Pivot Guardian

Distraction System

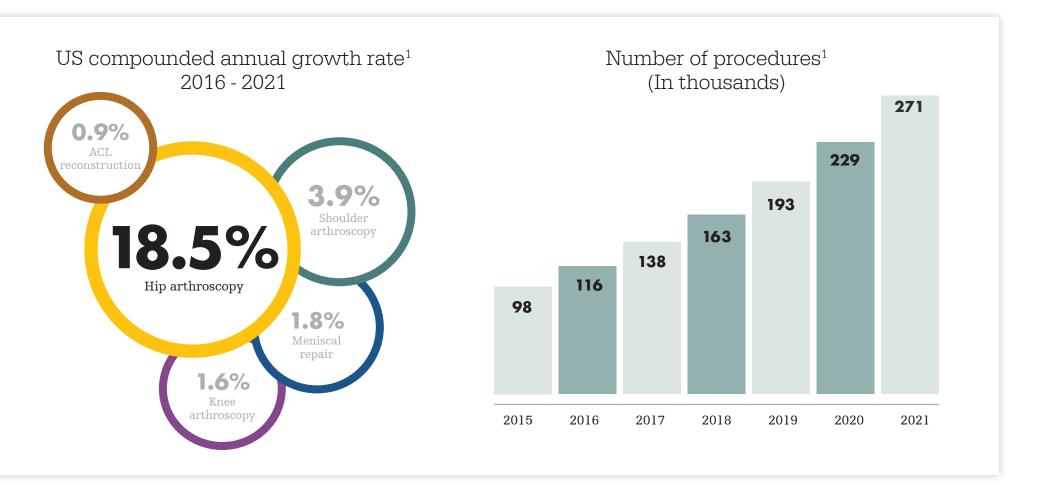
Freedom to operate



Mission

Together with our customers, we are driven to make healthcare better.

Demand for hip arthroscopy is **growing**



The hip arthroscopy opportunity

Innovation in hip arthroscopy can improve operating room efficiency and the standard of care for patients.

OR Efficiency



\$60-100

The approximate cost of each wasted minute of OR time in the US.⁷



1 hour

Adding a 1 hour case in an OR every day can increase annual profit by as much as \$500,000.8

Pudendal nerve dysfunction

Symptoms of neuropraxia of the pudendal nerve include perineal pain and hypoesthesia or anesthesia of the glans penis and scrotum in men and perineum and labia in women. This may be associated with sexual disorders including erectile and ejaculatory disturbances and hypo-orgasmia.²





Reported problems in the groin area.

The problems were temporary and disappeared typically within 2-4 weeks. Some patients reported numbness after 2 months. ⁹

Traction force & time



Traction time greater than 2 hours may increase the risk of skin lesions or nerve injury.⁴

>2 hours

Traction force needed to achieve sufficient visualization of the hip joint in an anesthetized patient. 5,6

50-120 lbf



An innovative design

The Pivot Guardian Distraction System



Traction force gauge

The system includes a traction force gauge that estimates the amount of force on the patient.



Post-free

The Pivot Guardian Distraction System is designed to mitigate post related complications.



The Pivot Guardian Distraction System is designed to minimize the time and effort required for transport, setup and takedown.



Fine and gross traction controls

Designed to provide precise control and better range-of-motion. The surgeon can easily make adduction, abduction, as well as extension and flexion hip adjustments. It also allows for internal and external rotation of the hip.

Gas shocks

Allow the surgeon to easily raise and lower the patient's foot during surgery.



Carbon fiber construction

Radiolucent carbon fiber construction minimizes the amount of metal components surrounding the hip, the anterior and posterior visualization during surgery, a "true AP radiographic shot".

Next generation boot

State-of-the-art design and manufacturing that improves the patient experience and operating room efficiency.





References

- 1. Global Market for Arthroscopy and Sports Medicine Devices US, 2017. Medadvicetracker. N.P., Order #MDT17002.
- 2. Mei-Dan, O, Kraeutler, MJ, Garabekyan, T, Goodrich, BA, Young, DA. Hip Distraction without a Perineal Post –A Prospective Study of 1000 Hip Arthroscopy Cases. Publication Approved by AJSM 2017.
- 3. Dippmann C, Thorborg K, Kraemer O, Winge S, Hölmich P "Symptoms of Nerve Dysfunction After Hip Arthroscopy: An Under-Reported Complication?" Arthroscopy 30(2) 202-207,
- 4. Dienst, M. & Grün, U. Orthopäde (2008) 37: 1108. doi:10.1007/s00132-008-1304-7.
- 5. Eriksson E, Arvidsson I, Arvidsson H. Diagnostic and operative arthroscopy of the hip. Orthopedics 1986;9:169-176.
- 6. Smart LR, Oetgen M, Noonan B, Medvecky M. Beginning hip arthroscopy: Indications, positioning, portals, basic techniques, and complications. Arthroscopy 2007;23:1348-1353.
- 7. Complexities in the Operating Room, Patrick Garner, UPMC Presbyterian and Montefiore Surgery Department, University of Pittsburgh, PAL.
- 8. The Cost of an OR Minute: Use and Abuse. Retrieved October 23, 2011 from Twin Peaks Group: http://www.twinpeaksgroup.com/blog/the-cost-of-an-or-minute-use-and-abuse/.
- 9. Frandsen L, Lund B, Nielsen TG, Lind M. Traction-related problems after hip arthroscopy. Journal of Hip Preservation Surgery 2017;4(1): 54-59.

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