Arthritis at the base of the thumb

What is it?

The universal joint at the base of the thumb, between the metacarpal and trapezium bones, often becomes arthritic as people age. It is osteoarthritis, which is loss of the smooth cartilage surface covering the ends of the bones in the joints. The cartilage becomes thin and rough, and the bone ends can rub together. Osteoarthritis can develop at any age, but usually appears after the age of 45. It may run in families, and it sometimes follows a fracture involving the joint many years before.

Arthritis of the basal joint of the thumb is common in women and less common in men. X-rays show it is present in about 25% of women over the age of 55, but many people with arthritis of this joint have no significant pain.

What are the symptoms?

- Pain at the base of the thumb, aggravated by thumb use.
- Tenderness if you press on the base of the thumb.
- 3. Difficulty with tasks such as opening jars, turning a key in the lock etc.4. Stiffness of the thumb and some loss of

ability to open the thumb away from the

5. In advanced cases, there is a bump at the base of the thumb and the middle thumb joint may hyperextend, giving a zigzag appearance.

What is the treatment?

The options for treatment include:

- Avoiding activities that cause pain, if possible.
- Analgesic and/or anti-inflammatory medication. A pharmacist or your family doctor can advise.
- 3. Using a splint to support the thumb and wrist. Rigid splints (metal or plastic) are effective but make thumb use difficult. A flexible neoprene rubber support is more practicable.
- 4. Steroid injection improves pain in many cases, though the effect may wear off over time. The risks of injection are small, but it very occasionally causes some thinning or colour change in the skin at the site of injection. Improvement may occur within a few days of injection, but often takes several weeks to be effective. The injection can be repeated if needed.
- 5. Surgery is a last resort, as the symptoms often stabilise over the long term and can be controlled by the non-surgical treatments above. There are various operations that can be performed to treat this condition. These are listed below:

 a. Osteotomy, which means cutting and realigning the metacarpal bone next to the arthritic joint.

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- b. Removal of the trapezium (trapeziumectomy) which is removal of the bone at the bottom of the thumb, which forms one surface of the arthritic joint, sometimes combined with reconstruction of the ligaments.

 c. Fusion of the joint, so that it no longer
- d. Joint replacement, as in a hip replacement.

moves.

e. Denervation, which means cutting small nerve branches that transmit pain from the arthritic joint.

Removal of the trapezium is the most commonly performed operation. Your Hand Surgeon will advise you on the best option for your thumb.

