

Models for Most Appropriate Care: Population Health and Total Cost of Care Reduction at Cedars-Sinai

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LEADING THE QUEST™

cedars-sinai.edu

Population Health and Risk-Based Contracts at Cedars-Sinai

- 30-year history of providing longitudinal primary and specialty care for patients through foundation model
 - Multi-specialty medical group: Cedars-Sinai Medical Group
 - Independent practice association: Cedars-Sinai Health Associates
 - Several affiliated medical groups (geographically dispersed)
- Risk-bearing contracts are
 - Commercial HMO and ACO
 - Medicare Advantage and ACO

Clinical and cost improvement for Population Health: Focus on appropriateness of care

Appropriateness of Care must be Assessed Across the Continuum to Have Maximum Impact

- **Admissions**

- Daily Admission Debrief (DAD) to identify opportunities
- Care coordination and ambulatory care enhancements to safely prevent admissions

- **Length of stay**

- Physician Advocate program
- Targeted interventions

- **Diagnostic tests, Procedures, Treatments**

- Clinical Decision Support
- Evidence-based Network Management

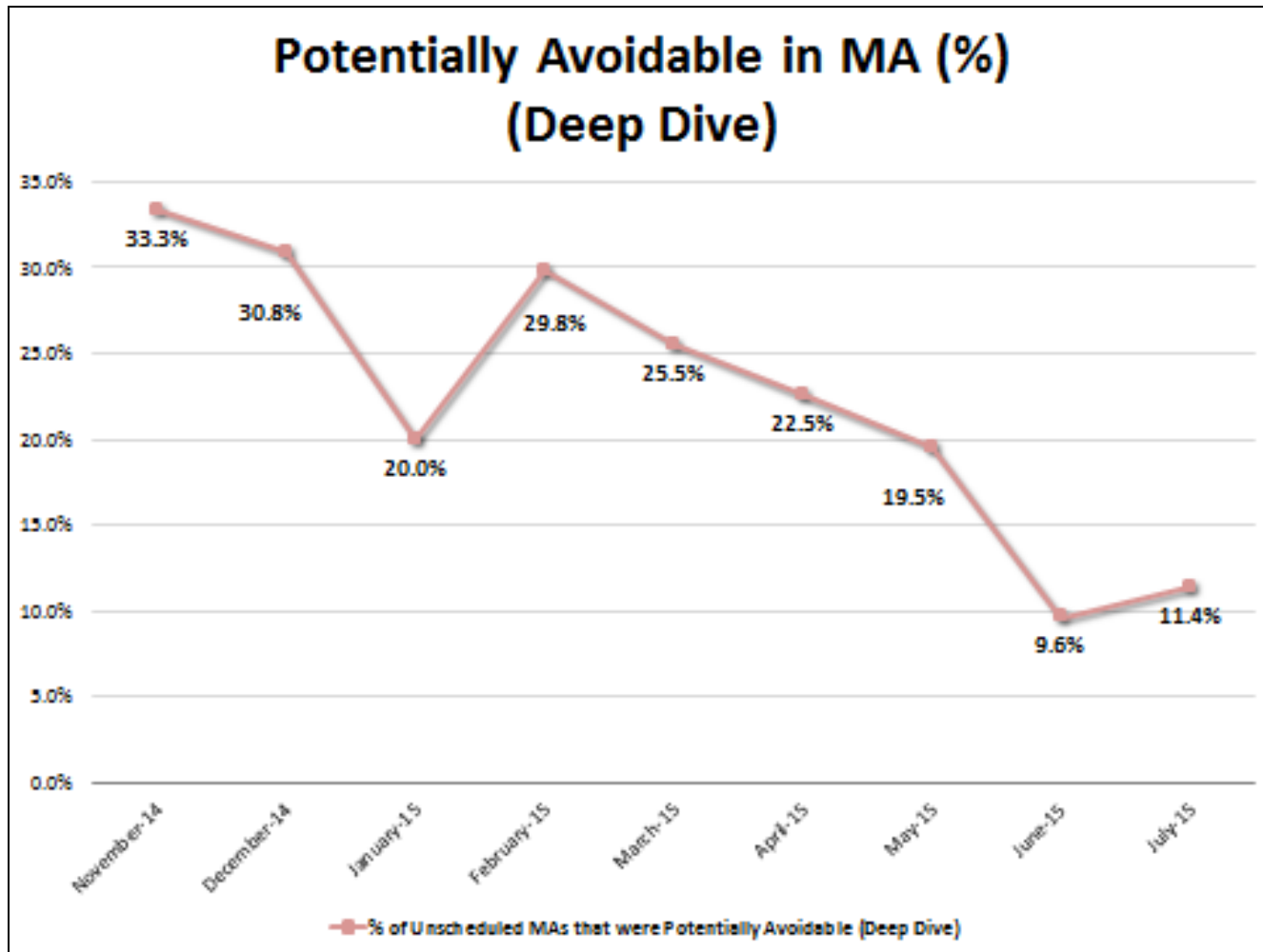
Admissions: Retrospective Review for Case-Finding and Trends

- Each admission reviewed retrospectively by 2 to 3 physicians
- Database created to monitor trends over time and identify opportunities for improvement
- Was there a possible missed opportunity in the physician office or patient's home?
- Interventions are at 3 levels
 - Case-finding for quality improvement referrals (e.g., post-operative complications)
 - Recommendations for patient care enhancements (e.g., refer to care coordination)
 - Identify opportunities for systems of care to prevent admissions (e.g., fall prevention programs)

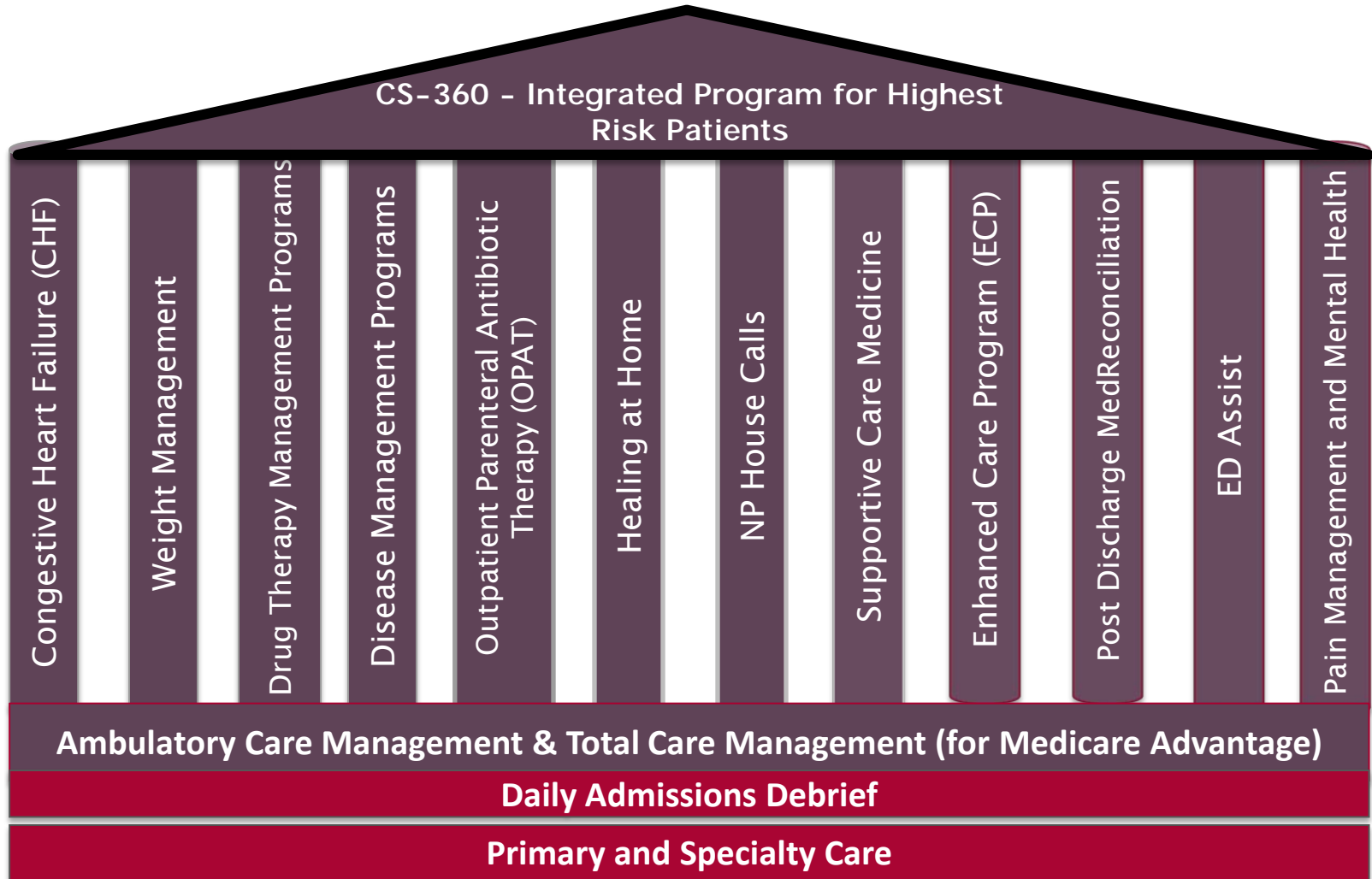
**Daily Admission Debrief
(DAD): Looking for
Potentially Avoidable
Admissions**



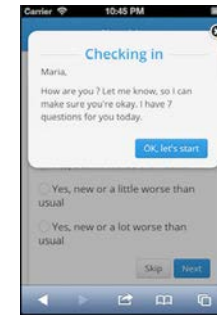
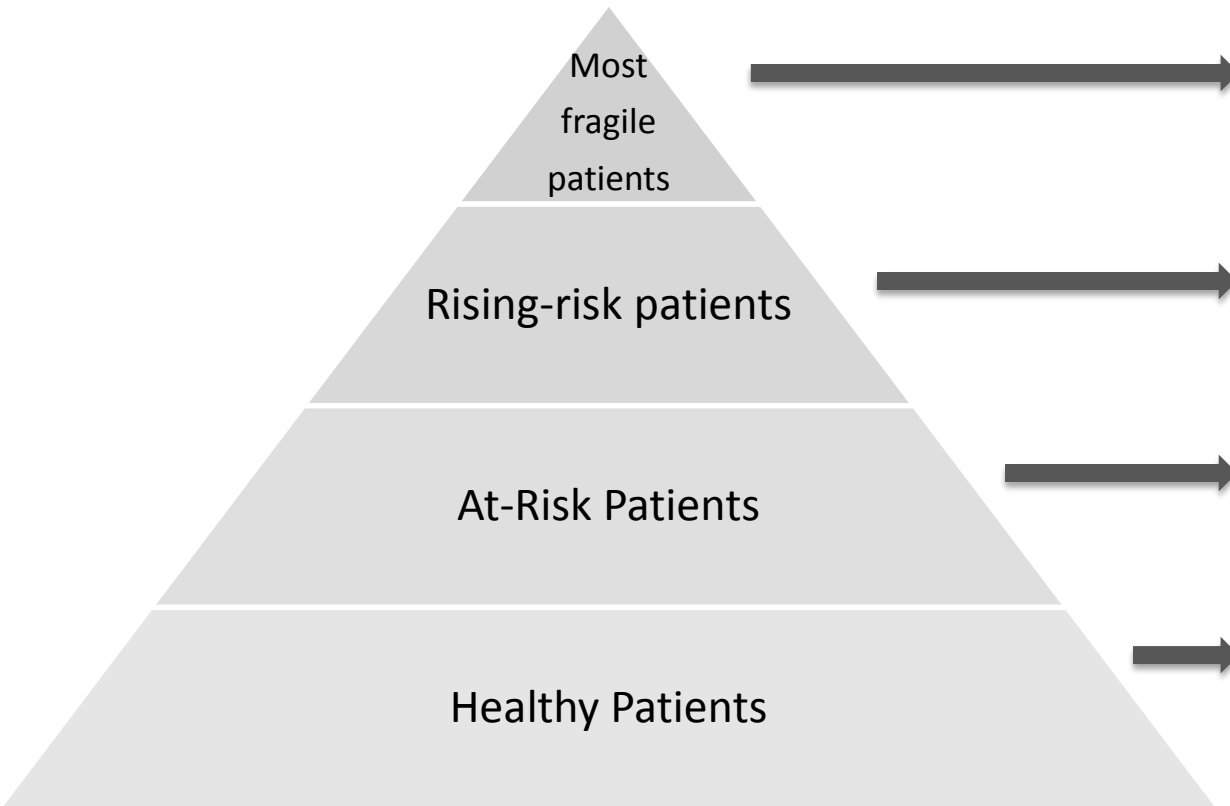
DAD Trend Over Time Demonstrated Improvement in “Avoidability”



Ambulatory Programs: Wrap-Around Services, Alternative Sites of Care, Care Coordination



Patient Engagement: Tailored Approaches to Enhance Access, Connection, Interaction



Patient engagement facilitates achievement of triple aim



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Image credits: <http://www.sellingsuccess.co.uk/wp-content/uploads/2013/03/telehealth-remote-kit-bt.jpg>;
<http://histalkmobile.com/healthloop-raises-10-million-series-a-for-patient-engagement-platform/>

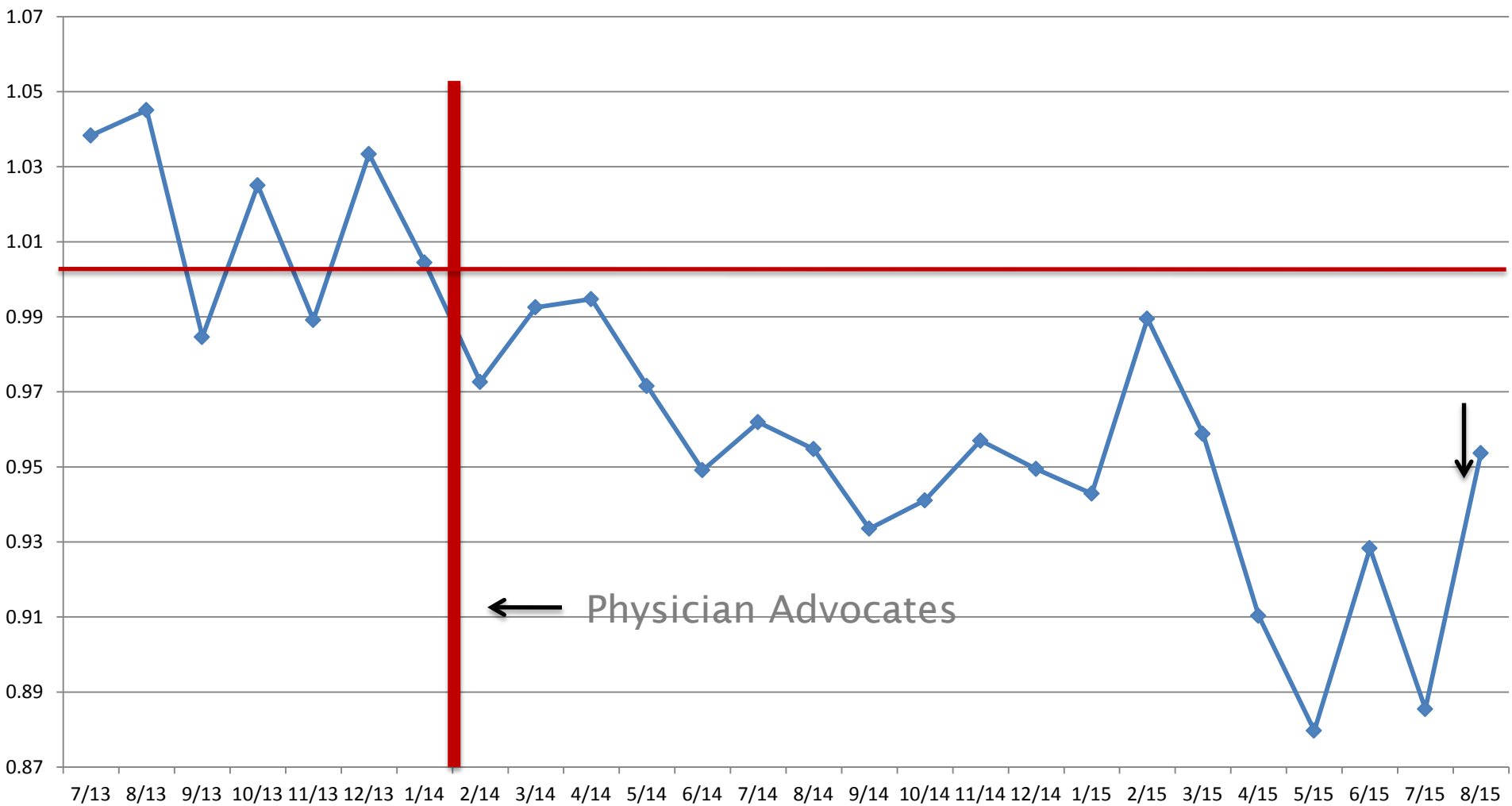
Impact: Achieved “Well Managed” Performance

Organization	Acute Med Surg Admits/1000
Milliman Loosely Managed	37.4 to 38.6
Anthem Regional Average	34
Optum Moderately Managed	32.4
Optum Well Managed	29.4
Milliman Well Managed	24.7 to 25.2
Cedars-Sinai Medical Group Commercial HMO FY15 Performance	23.01

Reducing Length of Stay: Encouraging Appropriate Care with Physician Advocate Program

- “Physician Advocates” – January 2014
- Participate in daily Progression of Care Rounds
- Review Medical Records
- Identify opportunities to improve quality, efficiency
- Contact physician, “Can I help you....”
 - Find appropriate placement or outpatient services
 - Expedite diagnostic testing
 - Clarify goals of therapy
 - Provide appropriate pain management

Impact: Meaningful Reductions in LOSI



Prepared by Resource & Outcomes Management, 9/22/2015

Appropriate Care in Diagnostics, Procedures and Treatments: Rationale for CDS

Predictors of Success	Adjusted OR
Automatic provision of decision support as part of workflow	112
Provision of decision support at the time and location of decision making	15
Provision of recommendation rather than just an assessment	7
Computer-based generation of decision support	6

Source: Kawamoto K, Houlihan CA, Balas EA, Lobach DF. Improving clinical practice using clinical decision support systems: a systematic review of trials to identify features critical to success. *BMJ*. 2005 Apr 2;330(7494):765. PMID: 15767266

Physician-Led and Vetted Content



An initiative of the ABIM Foundation

~400 interventions from 70 medical societies

Education alone for Choosing Wisely did not work¹

Can a physician remember 400 different Choosing Wisely guidelines?

Not from government or an insurance company

Inpatient

Across populations of patients

Ambulatory

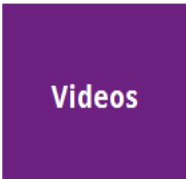
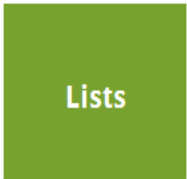
Prepare for risk-based payment



Launch at Cedars-Sinai in November 2013



An initiative of the ABIM Foundation

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Cedars-Sinai Alerts Its Docs to *Choosing Wisely*

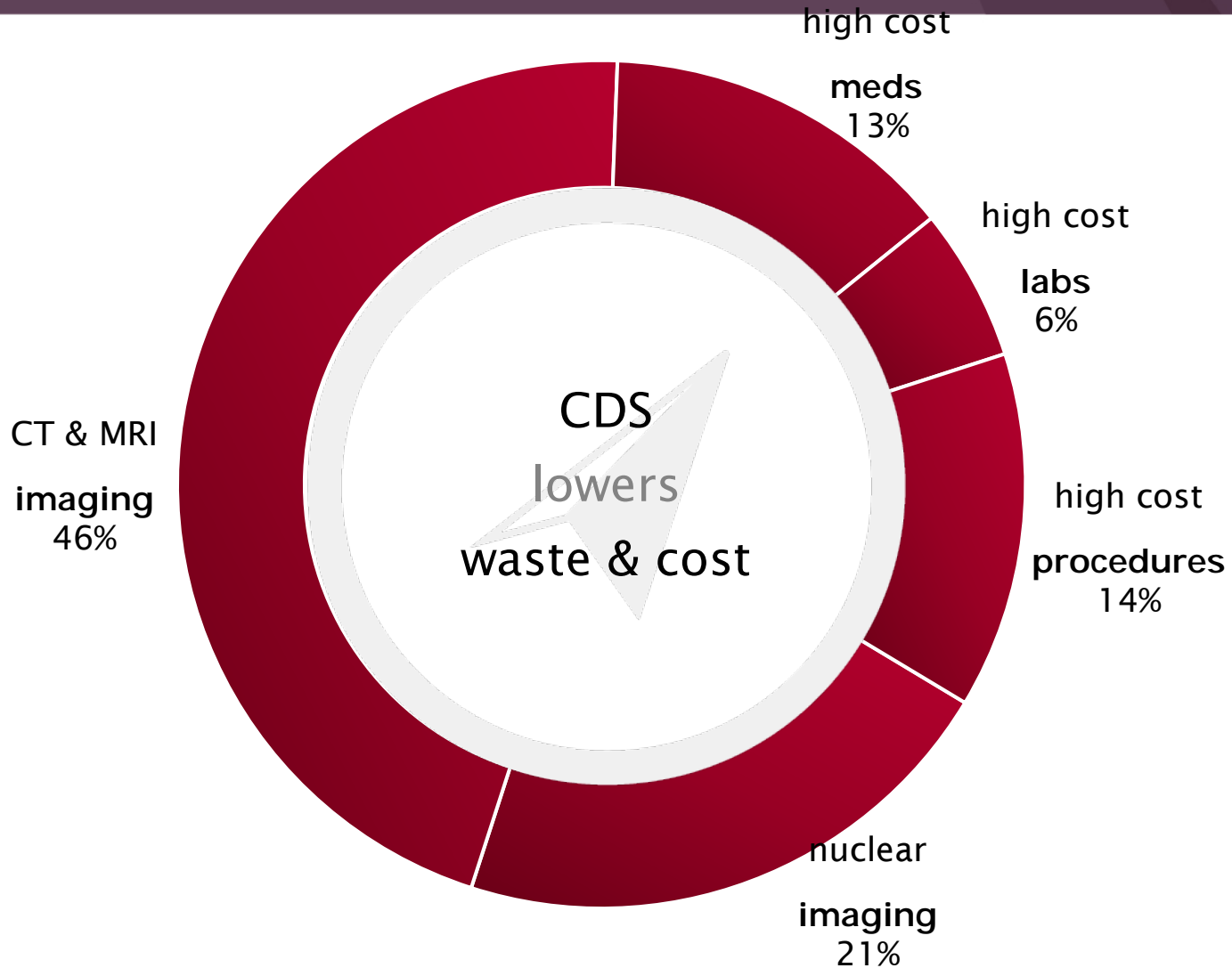
June 5, 2014

With a focus on stimulating physician and patient conversations, there is perhaps no more appropriate environment in which the *Choosing Wisely*[®] campaign could take hold than the examining room. Cedars-Sinai Health System has taken an important step in ensuring these conversations happen by becoming the first system in the nation to incorporate dozens of specialty society campaign recommendations into its electronic medical records (EMR) system.

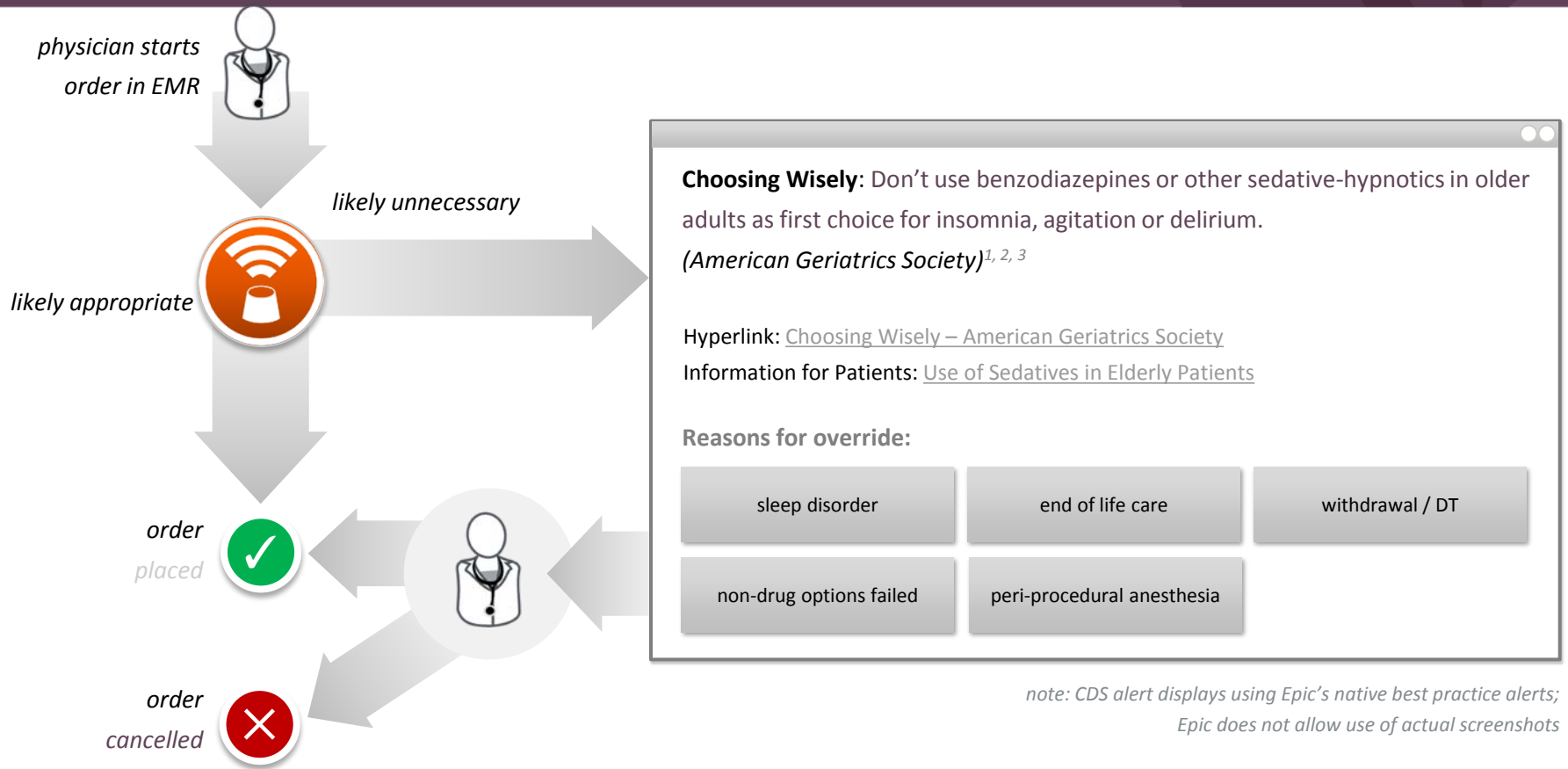


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Distribution of Choosing Wisely Guidelines at Cedars-Sinai



Example #1: Benzodiazepine Usage in Older Adults



targeted alerts integrated into workflow with analytics

Impact Projected From Our Experience and Literature

31.5%
reduction in
benzodiazepine
use



projected reductions
over 1 year

20

fall related injuries

9

ED visits

8

>6 months assistance

3

hospitalizations

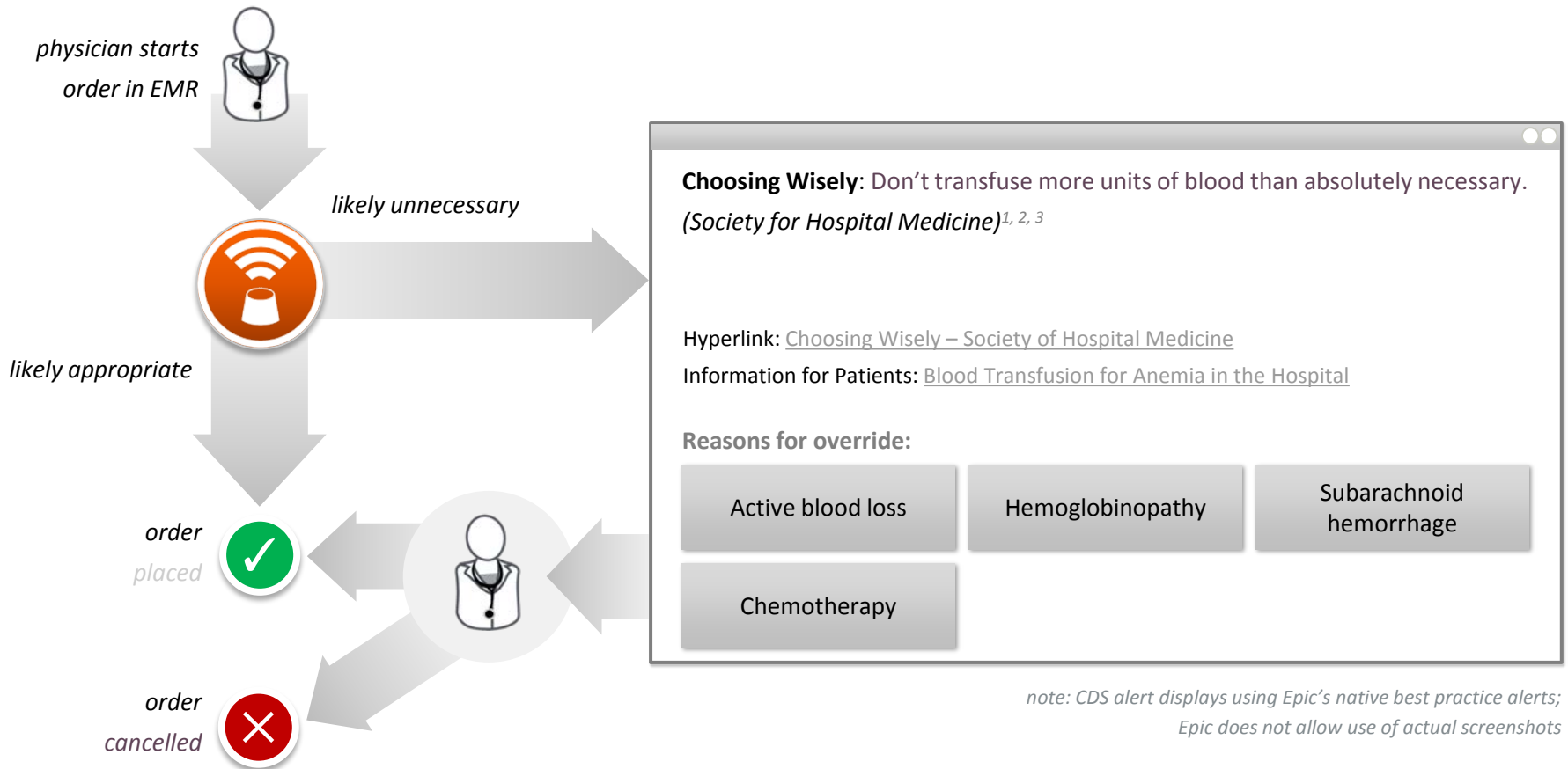
2

deaths from falls

potential
impact

*Woolcott et al. JAGS 2009,
CDC. MMWR Weekly 2008,
Schiller et al., Adv Data No. 392 (CDC) 2007,
Pariante et al, Drugs Aging 2008*

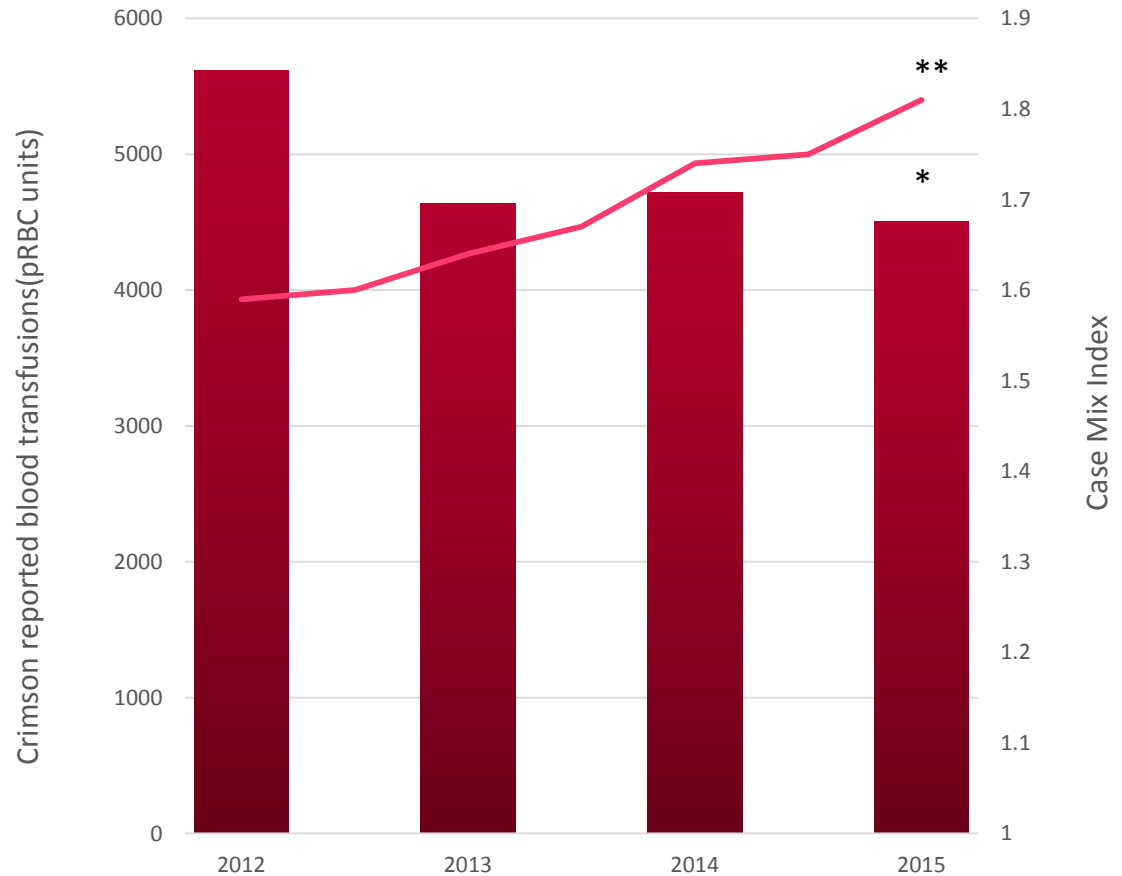
Example #2: Transfusion



targeted alerts integrated into workflow with closed loop analytics

Impact of Change in Practice at Cedars-Sinai

17% reduction in
blood utilization
while CMI increased
by 14%

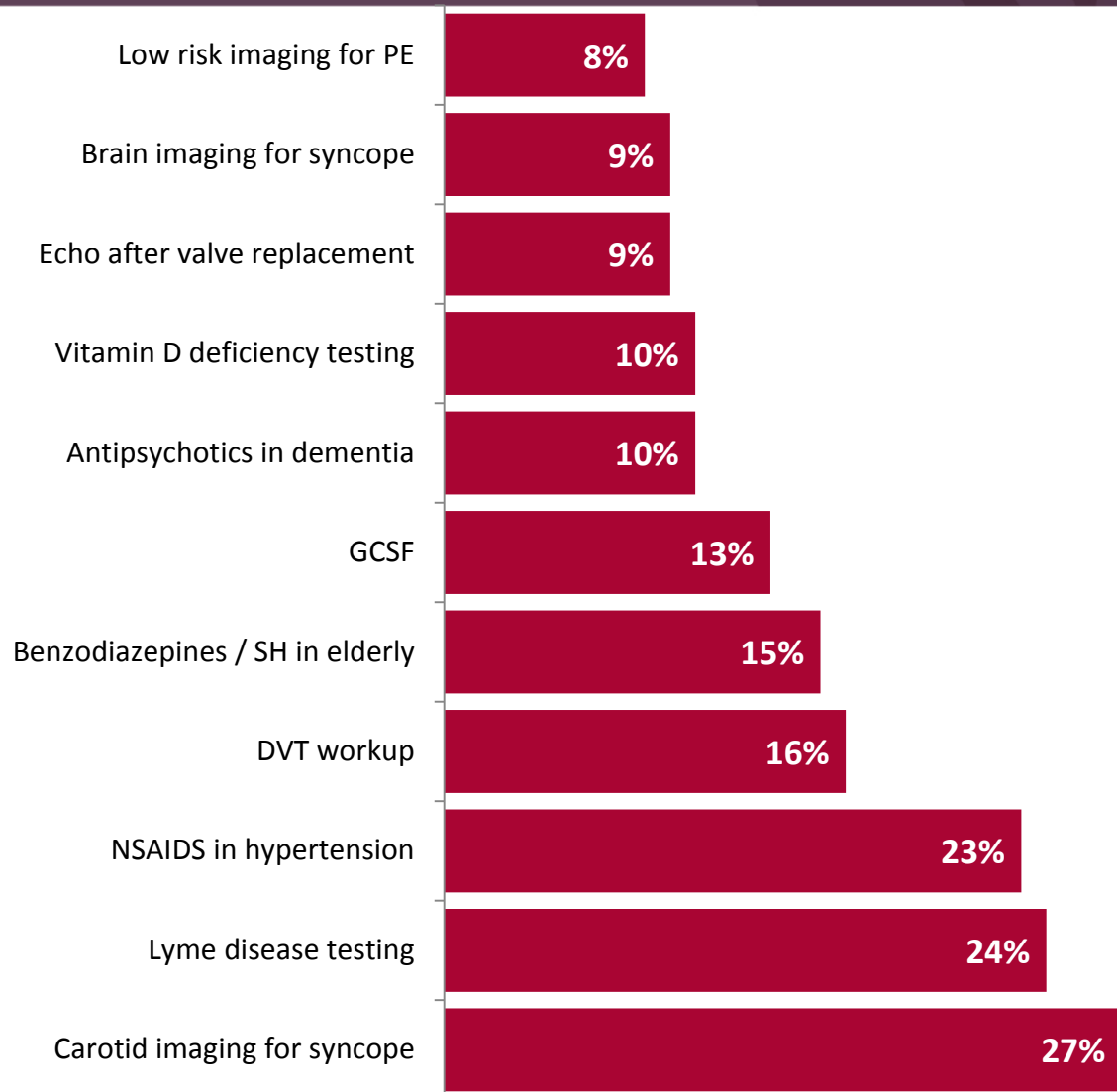


* 2015 is projected from 6 months of data

** 2015 Case Mix Index (CMI) value is from January-June data

Typical Acceptance Rates

acceptance

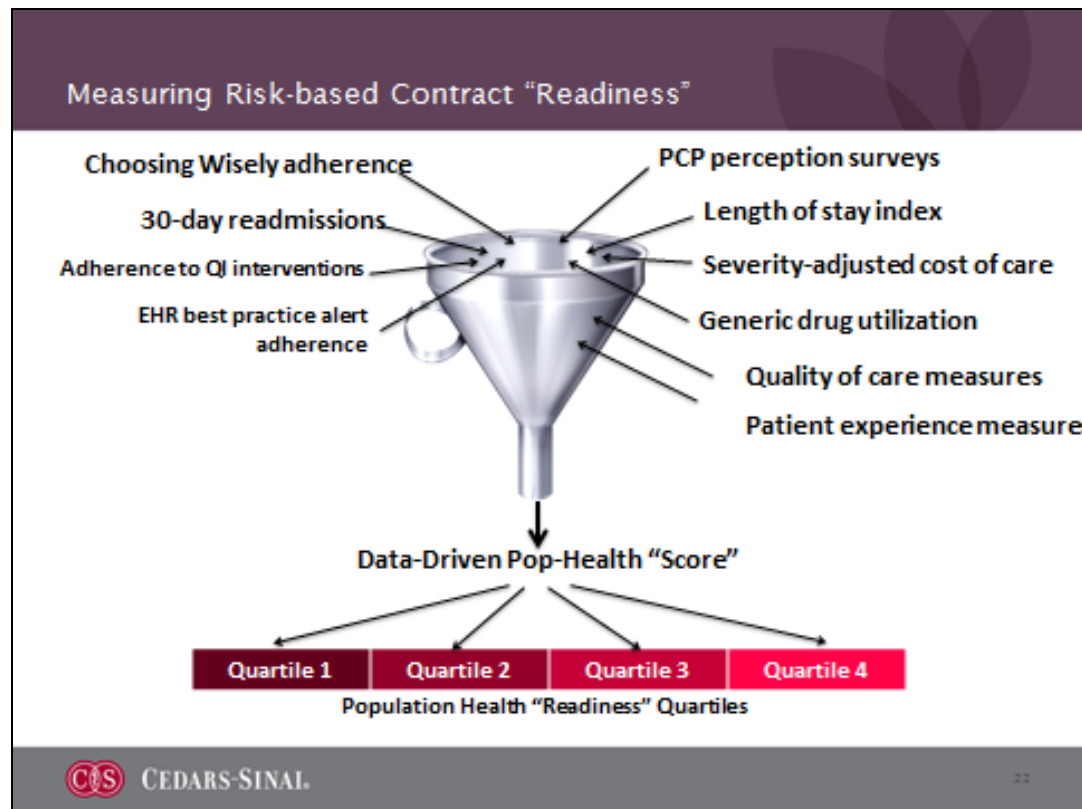


Lessons Learned

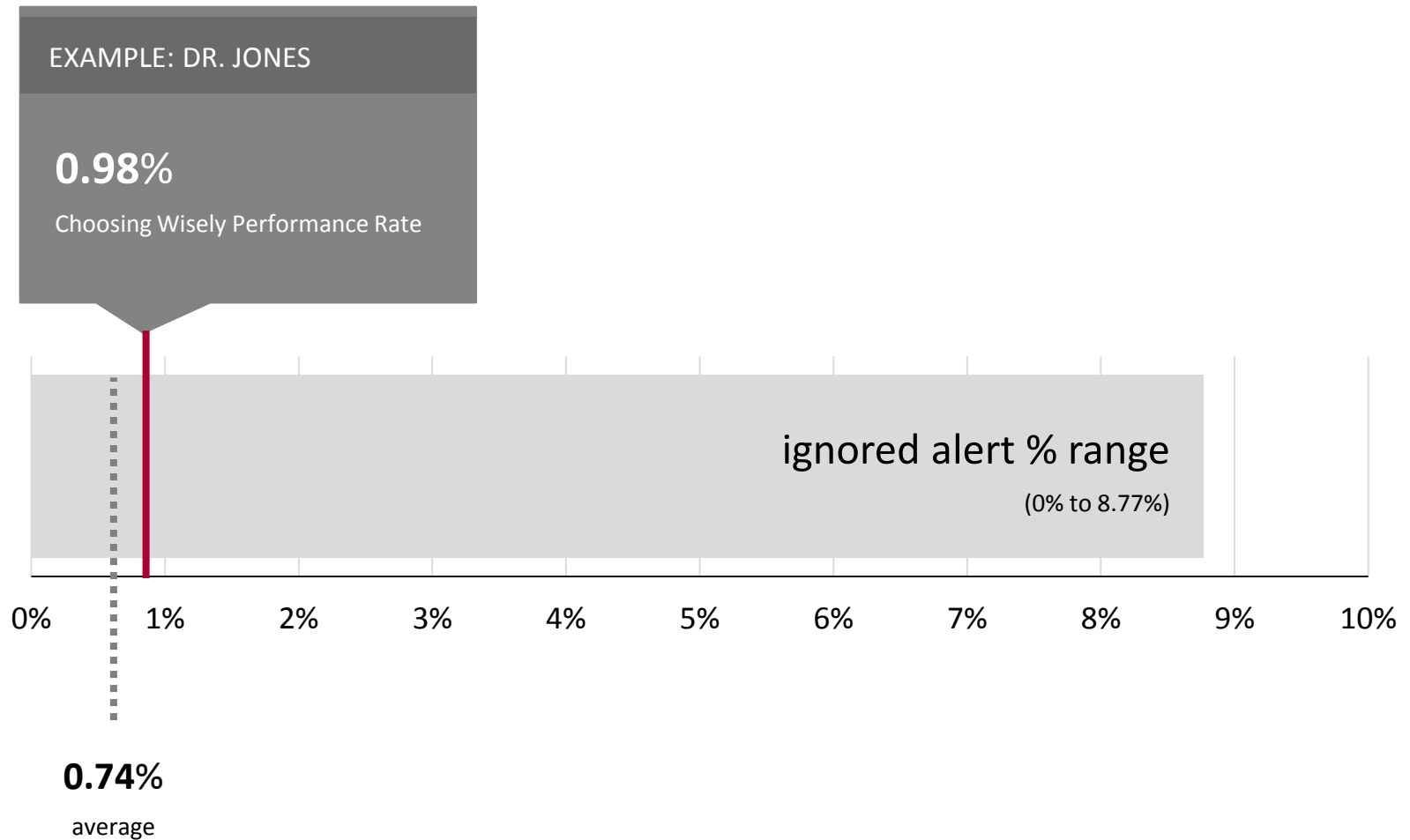
- **Process is important**
 - Governance
 - Education
 - Clinical decision support
 - Monthly individual physician Choosing Wisely adherence feedback
- **Acceptance is high**
 - “Do” alerts vs “Don’t” alerts
 - Cancellation rates for Choosing Wisely: 12% vs 2-4% for other alerts
 - Actual impact likely higher (estimated 3:1) due to “education effect”
- **Alert fatigue not a big factor**
 - Each MD typically sees only 1-5/month
 - “Retire” alerts over time and turn new ones on
- **Ongoing improvements in alert results from physician feedback**

Reinforcing Appropriate Care: Identifying Subspecialty Network

- Select subspecialists for PCP referral risk-based contracts
- Identify subspecialists who provide high quality, cost-effective care with high levels of patient satisfaction
- Use data to drive an evidence-based approach

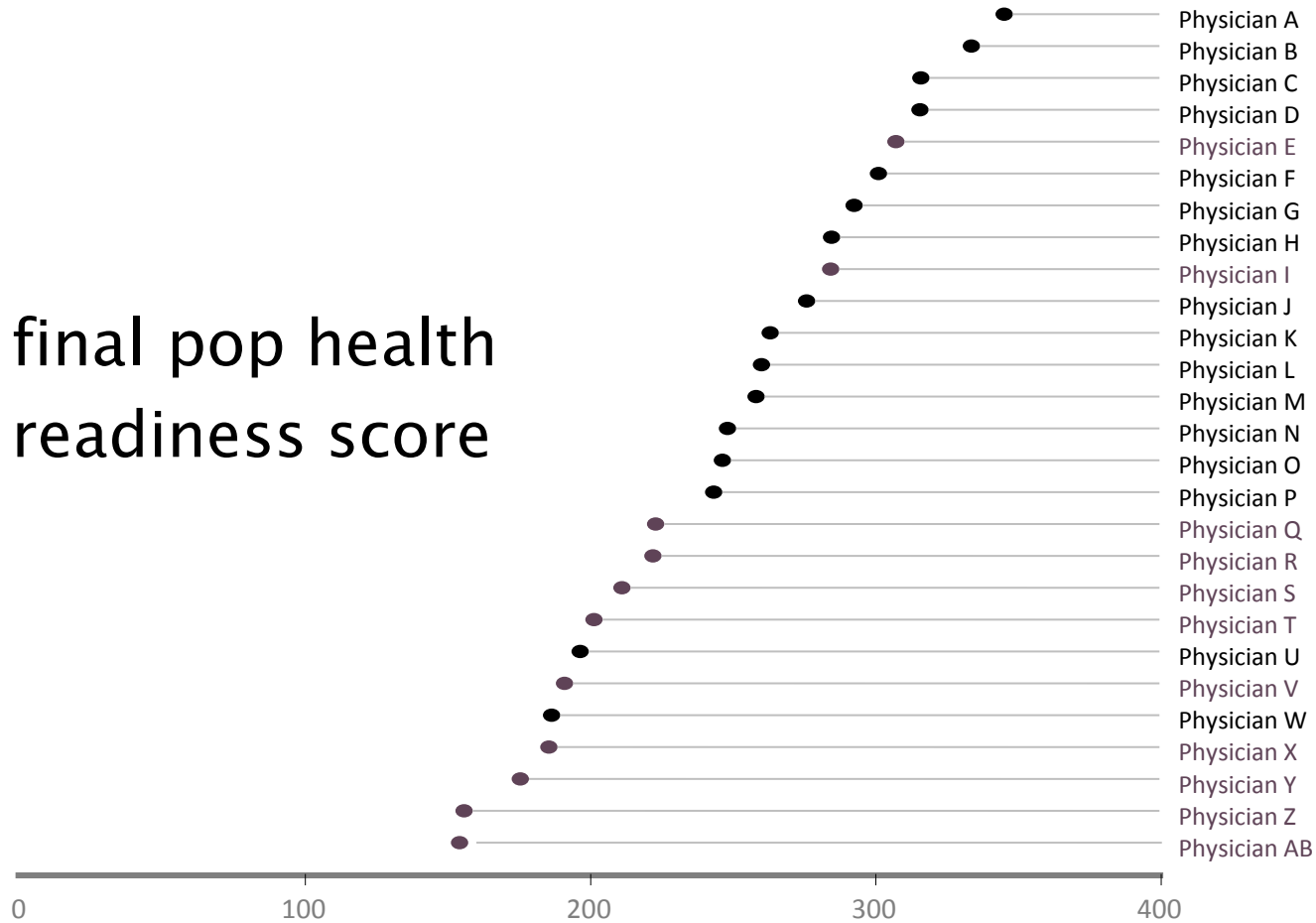


How Does Performance Compare with Peers?



Cardiology Results

final pop health
readiness score



Conclusions: Efforts to Improve the Value of Care for Patients With Risk-based Contracts at Cedars-Sinai

- **Multi-pronged approach**
 - Ambulatory and inpatient
 - Focus on physicians and extended care teams
- **Leverage the EHR with other data**
 - CDS experience
 - Incorporating EHR data to identify specialty network
- **Impact has been significant**
 - Safely reduced utilization and costs
 - Improved quality
 - Bonuses from health plans for reducing utilization
- **On the horizon**
 - Expand involvement in ACOs and risk-based contracts
 - Expand programs beyond patients under risk-based contracts