

# Measurement for Improvement

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# Aims and Objectives



To provide you with an understanding of measurement for improvement

By the end of the workshop you will understand:

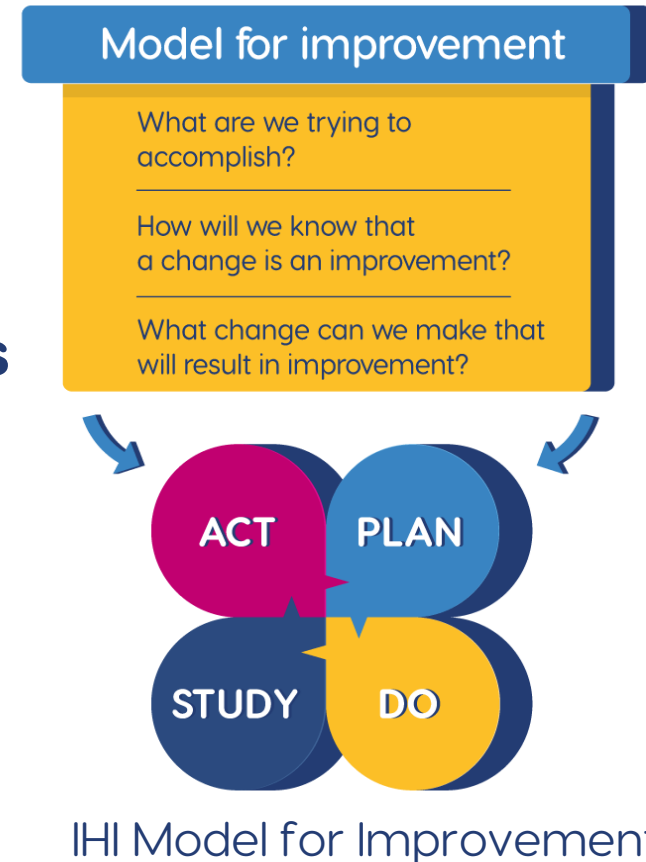
- Importance of measurement for improvement
- Different ways of measuring (defining outcome, process, balancing and patient experience measures)
- Presenting data in a meaningful way – Run charts



# 10 steps in QI

KQUIP Methodology

1. Agree an area for improvement
2. Involve and assemble your team
3. Understand your problem/ system
4. Define project aim and scope
5. Choose 'just enough' project measures
6. Develop change ideas
7. Test change ideas (PDSA)
8. Measure impact of changes
9. Do further PDSA cycles
10. Implement successful changes

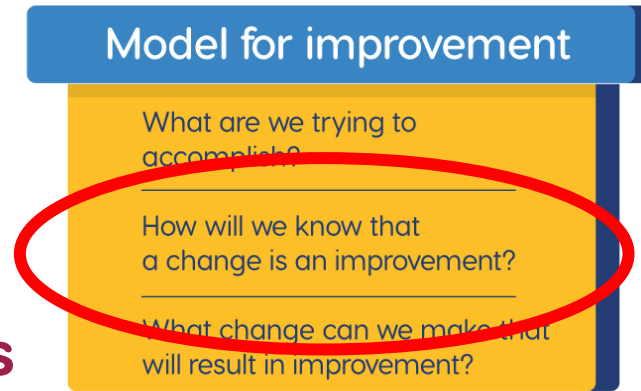


Share your progress

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IHI Model for Improvement

Share your progress

# Types of measurement



Research

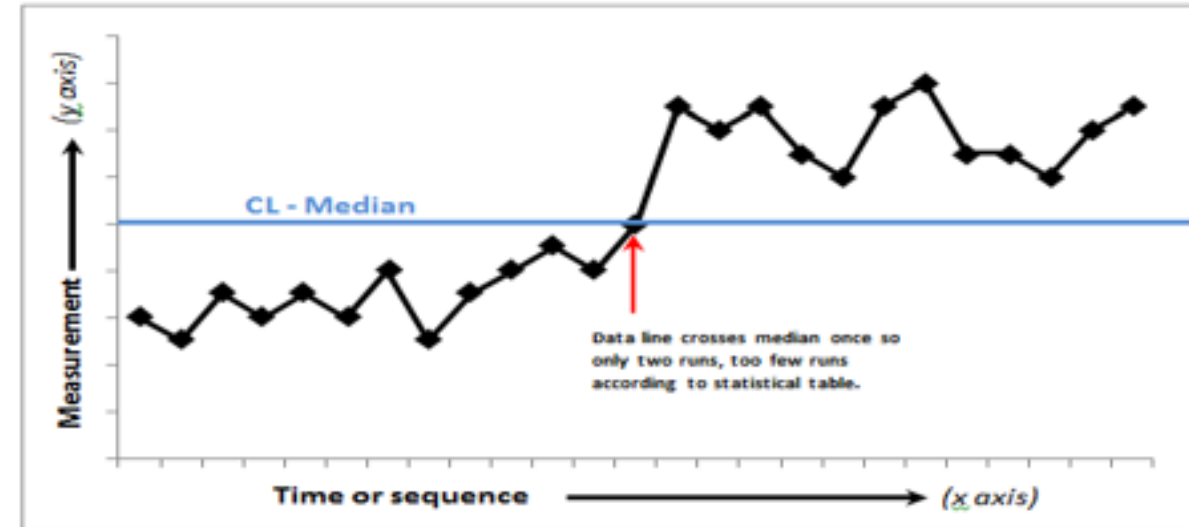


Target



## Quality Improvement

eg. No. of transplants per month



# Measurement

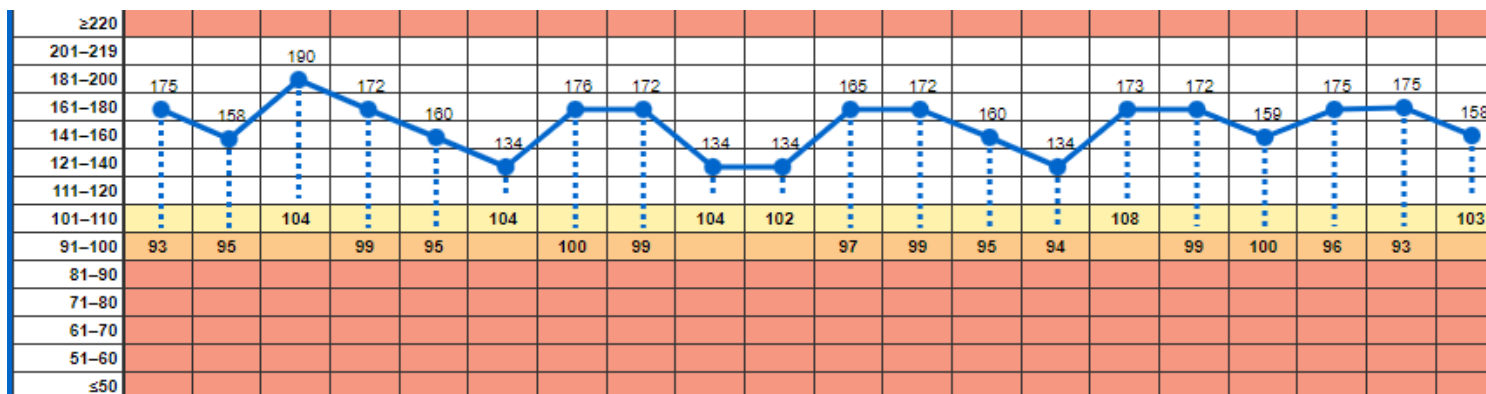


## Blood pressure record chart

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Date and time	Systolic blood pressure	Diastolic blood pressure	Comments



# Why do we need to measure?

We measure to understand:

If we have achieved change

If the change has had the correct effect

Whether we are maintaining the change

What we need to focus on next

# Measuring Impact



Outcomes

Process

Balancing

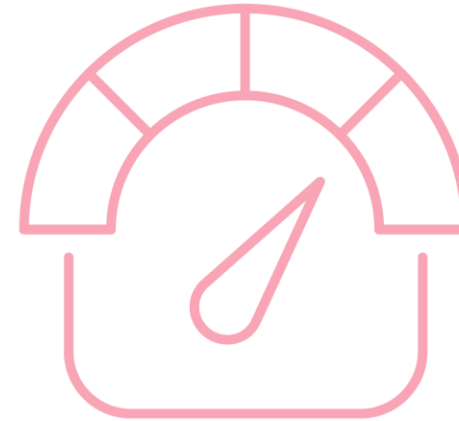
Patient experience





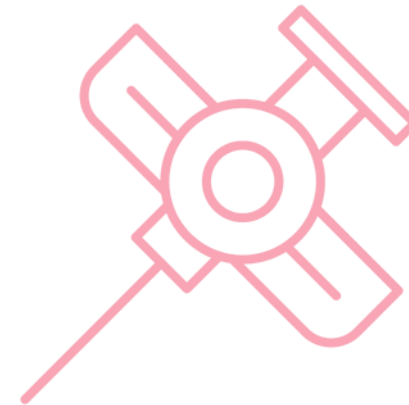
# Outcome measures

- Focus on clinical outcomes
- Have we made things better for patients?
- The ultimate aim
- Often take time to demonstrate results



# Process Measures

- Have you changed your processes?
- Assumes process change will lead to positive change in clinical outcomes
- Often provide faster results



# Balancing Measures

- Identify any unintended consequences
- Generally negative
- Ensure you detect the full consequences of change



# Patient Experience



Annual Kidney PREM

Patient  
Reported  
Experience  
Measure

**Kidney Patient Reported Experience Measure (PREM)**

**Take part in the annual survey of UK kidney patients**

**Your voice matters!**

A white outline icon of a megaphone, symbolizing communication or a call to action.The logo for Kidney Care UK, featuring a stylized 'K' with orange and green elements and the text 'Kidney Care UK' to its right.The logo for the UK Kidney Association (UKKA), featuring a colorful circular icon and the text 'UKKA UK Kidney Association' to its right.



# “Just enough” data

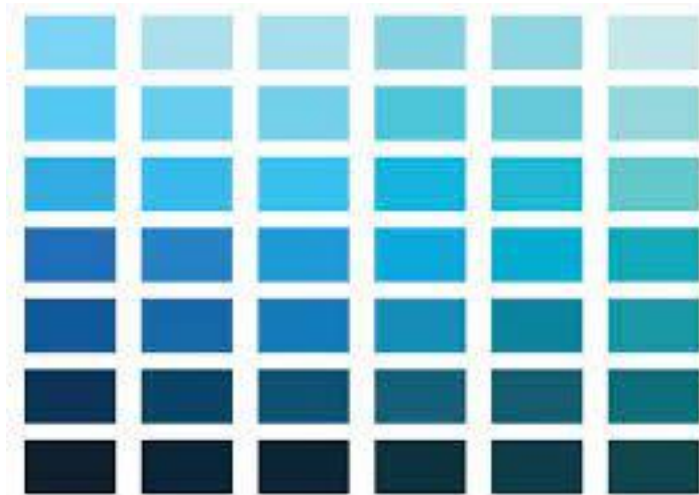
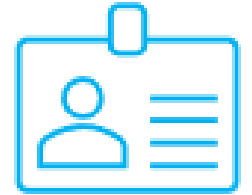
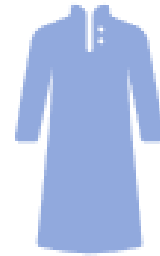
## Data collection is time-consuming

### What do you really need?

- 1-2 outcome measures
- 2-4 process measures
- 0-1 balancing measure
- 1-2 experience measures



# Defining measures



# Defining measures – Qualities of a good measure



Easy to  
understand

Meaningful

Appropriate

Well defined  
&  
Understood

Reproducible

# Collecting data

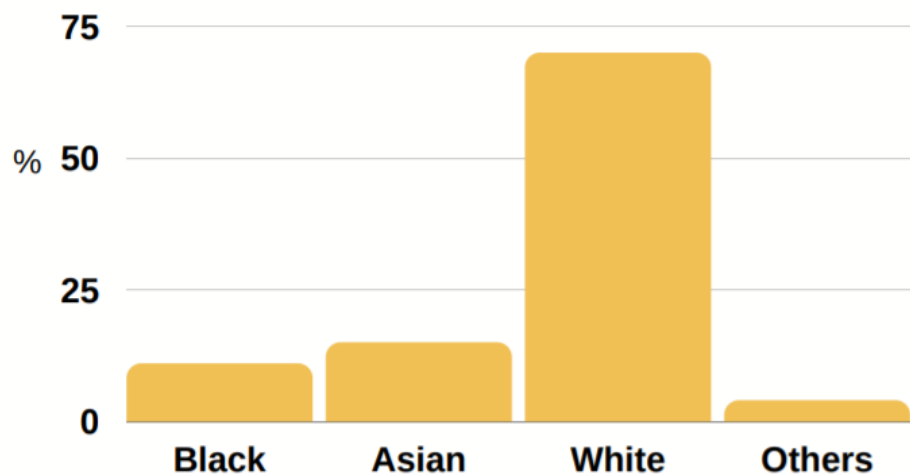


Who  
When  
How  
Sample size  
Matrix



# The power of presenting data

## Characteristics of all people on in-centre haemodialysis in 2019



6/10  
MALE

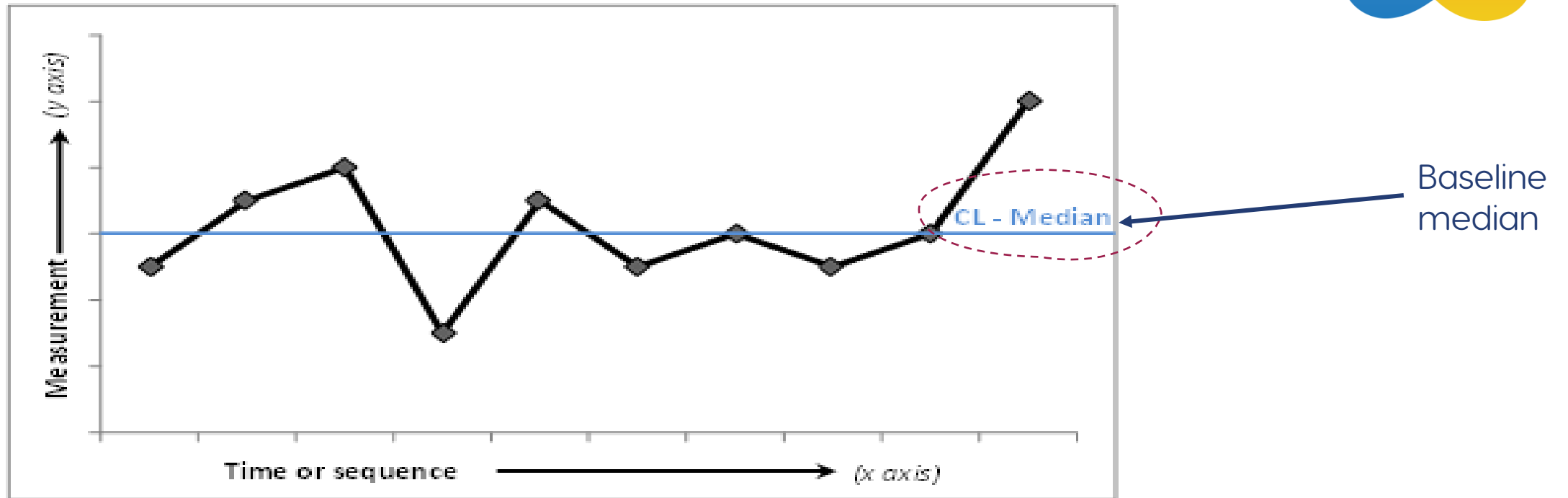
67.5  
YEARS  
average age

Around **24,000 adults** were on **in-centre haemodialysis** at the end of 2019 - around **4 in 10** of all those on **kidney replacement treatments**.

In 2019 the number of adults who started kidney replacement treatment on in-centre haemodialysis varied between 5 in 10 at some centres to all at others.



# Run chart



A “run” = series of points in a row on one side of the median

Need 10 – 12 data point to detect meaningful patterns

Ignore any observations falling directly on the centreline (median)

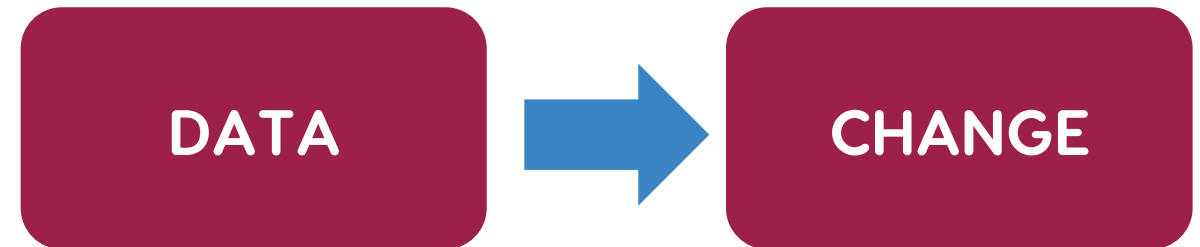
## Then what do you do?

### Interpret

- What does it tell you about your practice?
- Has something worked?
- What else needs to change?

### Share

- Nursing staff
- Patients
- Wider team



# Further info on QI charts and measurement



For more info:

[NHS East London QI SPC charts](#)

[NHS England QI tools SPC charts](#)

<https://youtu.be/Za1o77jAnbw> (10 min. video on QI measurement by Mike Davidge, NHS Institute for Innovation and Improvement)



# Breakout rooms - to develop a draft regional measurement strategy



process  
measures

balancing  
measures

outcome  
measure

experience  
measures