

Justification for 107 Minute Procedure Time

Procedure Type	Operative Time	OR Turnover Time	Total OR Time	Total Number Estimated Procedures	Total Procedure Time (in minutes)
Total Knee Arthroplasty	94 minutes	45 minutes	139 minutes	450	62550
Rotator Cuff Repair	89 minutes	21 minutes	110 minutes	250	27500
Anterior Cervical Discectomy and Fusion	129 minutes	45 minutes	174 minutes	120	20880
Knee Arthroscopy	32 minutes	21 minutes	53 minutes	300	15900
Carpal Tunnel Release	13 minutes	21 minutes	33 minutes	100	3300
Total	357 minutes	153 minutes	510 minutes	1220	130130

When you take the total procedure time and divide it by the total number of procedures the average operative time based on the above estimates is 106.67 minutes, rounded up to 107 minutes. The above list includes the most five common procedures that the facility expects to perform at the facility. The procedure with the shortest procedure time is a carpal tunnel release and that is also included above. There are many procedures that will be performed at the facility that have longer procedure times than the five most common procedures listed above. It is anticipated that the facility average will likely be higher than this average.

The following studies were used to determine the average procedure time described in the application:

References

1. Does Operative Time Affect Infection Rate in Primary Total Knee Arthroplasty? Naranje, Sameer MD1; Lendway, Lisa PhD2; Mehle, Susan BS2; Gioe, Terence J. MD1. Clinical Orthopaedics and Related Research: January 2015 - Volume 473 - Issue 1 - p 64-69
2. Boyd JA, Karas SG, Urchek RJ, Farley KX, Anastasio AT, Gottschalk MB. Factors influencing operative time in arthroscopic rotator cuff repair: a comparison of knotless single-row vs. transosseous equivalent dual-row techniques. J Shoulder Elbow Surg. 2020 Jul;29(7S):S48-S52.

3. Safety and feasibility of outpatient ACDF in an ambulatory setting: A retrospective chart review. William C. Tally, Sanjiwan Tarabdkar and Boris V. Kovalenko. *International Journal of Spine Surgery* January 2013, 7 e84-e87
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5. Jacobsen MB, Rahme H. A prospective, randomized study with an independent observer comparing open carpal tunnel release with endoscopic carpal tunnel release. *J Hand Surg Br*. 1996 Apr;21(2):202-4. doi: 10.1016/s0266-7681(96)80097-0. PMID: 8732400.
6. Sultan J, Charalambous CP. Theatre time utilisation in elective orthopaedic surgery. *J Perioper Pract*. 2012 Aug;22(8):262-5. doi: 10.1177/175045891202200803. PMID: 23248928.