



# Patient Education: Tools and Technique on educating patients and families for Home HD

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*Preparation Makes Perfect*



# Considerations before Start Home HD:

- ❖ Patient Selection
- ❖ Adult Learning
- ❖ Patient Journey
- ❖ Home Safety



# Patient Selection

## Physical:

- Health History
- Fitness

## Psychological:

- Education level
- Knowledge
- Experiences
- Belief
- Language
- Capability
- Coping ability
- Feasibility



# Patient Selection

## Social:

- Family background
- Family relationship & social support

## Economical:

- Employment
- Financial

- ❖ Tests that assess hearing, vision, strength, and manual dexterity
- ❖ Open discussions: Patient Expectations and Fears
- ❖ Nurses Expectations and Concerns



*Discussions.....*



# Adult Learning

- Motivate patient by a sense of self-esteem
- Establish a friendly and open atmosphere
- Provide an informal, relaxed environment
- Respect and encourage the input of patients and their care partners
- Give Frequent positive feedback to patients through the training process



# Adult Learning

- ❑ Adapt to patients' different learning styles by using complementary visual, auditory, or kinesthetic techniques
  
- ❑ the use of training aids:
  - Slide presentations
  - Teaching notes
  - Video to demonstrate the dialysis procedure
  - Step-by-step photography to revise the dialysis procedure





# Adult Learning

- ❑ During training
  - Key points should be reiterated
  - patient understanding should be reaffirmed
  - patient should be examined on his or her competency:  
Oral quiz, written test, return demonstration or practical examination
  
- ❑ Mutual agreement on and set an appropriate timeline for training
  - Use incremental milestones to recognize difficulties in the training process and serve as markers of success.



*Discussions.....*



# Patient Journey

## ❑ Training Curriculum

- General Knowledge & Terms on HD therapy
- Operation & Troubleshooting of HD machine
- Cannulation
- Practices on HD procedures using Arterio-Venous Fistula (AVF) / Arterio-Venous Graft (AVG) or Central Venous Access Device (CVAD)
- Knowledge & Practice on managing Intra-dialysis Alarms & Complications
- Management of Emergency situations
- Consumables, Hotline, Blood taking & Follow Up



# Patient Journey

## ❑ Pre & Post training Home visit

- Nurses present the first HD treatment at home to allay anxiety
- Assess home environment & educate for safety of dialysis
- Check particular physical arrangements  
e.g. location & storage of supplies,  
placement of machinery in relation to patient
- Assess the patient's performance for the competency of dialysis at home
- Assess the helper's handling of emergencies
- Uses of remote monitoring



*Discussions.....*



# Home Safety

- Apply CVAD with perforated single valve non removable cap to prevent air embolism
- Use of blunt needle or Supercath for tortuous or short access cannulation, reduce the incidence of needle infiltration
- Use assisted device for cannulation
- Use of a more adhesive bandage for fixation of needles
- Bloodline holder to facilitate the HD procedures
- Tailor made Arm band for the security of bloodlines
- Blood leak sensor to detect dislodgement of needles
- Fluid leak sensor to detect fluid leakage from water system

Checklists & Compliance .....



*Photos to share .....*



# Bring Home Message

- ❖ Key success factors
- ❖ Nurse educator





# Key success factors :

- Patient selection
- Patient background
- Patient & care giver readiness
- Machine language
- Complex medical procedures
- Teaching according to their aptitude
- Secure knowledge with tests & examination
- Cannulation skills
- Compliance
- Safety
- Quality Assurance



# Nurse in Patient Education in Home HD :

- Skilled practitioners
- Sound practical knowledge of dialysis
- Believe that patients are capable of caring for themselves
- Passion to promote the benefits of home dialysis to their patients
- Enjoy teaching
- Understand the principles of adult learning, and have the ability to invoke followership & nurse-patient empowerment



*Thank You !*



# *Questions & Practice*

