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Appendix A: ICD-9-CM & ICD-10-CM procedure codes used to identify admissions for inclusion and exclusion.

Procedure Type (ICD-9-CM Procedure Code(s))	ICD-9-CM	ICD-9-PR	ICD-10-PCS
INCLUSIONS			
Total knee replacement		8154	NHSN^ KPRO Category
Total hip replacement		8151	NHSN^ HPRO Category
EXCLUSIONS			
Spina bifida	741x		Q054 Q059 Q0702 Q0703 Q050 Q051 Q052 Q053 Q058 Q059 Q0700 Q0701 Q055 Q056 Q057 75617 Q760
Craniotomies		0112 0114 0120-0129 0131 0132 0139 0141 0142 0151 0152 0153 0159 0211-0214 0291 0292 0293 0751-0759 0761-0769 0771 0772 0779 3801 3811 3831 3841 3851 3861 3881 3928	NHSN^ CRAN Category

^Based on the Centers for Disease Control and Prevention National Healthcare Safety Network surgical site infection surveillance system - <https://www.cdc.gov/nhsn/xls/icd10-pcs-pcm-nhsn-opc.xlsx>. Last accessed 8 July 2020. Can also be accessed via URL: <https://www.cdc.gov/nhsn/acute-care-hospital/ssi/index.htm>. Click on ‘Supporting Materials’ to expand the tab. Click on ‘ICD-10-PCS Procedure Code Mapping to NHSN Operative Procedure Codes – Updated May 2020 excel icon[XLSX – 800 KB]’. Last accessed 8 July 2020.

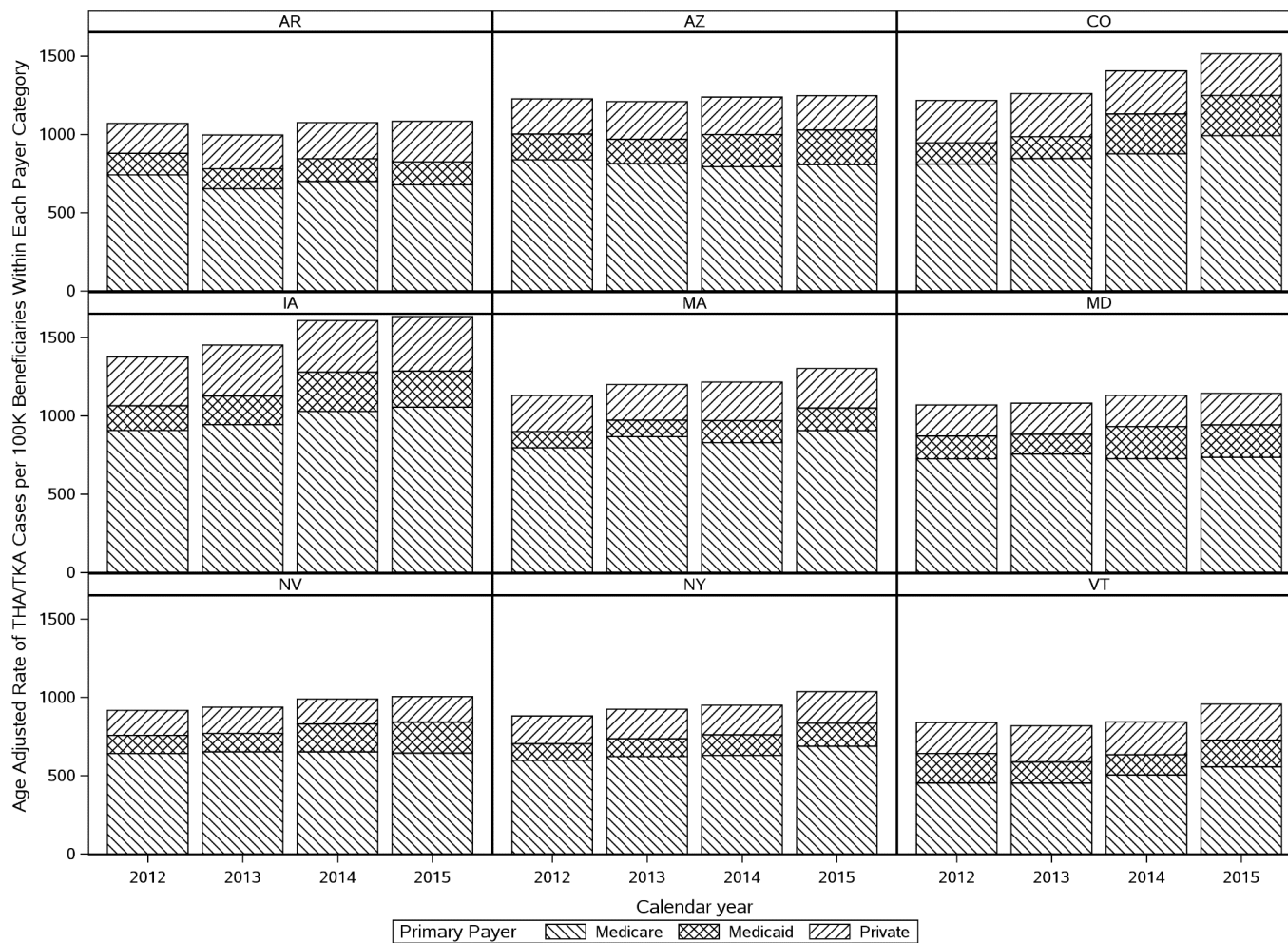
Appendix B. Number of Medicaid beneficiaries age 18-64 year in each state per year.

State	2012	2013	2014	2015
AZ	500813	566289	829124	800919
AR	85781	133205	200194	190797
CO	233365	208404	477162	446489
FL	635202	1003140	1315447	1207807
IA	151984	160344	180664	217316
MD	235587	341108	350594	385545
MA	751966	721928	816598	828111
MO	217333	256646	327202	231046
NV	77019	147258	209138	223485
NY	1880109	2018317	2255263	2159948
VT	82405	55503	56539	53443

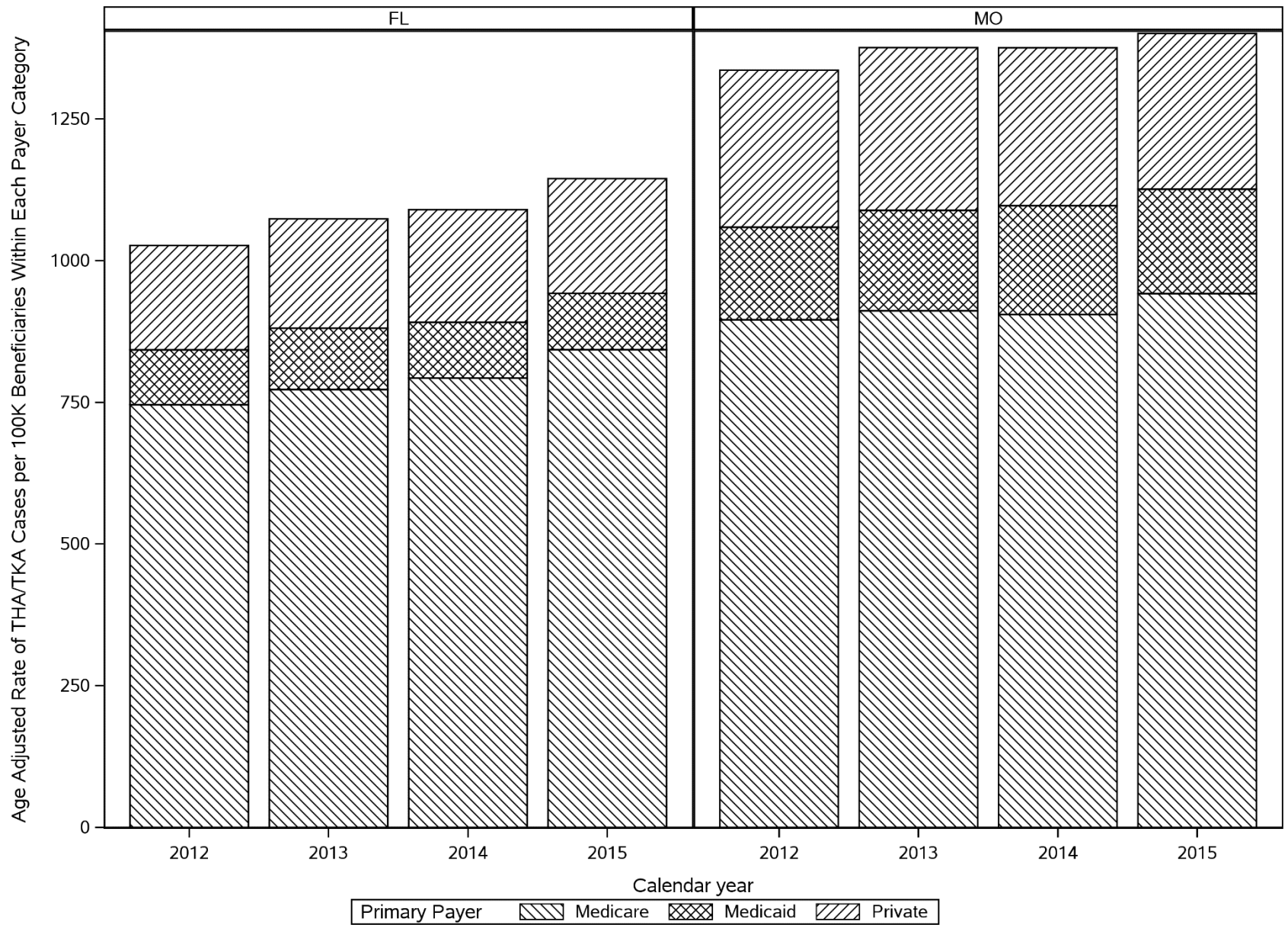
Appendix C: State Medicaid enrollment variable by state and year.

State	2012	2013	2014	2015
AZ	0.62530	0.70705	1.03522	1
AR	0.44959	0.69815	1.04926	1
CO	0.52267	0.46676	1.06870	1
FL	0.52591	0.83055	1.08912	1
IA	0.69937	0.73784	0.83134	1
MD	0.61105	0.88474	0.90935	1
MA	0.90805	0.87178	0.98610	1
MO	0.94065	1.11080	1.41618	1
NV	0.34462	0.65892	0.93580	1
NY	0.87044	0.93443	1.04413	1
VT	1.54193	1.03855	1.05792	1

Appendix D. Number of THA/TKA cases by state by year in Medicaid Expansion states (Figure A) and non-Expansion states (Figure B).



A.



B.

Appendix E. Multivariable regression model output

	Estimate (SE)	p-value
Expansion state	0.1334 (0.0274)	<0.0001
Year		
2012	0.0741 (0.0360)	0.0393
2013	Reference	
2014	-0.2028 (0.0349)	<0.0001
2015	-0.1216 (0.0324)	0.0002
Expansion state * Year		
Expanded*2012	-0.0201 (0.0397)	0.6128
Expanded*2013	Reference	
Expanded*2014	0.3459 (0.0367)	<0.0001
Expanded*2015	0.3265 (0.0361)	<0.0001
Musculoskeletal case burden in state (MDC8 rate)	15.5252 (0.4328)	<0.0001
Employment rate in state	-1.9594 (0.1229)	<0.0001
Medicaid state enrollment variable	0.5325 (0.0479)	<0.0001