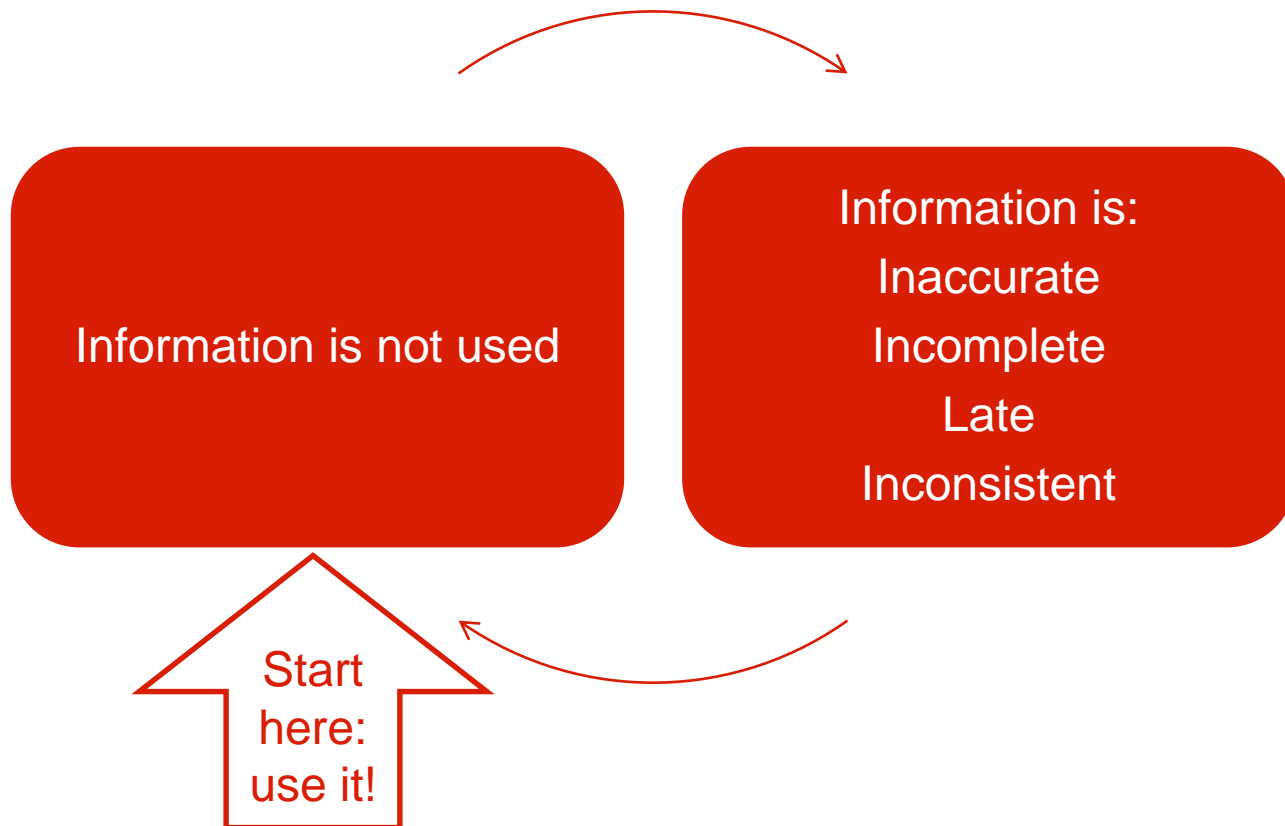
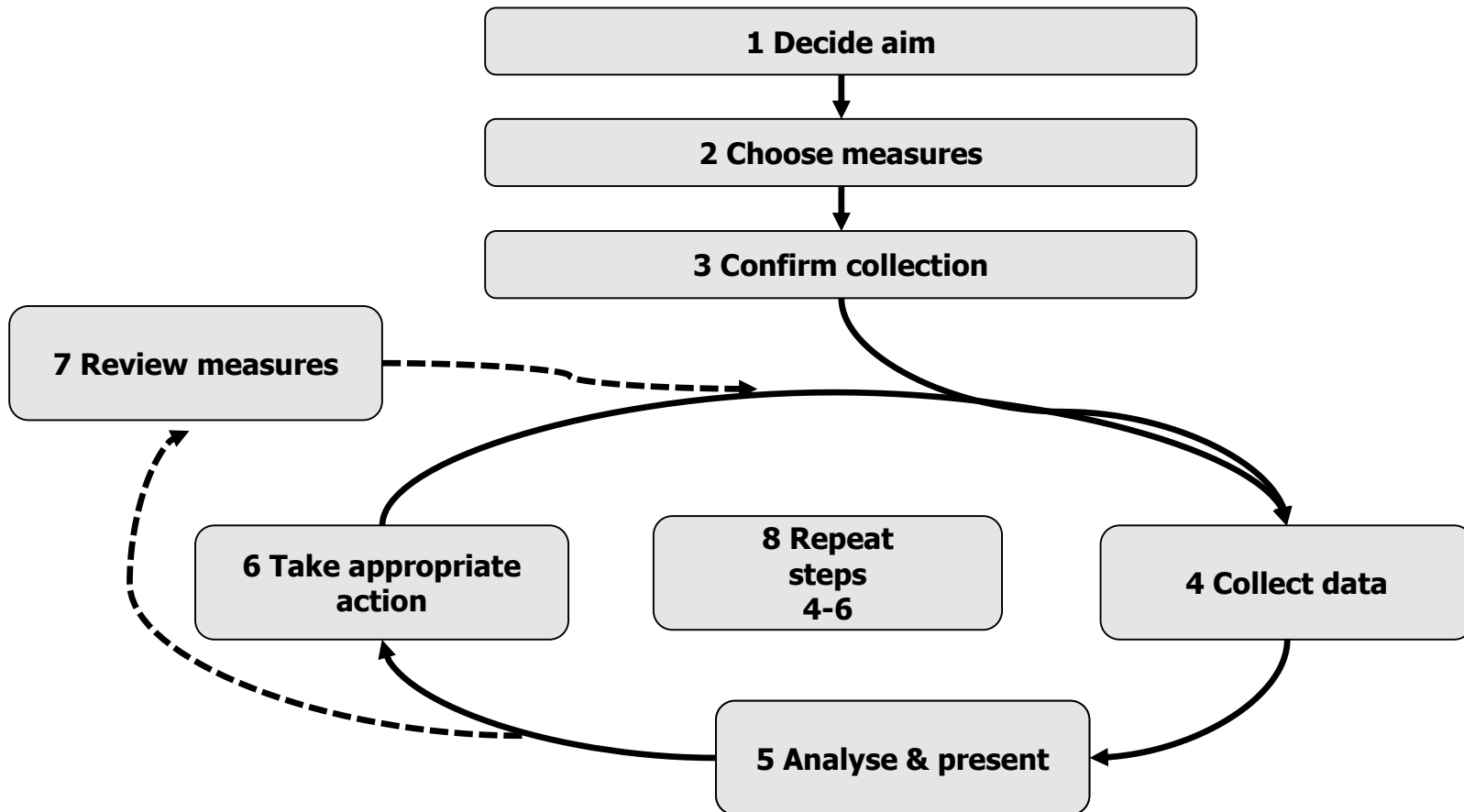


Improving Patient Care Through Data and Measurement

The information vicious circle



How is it supposed to work?



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Project Team Presentation

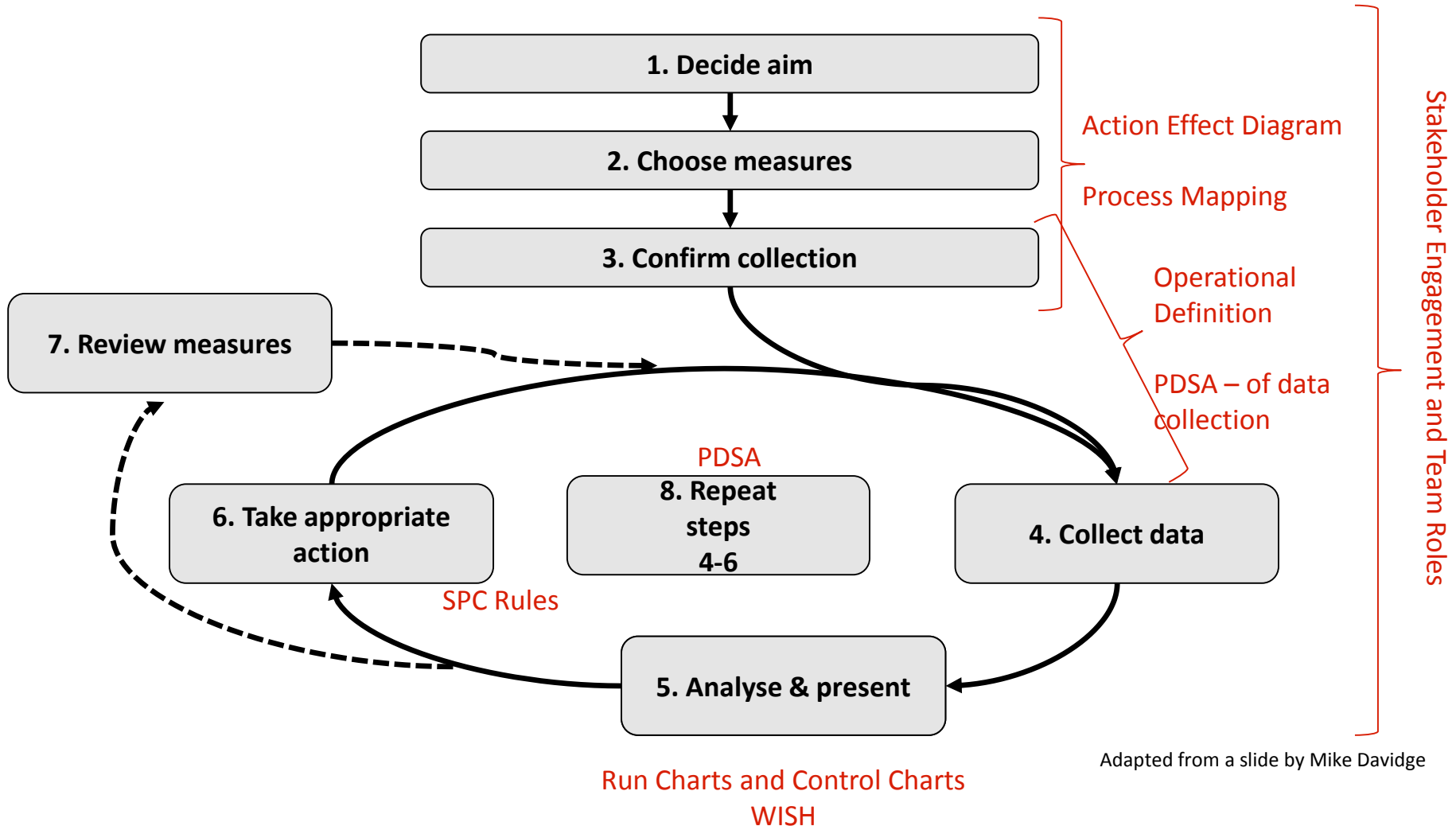
Reflections

- Questions
- Comments

Group discussion:

- Commonalities with other projects?
- Differences?
- Shared learning

How does it work in practice?



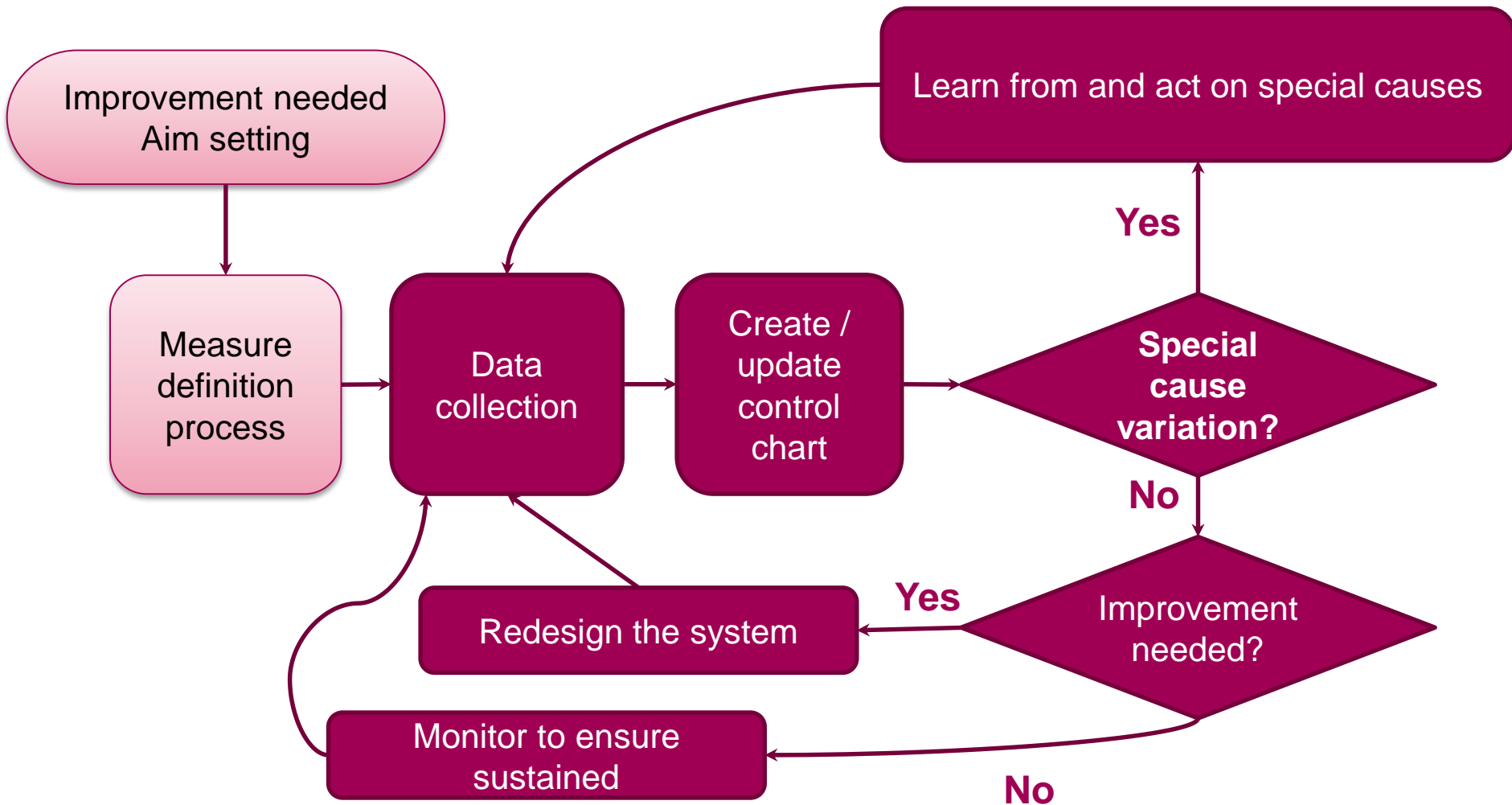
Adapted from a slide by Mike Davidge

Run charts

Rules (points on the median don't count)

- Shift: 6 or more consecutive points all above or all below median
- Trend: 5 or more all going up, or all going down
- Runs: count the times the line crosses the median and add one

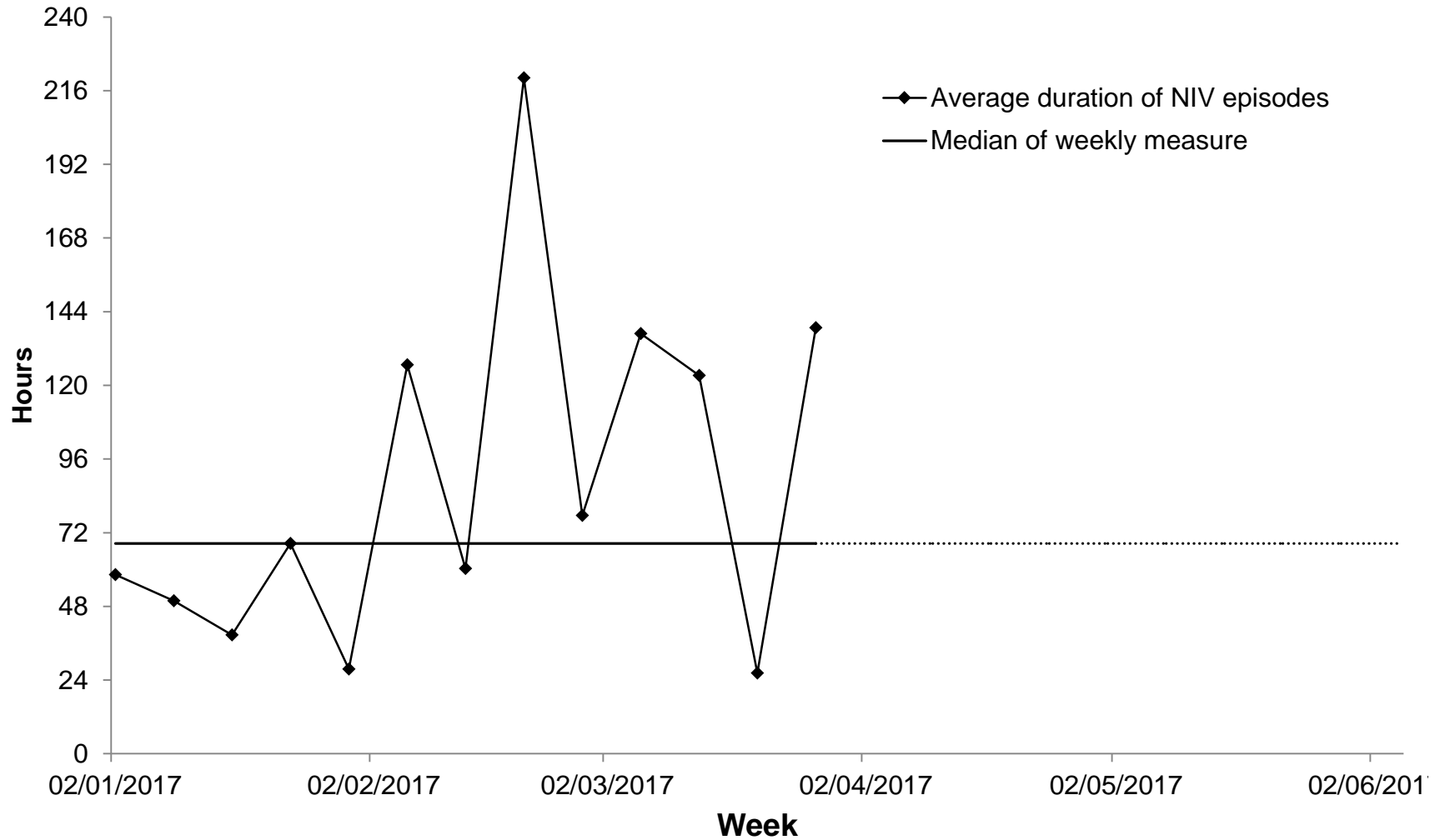
Making better decisions with data



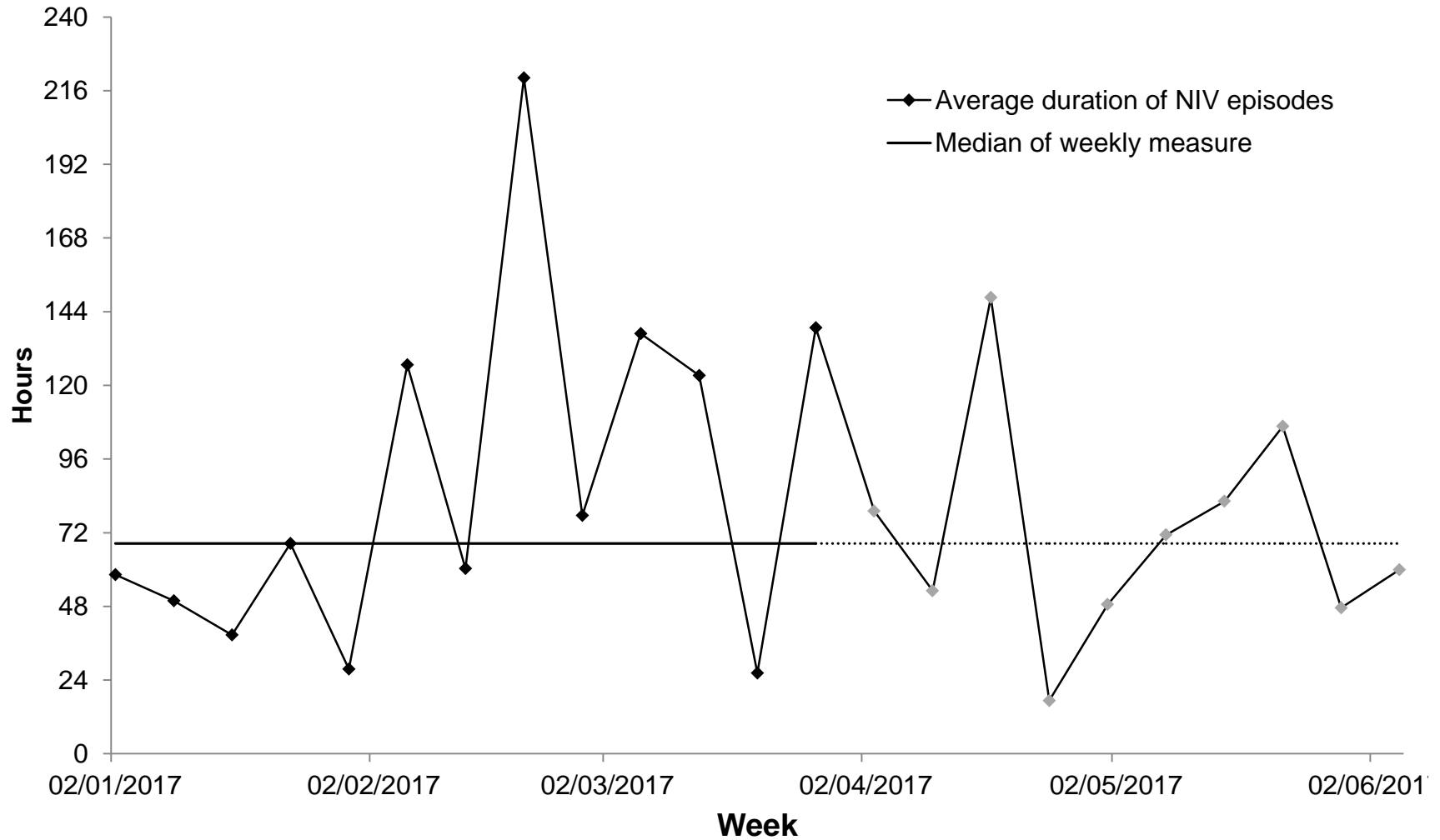
Understanding Variation

Let's explore what might happen in the NIV project next, focussing on just one measure as an example...

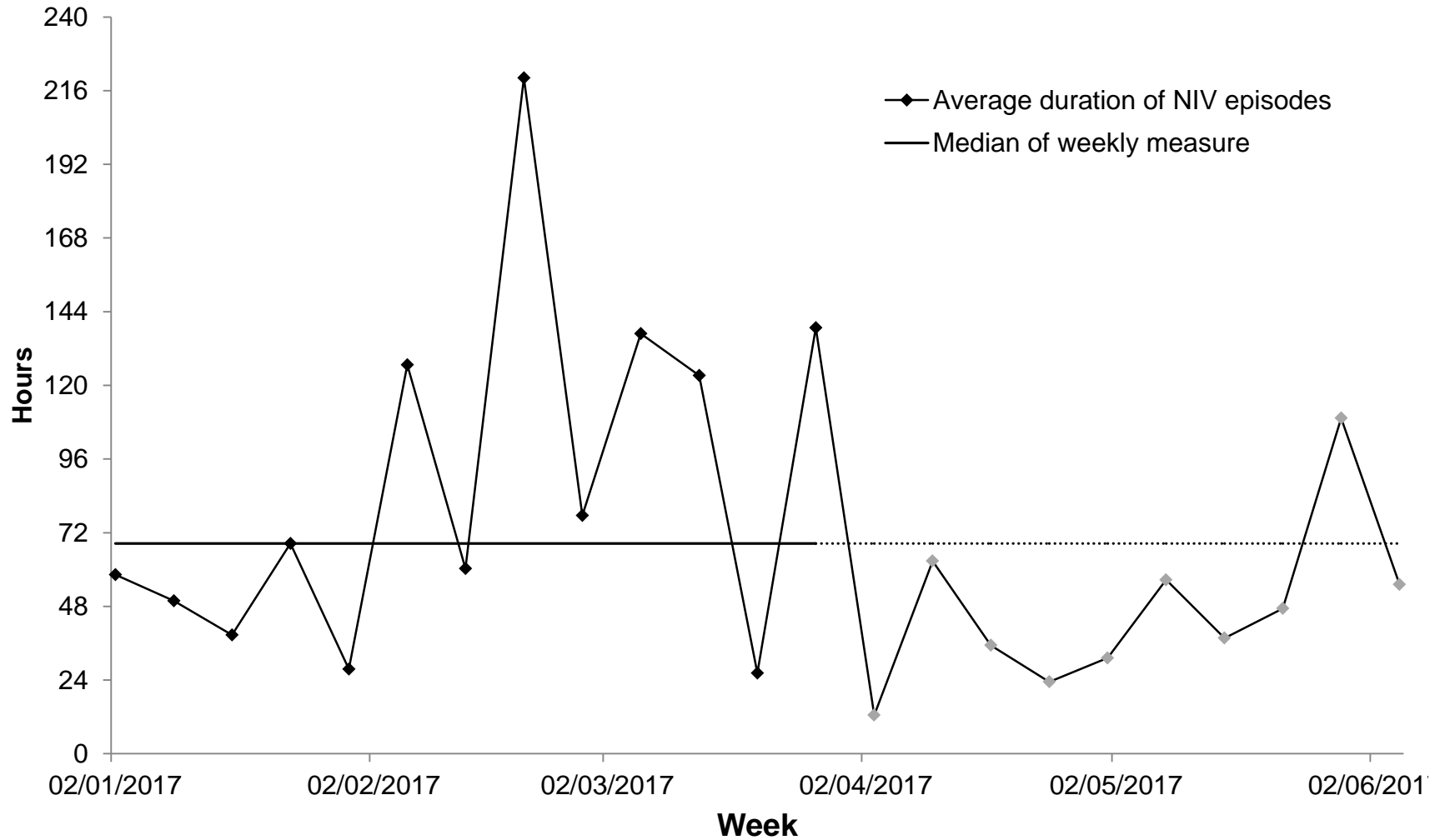
Average duration of NIV episodes each week (hours)



Average duration of NIV episodes each week (hours)



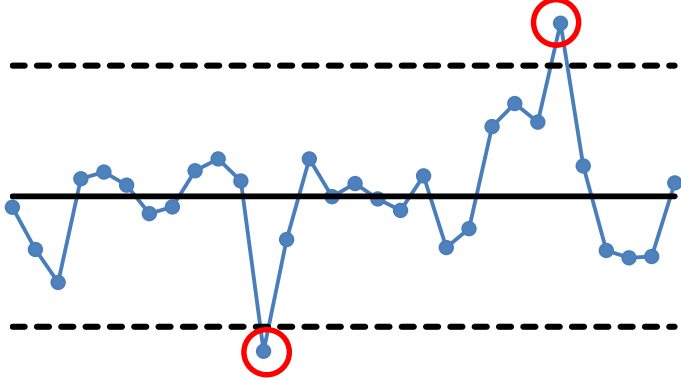
Average duration of NIV episodes each week (hours)



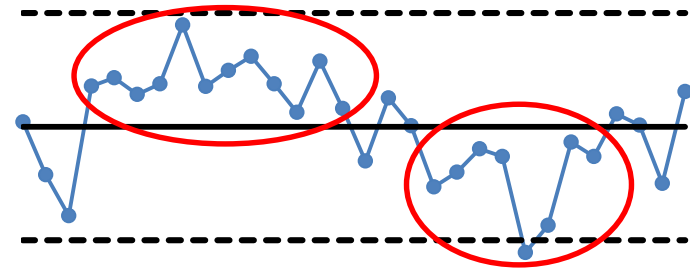
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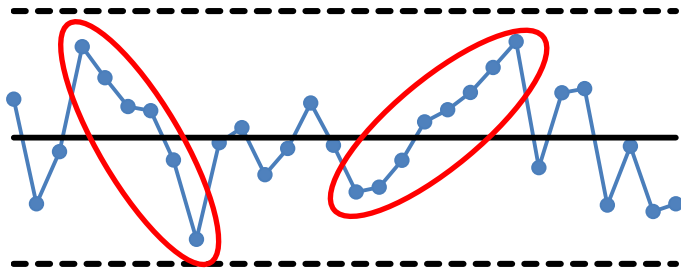
1. A single point outside the control limits



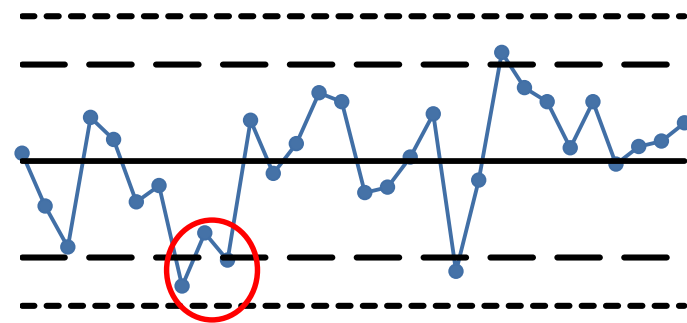
2. A run of Eight or more points in a row all above or all below the centre line



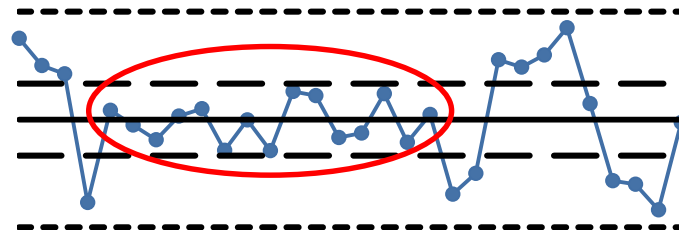
3. Trend - Six or more consecutive points all increasing or decreasing



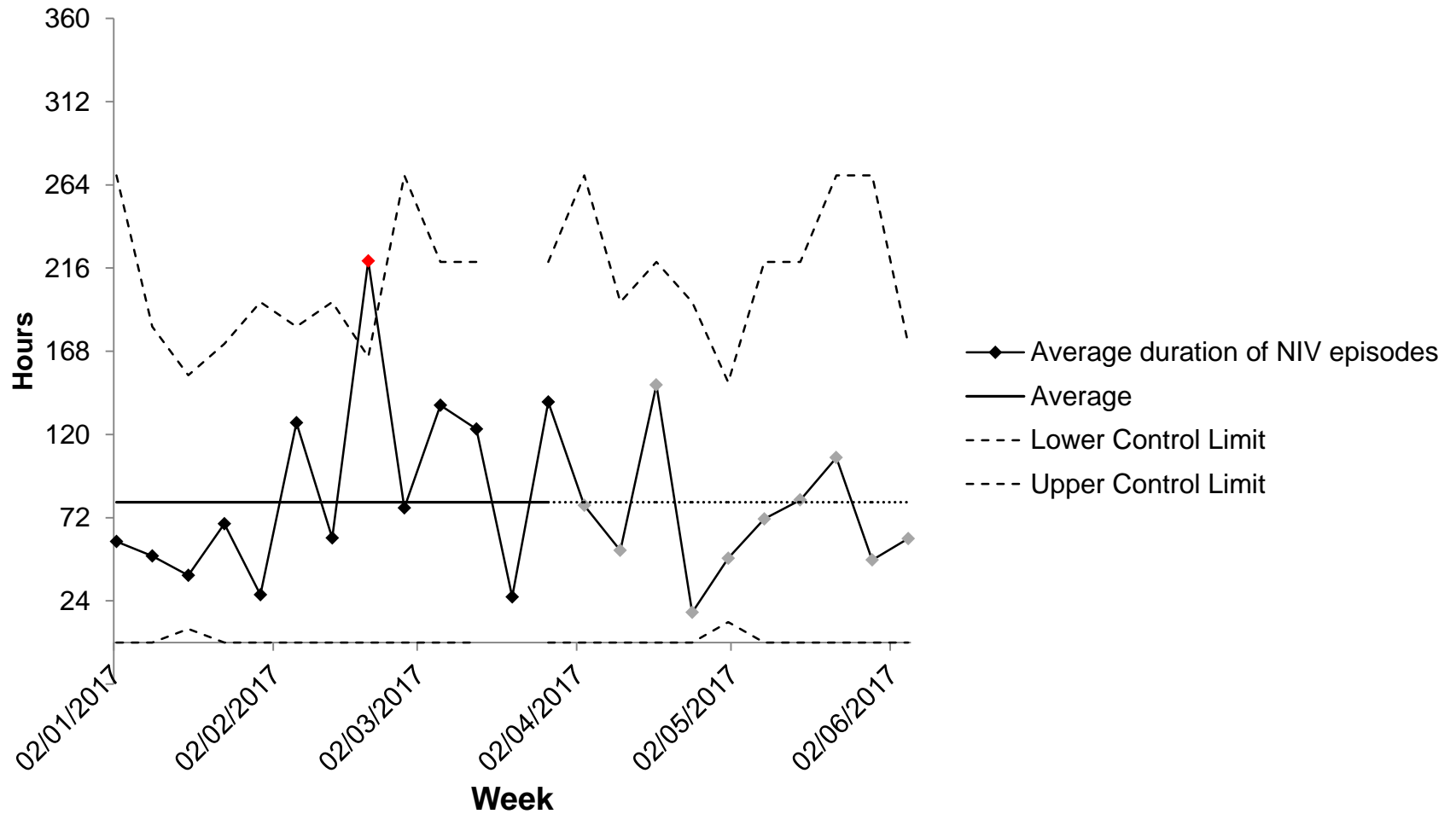
4. Two of three consecutive points near a control limit (in the outer third)



5. Fifteen consecutive points close to centre line (inner third)



Average duration of NIV episodes each week (hours) XbarS chart



Practical Implications

Discuss as a group – what structures and processes need to be in place in order to achieve “measurement for improvement”?

Conclusions

- Get started by *using data* – start small
- Define your measures – and test them
- Collect data: routinely collected *where possible*
- Analyse using run charts to begin with (10+ data points)
- Is your baseline stable? Action accordingly...
- Use control charts once you have enough data (20+)
- Use the charts to make better decisions!

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