

Analysis Of Hip Arthroscopy Procedure Volume And Reimbursement From 2011 To 2019

Joseph C. Brinkman MD Muhammad Elahi BS Fahim Choudhury BS M. Lane Moore BS MBA Jordan Pollock BS Jack M. Haglin MD MS Joshua S. Bingham MD David G. Deckey MD Kostas J Economopoulos MD

Mayo Clinic Arizona





Disclosures: None



BACKGROUND

 Recent reports demonstrate decreasing reimbursement in several orthopedic subspecialties¹⁻⁴

 Hip arthroscopy has become an increasingly utilized tool among orthopedic surgeons⁵

 Understanding trends regarding its use and reimbursement becomes increasingly important

 An in-depth analysis of reimbursement trends for hip arthroscopic surgery is lacking in the current literature





PURPOSE

The purpose of this study was to assess the trends in procedural volume and physician reimbursement by the Centers for Medicare and Medicaid Services from 2011 to 2019 for arthroscopic hip procedures





METHODS

- Medicare National Summary Data from 2011 to 2019 from CMS were utilized
- Information relating to utilization and physician reimbursement of hip arthroscopy procedures was extracted for 7 arthroscopic hip codes
- Reimbursement values corrected for inflation using the consumer price index
- Linear regression models created to analyze trends

CPT Codes	Procedure Name		
29860	Diagnostic Hip Arthroscopy		
29861	Hip Arthroscopy with Removal of loose body or foreign body		
29862	Hip arthroscopy with chondroplasty, abrasion arthroplasty, and/or resection of labrum		
29863	Hip arthroscopy with synovectomy		
29914	Hip Arthroscopy with femoroplasty		
29915	Hip arthroscopy with osteoplasty of the acetabulum		
29916	Hip arthroscopy with labral repair		





RESULTS

 In the study period between 2011-2019, there were 31,890 total hip arthroscopic procedures billed to Medicare

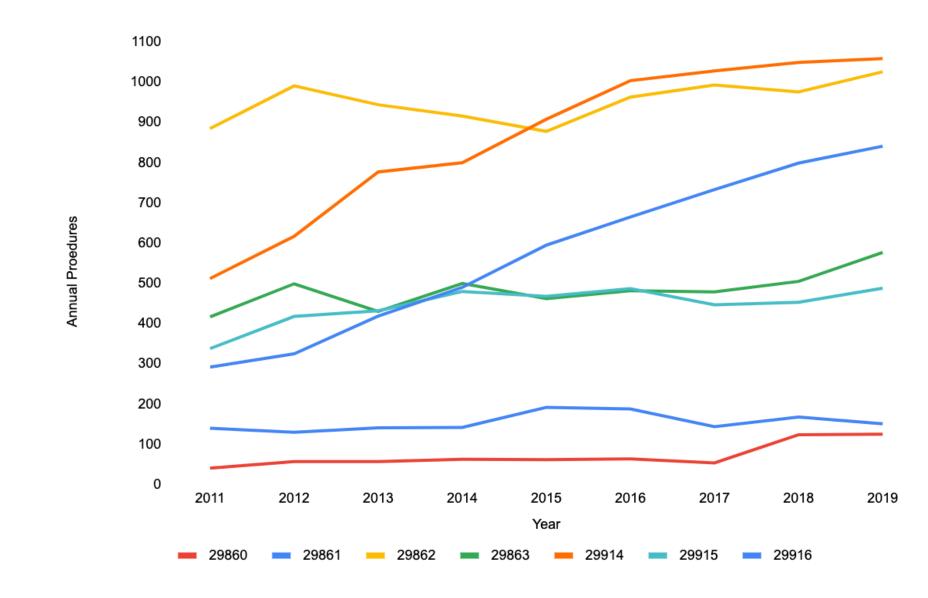
 There was a 62.6% increase in annual procedural volume of hip arthroscopy from year 2011 to 2019

 Total physician payment, adjusted for inflation, for hip arthroscopy procedures billed to Medicare Part B was \$24,776,277 with an average adjusted Medicare Reimbursement (AAMR) for hip arthroscopy increasing 19.6%



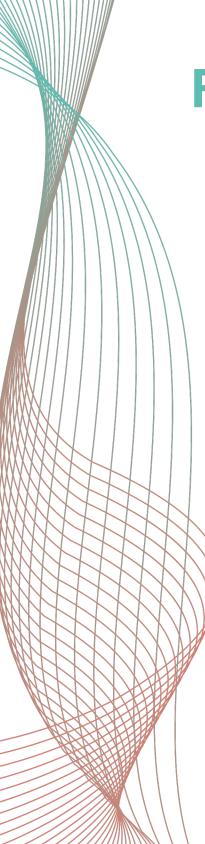


Results Annual Volume of Hip Arthroscopy Procedure Utilization 2011 to 2019





7



Results

Change in Medicare Reimbursement for Codes Analyzed

		Percent Change			
Procedure	2011	2019	from 2011 to 2019	p-value	R-squared
29860	\$ 493.15	\$ 1,038.55	110.6%	0.031	0.508
29861	\$ 336.60	\$ 196 .30	-41.7%	0.003	0.730
29862	\$ 798.90	\$ 952.48	19.2%	0.009	0.648
29863	\$ 495.83	\$ 574.82	15.9%	0.451	0.083
29914	\$ 638.76	\$ 509.44	-20.2%	0.006	0.688
29915	\$ 902.95	\$ 1,112.01	23.2%	0.009	0.648
29916	\$ 839.34	\$ 1,003.17	19.5%	0.061	0.414
Mean	\$ 643.65	\$ 769.54	19.6%		



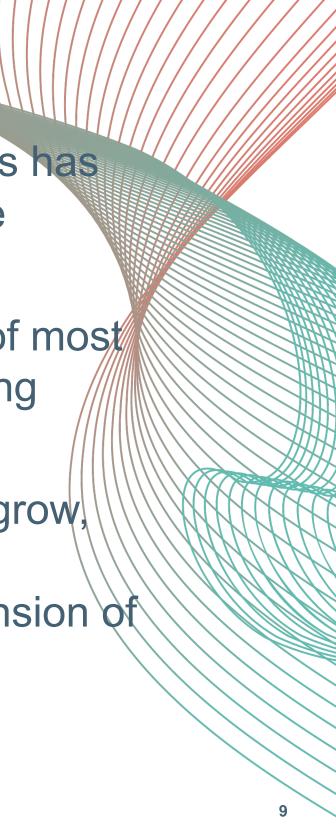
Correlation Coefficient

	0.713
	-0.854
	0.805
	-0.289
	-0.829
	0.805
	0.644

CONCLUSIONS

- The volume of all investigated hip arthroscopic procedures has been increasing annually from 2011-2019 within Medicare
- The average inflation adjusted Medicare reimbursement of most investigated hip arthroscopic surgeries has been increasing
- As the volume of hip arthroscopic surgeries continues to grow, these trends are important to note to create agreeable reimbursement policies to continue the support and expansion of arthroscopic orthopedic surgeries





REFERENCES

1. Uppal S, Shahin MS, Rathbun JA, Goff BA. Since surgery isn't getting any easier, why is reimbursement going down? An update from the SGO taskforce on coding and reimbursement. Gynecologic Oncology. 2017;144(2):235-237. doi:10.1016/j.ygyno.2016.06.008

2. Clemens J, Gottlieb JD. In the Shadow of a Giant: Medicare's Influence on Private Physician Payments. J Polit Econ. 2017;125(1):1-39. doi:10.1086/689772

3. Moore ML, Pollock JR, Haglin JM, et al. A Comprehensive Analysis of Medicare Reimbursement to Physicians for Common Arthroscopic Procedures: Adjusted Reimbursement Has Fallen Nearly 30% From 2000 to 2019. Arthroscopy. 2021;37(5):1632-1638. doi:10.1016/j.arthro.2020.11.049

 Smith JF, Moore ML, Pollock JR, et al. National and geographic trends in Medicare reimbursement rates for orthopedic shoulder and upper extremity surgery from 2000 to 2020. J Shoulder Elbow Surg. 2022;31(4):860-867. doi:10.1016/j.jse.2021.09.001
Shukla S, Pettit M, Kumar KHS, Khanduja V. History of hip arthroscopy. JASSM. 2020;1(1):73-80. doi:10.25259/JASSM_21_2020



