

Should I Lump It?

How to handle that hernia
by Dr Gerald Tan



A GROIN HERNIA refers to the protrusion of abdominal contents such as fat, small or large intestine through an area of weakness in the lower abdominal wall. These contents are wrapped in the inner lining of the abdominal cavity to form a balloon-like sac.

The majority of lumps in the groin are inguinal hernias (through the inguinal canal in the abdomen). Less common causes of groin lumps are:

- Femoral hernias
- Swollen lymph nodes
- Cysts or fatty lumps called lipomas of the spermatic cord
- Swollen veins known as saphena varix (this is rare)

To identify the most likely cause of your groin lump, your doctor will usually ask you to lie down and cough a few times to see if and where the lump bulges out, and repeat the same manoeuvre with you standing upright. For greater accuracy, he may order

an ultrasound of the groin to better visualise the anatomical location and contents of the lump.

Who is at risk of developing a groin hernia?

Groin hernias may develop at any age. In infants and young children, these congenital hernias arise at birth, whilst those that arise in adulthood are commonly associated with excessive straining of the abdominal muscle wall due to obesity, chronic cough, repeated heavy lifting, constipation, or straining to pass urine due to prostate enlargement. Men are eight times more likely to develop a groin hernia than women, and twenty times more likely to require surgical repair of these hernias.

What problems can an inguinal hernia cause if I leave it alone?

Inguinal hernias are a common occurrence, and for the most part

are not harmful. They usually cause intermittent pain and/or a dull ache in the groin, and in some cases a visible bulge when patients cough or stand up. In more severe cases, the hernia contents cannot be reduced back into the abdominal cavity (incarcerated hernia), and if the blood supply to these bowel loops or fat is blocked (strangulated hernia), patients may develop constant severe, unremitting pain and tenderness over the bulging area, associated with fever and vomiting. In this scenario, patients are best advised to seek immediate surgical treatment before the situation worsens.

When should I consider getting my hernia repaired?

Inguinal or femoral hernias arise due to areas of weakness or defect in the abdominal wall. As such, the only definitive treatment for these hernias is surgery. Patients who notice increasing pain, discomfort or



Patients who notice increasing pain, discomfort or tenderness associated with their groin lumps should seek early surgical repair before the abdominal contents become incarcerated or strangulated, which may require much more complex surgery to fix the problem.

tenderness associated with their groin lumps should seek early surgical repair before the abdominal contents become incarcerated or strangulated, which may require much more complex surgery to fix the problem.

Watchful waiting may be recommended for men with asymptomatic reducible inguinal hernias. However, watchful waiting cannot be recommended for women with femoral hernias, as the risk of hernia strangulation is significantly higher in this group of patients.

What surgical techniques are available?

Surgeons performing surgical repair of inguinal hernias follow time-tested principles:

1. Clear identification of the hernia sac or areas of defect in the muscle wall
2. Reduction of the hernia sac and its contents back into the abdominal cavity
3. Definitive repair of the abdominal wall using sutures and/or meshes

Repair of inguinal hernias may be performed using a conventional groin

incision, or laparoscopically through small keyhole incisions (< 1cm). Most patients return home on the day of surgery, and the sensation of soreness over the wound usually resolves about one to two weeks after surgery. In 90% – 95% of patients undergoing hernia surgery, the repair is successful and the hernia does not recur.

Minimally invasive (laparoscopic) surgery has several advantages over conventional surgery – the incisions are small and look nicer; patients have less pain and quicker recovery after surgery; and they are able to return to work and regular activities much sooner. However, laparoscopic surgery costs slightly more than conventional open surgical repair, and in some cases may not be feasible or be the most appropriate approach. Some of these scenarios include:

- Painful incarcerated or strangulated hernias
- Large hernias extending into the scrotum
- Patients being morbidly obese
- Patients not being able to tolerate general anaesthesia

In such scenarios, open surgical repair still gives the best clinical outcomes.

What problems may arise after surgery?

The most common concerns immediately following surgical repair of inguinal hernias are:

- Bleeding and clot formation (haematoma)
- Inability to urinate due to spasm of the bladder opening (acute urinary retention)
- Infection of the surgical wound, characterised by redness and tenderness or pus coming out from the wound site.

Late complications after hernia surgery include:

- Persistent pain that does not go away (usually due to entrapped nerve)
- Shrinkage of the testicle on the side of hernia repair (due to injury of the testicular vessels)
- Recurrence of the hernia after some time – This tends to occur if the predisposing cause for the hernia remains untreated, such as chronic cough, constipation or straining to pass urine.

When can I resume my daily activities?

Most patients are able to return to work one to two weeks after hernia repair surgery, and can resume daily activities and sports four to six weeks after surgery, depending on their surgeon's recommendation. Until such time, they should refrain from lifting heavy objects (such as carry-on luggage or young children), or strenuous exertion in the gymnasium. ^{eh}



Dr Gerald Tan Yau Min is a senior consultant urologist at Mt Elizabeth Novena Hospital with over 18 years of clinical experience. He is internationally renowned for his expertise in minimally invasive and robotic surgery for prostate, kidney and bladder diseases. In 2012,

he was named the Outstanding Young Urologist of Asia by the Urological Association of Asia. Dr Tan has extensive experience with performing laparoscopic hernia surgery since 2007, and may be contacted at www.drgeraldtan.com.sg.