IN CONSULTATION WITH ADJ ASST PROF WANG LUSHUN, VISITING CONSULTANT, DIVISION OF HIP \& KNEE SURGERY, DEPARTMENT OF ORTHOPAEDIC SURGERY, NG TENG FONG GENERAL HOSPITAL \& CONSULTANT, DIVISION OF HIP \& KNEE SURGERY, DEPARTMENT OF ORTHOPAEDIC SURGERY, JURONG MEDICAL CENTRE; AND MS FAYE NG, SENIOR PHYSIOTHERAPIST, NG TENG FONG GENERAL HOSPITAL

Based on a 2019/2020 local survey, among Singapore residents aged 18 to 74 years:


Singaporeans are obese


27\% risk of total knee replacement (TKR)

These patients are also at high risks of
complications
such as higher rates of wound infection


## Aerobic and resistance exercises recommended

## 3 days/week 1 hour/day

Aquatic aerobic exercises
(non-weight bearing or impact activities) are highly recommended.

## Walking

Walk across the pool, swinging your arms as you do.


## Jogging on the spot

Jog on the spot by lifting your right knee up and alternate with your left knee, swinging your arms as you do.


## Standing side leg lifts

Keep both knees straight and lift your right leg out to the side. Lower the right leg slowly, keeping your knee straight. Repeat 10 times. Repeat with your left leg.


## Knee lifts into extension

Bend your right knee and bring your thigh parallel to the water surface. Straighten your right knee forward and hold the position for a few seconds. Then lower your right leg down slowly, keeping your right knee straight. Repeat 10 times. Repeat with your left leg.


## Half squats

Hold onto the side of the pool for balance. Bend both knees to lower your hips back into a half squat position with your back straight. Hold the position for a few seconds. Return to starting position. Repeat 10 times.


## Single leg balance

Lift your right foot off and maintain your balance against the resistance of the water. Hold the position for 15 to 20 seconds or as long as possible. Repeat with your left leg.


Stop and get out of the pool immediately if you experience any giddiness, breathlessness, pain, or other discomfort. Seek medical attention if required.

