THE HONG KONG COLLEGE OF ORTHOPAEDIC SURGEONS POSITION STATEMENT IN MANAGEMENT OF OSTEOARTHRITIS OF KNEE

Endorsed by: The Hong Kong College of Orthopaedic Surgeons

Cite this Position Statement

(I) NON-SURGICAL MANAGEMENT

a. Non-pharmaceutical management

(i) Education and Exercise

Patient education

We <u>RECOMMEND</u> patients suffering from osteoarthritis of knee to receive education program for symptoms relief.

Land-based Exercise

We <u>RECOMMEND</u> land-based exercise (both supervised and unsupervised exercise) for pain relief and functional improvement in patients suffering from osteoarthritis of knee.

Water-based Exercise

We <u>RECOMMEND</u> water-based exercise as a treatment for patients suffering from osteoarthritis of knee.

Self-management program

We <u>RECOMMEND</u> patients suffering from osteoarthritis of knee to receive self-management program for pain relief and functional improvement.

Weight reduction

We <u>RECOMMEND</u> patients with high body mass index (BMI) to achieve effective and sustainable weight control for pain relief and functional improvement.

(ii) Physical treatment

Thermotherapy

We <u>ARE NOT ABLE TO ADVOCATE</u> for or against the use of thermotherapy in the management in knee osteoarthritis.

Transcutaneous electrical nerve stimulation

We <u>ARE NOT ABLE TO ADVOCATE</u> for or against the use of transcutaneous electrical nerve stimulation as a treatment for patients suffering from osteoarthritis of knee.

Percutaneous electrical nerve stimulation and pulsed electromagnetic wave therapy

We <u>ARE NOT ABLE TO ADVOCATE</u> for or against the use of percutaneous electrical nerve stimulation and pulsed electromagnetic field therapy in management of osteoarthritis of knee.

Acupuncture

We <u>ARE NOT ABLE TO ADVOCATE</u> for or against the use of acupuncture in management of osteoarthritis of knee.

(iii) Orthosis and braces

Cane

We <u>RECOMMEND</u> the use of cane to improve pain and function of patients suffering from osteoarthritis of knee.

Valgus off-loading Knee brace

We <u>ARE NOT ABLE TO ADVOCATE</u> for or against the use of brace to improve pain, function and quality of life of patients suffering from osteoarthritis of knee.

Knee sleeve

We <u>ARE NOT ABLE TO ADVOCATE</u> for or against the use of knee sleeve to improve pain and function of patients suffering from osteoarthritis of knee.

Lateral wedge insole

We <u>DO NOT RECOMMEND</u> the use of lateral wedge insole for patient with knee osteoarthritis.

b. Pharmaceutical management

(i) Analgesics and anti-inflammatory agent

Paracetamol

We <u>RECOMMEND</u> the use of paracetamol as a first-line analgesic for patients suffering from osteoarthritis of the knee.

Topical non-steroidal inflammatory drug

We <u>RECOMMEND</u> the use of topical NSAIDs as first-line treatment for patients suffering from osteoarthritis of knee.

Oral non-steroidal inflammatory drug (NSAID)

We <u>RECOMMEND</u> the use of oral NSAIDs (in conjunction with a protonpump inhibitor) as a second-line treatment for patients suffering from osteoarthritis of knee. However, the patients should not have contraindications to this type of medication and have had a poor response to the first line agents.

Opioid

We <u>ARE NOT ABLE TO ADVOCATE</u> for or against the use of opioid analgesics in the treatment of pain associated with osteoarthritis of knee.

(ii) Intra-articular injections

Intra-articular steroid injection

We <u>ARE NOT ABLE TO ADVOCATE</u> for or against the use of intra-articular steroid injection in management of osteoarthritis of the knee for short-term pain relief of symptomatic osteoarthritis of knee. There is a concern of increased risk of peri-prosthesis infection if the patients are potential candidates of total knee arthroplasty.

Intra-articular hyaluronic acid injection

We <u>ARE NOT ABLE TO ADVOCATE</u> for or against the use of intra-articular hyaluronic acid injections as a treatment of symptomatic osteoarthritis of knee.

Intra-articular platelet rich plasma injection

We <u>ARE NOT ABLE TO ADVOCATE</u> for or against the use of intra-articular platelet rich plasma injection in management of osteoarthritis of knee.

c. Oral supplements (glucosamine, chondroitin and vitamin D)

We <u>ARE NOT ABLE TO ADVOCATE</u> for or against the use of oral supplements as a treatment for patients suffering from osteoarthritis of knee.

d. Denervation therapy

We <u>DO NOT RECOMMEND</u> the use of denervation therapy as a treatment for patients suffering from osteoarthritis of knee.

(II) SURGICAL MANAGEMENT

a. Non-arthroplasty surgery

(i) Arthroscopic lavage and debridement

We <u>DO NOT RECOMMEND</u> arthroscopic lavage as a treatment for patients suffering from osteoarthritis of knee.

(ii) Partial meniscectomy

We <u>ARE NOT ABLE TO ADVOCATE</u> for or against arthroscopic partial meniscectomy as a standard treatment for patients suffering from osteoarthritis of knee. However, there may be a role in selected patients who present with symptoms of locking, and fail to respond to an initial trial of non-operative treatment.

(iii)High tibial osteotomy

We <u>RECOMMEND</u> performing high tibial osteotomy in selected patients who suffer from symptomatic osteoarthritis of medial compartment of knee.

b. Knee arthroplasty

We <u>RECOMMEND</u> performing knee arthroplasty for patients suffering from symptomatic end-stage osteoarthritis of knee after failure of initial attempt of non-operative management.

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