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California Orthopaedic Association

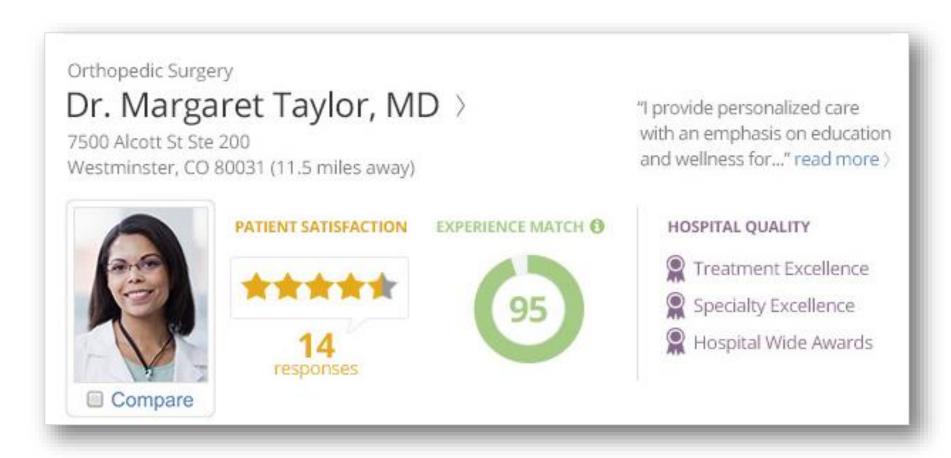
Hospital Ratings: Why They Matter

EVAN MARKS
CHIEF STRATEGY OFFICER



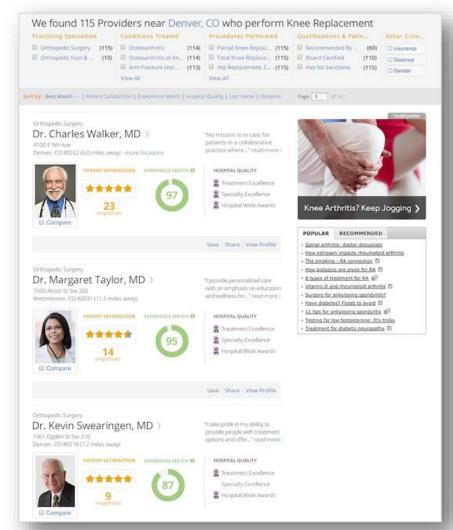
New Consumer Value Proposition

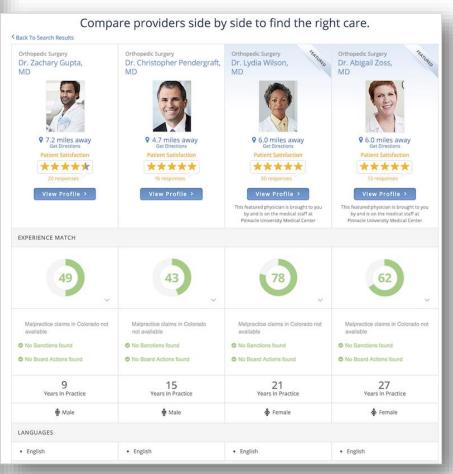
To find the right doctor, the right hospital and the right care





New Search and Compare





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Physician Hospital Affiliations

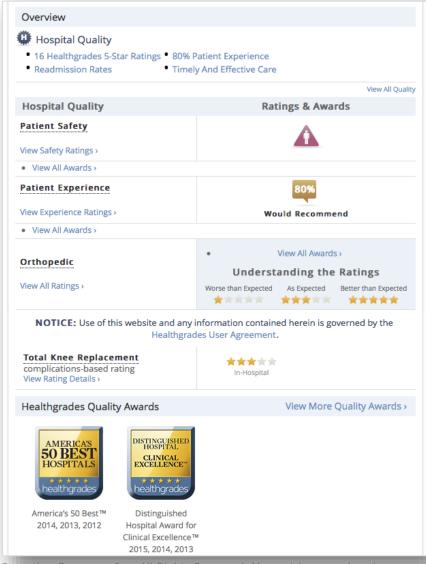
Leading to Engagement With Hospital Quality







Condition/Procedure Specific Quality

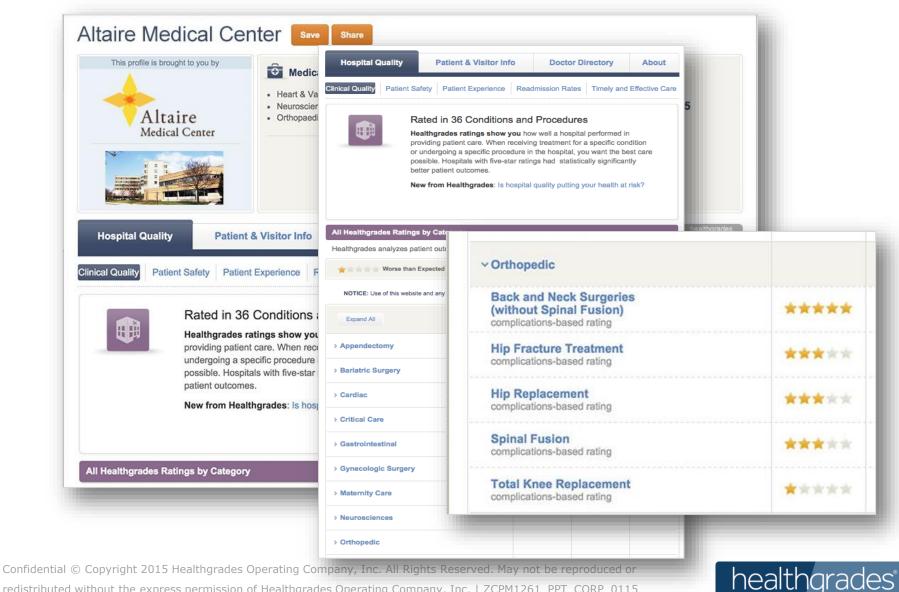






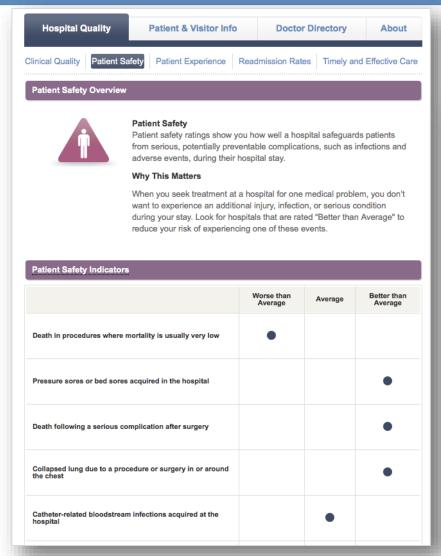
Quality-Focused Hospital Profile

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Patient Safety Ratings

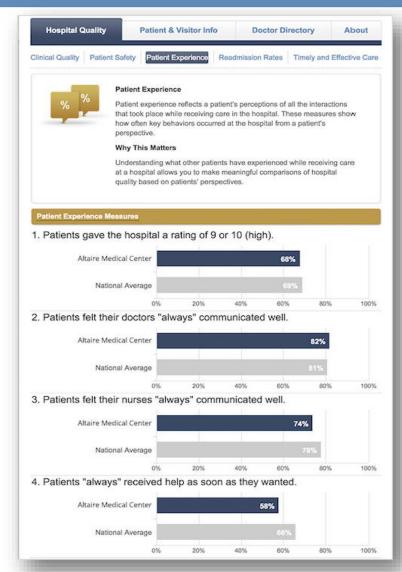


	Worse than Average	Average	Better than Average
Hip fracture following surgery	•		
Excessive bruising or bleeding as a consequence of a procedure or surgery			•
Electrolyte and fluid imbalance following surgery			•
Respiratory failure following surgery			•
Deep blood clots in the lungs or legs following surgery	•		
Bloodstream infection following surgery			•
Breakdown of abdominal incision site		•	
Accidental cut, puncture, perforation or hemorrhage during medical care			•
Foreign objects left in body during a surgery or procedure		1 Event	





Patient Experience - HCAHPS



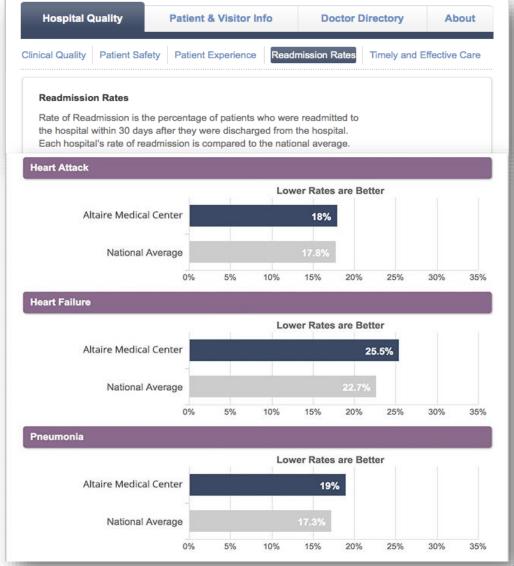


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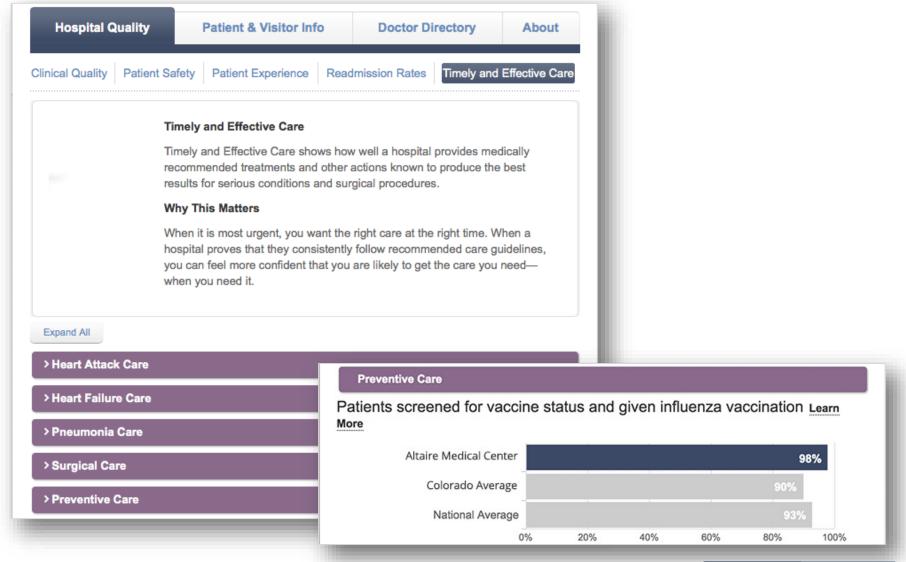
Readmission Rates







CMS Timely and Effective Care





Healthgrades Developed Measures:

Hospital Quality

- 32 inpatient conditions and procedure ratings based on risk-adjusted models using Medicare MedPAR data with mortality and complications outcomes
 - 19 mortality
 - 13 complications
- 4 inpatient conditions and procedure ratings based on risk-adjusted models using All-Payer data with mortality and complications outcomes:
 - Appendectomy, Gastric Bypass, Maternity Care, GYN Surgery
- 14 individual Patient Safety ratings, based on AHRQ developed PSI definitions and AHRQ software applied to MedPAR data





Outcomes Ratings Approach

Data Sources

- Rolling 36 month approach
 - CMS MedPAR Inpatient encounter data
 - All-Payer Inpatient Hospital encounter data 16 States

Measures

- In hospital complications
- In hospital mortality
- 30 day mortality (30 days after admission)

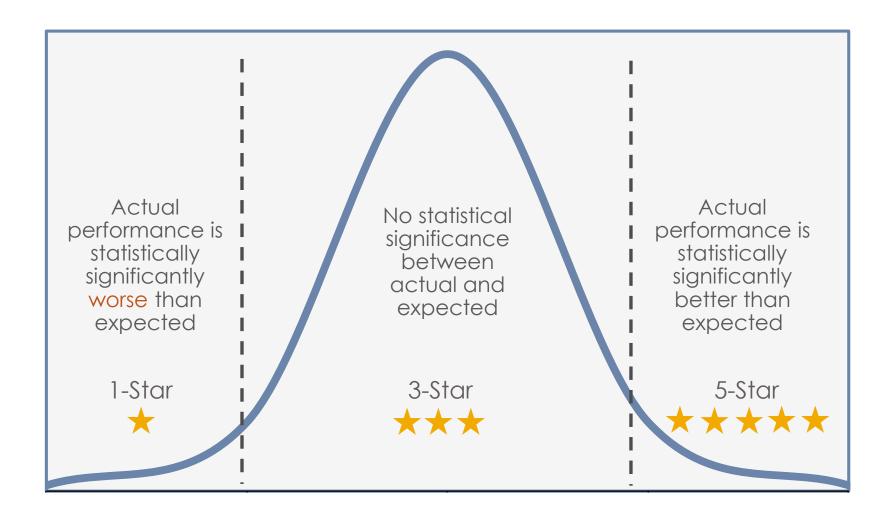
Methods for calculating ratings

- Cohort creation inclusions/exclusions
- Identification of adverse events...i.e. What constitutes a complication?
- Producing a predicted value based on risks of each patient
- Comparing predicted value to actual value
- Test of statistical difference ...predicted<>actual
- Assignment of ratings
- Publishing of ratings





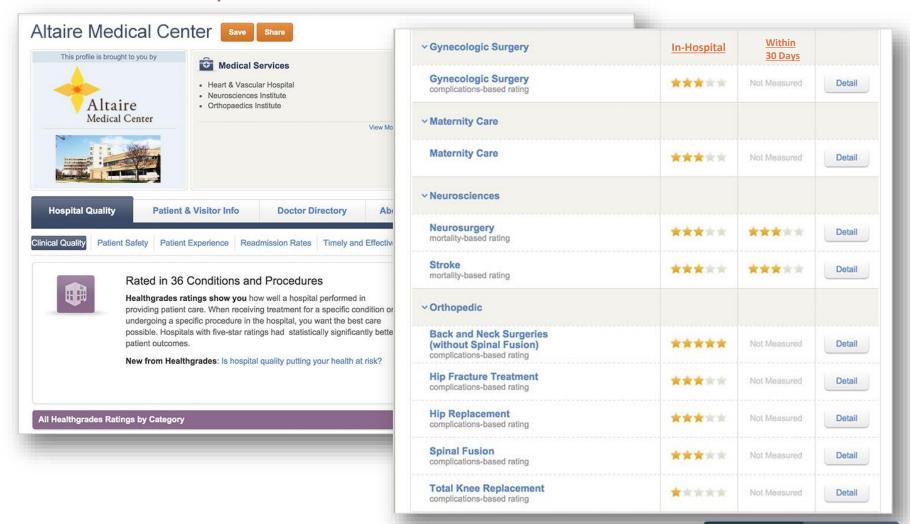
Healthgrades Star Ratings





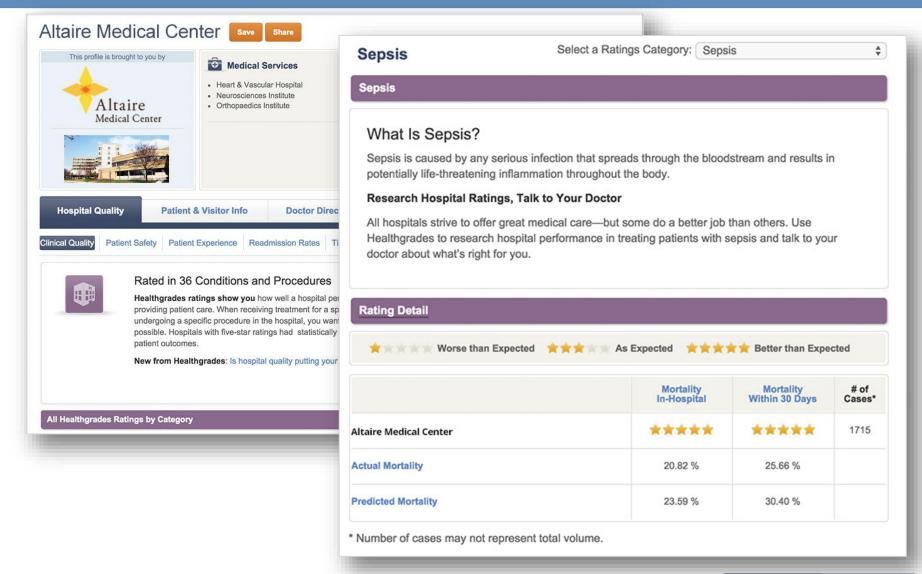
Clinical Quality by Cohort

Drill Down: Inpatient Outcomes





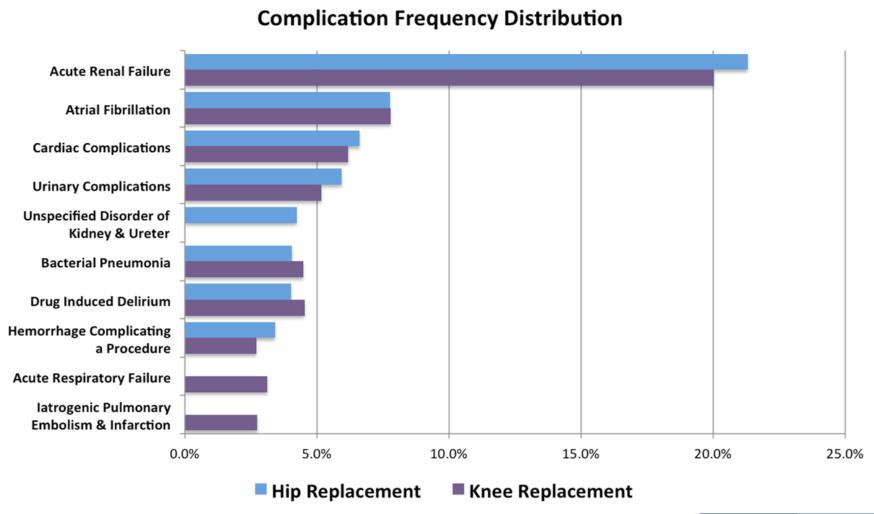
Cohort Detail





Total Knee and Total Hip Replacements

Similar Complication Profiles



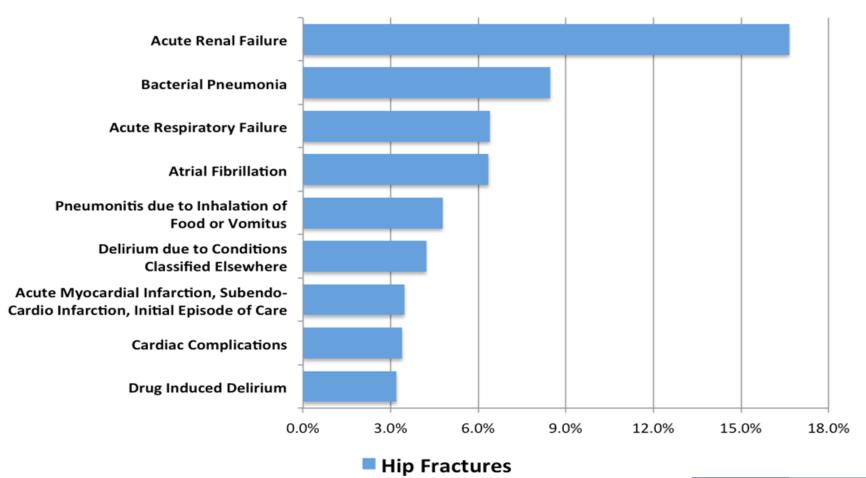




Hip Fracture Repair

Higher Prevalence of Severe Medical Complications

Complication Frequency Distribution

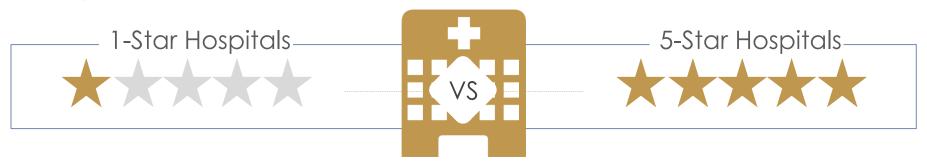




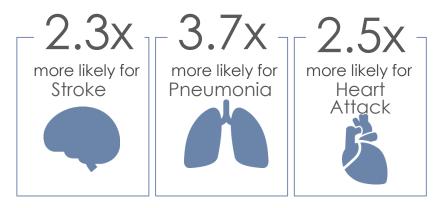
Why Ratings

- Healthgrades' patient cohort specific ratings are scientifically valid measures, not composites or award designations.
- No other source of broadly available outcomes ratings for consumers across as broad a spectrum of service comparable to Healthgrades.
- The risk adjusted rates of mortality and complications varies widely between hospitals in the same market.
- Consumers can use ratings to choose hospitals that dramatically lower their risk of complications or for death by disease condition or procedure across the majority of inpatient services.

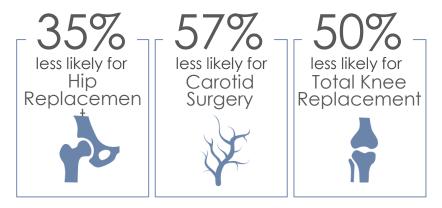
Of the hospitals located within the Silicon Valley area, Variation in treatment can significantly effect consumer health outcomes



Mortality Risk at 1-Star Hospitals



Complication Risk at 5-Star Hospitals





Leading Practices to Address Complications in Orthopedic Cohorts

Clinical and Quality

- Perioperative optimization focusing on medical complication prevention
- Medical co-management of at least higher risk cases
- Data driven clinical targeting of higher complication areas

Documentation & Coding

- Standardized house-wide complication definitions for higher complication areas (i.e. Acute Renal Failure, Acute Respiratory Failure)
- POA capture via greater emphasis on thorough assessment and plans in the admission History & Physical note
- Automatic queries and/or preclaim filing review of all high prevalence complications



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