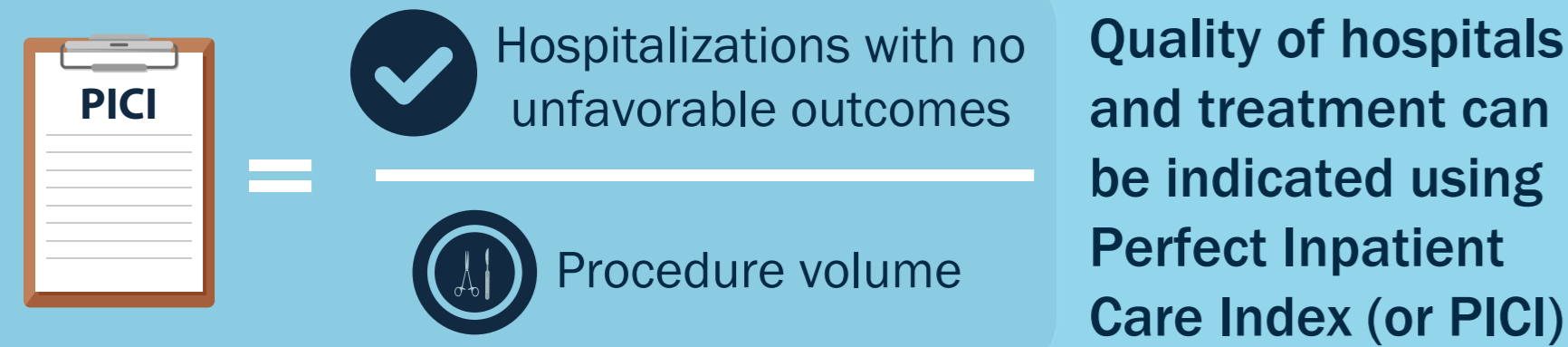
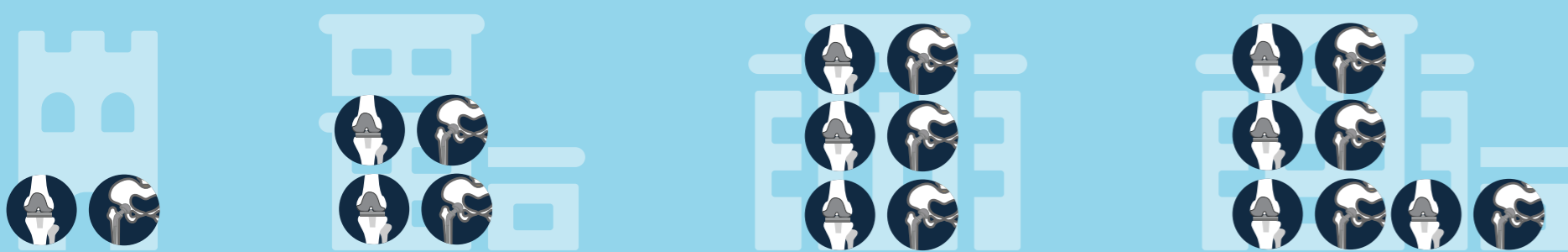


# Demonstrating the Link Between Hospitals' Procedure Volumes and Quality Outcomes



Total knee arthroplasty (TKA) and total hip arthroplasty (THA) are common surgical procedures that can be used for comparing quality of hospitals

Retrospective study of THAs and TKAs (N = 1,651,354)



Grouped into quartiles based on hospital's procedure volume



Number of hospitalizations



Procedure volumes



Patient acuity (number of diagnoses)

Percentage achieving a perfect score

42.8%

48.0%

53.0%

58.3%

1<sup>st</sup> quartile

2<sup>nd</sup> quartile

3<sup>rd</sup> quartile

4<sup>th</sup> quartile

Value (PICI per \$100,000 spent)

0.89

0.95

1.08

1.26



Procedure volumes



Patient acuity



Better PICI



Despite small differences in individual outcome measures, composite scores are substantially better for hospitals with higher procedure volumes and for patients with lower acuity

High-Volume Arthroplasty Centers Demonstrate Higher Composite Quality Scores and Enhanced Value. Perspective on Higher-Volume Hospitals Performing Arthroplasty from 2001 to 2011

Hollenbeck et al. (2020)

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