



**No pain No surgery  
Even No Knee Replacement**

**Getback** to your  
daily routine  
without any pain



**Osteoarthritis (OA)** is the most common degenerative joint disease prevalent in Pakistan. **Cartilage** which acts as a cushion between bones and joints begins to wear out causing inflammation & pain in the joints.

### GIVE YOUR KNEES A NEW LIFE

A recent study suggests that Osteoarthritis is the leading ailment in Pakistan in terms of number of patients. When Osteoarthritis is found in Knee is known as Knee Osteoarthritis. Till recently there was no treatment available which may reverse the degenerating process of cartilage of Knees which is the main cause of Knee Osteoarthritis. The ultimate cure to Knee Osteoarthritis is to repair or regenerate the damaged cartilage of the Knee.

For the first time in Pakistan, Cytotron machine based on a new Hi-tech revolutionary RFQMR (Rotational Field Quantum Magnetic Resonance) technology has been introduced for the treatment of Knee Osteoarthritis. Successful clinical trials have proved that knee joint cartilage can be regenerated and repaired by RFQMR based Tissue Engineering Technology with Cytotron Therapy.

### ABOUT THE TREATMENT

RFQMR regenerates cartilage and repairs degenerated cartilage and relieves chronic pain and disability of joints particularly the Knee joint non-invasively with multi-frequency rotating quantum electromagnetic resonating beams.

The magnetic pulses generated from 288 special RFQMR guns are just focused onto the affected joint. The treatment is given for 30 minutes to 1 hour daily (**depending whether the patellofemoral space is involved**) for a period of 21 days consecutively. The treatment does not require any hospitalization and the patient can carry on his routine day to day activities during the treatment. The patient feels no pain or discomfort and can even listen to music or read during the treatment.

### SAFE AND NO SIDE EFFECT

As this treatment utilizes sub radio and near radio frequency therefore there is virtually no side effect.

The International Commission for Non-Ionising Radiation Protection has certified RFQMR Radiofrequency Bandwidth as clinically safe. The patients are evaluated by X-rays, MRI, Goniometric and Dynamometric measurements before and after the treatment which show all round improvements.

### AMAZING RESULTS

Using the Knee Society Scoring System and Dynamometry, the patients were re-examined after prescribed treatment on various parameters like Pain Score, Range of Movement, Total Knee Score, Total Functional Score including Cartilage Thickness. The study showed significant improvement on Total Functional Score based on internationally accepted standards.

- Almost all patients show improvements.
- Many patients can squat down on the floor.
- Most patients have no pain after treatment.
- Range of Motion, Extension, Flexion, Joint Stability and Alignment improved significantly when evaluated using Knee Society Scoring System.
- Almost all patients can walk easily.

\* The above observations are backed by clinical trials reported in

1. Journal of Osteoarthritis Research Society International published by Elsevier Ltd.  
doi:10.1016/j.joca.2006.06.019
2. Journal of Biomedicine & Pharmacotherapy 59 (2005) 388-394
3. Indian Journal of Aerospace Medicine, Winter 2004 Volume 48 Number 2
4. Physiotherapy August 2002/vol 88/no 8

*For the first time in Karachi, a new Hi-tech revolutionary RFQMR technology using Cytotron for Osteoarthritis has been brought out by CytoGen Centre for Joint Rejuvenation with state-of-the-art facilities. This revolutionary treatment is available without any surgery, painless, comfortable and results are promising.*

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