

Dialysis improvement impact in the healthcare system

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Dialysis improvement impact in the healthcare system

- Introduction
- Willem Kloff
- The evolution of dialysis
- Dialysis unit
- Water quality and efficiency
- Energy sustainability
- Cost of Dialysis
- Maintenance
- Future improvements

Introduction

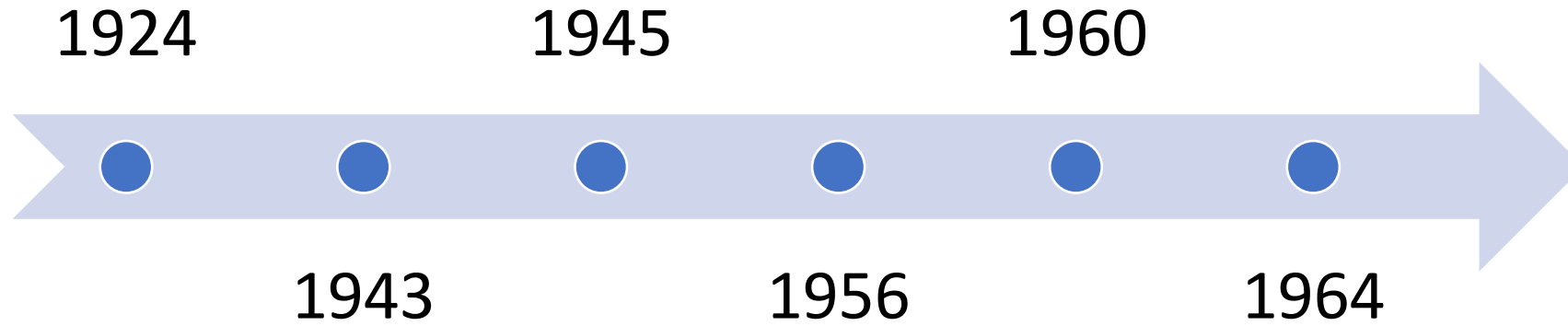
- What are the kidney functions?
- What is kidney dialysis?

Willem Kloff

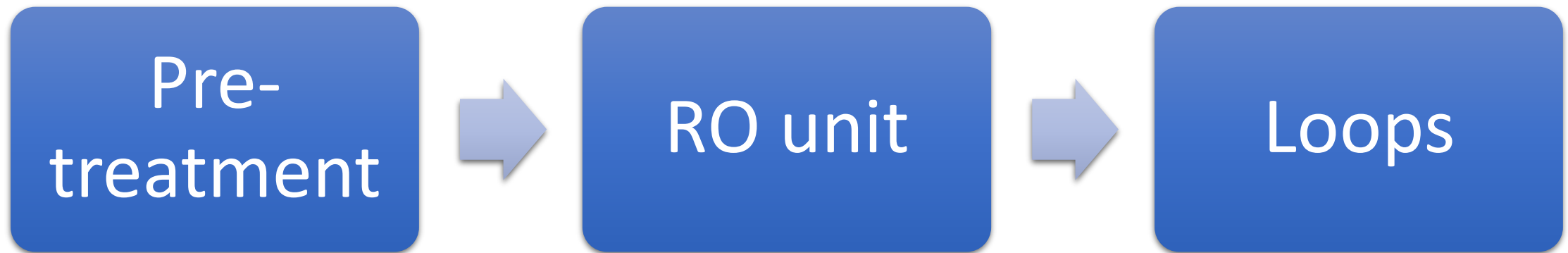
Father of artificial
organs



The evolution of dialysis



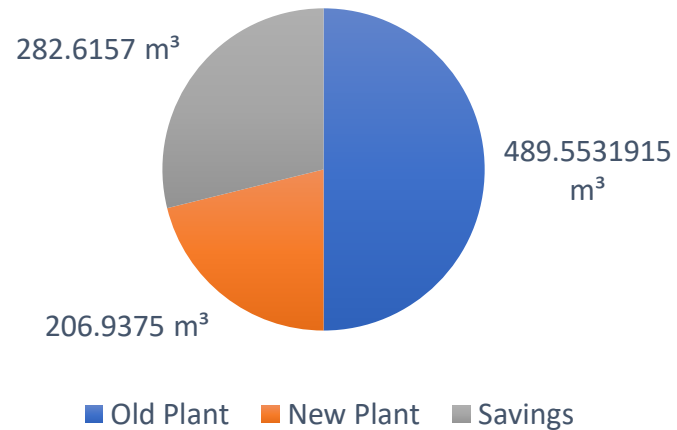
Dialysis Unit



Water quality and efficiency

- Adversities of contaminated water
- Minimize water waste

Water Consumption per week



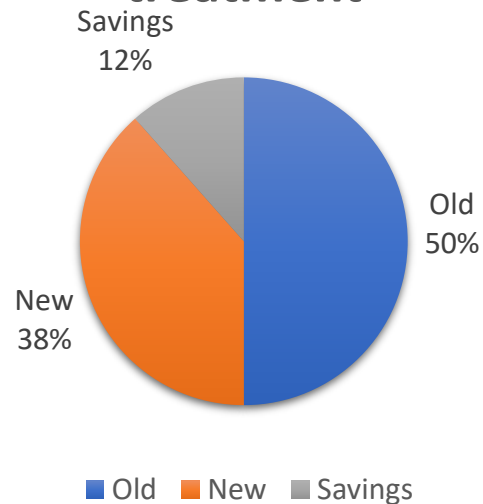
Water quality and efficiency

- Water Standards
 - Renal Association Clinical Practice Guideline
 - BS EN ISO 13959:2015
 - BS EN ISO 26722:2015
 - BS EN ISO 11663:2015
 - BS EN ISO 23500:2019

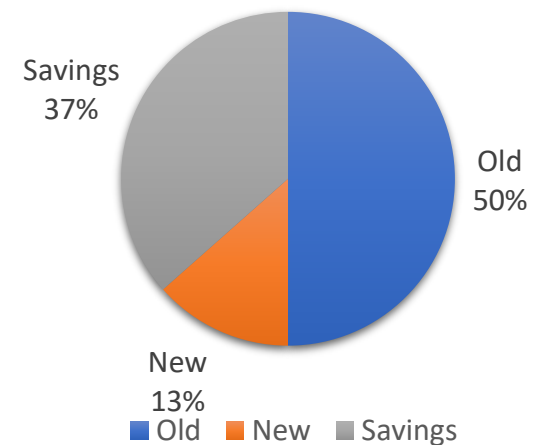
Energy sustainability

- New machines energy consumption
- Water plant energy need

Old and New machines consumption per treatment

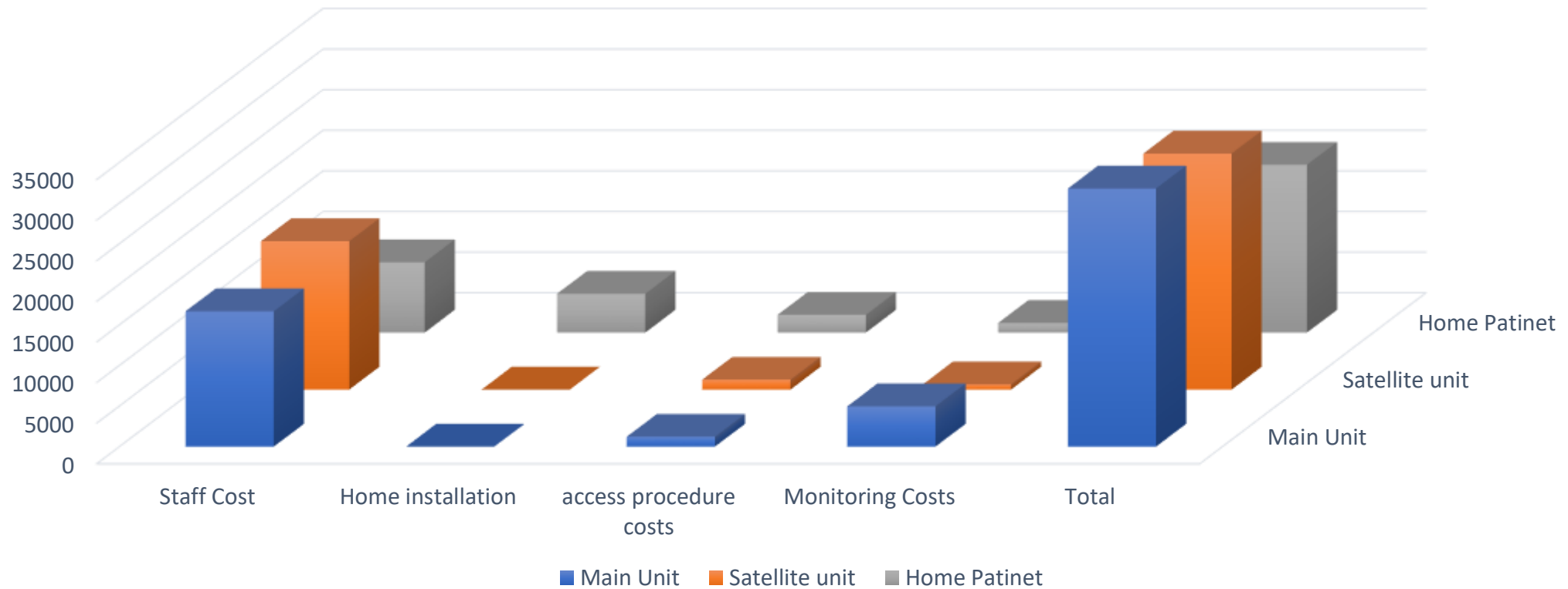


Old and New Plant energy consumption yearly



Cost of Dialysis

HD Treatment Cost



Maintenance

- Scheduled maintenance
- Scheduled samples to monitor water quality and machine status

Future development

- Mandatory training
- Awareness and education of early kidney disease
- Improved transport network
- Remote access to patient treatments
- Government plan in increasing percentage of Home Dialysis patient
- Environmental impact
- Easier holiday dialysis access

Thank you

Any questions?