

Annual volume standards for lumbar fusion

Discussion document

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1. Current Bree standard for LF
 - Surgeon 20 surgeries in previous 12 months
 - Facility: no requirement
 - Bree standard for joint replacement: 50S/100F
2. Dartmouth/Hopkins/Michigan policy: non-LF surgery
 - Hip/Knee: 25/50
 - Ratio for others often x/2x (bariatric, lung, mitral valve repair, carotid stenting)
3. Martin: LF
 - No difference in repeat surgery or complication rate among surgeon volume quartiles when lowest volume quartile was 29 LF in prior year
 - No clear statement on facility volume
4. Schoenfeld: lumbar spine procedures, Florida, 187K surgeries, 5500 surgeons, and 178 facilities
 - 63% increase in risk of complications under annual surgeon procedure volume of 43 interbody fusions or 35 posterolateral fusions
 - Recommendation of authors
 - 48 interbody fusions/surgeon/yr
 - 36 posterolateral fusions/surgeon/yr
 - Silent on facility volume

Proposal for 2018 version of Bree lumbar fusion bundle

- 30 LF/surgeon/yr
- 60 LF/facility/yr