JAYPEE HEALTH TIMES

EDITOR-DR. TRIPTI BRAR, CONSULTANT-ENT, JAYPEE HOSPITAL

AROUND 15% OF PEOPLE IN THE WORLD, WHICH IS ABOUT 180 MILLION PEOPLE ARE AFFECTED BY ARTHRITIS.

Understanding Arthritis

rthritis is a disease that Aaffects the joints of the body. It is an inflammation of the joints and there are over 100 types of the diseases affecting people around the world. The different people affected by arthritis either develop the symptoms associated with the disease gradually or suddenly. The disease is particularly predominant among adult woman above the age of sixty. However, cases have been seen in children and teenagers as well.

SYMPTOMS TO LOOK-**OUTFOR**

Given that Arthritis affects the joints of the body, the most common symptoms associated with it revolve around joint pains and stiffness particularly in the morning. These may also be accompanied by the swelling of the joints, a reduction in the joint range of motion, as well as the skin around the joint becoming red.

Some of these symptoms may occur after performing an activity that qualifies to be categorized as rigorous or above the normal level of intensity. When the experienced pain persists in such a situation, it is advisable to seek medical attention. You should also seek the doctor's thumb, as well as the big toe advice:

i. The experienced pain is not III. SOFT MUSCLE SKELassociated in any way with an injury and goes on to persist for over a week.

ii. You experience back pains while and after lifting heavy objects and the use of pain killers and other remedies like applying heat do not bear any fruit.

iii. Your joints swell up and the swelling is not linked to any prior injury.

iv. You are feverish and feel unwell.

v. The muscle pains deter you from doing normal day to day activities.

vi. You experience night sweats or develop skin rashes.

vii. There is stiffness, swelling or pain in your joints.

Early diagnosis ensures that the disease is managed before further deterioration of the condition of the joints, therefore, ensuring that better results are achieved.

THE DIFFERENT TYPES **OFARTHRITIS**

As stated earlier, arthritis has over 100 different types based on a range of factors like how the disease has been caused. However, all these types can further be classified based on the symptoms exhibited by the patients.

I. INFLAMMATORY **ARTHRITIS**

As the name suggests, in this classification, tissue damage is caused by an inflammation occurring in and around the joints, therefore, causing pain, stiffness, and swelling. This kind of arthritis affects a number of joints in the body, and the most common forms

• Rheumatoid Arthritis

Ankylosing spondylitis

• Reactive arthritis • Psoriatic Arthritis

• Systemic Lupus Erythema-

• Connective Tissue Disorder

II. DEGENERATIVE OR

MECHANICAL ARTHRI-

It occurs as a result of ageing

or trauma resulting in wear

and tear. Degenerative or

mechanical arthritis is more

common among the elderly

and it particularly affects the

knees, hips, the base of the

joint.

ETAL PAIN

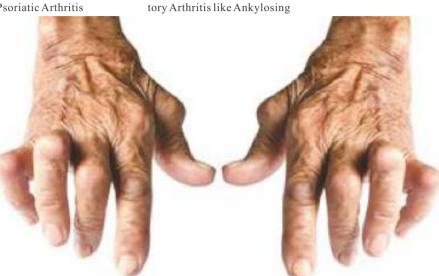
Articular

Cartilage

Meniscus

Normal

oint . Space



result of problems related to

other organs inside the body

or as a result of a degenerative

condition like Osteoarthritis

or Osteoporosis or Inflamma-

Photo Credits: Rheumatology Advisor

Spondylitis. V. CONNECTIVE TISSUE

affects tendons, ligaments and cartilage whose function is to support, bind and separate body tissues and organs. The people who have developed inflammation in these tissues have experienced a number of symptoms. CTD is associated with following types of arthritis: Systemic Lupus Erythematosus (SLE), Scleroderma, Syogren's and Dermatomy-

DISEASE (CTD)

joints. The pain may be as a disease affects the elderly and

women more often, it can still

affect people of all ages and

gender. Also, regardless of

race and job type, arthritis can

still affect you.

Arthritis can be caused by a

i. Genetic - most types of arthritis are genetic and run in

ii. Lifestyle - people whose lifestyle involves little physical activity or a lifestyle that is physically demanding

iii. Environmental factors having had a previous injury or infection as well as

WHAT ARE THE CAUSES **OFARTHRITIS?**

combination of different factors which include:

the family.

may be at risk factor.



Space

WHAT ARE THE TESTS

AND THE TREATMENTS

There are a number of tests

that can be recommended by

Rheumatologists in order to

make a comprehensive

diagnosis on the severity and

extent of damage caused by

the disease. These tests are as

smoking

AVAILABLE?

I. TESTS

Narrowing

diagnosis, monitoring and drug therapies are used for treatment of arthritis.

• X-Rays – they make it 1. To take care of the pain and possible to view the extent of damage and bone abnormalities.

• MRI Scans - used to view soft tissues, inflammation and the early detection of problems.

• CT scan – this is a more detailed approach as it gives clear images of the skeleton and other tissues.

• Ultrasound – it helps in the detection of inflammation around joints (synovitis).

• Synovial Fluid Analysis analyses the lubricating fluid from the joints and the results are used to diagnose inflammation, gout, and infection.

II. TREATMENT

After a comprehensive diagnosis has been made, the doctors recommend the treatment method that is appropriate to handle the severity, complexity and the type of arthritis that would guarantee the best results. These include orthopaedicians, rheumatologists, and joint replacement and rehabilitative experts. Jaypee Hospital, Noida offers the best of these. These treatment options are as highlighted below:

In the treatment or arthritis,

two main reasons:

stiffness caused by the disease. Painkillers, anti-inflammatory drugs are administered to the patient.

2. To take care of the infla matory disease and to improve the outcome of the make a small incision on the skin of the patient and using pencil-sized instruments the surgeons gain access that enables them to view the different structures inside the joint. This is made possible by the instruments they use which contain a lighting

system and a small lens. The arthroscope is very important

The surgery ensures that the damaged cartilage and the bone are removed and a prosthesis, which is an artificial equivalent is used as a replacement. Different prostheses types are available based on the age, bone quality, already existing deformity, activity profile, as well as the expected range of



treatment, disease modifying anti-rheumatic drugs together with biological therapies are administered to the patient.

· Arthroscopy and Arthroplasty

Arthroscopy is a surgical procedure that is used to is removed and an artificial visualize, diagnose and treat replacement is used in its ailments in the joint. The place. Joint replacement is procedure is carried out more common for the hip and byorthopedic surgeons who knee joints.

diagnosis which is usually more accurate than the ones made from X-Ray studies.

This is a treatment procedure

Joint Replacement

as it is used to make the final

where the degenerated joint

- Dr. Sonal Mehra

longevity.

MD (Internal Medicine), DM (Rheumatology & Clinical Immunology) Associate Consultation -Rheumatology Jaypee Hospital, Noida

motion of the joint and its







Our rheumatology department is stronger than ever.

Jaypee Hospital is equipped to deal with all Rheumatological disorders. We offer state-of-the-art Rheumatology services backed by one of India's best Rheumatology team.

Disorders treated: Systemic Lupus Erythematosus

(SLE)/Lupus - Anti-phospholipid Antibody Syndrome - Rheumatoid Arthritis

- Crystallarthopathies: Gout/CPPD

Spondyloarthopathies Ankylosing Spondylitis/Psoriation

Biological Therapies Soft Tissue Injections Ultrasound Guided Joint

Services:

Primary Sjogren's Syndrome Sclerosis)

- Dermatomyositis/ Polymyositis

Paediatric Rheumatology

For appointments/queries please call: 901 536 5535

- Metabolic Bone Disease

- Juvenile Idiopathic Arthritis

Auto-inflammatory Syndromes

rimary Immunodeficiency

Osteoporosis

Osteoarthritis



Back pain is a very common

lar part of the body.

problem among many people in the world due to a number of factors such as sedentary

lifestyle that most people are

IV. BACK PAIN

This form of arthritis is

accompanied by pain that is

largely felt on the tissues than

on the bones and the joints.

This pain is usually a result of

overuse or injury to a particu-

within the joint itself. WHO CAN GET ARTHRI-TIS?

painful.

Gout comes about as a result

of the deposition of uric acid

crystals within the joint and it

mainly affects the joint at the

base of the big toe. The

condition is extremely

VII. SEPTIC ARTHRITIS

This is a result of an infection

Arthritis is a common adopting. Back pain can be condition throughout the associated with muscles, world. Despite the fact that the discs, ligaments, bones and



• Blood tests – this is a critical test that helps in the



Understanding Heart Attack

ne of the leading causes of death is heart attack, which implies problems with the heart and vessels supplying blood to the heart muscles. There's no one cause for heart attack, but there are risk factors that increase the chances of developing it. The more risk factors you have. bigger is risk of a heart attack. Hence it is important that we understand what affects your heart so that you can take preventive measures to keep it healthy.

· A heart attack occurs when the flow of blood to the artery supplying heart muscle is blocked. The blockage is majorly due to build-up of fat, cholesterol and other substances against the inner lining of the arteries that carry blood to the heart. This build-up is known as plaque, which eventually breaks away and forms a clot that interrupts blood flow and weakens the heart muscles. The reasons for plaque build-up could be many like smoking, diabetes, high BP, cholesterol, unhealthy food habits, lifestyle, age, etc.

RISK FACTORS THAT CAN LEAD TO A HEART **ATTACK**

Our heart is the size of our fist and the habitual risk factors make it vulnerable to numerous conditions that can affect its functioning and lead to cardiovascular diseases. Risk factors like family history, diabetes cannot be outdone but factors associated with lifestyle can be modified. Like:

· Physical inactivity

- Unhealthy diet • Uncontrolled high blood
- pressure
- Smoking · Uncontrolled high cholesterol
- · Obesity and being overweight

SYMPTOMS OF A HEART

There are certain signs and symptoms that need to be observed and immediate action should be taken to save the natient's life.

- Pressure, ache or a squeezing sensation in the chest or arms that can spread to your neck, jaw or back
- · Nausea, indigestion or heartburn
- · Shortness of breath
- Fatigue
- · Light headedness or sudden dizziness

IMMEDIATE ACTION:

If you see in someone the symptoms of a heart attack or if he/she has fallen unconscious due to a heart attack, immediately call for emergency medical help.

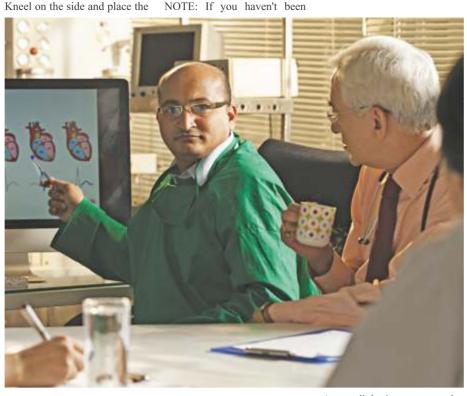
The second step would be to check, if the person is breathing and has a pulse. If there is an absence of breathing or if you cannot find a pulse, only then begin giving the CPR in order to keep the blood flowing. CPR is an emergency life-saving procedure and can be done by any trained person.

STEPS TO PERFORM A CPR(CARDIOPULMO-NARY RESUSCITATION)

on his back on a firm surface. Kneel on the side and place the

• Make sure the patient is lying compressions per minute.

CORONARYANGIOPLAS-TY AND STENTING



heel of your hand on the center of the chest.

· With straight arms, cover the first hand with your other hand and interlock the fingers of both together. Fingers should be raised and not touch the patient's chest or rib cage.

Lean forward with your shoulders directly over the person's chest and press down about two inches. Release the pressure, but not your hands, and let the chest swell back

· Repeat to give 30 compressions at a rate of 100 -120

trained in CPR, doctors recommend performing only chest

you have been trained in CPR, you can go on to opening the airway and rescue breathing.

DIAGNOSIS AND LINE OF **TREATMENT**

There is no single test diagnose cardiovascular diseases. Electrocardiogram (ECG), Echocardiography, Cardiac Enzymes (troponin) and Angiography can help in diagnosing heart attacks. Treatment includes medication and interventions like

symptoms and the cancer is

detected during a mammo-

gram or a physical examina-

tion by a doctor. Symptoms of

Changes in size and shape

· A lump or thickening in

· Crusting, sores or ulcers,

redness or scaly appear-

Changes in colour of the

Swelling or discomfort in

either of the breasts

breast cancer could be:

of the breasts

ance on nipple

nipple

the armpit

A cardiologist traces the blockage and use the minimal invasive technique to release the blockage and restore the

blood flow to the heart.

Post-procedure, the hospital focuses on cardiac rehabilitation, which involves a holistic program that helps patients to restore to normal daily activities through medication, lifestyle changes, emotional counseling and drug therapy.

> - Dr. B. L. Agarwal Associate Director-Interventional Cardiology Jaypee Hospital, Noida

Health Tests Every Father Should Get



F athers generally ignore their own health, as they are busy looking after the rest of their family. Ignoring pains, popping pain killers and working tirelessly takes a toll on their health

In the present day scenario, stress, pollution, lack of exercise, junk food, smoking and alcohol are all adding to the health issues. These lifestyle changes have heralded a steep rise in diseases like hypertension, diabetes and obesity, eating away gradually into our healthy life.

Therefore, here are a few preventive steps that can be taken.

1.BLOOD PRESSURE

Caused by increasing pressure exerted by blood within the blood vessels. If unchecked, leads to heart ailments, strokes and kidney failure. A father should regularly monitor his blood pressure. He should also cut down on salt intake.

2. BLOOD SUGAR

This has become a global epidemic, with millions getting diabetes these days. Fathers should check their blood glucose regularly to prevent heart disease, kidney failure and eye related problems.

To maintain a healthy lifestyle, keeping cholesterol under control is very important. Again, if left unchecked it will lead to heart problems and strokes. So, one needs to check their lipid profile yearly.

4. BONE DENSITY

Although osteoporosis was thought to be more prevalent in women, it is highly prevalent in male population too these days. Check your bone strength by checking bone density.

5. PROSTATE CANCER

The checking of prostate cancer as a routine has become controversial, with studies showing preventive checks may do more harm than good in these people. However, in the right setting and in families with history of prostate cancer, It would be worthwhile to screen for cancer in fathers above 40 years of age

6. VACCINES

Adult vaccination is a must, specially for fathers above 60 yrs of age, and those with co-morbities like diabetes. Vaccines can be given for influenza, hepatitis and pneumonia.

7. AUDIOGRAM

This test measures hearing evident at early stages.

With age, eyesight deteriorates. Visit your doctor regularly for eye tests.

9. ECG/STRESS TEST

Fathers should conduct these tests once after 30 yrs of age to look for any heart ailments. One can repeat these tests at an interval of four to five years.

10. DENTAL CHECK-UP

As we grow old, our jaw bones and teeth get weaker. Getting regular dental check ups would help in preventing gum disease, oral cancers and tobacco chewing related issues.

11. COMPLETE BLOOD COUNT

It is a basic test to rule out anaemia and blood related

All these tests form a crucial part in determining your overall health as a father. So, if you really love your family, please do not ignore your health. Go for a health check up now.

> - Dr. Vinay Labroo MD (Internal Medicine) Additional Director -Internal Medicine Jaypee Hospital, Noida

Understanding Breast Cancer:

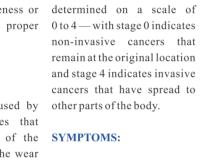
ancer is the disease of more young women are etc. Increases the risk. cells divide and die out causing abnormality in blood or lymph fluids or a lump called tumour. Breast cancer is the abnormal growth of the cells lining the breast lobules or ducts. This uncontrollable growth can also spread to other parts of the body.

due to lack of awareness or unavailability of diagnostic facility.

STAGES AND TYPE

Breast cancer is caused by genetic abnormalities that happen as a result of the SYMPTOMS: Among the cancers affecting ageing process and the wear

and stage 4 indicates invasive





ranks on the top, with the rate What as high as 25.8 per 100,000 this women and mortality of 12.7 However certain per 100,000 women, accord- like obesity, ing to health ministry. The imbalance, exposure

Diabetes Clinic

Thyroid Clinic

Asthma Clinic

Breast Cancer Clinic

exactly cannot be situation has become radiations, age, family worrisome because more and history, delayed menopause

woman to be aware of these triggers symptoms and they should stated. seek immediate consultation factors if any abnormalities or changhormonal es are observed in the body. to However, there are cases when some people have no

Monday to Saturday

10 am to 1 pm

Every Friday

10 am to 1 pm

Every Saturday

Every Thursday

10 am to 2 pm

11 am to 2 pm

Specialised clinics for specialised treatments.

the cells, wherein the falling prey to breast cancer Breast cancer stage is

Persistent, unusual pain that persists even after the menstrual cycle Most breast changes aren't always due to cancer. However, if you observe the slightest of change, it is best to see a doctor.

DIAGNOSIS

Headache Clinic

Epilepsy Clinic

Vision Clinic for Children

· Self-examination:

A woman can consult a doctor and understand the technique of self-examination and what are the symptomatic changes that can occur in the breast. For self-examination stand in front of a full-length mirror and follow as instructed by

Mammogram

It is the most effective way to detect breast cancer. Mammograms can trace lumps at a very early stage, even before the lumps can be detected by physical examination. It is suggested that woman above the age of 40 or 45 should go for screening once every 2 years

However, these are preliminary measures. The only way to confirm cancer is through a biopsy. Right screening at the right time can ensure early detection, which can become a huge factor in the cancer treatment and the survival of the patient. Awareness and timely consultation are two main factors that can help women.

> - Dr. Pawan Gupta Additional Director -Surgical Oncology Jaypee Hospital, Noida

Every Saturday

2 pm to 4 pm

Every Friday

11 am to 3 pm

9 am to 5 pm

Monday to Saturday

Computer Navigation Knee Replacement

Over the years technology has transformed healthcare and one boon has been the Computer Navigation or Computer Assisted Surgery Total Replacement (CAS-TKR). technique developed to improve the accuracy and precision and

in the case of TKR, it

results in reducing the

alignment.

of

outliers

The setup majorly consists of three components: computer platform, tracking system, and a rigid body marker. The tracking system is in sync with the body markers and tracks their motion with the help of computer processing within the three dimensional space. The surgical procedure is initiated with an infrared sensor marking the process to map the anatomy of the arthritic knee and adjacent femur and tibia of the bone structure. Once the machine accurately measures the position of the knee, the adjacent spaces detects the deformity of the bone, the surgeon uses the navigation tools to perform the surgical procedure and changes need to be made via bone cuts and ligament balancing so as to position the new artificial knee in the proper anatomic

years This process is accurate the percentage of error to

because the computer almost zero, thus enhancing captures a 3D image of the the performance and outcome



surgery. The surgeon then interprets the dimensions, the images and the data to ensure maximum precision. Maximum accuracy means that the patients can regain much better bone function and mobility post-recovery. The incision for surgery is very small and the dissections are minimally invasive which assures better protection for the muscles and tendon that hold the knee.

Earlier the standard method for aligning the bones was using a intramedullary rod, in the case of CAS-TKR the alignment is achieved by accurate marking and this not only improves position of the knee implants, but it reduces

This technique not only helps to improve the positionof implants during knee replacement surgery, but it can also enhance surgical performance and help reduce errors. With better precision, the surgical cuts are minimal and can be individually administered as per the condition and need of surgery. This reduces the loss of blood, faster recovery and lesser hospital stay.

> Institute of Orthopaedics & Spine Jaypee Hospital, Noida

Now you can consult the doctor after work

for all your health concerns.

Evening OPD by specialists available between 5pm - 7pm



To book an appointment, please call 0120 412 2222