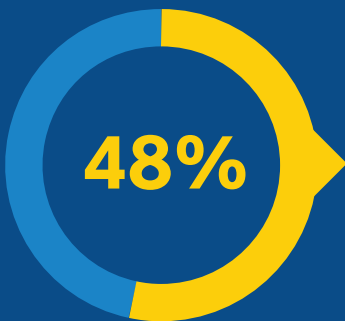


Is minimally invasive surgery (MIS) an option for you?

LESS PAIN AFTER SURGERY.¹ LESS RISK OF PROLONGED OPIOID USE.^{2,3}

LESS TIME ON OPIOIDS



less risk of opioid use 90 days after MIS^{3,†}

†Study compares open and MIS thoracic procedures. Other MIS procedures might have greater or reduced impact on prolonged opioid use.

1 IN 16 AMERICANS

will become a persistent opioid user after surgery⁴

Your risk for persistent misuse of opioids increases:

- The longer you take them^{5,6}
- The higher your dosage^{5,6}

HOW CAN MIS HELP?

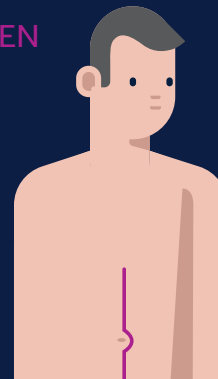
Evidence shows that MIS can reduce the risk of prolonged opioid use — and the potential for abuse.^{2,3,7}

So with MIS you get a smaller scar and¹:

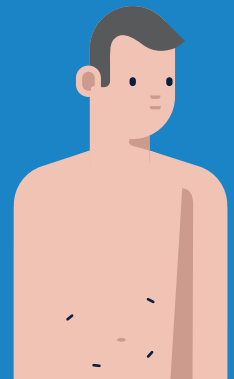
- Less pain
- Shorter hospital stay
- Fewer complications
- Faster return to normal activities

Open surgery: 1 incision up to 10 inches
MIS: 3 to 4 tiny incisions

OPEN



MIS



1. Tiwari MM, Reynoso JF, High R, Tsang AW, Oleynikov D. Safety, efficacy, and cost effectiveness of common laparoscopic procedures. *Surg Endosc*. 2011;25(4):1127–1135. 2. Stafford C, Francone T, Roberts PL, Ricciardi R. What factors are associated with increased risk for prolonged postoperative opioid usage after colorectal surgery? *Surg Endosc*. 2018;32(8):3557–3561. 3. Tuminello S, Schwartz RM, Liu B, et al. Opioid use after open resection or video-assisted thoracoscopic surgery for early-stage lung cancer. *JAMA Oncol*. 2018;4(11):1611–1613. 4. Brummett CM, Waljee JF, Goesling J, et al. New persistent opioid use after minor and major surgical procedures in US adults. *JAMA Surg*. 2017;152(6):e170504. 5. Mayo Clinic Staff. How Opioid Addiction Occurs. Mayo Clinic Website. <https://www.mayoclinic.org/diseases-conditions/prescription-drug-abuse/in-depth/how-opioid-addiction-occurs/art-20360372>. Published Feb. 16, 2018. Accessed Oct. 24, 2019. 6. Shah A, Hayes CJ, Martin BC. Characteristics of initial prescription episodes and likelihood of long-term opioid use - United States, 2006–2015. *MMWR Morb Mortal Wkly Rep*. 2017;66(10):265–269. 7. Nelson D, Nelson DB, Niu J, et al. Persistent opioid use among the elderly after lung resection: A SEER-Medicare study. *Ann Thorac Surg*. 2019 Aug 22. pii: S0003-4975(19)31216-0. doi: 10.1016/j.athoracsur.2019.06.095. [Epub ahead of print]

BE EMPOWERED.

Get more information at aboutmis.com.
And if you need surgery, ask your doctor if MIS is an option for you.

Medtronic
Further, Together