Hand Function Impairment in Patients with End Stage Renal Failure

LEE WS, NG YC, LEUNG SN
Department of Occupational Therapy Department
Pamela Youde Nethersole Eastern Hospital
Objective & Methodology

• **Objective:**
  – To assess the hand function of in-patients with ESRF in PYNEH who need to have peritoneal dialysis.

• **Method:**
  – Patients referred from Renal ward of PYNEH
  – Self-conducted or helper-conducted peritoneal dialysis
  – Refer to Occupational therapy for hand functional assessments within 2 weeks post-Tenckhoff insertion
Hand Grip Strength

- 43% and 51% lower than the reference value for the male and female healthy Hong Kong Chinese adult (Tsang, 2005) respectively

N=121
(K8 ward, PYNEH)
Pinch Grip Strength

- 7.5% male patients and 34.1% female patients were found to have pinch grip strength of dominant hand lower than 4 kgf

N=121
(K8 ward, PYNEH)
Manual Dexterity

- Poor dexterity
- Around 30.0% below 25 percentile
- Around 50% below 50 percentile

N=121
(K8 ward, PYNEH)
Sensory Assessment

- 58.5% with diminished light touch and
- 17.5% with diminished protective sensation

N=121
(K8 ward, PYNEH)
Hand Function Training
Reference
