

December 7, 2025

23rd Asian Pacific Congress of Nephrology (APCN 2025)

2025 Annual Meeting of Taiwan Society of Nephrology

The Results of 2023 On-site Auditing of Hemodialysis Centers (Chapter 2, 4 and 5)

Shu, Kai-Hsiang

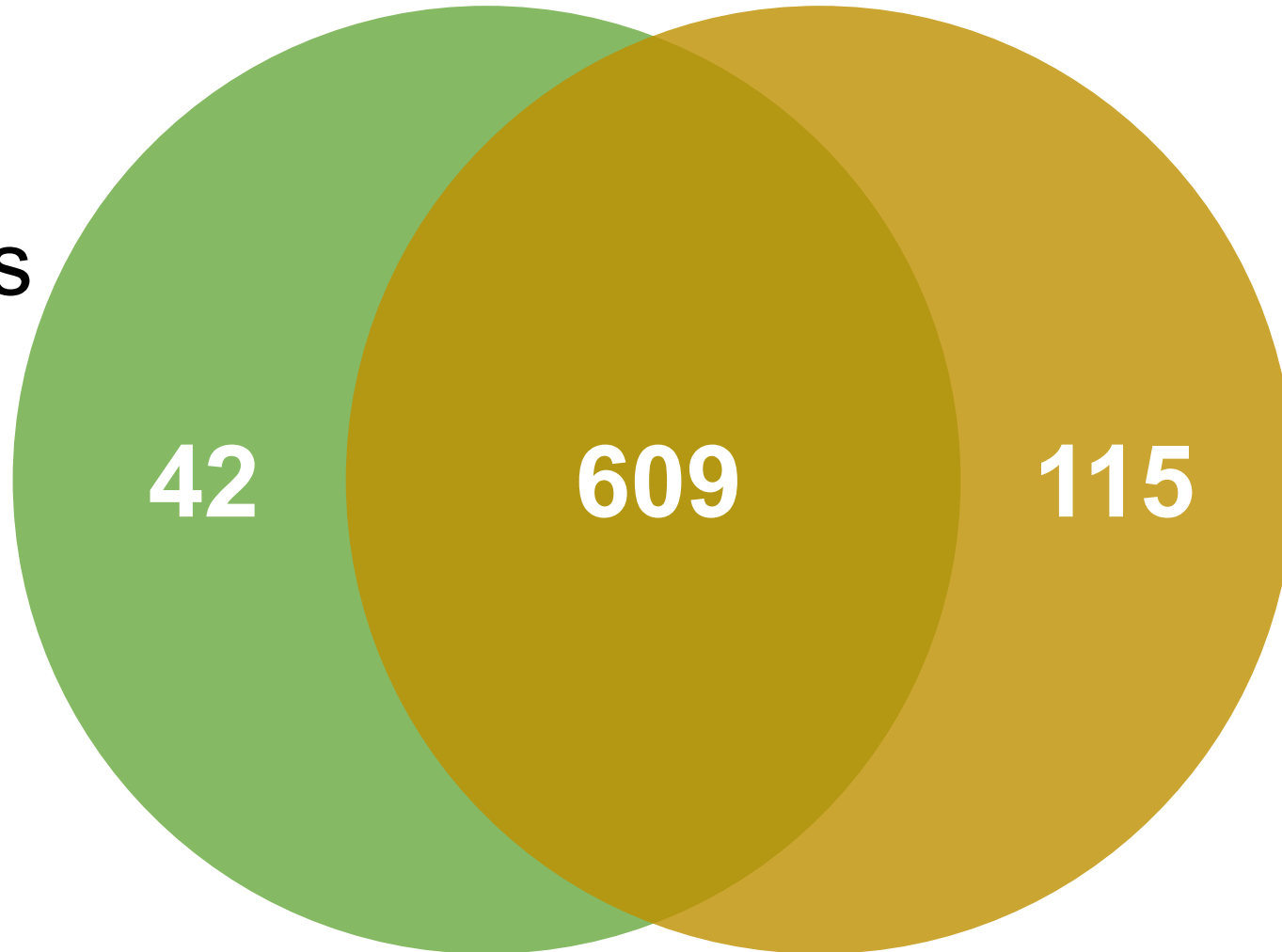
Far Eastern Memorial Hospital, New Taipei City, Taiwan

Outline

- Numbers of dialysis units
- Results
- Conclusions

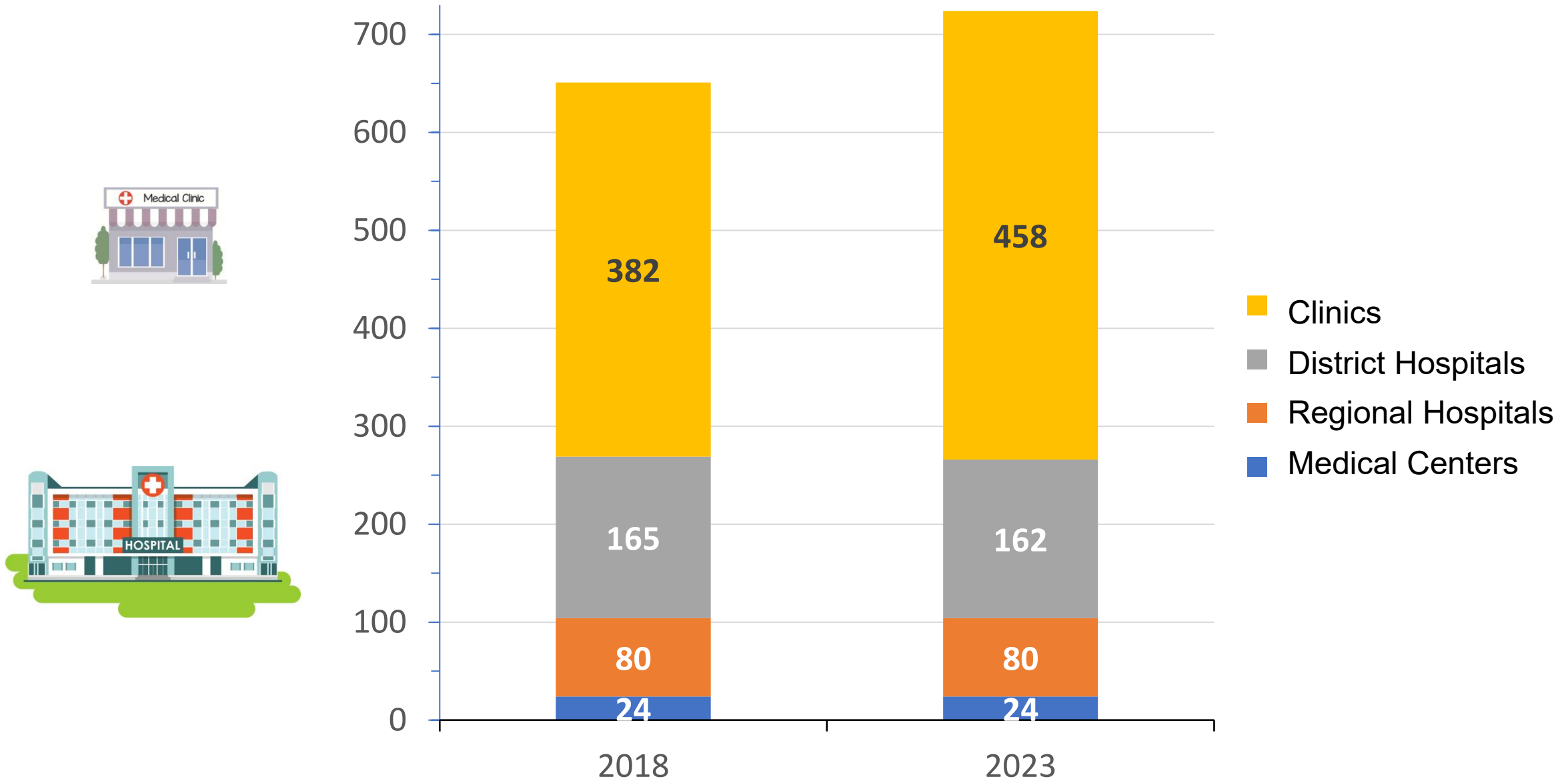
Numbers of Dialysis Units

2018 audit
651 facilities



2023 audit
724 facilities

Distribution of Dialysis Units: Facility Levels



Contents



Excellent
Passed
Failed

Healthcare Quality

Medical records

Dialysis adequacy

Anemia

CKD-MBD

CV complications

Personnel Quality Improvement

Continuing medical
education

Human power

Administration and Management Appropriateness

Dialysis machine
maintenance

RO system disinfection
and bacterial culture

Emergency generator

Disposables
management

Medical records
storage

Contingency planning

2.1 Comprehensive Dialysis Medical Records

2.1.1 Past medical history



2.1.2 Drug allergy, Hepatitis B and C, blood type



2.1.3 Creation records for vascular access



2.1.4 Dialysis orders



2.1.5 Lab data



2.1.6 Records for sessions



2.1.7 Completeness of records



2.2 Healthcare quality

2.2.1 Dialysis adequacy

2.2.2 Anemia

2.2.3 CKD-MBD

2.2.4 Cardiovascular complications

2.2.1 Dialysis adequacy

2.2.1.1 Urea Reduction Ratio 

2.2.1.2 Kt/V 

2.2.1.3 Albumin 

2.2.2 Anemia

2.2.2.1 Hemoglobin



2.2.2.2 Ferritin



2.2.2.3 Erythropoiesis stimulating agent



2.2.3 CKD-MBD

2.2.3.1 Calcium-phosphate product



2.2.3.2 Intact PTH



2.2.4 Cardiovascular complications

2.2.4.1 Cardio-thoracic ratio



2.2.4.2 Blood pressure management



4.1 Personnel quality improvement: doctors

4.1.1 Attending conferences



4.1.2 Hosting in-house case conference



4.2 Adequacy of nephrologists



5.1 Devices management (ANSI/AAMI 13959:2014)

5.1.1 Machine repairment and disinfection

5.1.2 RO system maintenance and disinfection

5.1.3 Bacterial culture

5.1.4 Emergency generator

5.1.5 Wastewater and disposable managements

5.1.1 Machine repairment and disinfection

5.1.1.1 Maintenance protocols



5.1.1.2 Contracted maintenance personnel



5.1.1.3 Dialysis machine maintenance and repair



5.1.1.4 Defibrillator and sphygmomanometer maintenance



5.1.1.5 User's manuals



5.1.1.6 Disinfection



5.1.2 RO system maintenance & disinfection

5.1.2.1 Maintenance and disposable replacement records



5.1.2.2 System maintenance and disinfection protocols



5.1.2.3 Maintenance and disinfection records



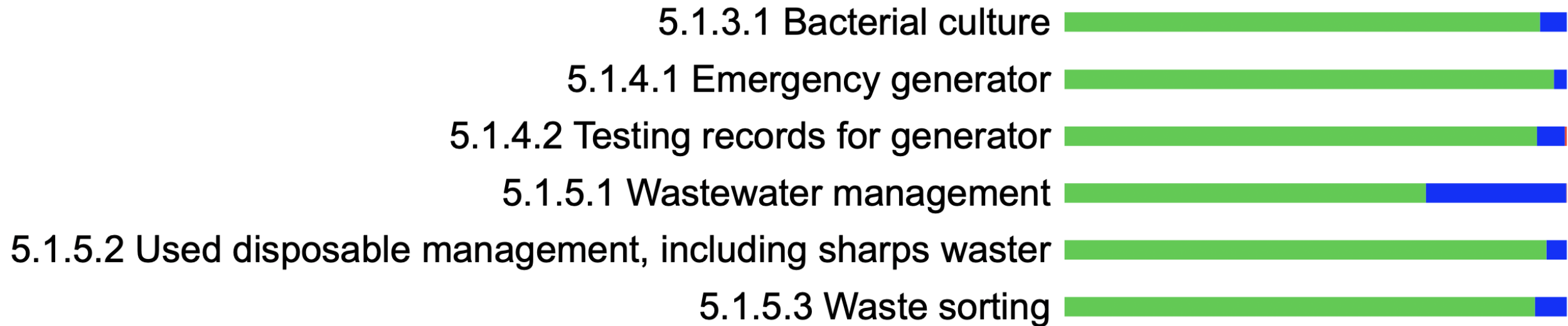
5.1.2.4 Daily maintenance: conductivity and softener regenerating salt



5.1.2.5 Residual chlorine, hardness, and heavy metals



Culture, generator, and waste management



*Monthly for RO water, seasonally for dialysis machine, annual for endotoxin

Medical records storage

5.2.1.1 Appropriate space with designed manager



5.2.2.1 On-site examination of medical records



5.2.2.2 Cybersecurity



Contingency planning

5.3.1.1 Preparation of emergency response plan with live drills



5.3.1.2 Continuous improvement following unexpected events



5.3.1.3 Fire evacuation plan with live drills



Conclusion

- Most if not all dialysis units in Taiwan met the domestic standard-of-care
- Spaces for further improvement
 - Iron and anemia
 - Fluid management and heart size
 - CKD-MBD
- Practice makes perfect: do practice drills for **contingency**

Your Attention is Appreciated