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Treatment Group	Comparative Median Pre- Operative Cost Ratios Across Groups*	Comparative Mean Pre-Operative Cost Ratios Across Groups*#
Appropriate Surgery	vs. Inappropriate Surgery 1.67 (p=0.60)	vs. Inappropriate Surgery 1.56 (p=0.59)
Inappropriate Non- Surgery	vs. Inappropriate Surgery: 4.07 (p=0.003) <sup>^</sup> vs. Appropriate Surgery: 2.44 (p<0.001) <sup>^</sup>	vs. Inappropriate Surgery: 1.69 (p=0.01)^ vs. Appropriate Surgery: 1.10 (p=0.02)^
Appropriate Non-Surgery	vs. Inappropriate Surgery: 0 (p<0.001) <sup>&amp;</sup> vs. Appropriate Surgery: 0 (p<0.001) <sup>&amp;</sup> vs. Inappropriate Non-Surgery: 0 (p=0.33) <sup>&amp;</sup>	vs. Inappropriate Surgery: 4.99 (p<0.001)^ vs. Appropriate Surgery: 3.25 (p<0.001)^ vs. Inappropriate Non-Surgery: 2.94 (p=0.01)^

Appendix 1a. Total median and mean pre-operative costs presented as cost ratios.

\*For each row, the group in the left column is set as 1 for cost ratio analysis.

^p<0.05 = statistically significant

<sup>#</sup>Because median values are not as clearly representative of outlier costs, we also present mean comparisons.

<sup>&</sup>Median of at least one group is 0, no cost ratio can be calculated.

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Treatment Group	Comparative Median Operative Cost Ratios Across Groups*	Comparative Mean Operative Cost Ratios Across Groups* <sup>#</sup>
Appropriate Surgery	vs. Inappropriate Surgery 0.96 (p=0.99)	vs. Inappropriate Surgery 0.96 (p=0.99)
Inappropriate Non-Surgery	vs. Inappropriate Surgery: 0 (p<0.001) <sup>^&amp;</sup> vs. Appropriate Surgery: 0 (p<0.001) <sup>^&amp;</sup>	vs. Inappropriate Surgery: 83.4 (p<0.001)^ vs. Appropriate Surgery: 87.0 (p<0.001)^
Appropriate Non-Surgery	vs. Inappropriate Surgery: 0 (p<0.001)^& vs. Appropriate Surgery: 0 (p<0.001)^& vs. Inappropriate Non-Surgery: 0 (p=0.99)&	vs. Inappropriate Surgery: 44.9 (p<0.001)^ vs. Appropriate Surgery: 46.7 (p<0.001)^ vs. Inappropriate Non-Surgery: 0.54 (p=0.2)

## Appendix 1b. Total median and mean operative costs presented as cost ratios.

\*For each row, the group in the left column is set as 1 for cost ratio analysis.  $^p<0.05 =$  statistically significant

<sup>#</sup>Because median values are not as clearly representative of outlier costs, we also present mean comparisons.

<sup>&</sup>Median of at least one group is 0, no cost ratio can be calculated.

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Treatment Group	<b>Comparative Median Post-</b>	Comparative Mean Post-Operative
	<b>Operative Cost Ratios</b>	Cost Ratios Across Groups*#
	Across Groups*	
Appropriate Surgery	vs. Inappropriate Surgery	vs. Inappropriate Surgery
	1.33 (p=0.99)	1.55 (p=0.49)
Inappropriate Non-Surgery	vs. Inappropriate Surgery:	vs. Inappropriate Surgery:
	1.61 (p=0.99)	1.85 (p<0.001)^
	vs. Appropriate Surgery:	vs. Appropriate Surgery:
	1.21 (p=0.25)	1.20 (p<0.001)^
Appropriate Non-Surgery	vs. Inappropriate Surgery:	vs. Inappropriate Surgery:
	2.23 (p=0.14)	2.55 (p<0.001)^
	vs. Appropriate Surgery:	vs. Appropriate Surgery:
	1.68 (p<0.001)^	1.65 (p<0.001)^
	vs. Inappropriate Non-	vs. Inappropriate Non-Surgery:
	Surgery:	1.38 (p=0.03)^
	1.39 (p=0.04)^	_

## Appendix 1c. Total median and mean post-operative costs presented as cost ratios.

\*For each row, the group in the left column is set as 1 for cost ratio analysis.

^p<0.05 = statistically significant

<sup>#</sup>Because median values are not as clearly representative of outlier costs, we also present mean comparisons.

<sup>&</sup>Median of at least one group is 0, no cost ratio can be calculated.