

Taiwan's experience in home hemodialysis



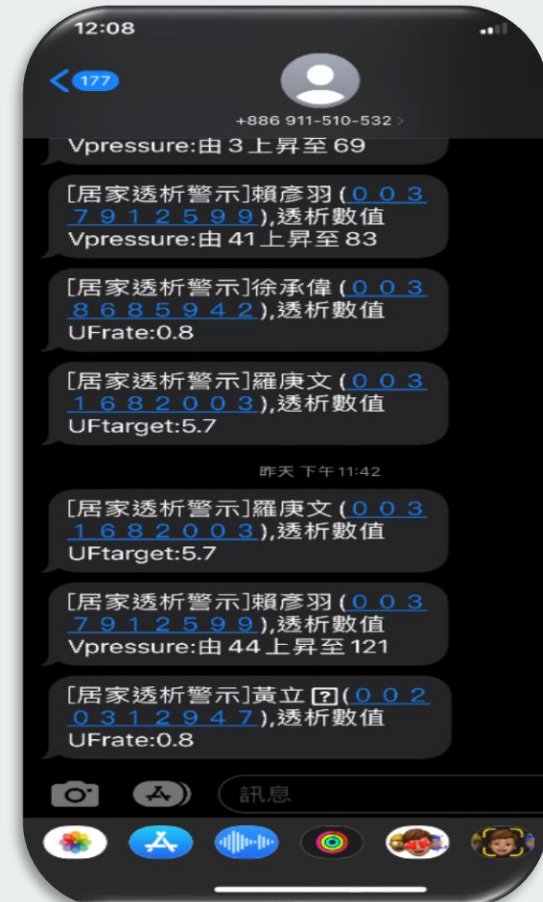
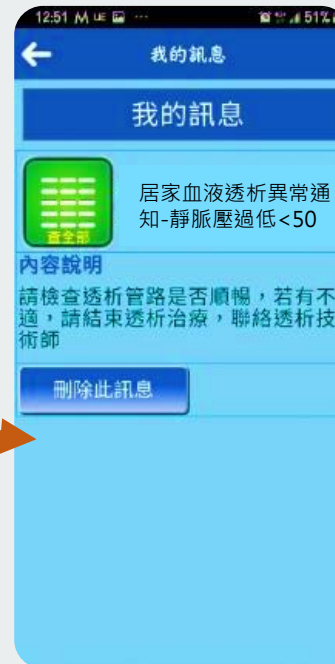
中國醫藥大學附設醫院
China Medical University Hospital

Dialysis Information Transmission

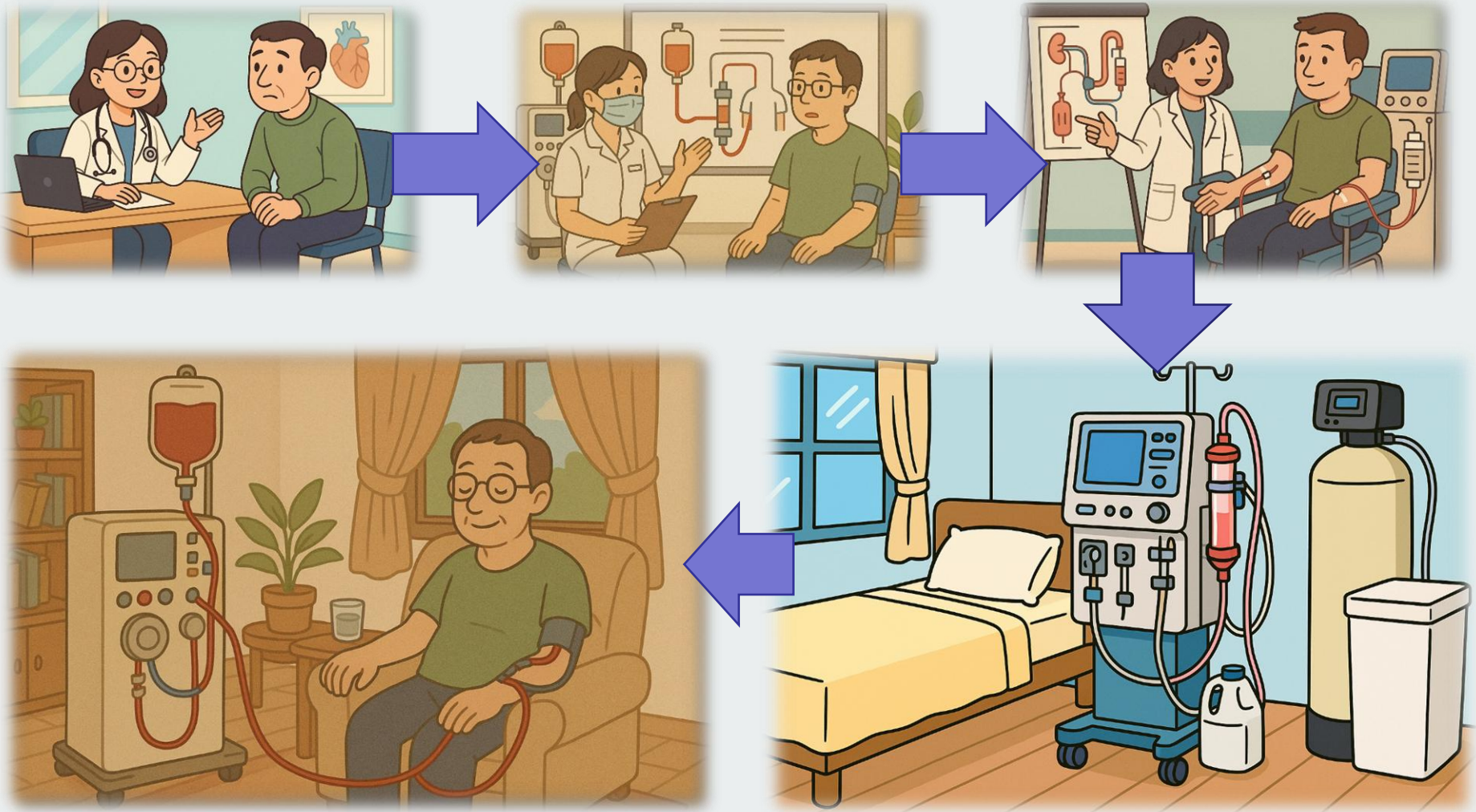
- Maintaining the safety of home hemodialysis
- Monitoring compliance with home hemodialysis



Dialysis Information Transmission



HHD Training Process



HHD Training

A

- Confirm prescription
- Prepare supplies
- Power on
- Measuring weight
- Measuring vital signs

B

- Installation
- PRIMING
- Use of anticoagulants
- Setting treatment parameters

C

- Arteriovenous fistula puncture
- Start HHD treatment
- Troubleshooting

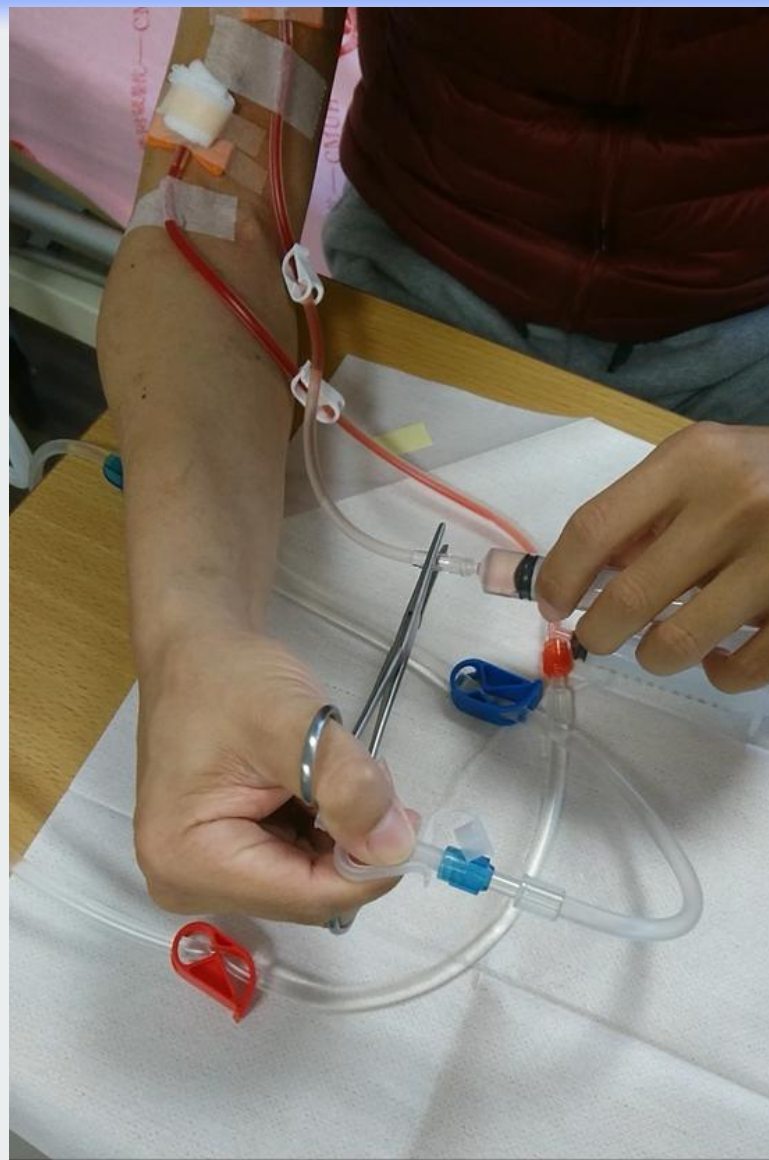
D

- End of dialysis treatment
- Puncture needle removal
- Disinfection and cleaning of dialysis machines
- Medical waste disposal

AVF puncture



Assistive tools



Splint



Routine care

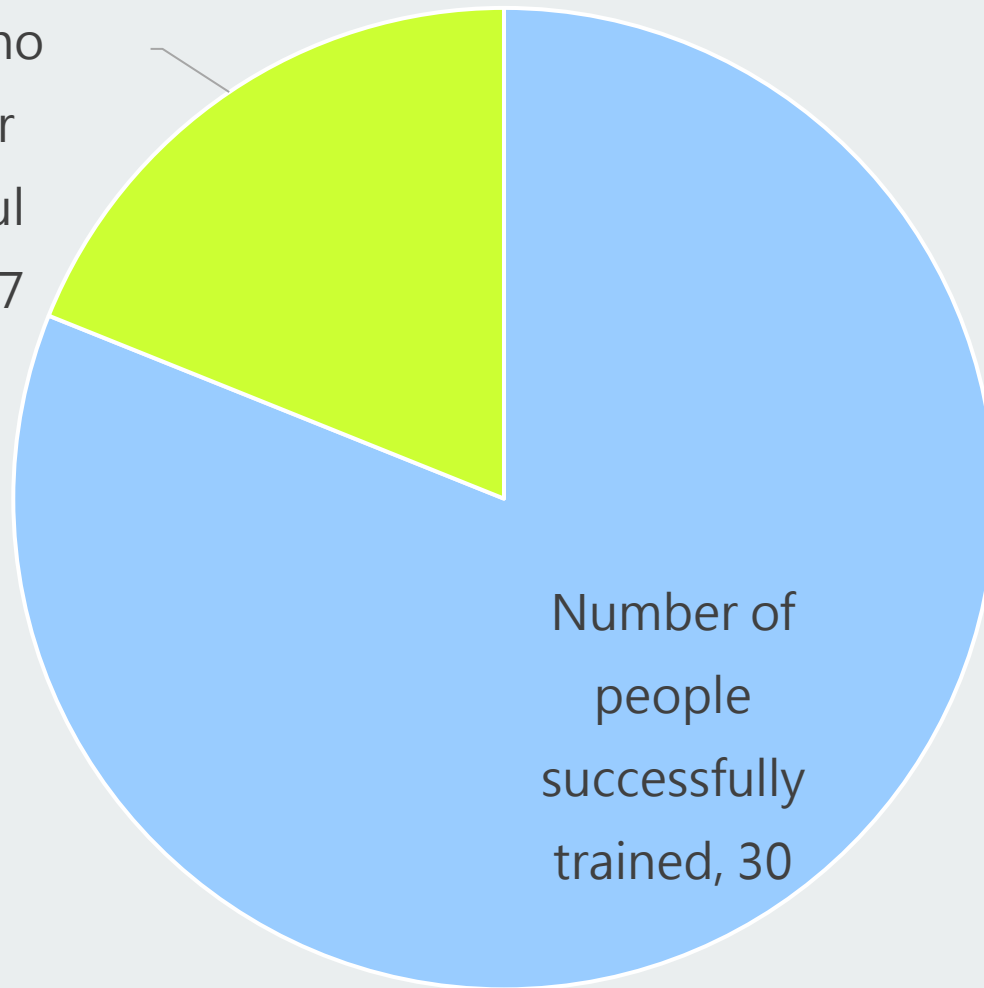
- Monthly blood tests
- Monthly kidney clinic follow-up
- Inventory of medical equipment
- Come to the hospital to collect the medical supplies needed for the month.
- Water quality monitoring : Regularly perform bacterial cultures and endotoxin tests on water quality. (Same as all dialysis clinics in Taiwan)

Dialysis machine and RO water treatment equipment maintenance

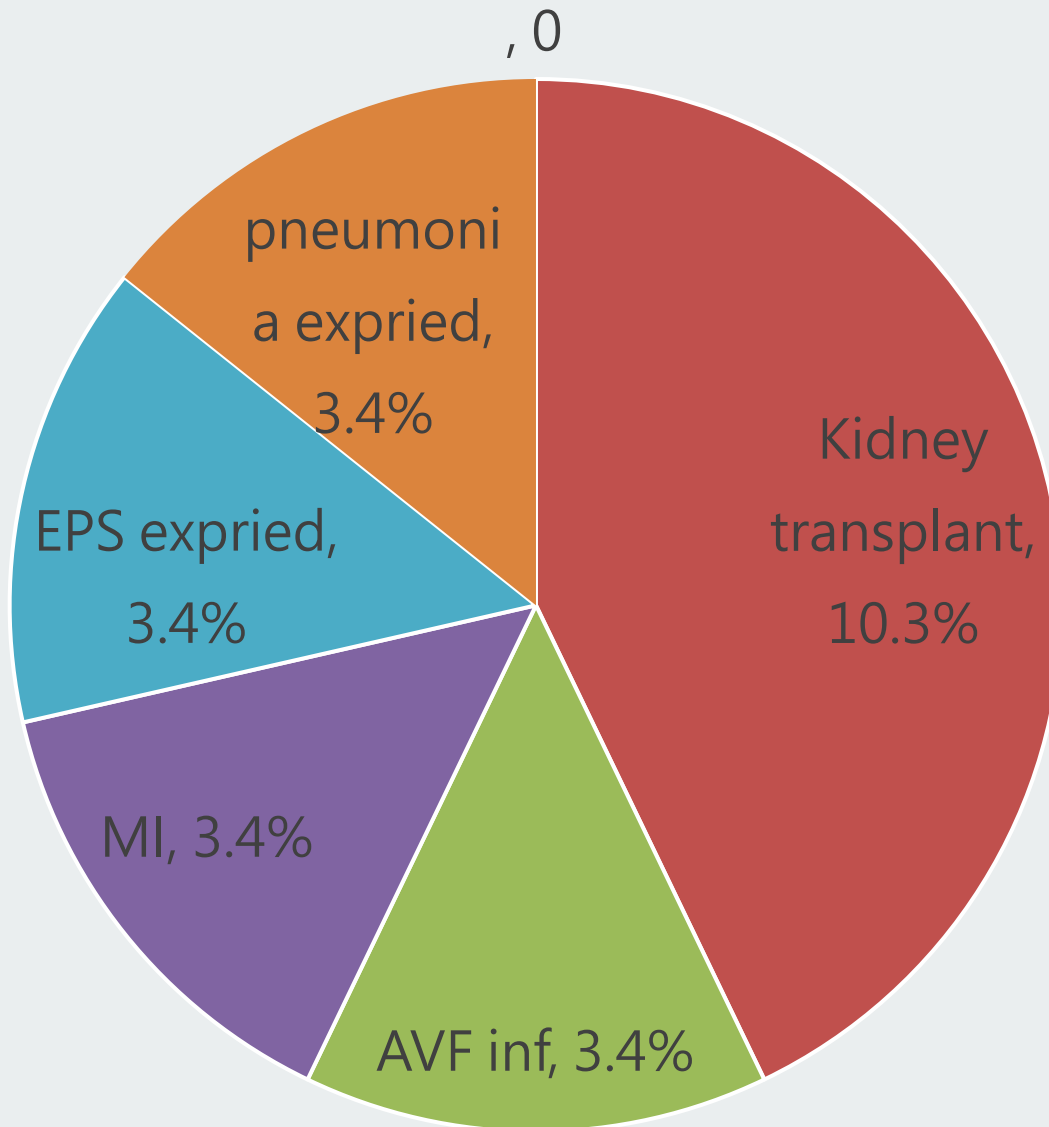
- Engineers regularly visit your home to maintain the dialysis machine and RO water treatment equipment
- If there is any abnormal situation, the engineer will come to your home to repair the equipment

Number of people undergoing HHD training

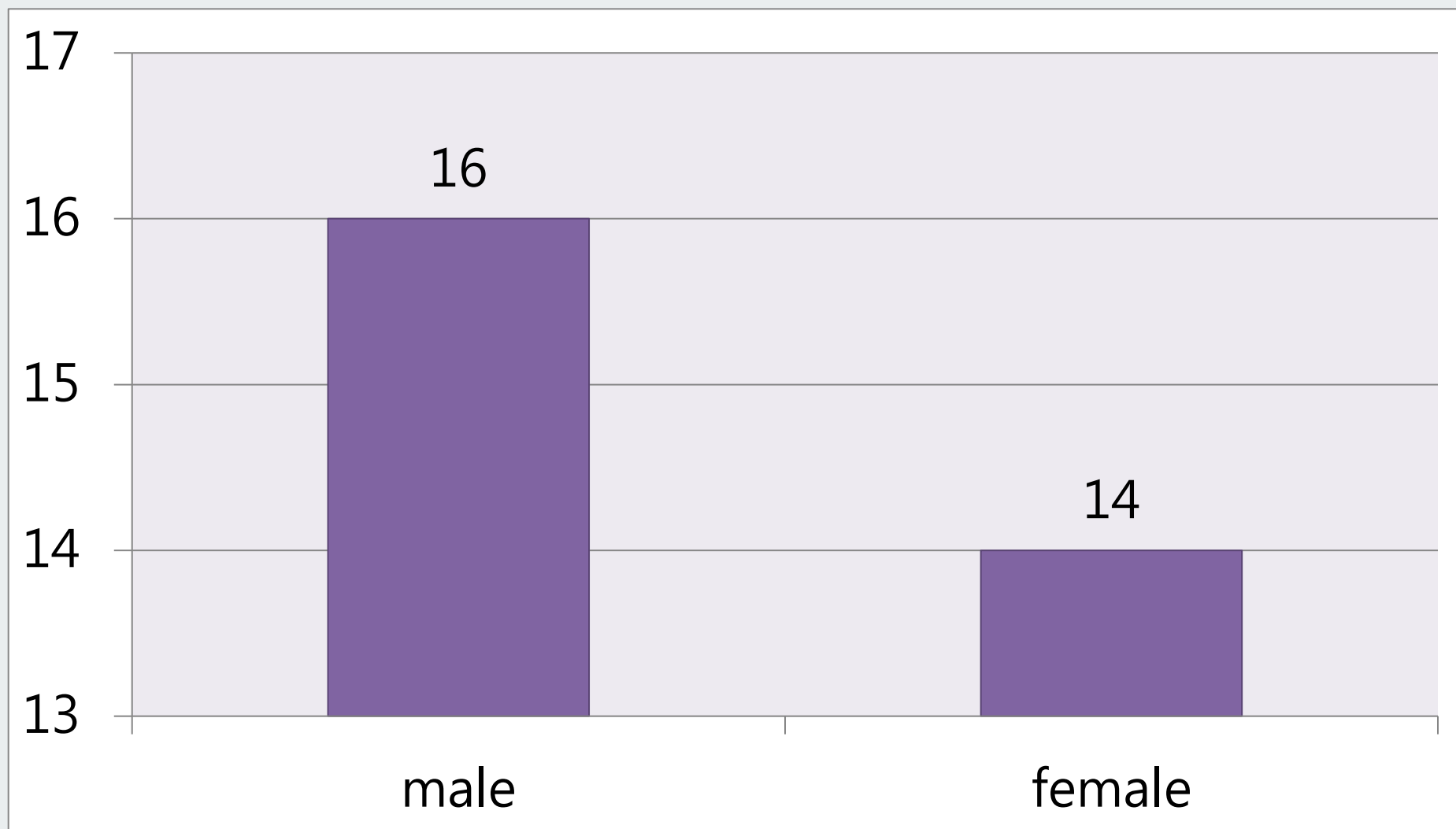
Number of people who quit after successful training, 7



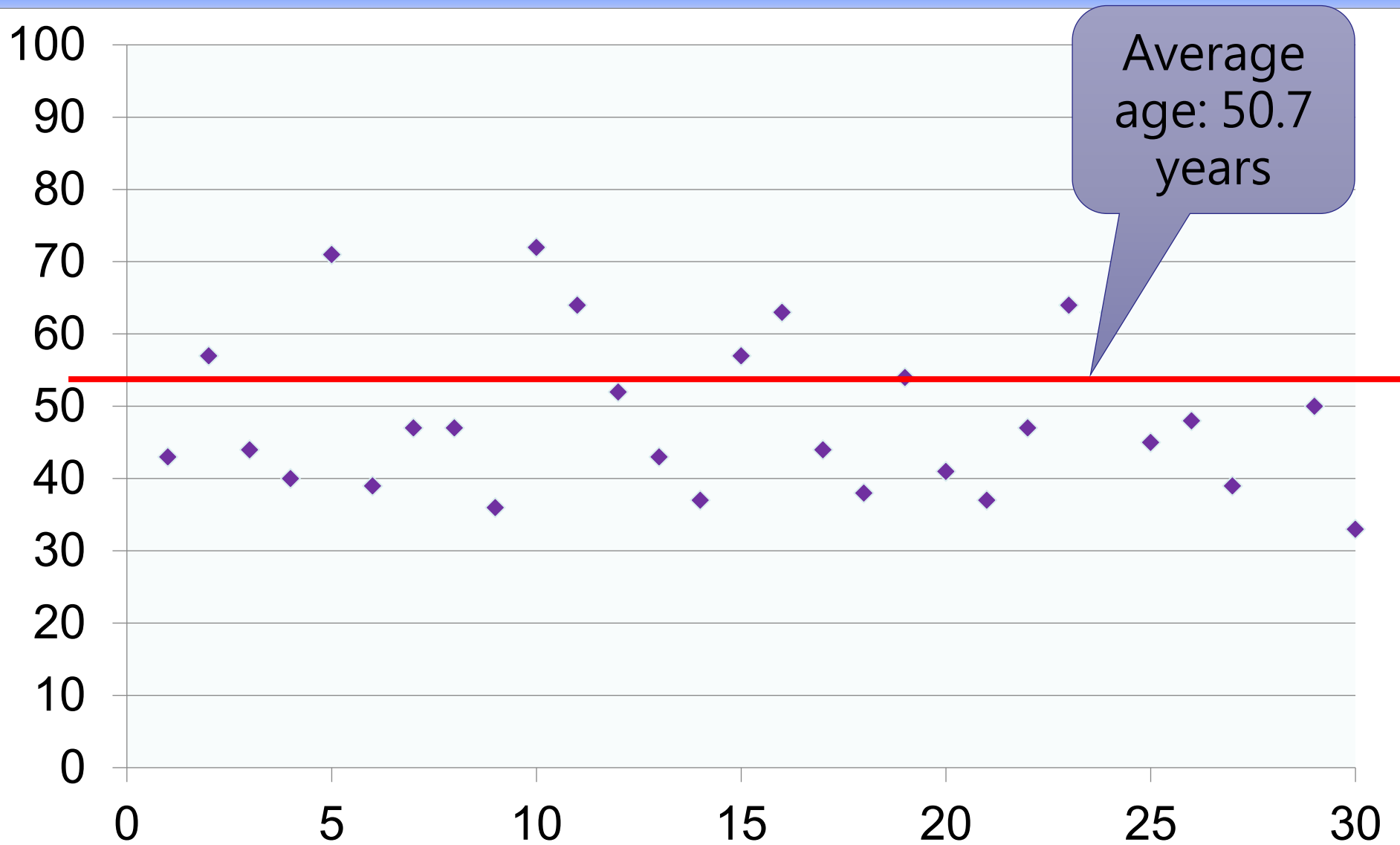
Analysis of reasons for withdrawal



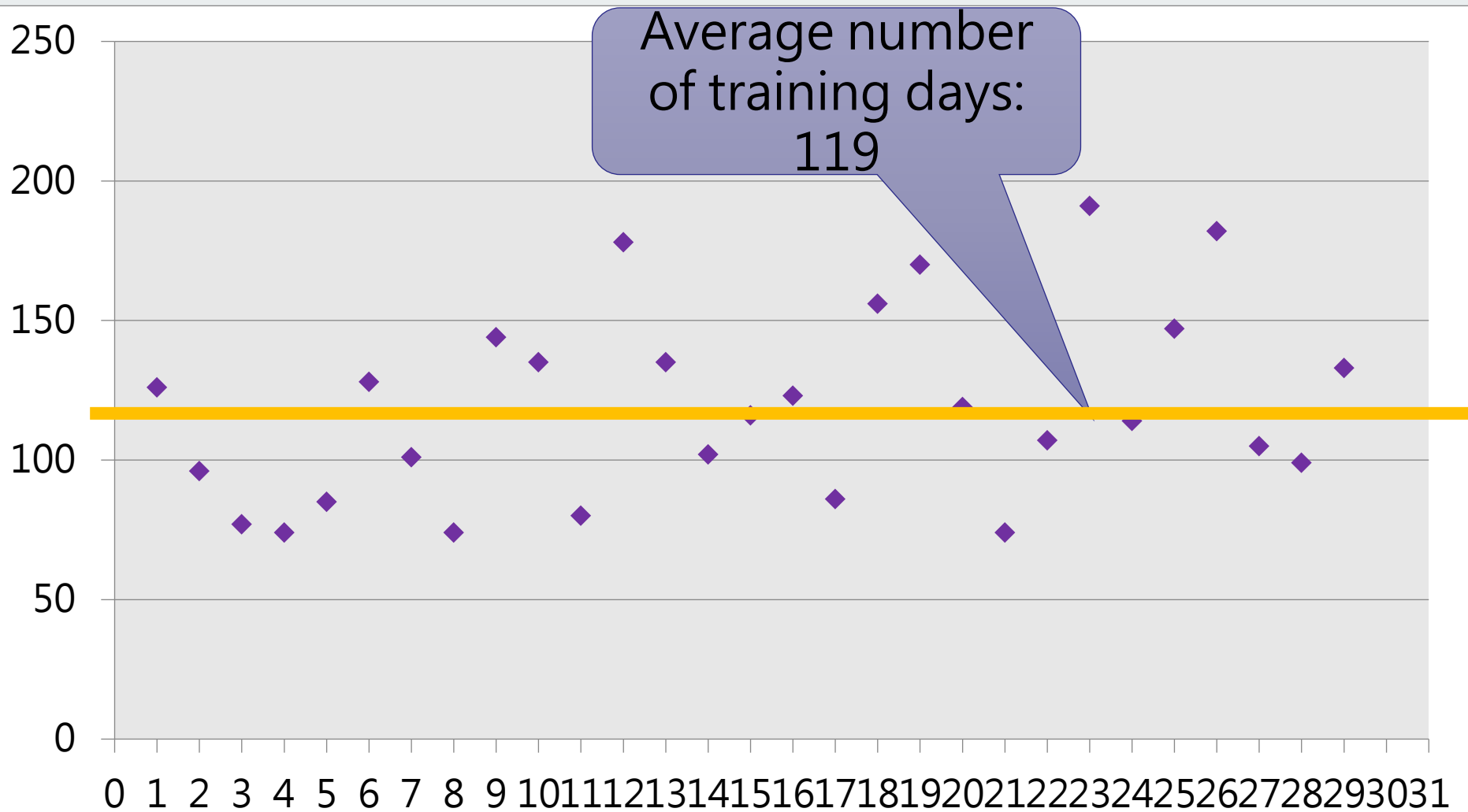
Gender



Age



Training days

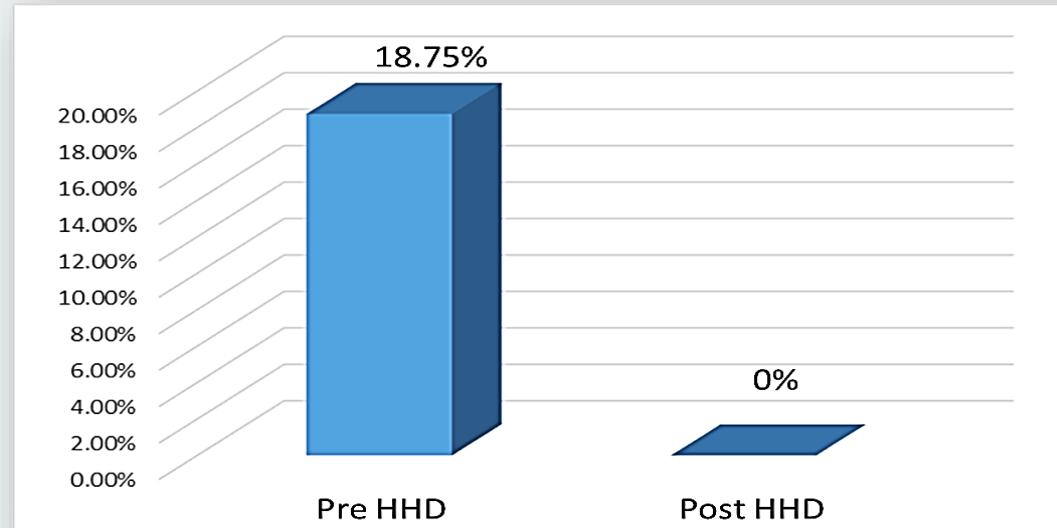


Results

- 95% of patients are included in remote monitoring
- Patient survival rate : 96% 、 Technology survival rate : 84 %
- 70% Self-dialysis 、 30% Family assistance
- 69% No need to take antihypertensive drugs
- 31% No need for EPO injection
- 44% No need to take phosphate binders

❖ Significantly reduced medication use

Calcium-Phosphorus product ratio (Ca*P)

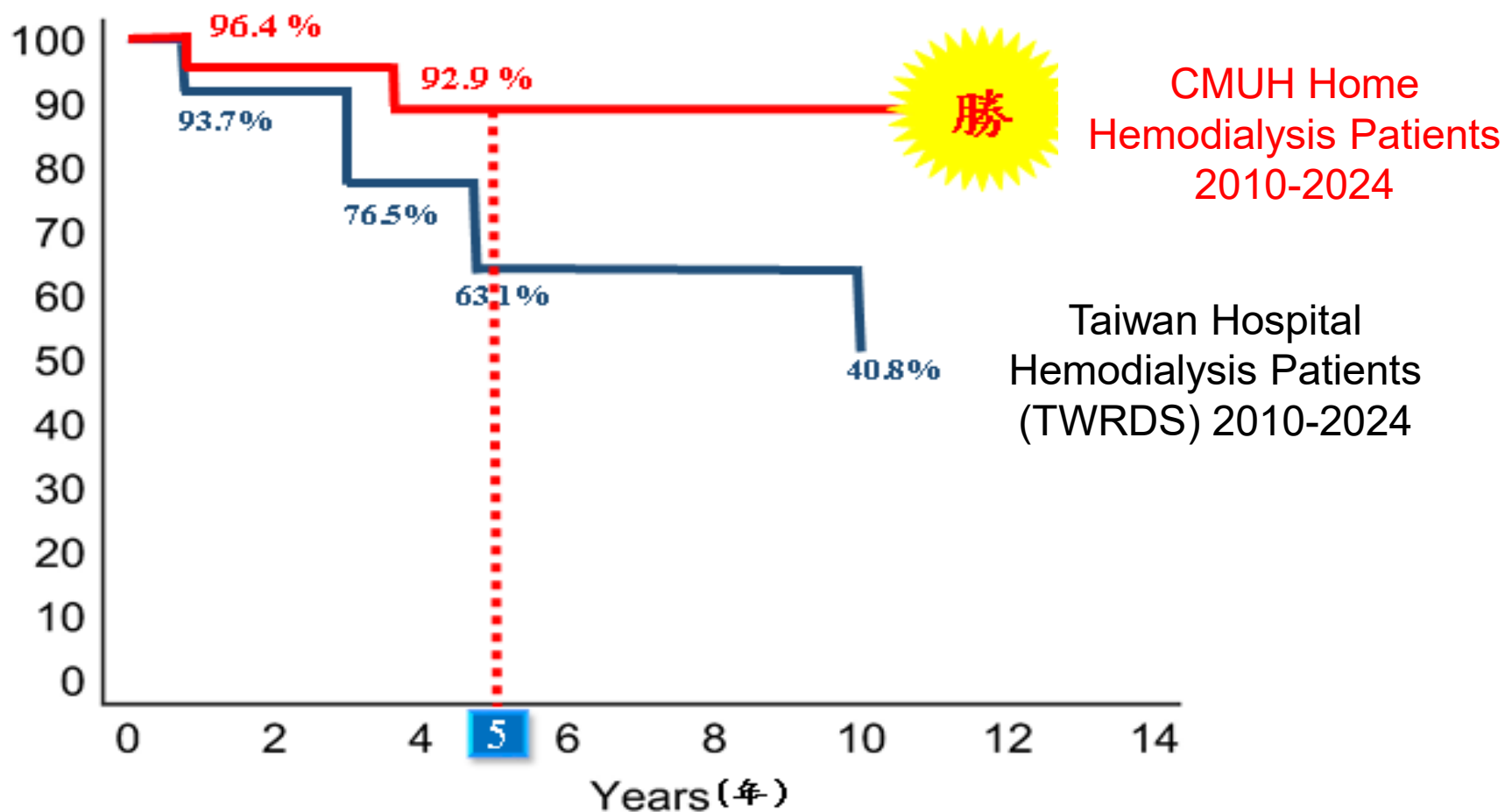


CMUH 6M Post-HHD Patients' Data Change

	Pre-HHD	Post-HHD 6 months	p value
BUN (mg/dL)	66±32.87	53±14.37	0.3954
Cr (mg/dL)	13.47±2.74	9.79±2.64	0.0412
Albumin (g/dL)	4.06±0.25	4.28±0.40	0.0498
Calcium (mg/dL)	9.64±0.76	9.26±0.74	0.3146
Phosphate (mg/dL)	5.42±3.46	4.12±1.25	0.0356
Ca*P	59.28±29.78	52.40±11.61	0.0442
Hb (g/dL)	10.06±0.39	11.72±1.11	0.2256
EPO (IU/week)	8666.67±2309.40	4000.00±1732.05	0.0051
LVEF (%)	48.85±7.63	64.38±1.11	0.0346
LV mass (g)	60.67±1.53	58.00±2.65	0.0766
Cardiothoracic ratio (%)	58.00±2.01	44.67±5.03	0.0695
Quality of life (SF-36)	55.00±3.00	66.33±3.06	0.0364
Beck depression score	18.67±1.53	9.33±0.58	0.011

Results

Comparison of survival rates among hemodialysis patients in Taiwan



Home hemodialysis environment



Home hemodialysis environment



Home hemodialysis environment

Before



After



Home hemodialysis environment



Home hemodialysis environment



Home hemodialysis environment



Home hemodialysis environment

Before



After



Home hemodialysis environment



Home hemodialysis environment

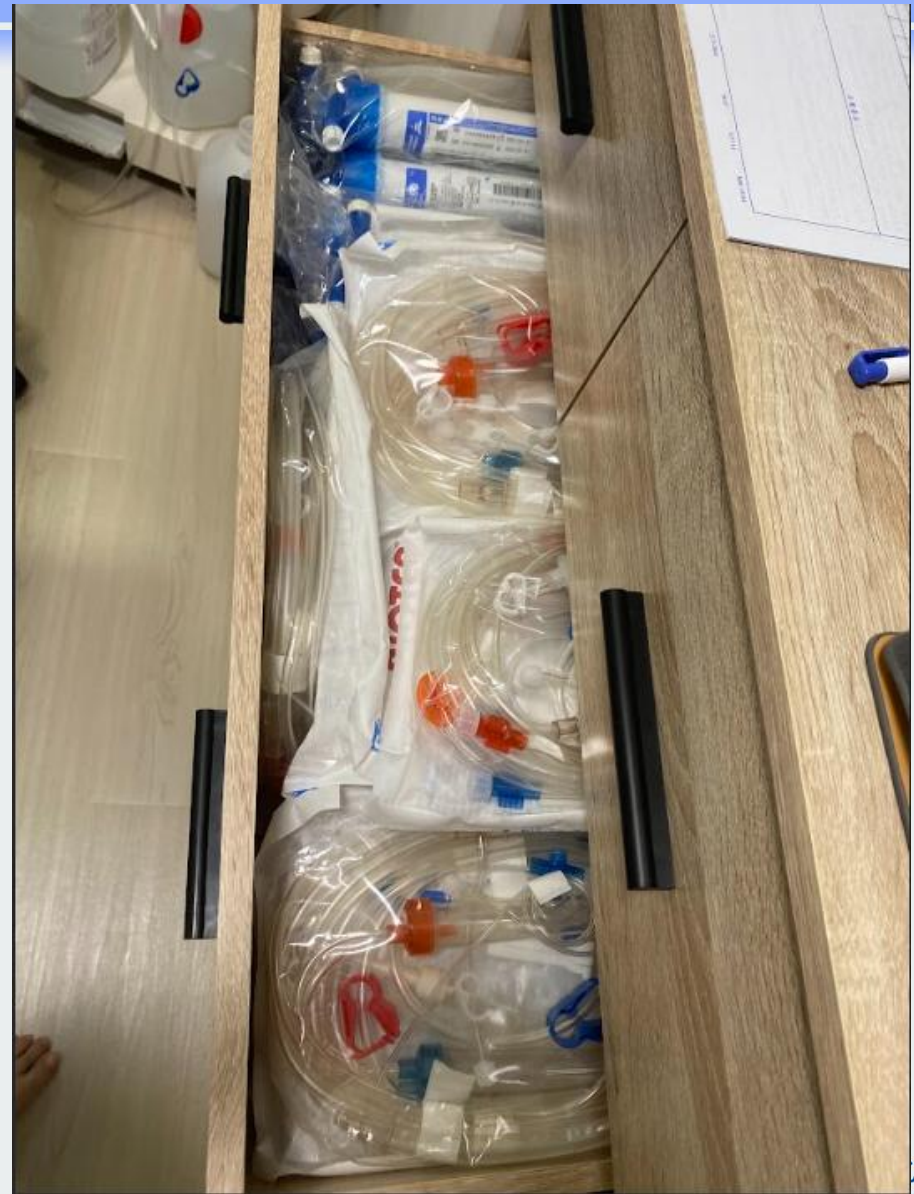
Before



After



Home hemodialysis environment



Home hemodialysis environment



Home hemodialysis environment



*THANK YOU
FOR YOUR
ATTANTION*