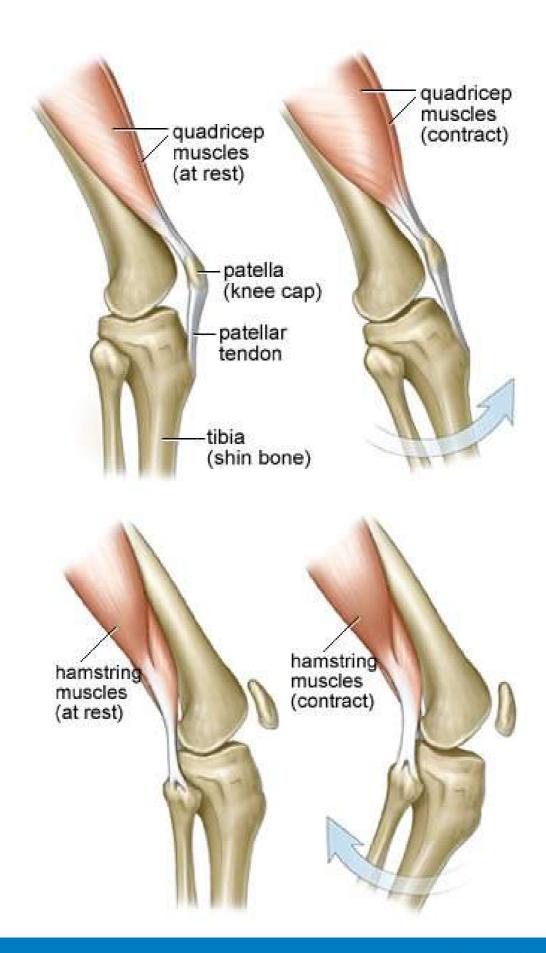
Stability of Knee

- The knee joint is a hinge joint formed by bones femur, tibia and patella and is held together by ligaments.
- There are four ligaments and they are: MCL (medial collateral), (LCL) lateral collateral, (ACL) anterior cruciate and (PCL) posterior cruciate ligament.





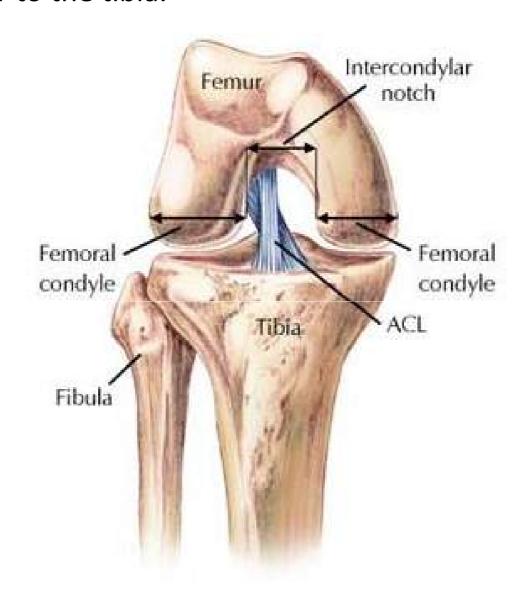
Movement of Knee





Anatomy of the ACL

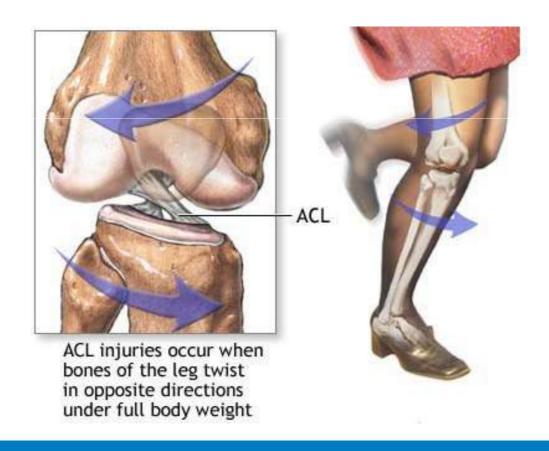
- ACL i.e Anterior Cruciate Ligament is a ligament joining the leg bone to the thigh bone. It is located inside the center of the knee joint.
- The ACL is composed of densely organized, fibrous collagenous connective tissue that attaches the femur to the tibia.



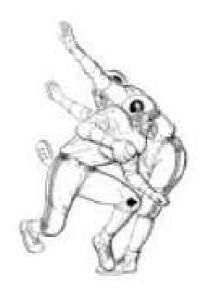


How is the ACL torn?

- It can be torn in sports, falls, two wheeler accidents.
- A twisting injury to the knee is the commonest mechanism of ACL injury. It occurs when the leg is planted on the ground and the thigh rotates inwards.
- Another mechanism is when the knee turns forward excessively.
- A sudden stop, twist
- Extreme hyperextension
- Direct contact



Pattern of Injury



A twisting and hyperextension injury commonly causes an ACL +/- PCL tear.



A hyperextension injury in a nonweight bearing leg can cause an ACL or PCL tear.

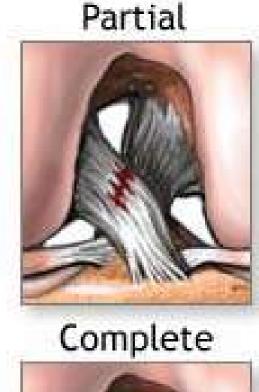


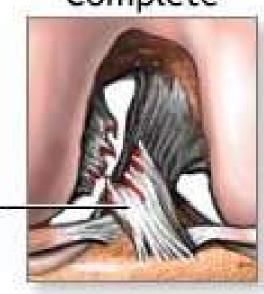
A hyperflexion injury such as a fall in skiing causes an ACL tear.



Severity of Injury

- Grade I A mild injury that causes only microscopic tears in the ACL. Although these tiny tears may stretch the ligament out of shape, they do not affect the overall ability of the knee joint to support your weight.
- Grade II A moderate injury in which the ACL is partially torn. The knee can be somewhat unstable and can "give away" periodically when you stand or walk.
- Grade III A severe injury in which the ACL is completely torn through and the knee feels very unstable.



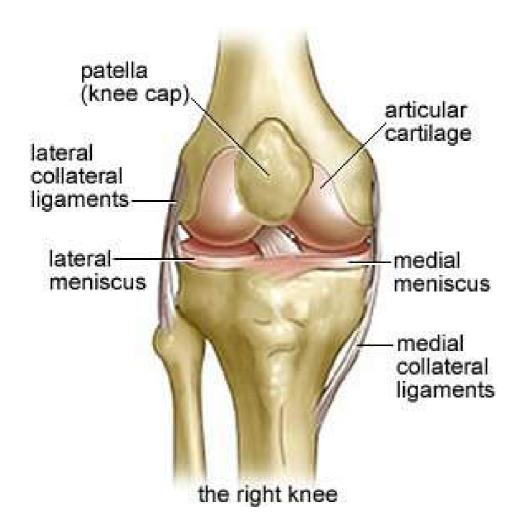


Most ACL injuries are severe Grade III 10% - 28% being either Grade I or Grade II.



ACL injuries are usually combined

- With the menisci (50 %)
- With articular cartilage (30 %),
- With collateral ligaments (30%),
- In football players and skiers, consists of injuries to the ACL, the MCL and the medial meniscus.



In cases of combined injuries, surgical treatment may be warranted and generally produces better outcomes

What are the Symptoms of an ACL injury?

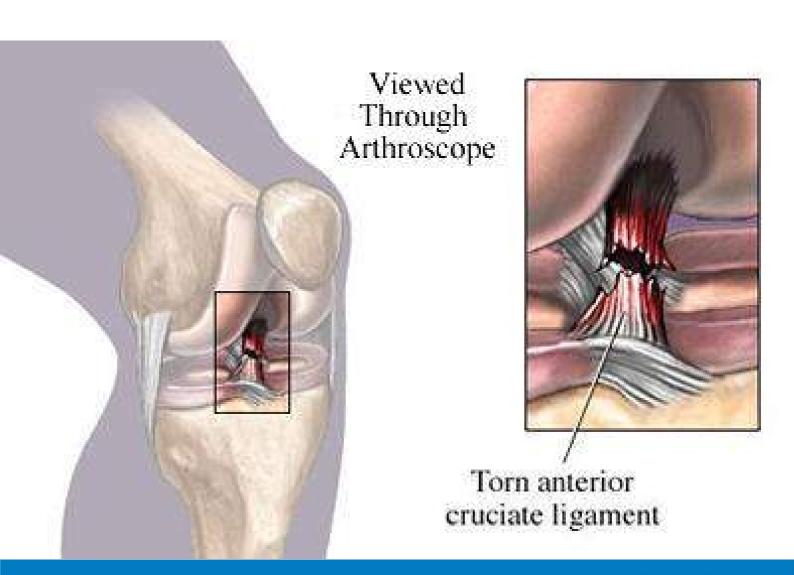
- Hear a "pop" from inside the knee
- Feel the knee give away at the time of injury
- Severe pain can not continue play
- There is immediate swelling as shown below.
- Pain may accompany.
- The knee may feel loose.
- Bruising may be present.





What are the Outcomes of ACL injuries?

- The knee feels unstable and may give away repeatedly while coming downstairs or running
- Damage can result to the cartilages and menisci within the knee
- Early osteo-arthritis may set in.



What are the Risk Factors to ACL tear?

- High-risk sports like: football, baseball, soccer, skiing, and basketball
- Females at more risk than male
- Certain types of Footwear:





What Examinations are done?

1. Inspection:

-immediate effusion >> intra-articular trauma.

2. Assess ROM:

Lack of complete extension.

3. Palpation:

Any meniscusor collateral tears or sprain.

Lachman test: most sensitive test





Examinations 2

• Pivot shift test:



• Anterior drawer test : least reliable





What Investigations are done?

- Laboratory Studies
- Imaging Studies
- Other Tests

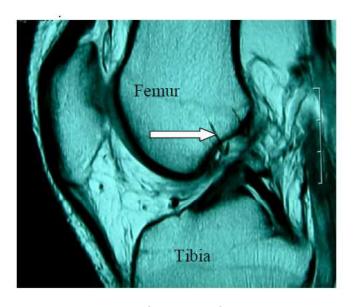
Laboratory Studies : Arthrocentesis (rarely performed)



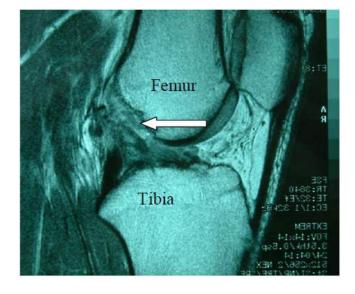


Imaging Studies:

- Plain radiographs. Usually -ve
 - Arthrograms replaced by MRI
 - MRI
 - * Gold standard,
 - * 90-98% sensitivity.
 - * identify bone bruising.



MRI scan shows the ACL torn from its attachment to the femur



MRI scan shows the ACL has 'blown out'



Other Studies:

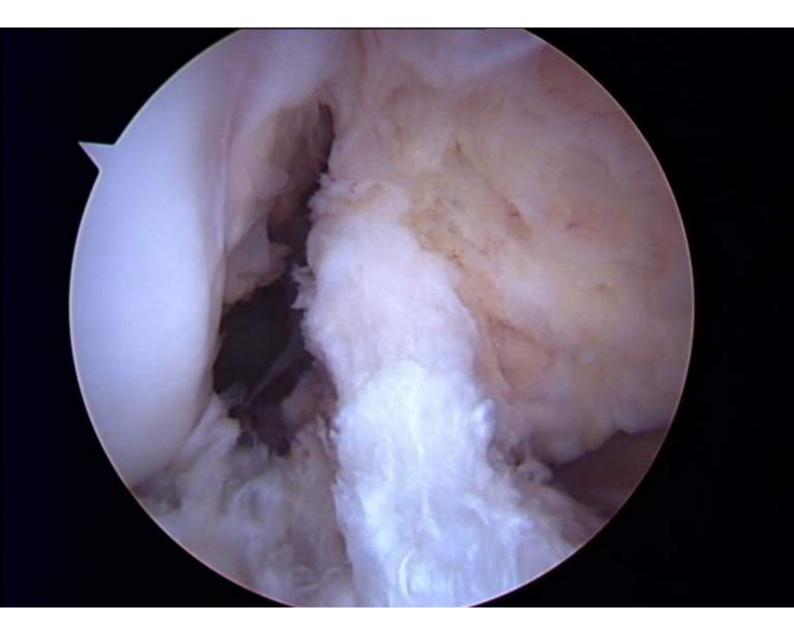
KT-1000

greater than 3 mm as measured by the KT-1000 is classified as pathologic.





Arthroscopic View



Arthroscopic view of a torn ACL. Note that the ligament has detached from the femur



What are the modes of treatment?

- If the patient has repeated symptoms, then surgical reconstruction is the best form of treatment.
- Non operative treatment may be indicated in older patients.
- Surgical treatment is known as ACL reconstruction.
 The ligament cannot be repaired at present and has to be reconstructed.

Treatment Options At A Glance

- Immediately after injury
 - R.I.C.E (Rest Ice Compression Elevation)
- Non surgical treatment
 - Exercise (after swelling decreases and weight-bearing progresses)
 - Braces
 - Rehabilitation Brace
 - Functional Brace
- Surgical treatment



Patient Consideration

- For Active adult patients: consider surgical treatment
- For Young children or adolescents: delay ACL surgery until the child is closer to skeletal maturity.
- If necessary, one should modify the ACL surgery technique



Rehab Total Range of Motion

- Ideal for total knees, meniscus repairs, regenerative chondroplasty, ligament surgeries and patella realignments,
- Range of motion control and short cuffs for extended rehabilitation.





Hinge Functional Knee Braces

 Have rigid metal supports down the sides of the brace to reduce knee instability following injury.





Non Surgical Treatment

Isolated ACL tears

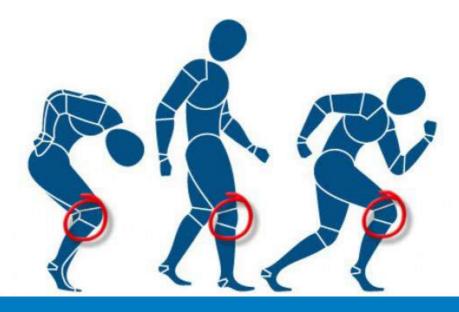
- With partial tears and NO instability symptoms
- With complete tears and NO symptoms of knee instability during low-demand sports who are willing to give up high-demand sports
- Who do light manual work or live sedentary lifestyles
- Whose growth plates are still open (children)

Non surgical Precautions

- Modification of active lifestyle to avoid high demand activities
- Muscle strengthening exercises for life
- May require knee brace
- Despite above precautions, secondary damage to knee cartilage & meniscus leading to premature arthritis

Surgical Intervention and Considerations

- ACL tears are not repaired using suture
- Replaced by a graft made of tendon
- The goal is
 - prevent instability
 - restore the function of the torn ligament
 - allows the patient to return to sports
- Not performed until several weeks after the injury
 - To allows the swelling decreases, inflammation subsides, and range of motion improves





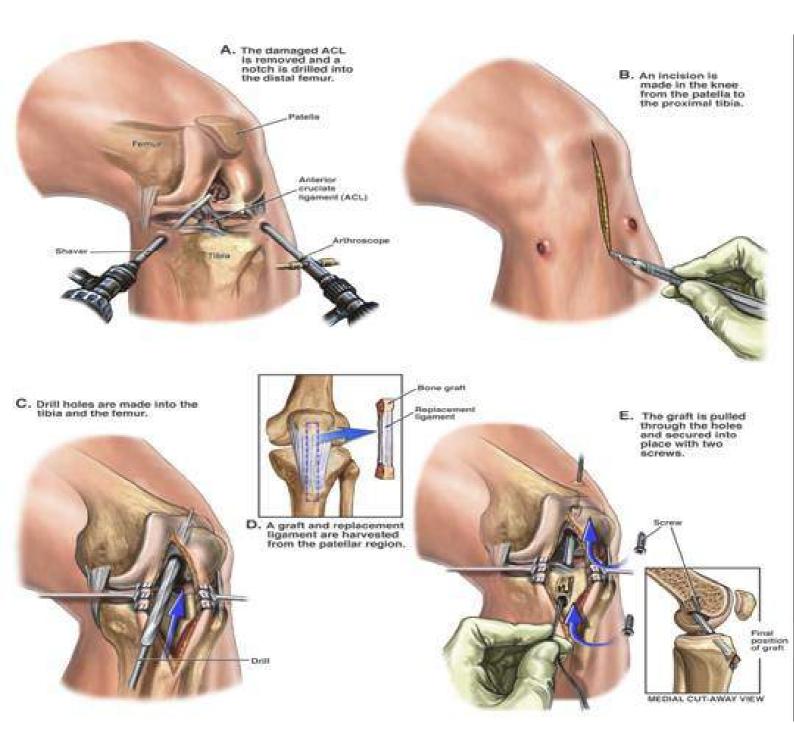
How is the Surgery done?

- A piece of tissue either taken from your own body or a cadaver is used to reconstruct the ACL.
- It is commonly done through key hole surgery to prepare and position the tissue (graft)
- The procedure is a day care procedure
- The patient follows the physical therapy program





Surgical Technique

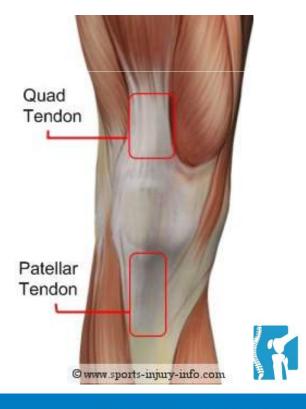




Grafts Used in ACL Surgery

- Autograft
 - Patellar tendon
 - Hamstring tendon
 - Quadriceps tendon
- Allograft (from a cadaver)
 - Patellar tendon,
 - Achilles tendon,
 - Semitendinosus,
 - Gracilis, or posterior tibialis tendon





FACILITIES

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













How long does it take to recover?

- You should be able to go home the same day or the day after.
- It takes six months to recover sufficiently to return to running
- And one year to return to sports.



Physical Therapy & Rehabilitation

Physical Therapy Before Surgery

- Physical therapy plays a crucial role in successful ACL surgery
- Usually patients are sent to a physical therapist. The main goal of the therapy session is to attain the full range of motion. Patients who have stiff, swollen knee during surgery may have problems regaining motion post surgery. It takes 3 or more weeks to gain full range of motion after the initial injury. Braces are recommended during this time so that the injury may heal before the surgery

Physical Therapy After Surgery

- After the surgery, precautions are taken to keep the wound dry and clean. Initially, physical therapy sessions emphasis on straightening knee and resorting quadriceps control.
- Ice is used to reduce swelling and pain. Physician determines if crutches and post operative braces should be used.
- The primary goal of physical therapy is to attain full range of motion as well as strengthening quadriceps and hamstring muscles while keeping swelling and pain under control.



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



Statistics of ACL injury

- Most often anterior cruciate ligament (ACL) of the knee is injured. It is estimated that about 200,000 injuries occur annually and about 100,000 ACL reconstruction surgeries are performed.
- The incidence of ACL injuries is higher in people who participate in sports such as basketball, skiing, foot ball and soccer.
- 95,000 ACL Tear in USA annually.
 Similar is the high rate of incidence in India

FAQS on ACL Surgery

Can I take a shower? You may shower, and the leg may get wet. DO NOT REMOVE THE BUTTERFLY TAPES (IF PRESENT) UNTIL 14 DAYS AFTER SURGERY. Remove the brace and the wraps and either sit on a chair or steady yourself with hand rails. No immersion in water is allowed for 14 days post op. This means – No soaking the leg in a bathtub, hot tub whirlpool or swimming in the ocean/pool.

Can I Drive? If surgery was performed on your left leg and you drive an automatic transmission car, you may drive within 2-3 days of surgery as long as you are not taking the narcotic pain medication. If you had surgery on the right leg, or drive a manual transmission, you may drive once you have adequate strength in the leg. This usually occurs between 10 and 14 days post op. We recommend you test your driving ability in an empty parking lot with supervision until you determine whether or not you can drive safely.

What is this small puncture wound on my thigh from? We use a guide pin to place the ACL graft in the knee. The guide pin is used for a few minutes during the surgery and there are no lasting negative effects. There may be some soreness in this area for a few weeks after surgery.

When do I start Therapy? You must begin therapy as soon as possible (unless instructed otherwise). This means that you must call for an appointment immediately after your first post operative visit. You DO NOT need to wait until the stitches are removed. Therapy can be done anywhere that is convenient and paid for by your insurance. A list of facilities is available.

Do I need crutches? UNLESS INSTRUCTED OTHERWISE – we encourage full weight bearing immediately post op. This means you may put full weight on the leg (with the brace locked straight). YOU DO NOT NEED CRUTCHES. We prefer that you put weight on the leg to maintain strength and to encourage healing to occur.

When do I get my stitches out? Your stitches will be removed between 7 and 14 days after surgery. Do I need pain medication? Most patients use the Percocet for the first few days after surgery. Most patients change over to Tylenol or Advil during the first 7-10 days. Some patients require pain medication for longer periods of time.

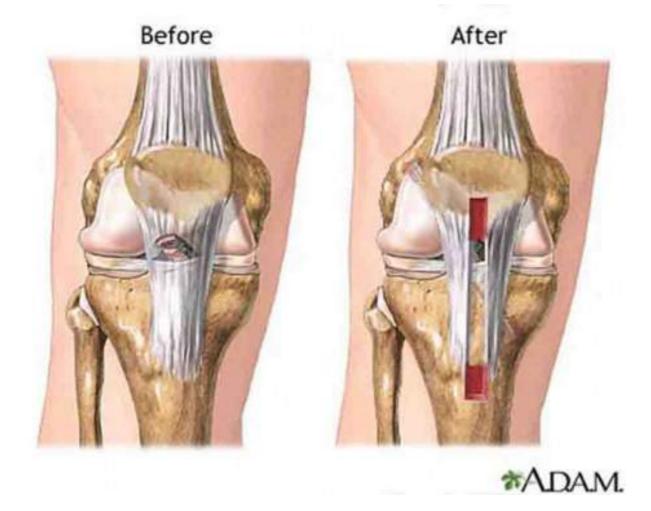
How long do I need this brace? The brace is used to give support so that you don't need crutches. Initially, you lack the strength to stand and the brace enables you to stand and walk. Most people use the brace for about 4 weeks. The brace is adjustable and is usually shortened at your second post op visit if appropriate for your situation. Most people gradually wean themselves off the brace. You begin by not wearing it around the home in a controlled setting and gradually lessen its use.

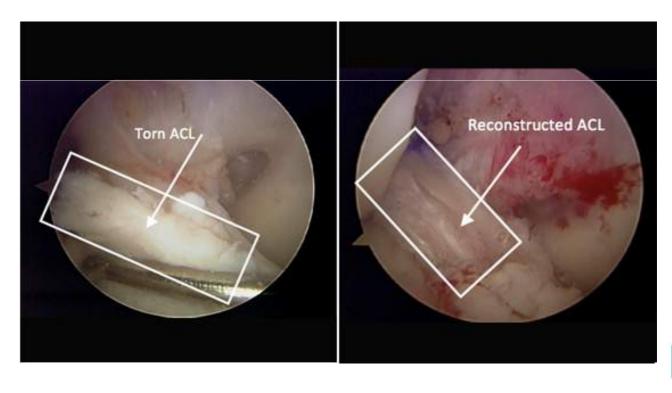
When will my appointments be? Routine post op appointments occur at 4-5 days after surgery, 7-14 days after surgery, 4 - 6 weeks after surgery, 3 - 4 months after surgery, 6 months and 1 year.

Can I get a note for Work or School? Notes for missing school and work are available upon request.



Before & After – ACL Surgery







Success Rate of ACL surgery

Success rate of ACL reconstruction is up to 95 %.





A life changing experience

"It has been 5 months now since I've had my ACL surgery and I am really pleased overall. I think I recovered very well. I can bend my knee to 100 percent of where I was before my injury. I've been walking without pain for more than 3 months, have been jogging for a month and can start doing more "aggressive" movements such as kicking the ball, changing directions suddenly, etc. Thank You Doctor."

- A patient who underwent ACL Reconstruction Surgery



SECTION B



What The Press Says: Set 1

THE TIMES OF INDIA

New surgery boon for knee patients

Kolkata: The periods of hospitalization and recov ery for knee-replacement surgery patients have come down significantly, thanks to improved techniques and quality implants. Such surgery was conducted on three patients 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 knee arthroplasty is being done in Belle Vue Clinic for the first time in eastern India," said Dr Santosh Kumar who performed the surgery, one of them live, on Wednesday.

The conventional procedure 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

The Telegraph METRO

Tech boost for surgery

CORRESPONDENT

Hip and knee replacement surjectes in the city will now he more precise and less risky with a new computer-navigated technique 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 generation" machine from Germany. The new technique will make the surgeries at least 10 minutes ionger. "It has more checks and balances and so it takes more than the standard one-and-a-half hours for other

computer-assisted procedures," said Santosh Kumar, orthopaedic surgeon and head of the joint replacement surgery unit at Belle Vue.
Computer-navigated surgeries have been conducted in Calcutta since 2006, but the German technology promises to increase the accuracy of knee-replacement surgeries from around 80 per cent to up to 85 per cent, say doctors.
The machine maps the position of bones in the knee joint using sensors. These sensors create a detailed image 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 ligaments and other uncertainties too," Kumar pointed out.

Buddhadeb Chatterjee, orthopaedic surgeon with Apolio Gleneagles Hospitals, said the software would make things easier for surgeons. "Steps like bone registration are not required. Bone registration are not required. Bone registration are rarubbed on the bones and the images are transferred to the computer through infrared," said Chatterjee.

He said the software was more precise and therefore better results were expected.

The Statesman

Urgent joint replacement at prominent city hospital

Kolkata, 20 November
Good news awaits for people requiring ungest Joint replacement and expecting a speedy recovery The Belle Vue Clinic has introduced a minimally invasive procedure, which would take one-and-a half hours to conduct knee surgeries and more importantly the petitent would be able stand on his feet on the same day of the surgery.

A team of doctors led by Dr Santosh Kumar, who performed a live surgery before a battery of media persons at the Belle Vue today said: "The minimal invasive technique is loss time taking and the patient can stand on his feet on the same day of the surgery and can walk or climb stairs on the special surgery and can walk or climb stairs on the special surgery and can walk or climb stairs on the special surgery and can walk or climb stairs on the special surgery and can walk or climb stairs on the special surgery and can walk or climb stairs on the special surgery and can walk or climb stairs on the special surgery and can walk or climb stairs on the special surgery and can walk or climb stairs on the special surgery and can walk or climb stairs on the special surgery and can walk or climb stairs on the special surgery and can walk or climb stairs on the special surgery and can walk or climb stairs.



from RS 118Kh and can ast 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

THE ASIAN AGE

Advanced knee surgery raises patients' hopes

For the first time in eastern India, Minimally Invasive Computer-Assisted-Total Knee Arthoplasty, (MICA-TKA) surgery was performed on three patients on Wednesday. The knee surgery reduces recovery time for patients. The surgeries were performed 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-

due one of the best medical 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 function properly.

According to Dr Kumar, the knee transplant is use-

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

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

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

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

letters@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.

THE TIMES OF INDIA

29th January, 2013

Orthopilot for accurate joint surgery

Kolkata: Have someone in your family, who needs to undergo a hip 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, rence, many pattents companing proneins post surgery as the replaced knee is misaligned, 80, 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

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

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 deprecision. It also ennances long term results as de-viation from goals during surgery is eliminated and the implants survive 1.5 to two times longer." According to him, a replaced knee under conven-tional surgery lasts 810 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. TNN

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



What The Media Says – Set 2









আনন্দবাজার পত্রিকা

21 November, 2013

হাঁটুর চিকিৎসায়। কম্পিউটারের সাহায্যে সামান্য কাটাছেঁড়ায় হাঁটু প্রতিস্থাপনের নতুন যন্ত্র উদ্বোধন হল। 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 পারেন। অস্ত্রোপচারের দিনেই রোগী দাঁড়াতে পারেন। তৃতীয় দিনে তাঁর হাসপাতাল থেকে ছুটি হয়ে যায়। এ ক্ষেত্রে কাটাছেঁড়া, রক্তক্ষরণ অনেক কম। চিকিৎসার খরচও কম।"



घुटने की सर्जरी अब और सहज

कोलकाता. आधुनिक तकनीक तथा कम्प्यूटर की मदद से घुटने की सर्जरी अब और सहज हो गई है। सर्जरी के बाद मरीज को ज्यादा दिनों तक अस्पताल में रहना भी नहीं पड़ेगा।

श्री। हो। संतोष कुमार के नेतृत्व में बेल व्यू बिलिक में मिनीमली इंबोसन कम्प्यूट-एसिस्टेड-टोटल नी ऑयोप्लासटी की गई है। उन्होंने बताया कि पूर्वी भारत में पहली बार वहां इस तहर की सजेरी की सुरुआत हुई है। सजेरी के कुछ घटों बाद मरीज अपने पेंग पर खंडा हो। काला है इसरे दिन कुछ करम चल सकता है इसरे दिन कुछ करम चल सकता है। तीसरे दिन कुछ करम चल



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

এই ময়

বৃহস্পতিবার ২১ নভেম্বর ২০১৩

হাঁটু প্রতিস্থাপনের দিনেই চলাফেরা

এই সময়: হাঁটু প্রতিস্থাপনের ছ' ঘণ্টা পরই রীতিমতো হাঁটতে শুরু করলেন রোগী। কল্পনা নয়। বাস্তবেই এমন অভিনব অস্ত্রোপচার সম্ভব হল খাস কলকাতায়। সেই রোগীকে বুধবার সংবাদমাধ্যমের সামনে এনে হাসপাতাল কর্তৃপক্ষের দাবি, পূর্ব ভারতে এমন অস্ত্রোপচারের নজির এই প্রধান চিকিৎসকরা জানাচ্ছেন, দু' দিন পর তাঁকে ছেড়েও দেওয়া হবে হাসপাতাল থেকে। সৌজনেে, মিনিমালি ইনভেসিভ কম্পিউটার অ্যাসিস্টেভ নি ট্রালপ্লাট'। সহজ বাংলায়, কম্পিউটারের সাহায্যে নামমাত্র কটার্টেড্ড্র্ করে অপারেশ্বন।

এ দিন বেলভিউ ক্লিনিকে দুই রোগীর এমনই অস্ত্রোপচারের সাহায্যে হটি প্রতিস্থাপন করা হয়। সকালে যাঁর অপারেশন रराष्ट्रिल, जिनि विरक्तलाई शौंगांजना शुक्र করেন। বিকেলে যাঁর প্রতিস্থাপন হয়, তিনি আজ, বৃহস্পতিবার সকাল থেকে হাঁটতে পারবেন বলে দাবি বিশেষজ্ঞ ট্রান্সপ্লান্ট সার্জেন সন্তোষ কুমারের। তিনি বলেন, কৃত্রিম হাটুটি মালাইচাকির পিছনে বসানোর 'অর্থো-পাইলট' নামে একটি কম্পিউটারের সাহায্য নিয়ে খুব অল্প কাটাছেঁড়া করা হয়। ফলে, এই অস্ত্রোপচারে ক্রত সেরে ওঠেন রোগী। অপারেশনের তিন-চার দিনের মধ্যে স্বচ্ছদ্দে বাড়ি চলে যেতে পারেন। প্রচলিত প্রথায় তিন দিনের আগে হাঁটাই সম্ভব হয় না। নতুন পদ্ধতির এই অস্ত্রোপচারের খরচ একই বলে জানিয়েছেন বেলভিউ কর্তৃপক্ষ।

जनसता

29th January, 2013

वेलव्यू में घुटना प्रत्यारोपण की नई तकनीक

वाराव्यु म धुटना प्रत्यारायण का ने तिकासक कीलकात, 28 जनवरी (जनसक्त)। महानगर कोलकाता के वेलख्यू क्लीकिस में नई व अत्यायुक्ति तकनीक यानी एहवांस कंप्यूटर सहरखा-प्राप्त युटना व कमर (नी एंट हिप रिप्लेसमेंट) प्रत्यारोपण शुरू की प्रया है। शोमावर को इसकी सुरकात हुई। इस मीक पर वेलब्यू क्लीकिस के मीईओ पी टेडन, डॉ. कृष्ण किरण, डॉ. दिलीप कुमार मनुमदार, डॉ. संतोध कुमार जैसे मनहह डॉलटर उपरिक्त है। आ में टेडन ने पप्रकारों को बताया कि कर्मनी से यह नंद तकनीक मोगई गई है। कोलकाता के किसी अस्पताल में यह तकनीक नहीं है। उन्होंने चताया कि वेलख्यु में हर माह सैतीस से चार्वास युटने या फिर कमर का प्रत्यारोपण होता था। नहें तकनीक के आने से इसमें और ज्यादा गाँव आ जाएगी। उन्होंने बताया कि छह दिन के मीन समीज दायश होताक चलन-फिरन विमागा



गुरुवार, 28 नवम्बर 2013, वर्ष 68, अंक 217, पूर्णांक 23553

घुटनों की तकलीफ दूर करे महज एक ऑपरेशन



चलना – फिरना, दौड़ना – कूदना, हर काम करना सबको बहुत पसंद आता है, पर दम के साथ और कई अन्य कारणों की वजह से हमारे दौनक जीवन में कई सारी परेशानियां आने लगती हैं। न हम ठीक से चल पाते हैं और न ही अन्य काम कर पाते हैं। ये पेशानियां दिन – प्रतिदित्त बढ़ाते हीं जीता हैं। वक के साथ आजकल तकनीक में बहुत सारे परिवर्तन आ गये हैं। आज हर काम जल्द से जल्द व कास बढ़ों में करने की कोशिश को जाती हैं। युटने की तकलीफ को बढ़ी समझ सकता है, जिसने दर्द को झेला हों या उसके किसी अपने ने इस दर्द को होला हो। बेल व्यू अस्पताल हों या उसके किसी अपने ने इस दर्द को होला हो। बेल व्यू अस्पताल हों को उसके किसी अपने ने इस दर्द को होला हो। बेल व्यू अस्पताल हों को उसके किसी अपने ने इस दर्द को होला हो। बेल व्यू अस्पताल हों की स्वेत के पार्च तहता है। को स्वेत करा हों हों हों हों से अस्पताल से खुदनि मिलती हैं। minimally invasive computer assisted total knee arthoplasty surgery द्वारा आप जिस हैं। सीहियों पर चढ़ना – उतराना भी आप दुस्से दिन से शुरू कर सकते हैं। औपरेशन के तीसरे दिन ही आपको अस्पताल से खुट्टी मिल सकती हैं। सारे अपिरशन डॉक्टर संतीष को देखरेख में हुए।

বৰ্তমান

নি, হিপ রিপ্লেসমেন্টে মুশকিল আসান 'অর্থোপাইলট' চাল হল বেলভিউতে

जिसका बर्जिसि, कामारा जि तथा जिस जिसाज कर । मेर्नुकारण स्वारण प्रावण एक्सिक क्रिकेट का प्रकार कर । मार्नुकारण स्वारण एक्सिक क्रिकेट का प्रकार कर । मार्नुकारण स्वारण एक्सिक क्रिकेट का । प्रतार प्रकारण प्रकार कर । प्रकार क



যায়। সেখানে এই মেশিনের সাহায়ে অপারেশন কর মাত্র চার থেকে গঠি সপ্তায়ের মধ্যেই রোখী সম্পূর্ণ সূত্র হ

दैनिक जागरण

29th January 2013



मशीन का उद्घाटन करते बेलव्यू के

कोलकाता : एमधी बिड्डला समूह के प्रमुख चिकित्सालय बेलब्यू क्लीनिक में सोमवार घुटना व ज्वाइंट रिप्लेसमेंट आपरेशन के लिए उच्चस्तरीय आर्थीपाइलट मशीन का

औपवारिक शुभारंभ हुआ। उळ्वस्तरीय कम्प्यूटर आधारित वह सम्मीन युटना कम्प्यूटर आधारित वह सम्मीन युटना अस्थायों के सम्मी हिएना में सिटेनरक को अस्थायों के सम्मी हिएना में सेटिनरक को अस्थायों के सम्मी हिएना में सेटिनरक को नोकेंग्र करने में मदद करती है। इस मौके पर मौजूद जर्मनी क्षेत्र कुता मुख्यायोग्ध विशेषञ्च डा. वास्त्र गाई ने कहा कि चीच पीढ़ी को कर्तरी में भीतिकान सबसे अहम है। गाई ने कहा कि चूटने या ज्याइट के प्रत्यायोग्ध के बाद उसके समी व स्टीक एक्सिस पर काम करना डी आपरिना की सफला है। है समें के प्रमुख बुटना प्रत्यायोग्ध विकित्सक डा. कृष्णितरण जो अनेक लाहत सजी कर चुके हैं, ने कहा कि यह पढ़ में भी प्रक्रित है। है ने कहा कि यह एक पी भी प्रक्रित है है ने कहा कि यह एक पी भी प्रक्रित है है ने कहा कि समी में एक पूर्व है जाता है। आधार्याव्याव्याव्याव्या में मान स्था से इक्सरेड हिटेकटर आधारित है। उसपाटन समानोह में भी मौजूद बेलेक्यू के सीईओ पी टंडन सुहित कई प्रसूख विकित्सक मौजूद बेल कई



23 November, 2013

বেলভিউ ক্লিনিকে হাঁটুর অ্যাম্বোপ্লাস্টি

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



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."



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".



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".



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



We accept Cashless Mediclaim

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1	Apollo Munich Insurance Co Ltd		
2	Max-Bupa Health Insurance Co Ltd		
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6	Birla Sun Life Insurance		
7	Bajaj Allianz Life Insurance Co Ltd		
8	Bharti AXA Life Insurance Co Ltd		
9	HDFC Standard Life Insurance Company Ltd.		
10	ICICI Prudential Life Insurance Co. Ltd.		
11	IDBI Fortis Life Insurance Co, Ltd.		
12	Max New York Life Insurance Co. Ltd.		
13	MetLife India Insurance Co. Ltd.		
14	Reliance Life Insurance Co. Ltd.		
15	SBI Life Insurance Co. Ltd.		

Star Union Dai-ichi Life Insurance Co. Ltd.

Cholamandlam MS General Insurance Co. Ltd.

Bajaj Allianz General Insurance Co Ltd

Bharti Axa General Insurance Co. Ltd.

Future Generali India Insurance Co.Ltd.

ICICI Lombard General Insurance Co. Ltd.

Shriram General Insurance Company Limited

IFFCO Tokio General Insurance Co. Ltd.

HDFC Ergo Genral Insurance Co Ltd

Reliance General Insurance Co. Ltd.

TATA AIG Life Insurance Co. Ltd.



Companies & Majority of

TPAs Accepted By Us





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- The New India Assurance Co. Ltd. 30
- The Oriental Insurance Co. Ltd. 31

National Insurance Co Ltd

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- 32 United India Insurance Co. Ltd.
- 33 Universal Sompo General Insurance Co. Ltd

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.

	* Name :	
	* Address :	
	* City:	
	* Pincode :	
	* Phone :	
	* E-mail :	
* Why do you want to conferencing with	go for video the doctor :	
	Submit	Reset



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]





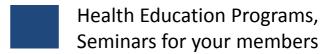
For Communities & Institutions

For The Kind Attention Of

- Hon. President / Secretary
- Admin. Dept. / Committee Heads
- Medical Officers / Office Bearers / Volunteers Of :
- Government /
 Para Govt. Bodies
- NGOs / Voluntary
 Organisations
- Schools / Colleges /
 Universities
- Educational / Research
 Institutions
- Housing Societies /
 Residential Colonies
- Senior Citizens' Groups /
 Old Age Homes
- Sports Bodies / Sports
 Training Institutions
- 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



Special Health Cards /
Packages for members

Concessions in Procedures / Implants / Doctor Fees

Please Call: +91 98319 11584 For Tieup / Health Program





For the Kind Attention Of

- 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 Treatment

Employees Health
Screening

Employees Health
Talk / Seminar

Pre Approved Treatment Loan

Exclusive Package For Employees

On-Site Health Checkup

Corporate Health
Desk Setup

Ortho Panel Membership Reimbursement Facility

Priority
Treatment Facility

Corporate
TeleHealth Clinic

Corporate Medi Tourism Facilitation Liaison Office / Ortho Concierge Ortho Health Tele Triage

Health Education via Corp. Intranet

Please Call: +91 98319 11584

For Corporate Tieup / Program / Panel Membership





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.



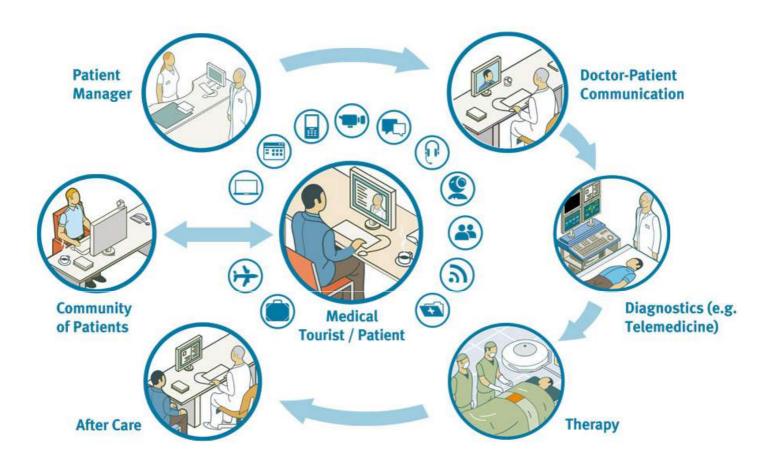
Please Call: +91 98363 65632

International Patient Manager / Co-ordinator





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



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

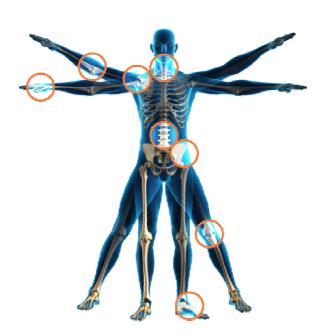
Please Call: +91 98363 65632 [Patient Relations Manager / Co-ordinator]



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-to-date 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