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APPRECIATION WEEK





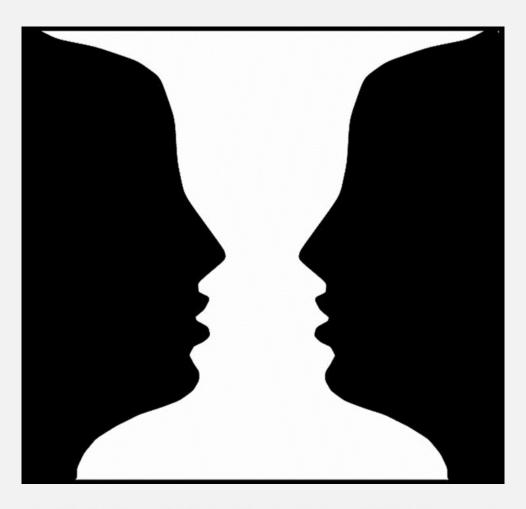
Jason Jones

PhD: Health Catalyst Chief Data Scientist



Find Focus and Monitor Change with Augmented Intelligence

What do you see?





What Leaders Need to Make Better Decisions

Separate Signal from Noise

- Is this hospital better than that one?
- Have we improved over time?
- If we set an improvement goal, is it statistically different from current performance?

Focus on the Future

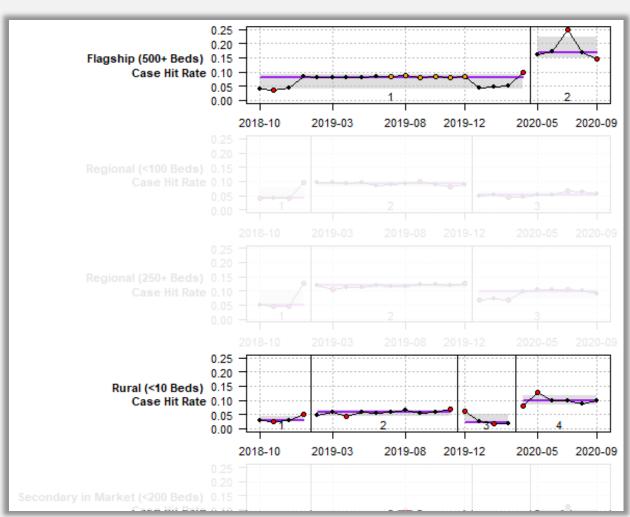
- Where will we be in a year?
- Are we satisfied with that?
- If not, what will we change, and when can we expect to see the result?
- If we are satisfied, is performance sustainable?



Separating Signal from Noise

Statistical Process Control ++

- Take 24 months of history
- Algorithms point to:
 - Segments of consistent performance (vertical lines)
 - Outlying points (red)
 - Unlikely sequences (orange)
- Both hospitals have more hits since April/May—new coding delays and costly duplicate claim submissions?
- Rural more stable

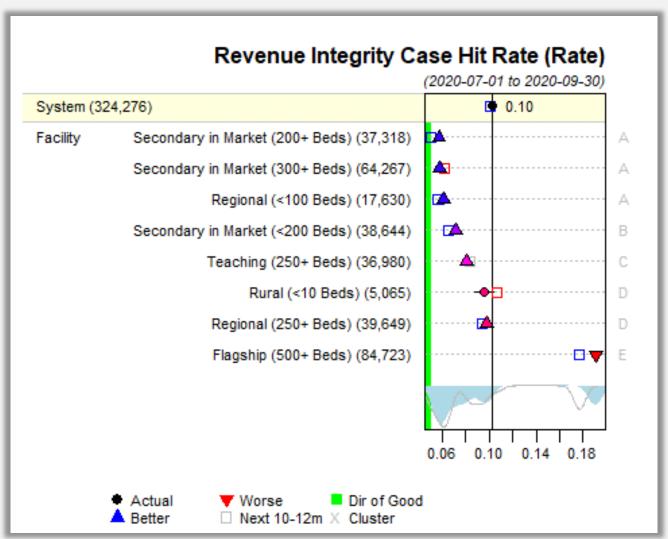




Separating Signal from Noise & Future Focus

Forest Plot

- Same data
- Cluster hospitals into similar performance
- Which are different from "system"
- Forecast 1 year out
- Rural getting slightly worse
- Flagship improving

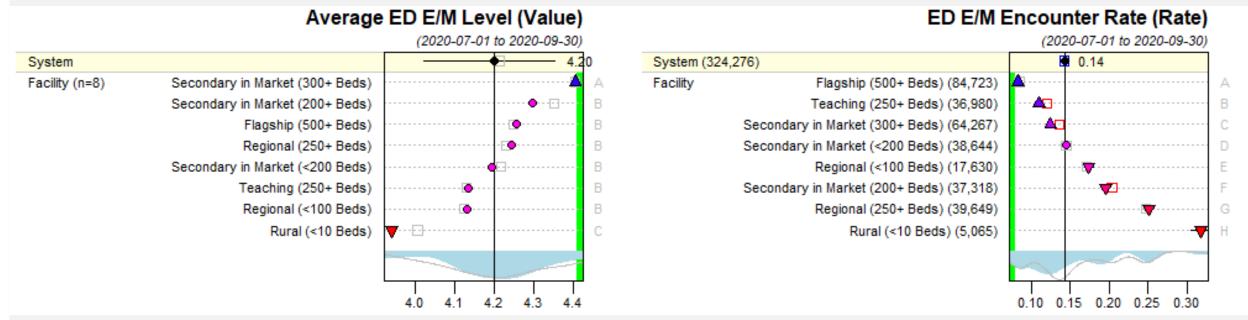




What Is "Good" in the ED?

- Secondary 200-300 bed hospitals have different E/M levels and rates—why?
- E/M rates lower in Flagship and Teaching—different case mix important for interpreting other data?

- E/M levels are low and rates high in rural hospital—access?
- E/M levels rising in Rural—COVID-19?





Questions?

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