

TAKE CHARGE OF YOUR HEALTH!

PATIENT EDUCATION HANDBOOK



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This handbook is designed to empower and educate dialysis patients like you on essential topics for managing your conditions effectively. The more you learn about complications of dialysis, the better you can manage them well, make informed decisions and enjoy a fulfilling life.

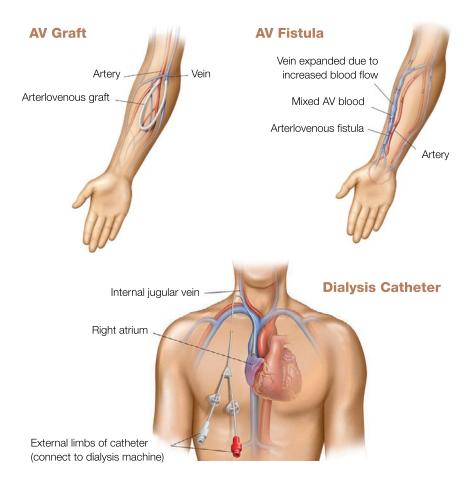
We aim to offer user-friendly information, equipping you with knowledge and practical tips on 4 key topics which are vascular access care, fluid control, fall prevention and anaemia management. Presented in a clear and concise manner, we hope it serves as an essential tool as you play an active role in your own rehabilitation journey.

Rest assured that our dedicated team of healthcare professionals, including doctors, nurses, social workers, dietitians, therapists and exercise specialists, will continue to journey alongside you and your family. Remember, you are not alone! We strongly encourage you to explore the following pages and embark on this journey towards improved health and well-being.



WHY IS VASCULAR ACCESS IMPORTANT

- It enables you to carry out dialysis, which is your lifeline
- Proper access will help you to have adequate dialysis
- Adequate dialysis helps to improve your quality of life



AV FISTULA AND AV GRAFT

Some important points to take note after creation of fistula or graft

- Follow doctor's instructions (dressing, stitch removal, etc)
- You may experience some pain/swelling at the operation site, and it will subside gradually
- Takes about 4-6 weeks for the vein to mature before cannulation
- Do feel the buzz by placing the palm near the operation

- site before going to sleep and after waking up from sleep
- Do not carry heavy objects with the hand that has been operated on
- Do not wear restrictive/tight clothing or accessories
- Do not take blood pressure readings on the operated arm
- Exercise with a stress ball once the pain/swelling subsides

WHAT TO EXPECT ON YOUR FIRST CANNULATION

- Bleeding may occur (a nurse will teach you how to manage)
- Always apply pressure with gauze for 10-15 mins after dialysis
- Ensure there is no bleeding before you go home
- Remove the dressing after 4-6 hours following cannula removal



- Cannulation will be carried out by an experienced nurse
- You may experience pain upon cannulation
- Refrain from moving your hand vigorously during dialysis
- Cannulation may take more than once to be successful
- Some bruises/swelling can be expected over time



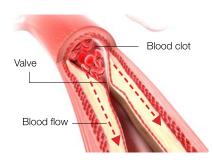


POSSIBLE COMPLICATIONS OF VASCULAR ACCESS

Types of complications

- Infection
- Thrombosis (blood clots in blood vessels)
- Excessive bleeding





Signs & symptoms of infection

- Pain/tenderness
- Odour
- Fever
- Discharge/stained dressing of catheter
- Redness at vascular access site









HOW TO PREVENT VASCULAR ACCESS COMPLICATIONS

How to prevent infection

- Keep catheter site clean & dry
- Wash hands and access arm at the dialysis centre (DC) prior to cannulation
- Do not apply powder or lotion to the cannulation area
- Do not scratch the access arm, especially the cannulation area

How to prevent thrombosis (blood clots) in the fistula

- Listen for the gushing sound and feel for the buzz twice a day
- If absent, inform your DC and you may be asked to go to the hospital's Accident & Emergency (A&E) department
- Do not carry heavy objects with the access hand
- Do not wear any jewellery or watch on the access hand as this may obstruct the flow
 - Do not carry out blood pressure measurement & venepuncture on the access arm

How to stop bleeding

- Apply direct pressure to the bleeding site with gauze or towel for 15 minutes
- If bleeding persists, go to A&E immediately and inform the DC nurse
- Change to a lighter dressing when bleeding has stopped

X Don't

Get the area wet



CATHETER

Know your type of catheter



Femoral vein tunneled dialysis catheter (groin)



Internal jugular vein tunneled dialysis catheter (chest)

When taking care of catheter





- Keep the site clean & dry
- Ensure dressing is intact at all times
- Ensure catheter caps/limbs are covered at all times
- If it is wet, you may have the dressing changed at the DC

When taking a bath





- Cover the catheter site with plastic sheet or waterproof material while showering
- Wipe the surrounding area with a towel
- Be more careful while washing your hair

⊗ Don't

- Apply powder or lotion to the surrounding area
- Scratch the dressing site
- Swim
- Wear tight clothing
- Tug or pull on the catheter
- Perform vigorous exercise/ movements









WHAT YOU SHOULD DO IF THE CATHETER'S DRESSING IS EXPOSED

- Always use an emergency kit
- Wash your hands
- Use the gauze from the emergency kit
- Cover the site with a piece of gauze
- Secure with medical tape
- Inform your DC nurse

WHAT YOU SHOULD DO IF THE CATHETER SITE BLEEDS/ IS DISLODGED

- Apply direct pressure using a piece of gauze
- Call an ambulance (995) or go to the A&E immediately





FLUID MANAGEMENT

WHY YOU SHOULD LIMIT YOUR FLUID INTAKE

- When kidneys fail, they are unable to produce as much urine as before
- If large amounts of fluid are consumed, this will be retained in the body if not excreted through urine or removed by dialysis

WHAT WILL HAPPEN IF YOU DRINK TOO MUCH FLUID





Cramps

Headache

Swelling







High blood pressure



Weak and tired heart

FIND OUT HOW MUCH YOU CAN DRINK IN A DAY

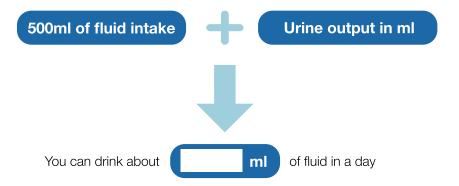
I'm still passing urine

Yes

No



Haemodialysis patients:



LOOKS FAMILIAR? GUESS HOW MUCH VOLUME IT HOLDS!

Water bottle 500ml



Plastic cup 370ml



Mug 300ml



Medium size rice bowl 300ml



Kopi cup 230ml



Medicine cup 30ml



Ice cube 30ml



Chinese soup spoon 30ml



Tablespoon 15ml

LIMITING SALT INTAKE HELPS TO CONTROL YOUR THIRST

Fluid that you drink



Salt in your diet



With less or no urine output



Over retention of fluid and salt will cause swelling of your body



Salt makes your body retain water Limiting salt helps to control your thirst!

LET'S LEARN SOME TIPS TO REDUCE SODIUM INTAKE

When eating at home



Explore using herbs and spices in cooking



Taste your food first before adding more condiments





Choose fresh, say "no" to processed food



When buying groceries, look out for the Healthier Choice Symbol

When eating out



Ask for less salt



Ask for less or no gravy



Avoid finishing or drinking the soup



Choose plain over flavoured rice



Ask for sauces to be served on the side

TIPS TO CONTROL FLUID INTAKE



Use a water bottle which has markings to keep track of your daily intake



Plan the amount needed for medications



Use smaller cups



Suck on ice cubes, cold fruits or lemon wedges



WHY IS FALL PREVENTION IMPORTANT



Falls may cause you to miss dialysis sessions



 Falls may cause hospitalisation due to extensive bruising and broken bones



 Falls may require you to be dependent on others for daily activities such as toileting and showering



Falls may lead to high medical costs

BEFORE AND AFTER A FALL



Before a fall...

- Happiness
- Independence
- Freedom
- Exercise
- Carrying out daily activities
- Spending time with your loved ones





- Pain
- Fractures
- Muscle loss
- Financial burden
- Loss of independence
- Rehabilitation
- Wheelchair/walking assistance
- Decreased quality of life





HOW TO PREVENT FALLS IN THE DIALYSIS CENTRE





- Use walking aids if needed
- Don't rush
- Wait for assistance if you feel unwell (e.g. giddiness)
- Be careful
- Be alert
- Use proper footwear

When measuring weight





- Always wear covered footwear and keep your footwear on (footwear weight will be deducted)
- Diabetes mellitus (DM) shoes are highly recommended and do check with your doctor for a prescribed footwear



🔀 Don't

 Wear slippers or sandals as it can cause balance impairment leading to high risk of falling

Safe transfer techniques

- Ensure dialysis chairs and wheelchairs are locked before getting up or transferring
- Wait for nurses to assist you if required
- Achieve balance before transferring





In the washroom



Avoid walking on wet floors



Activate the emergency cord located beside the toilet to summon for help when in need



 Utilise grab bars in washrooms to support yourself

HOW TO PREVENT FALLS AT HOME

Rugs

Smoothen out rugs on floors





Ensure mats and rugs have slip-resistant backing





Discard all frayed rugs



Cables

Tuck phone cords or electrical cables out of walkways









Fixtures

 Install grab bars where necessary



Do not use wall fixtures to support yourself







Floors

 Mop up spills promptly to prevent slipping



W/////WW

Ensure floors are dry before walking





- Keep the floor clutter-free to reduce the risk of tripping
- Ensure there is adequate space between furniture for walking

Moving safely



Ensure your footwear has good grip



 Check if your footwear is tightly fastened



Ensure walking space is clear before walking



Always use your walking aids when required



 Hold on to grab bars for support when necessary

Good eye care habits



 Wear prescribed eyewear, if needed, when moving around



 Remove reading glasses before walking or moving around as reading glasses can distort vision



 Ensure prescribed eyewear is clean for clear vision; clean your eyewear regularly



Get your eyesight checked annually



Seek medical advice if you experience any vision abnormalities

Night safety



Ensure rooms are well lit; light bulbs over 60W or LED light bulbs over 10W that produce 800 lumens are recommended



If light switches are not easily accessible, having a torchlight within reach from the bed will make it safer for you to get up at night



Always switch the lights on before entering the toilet or bathroom

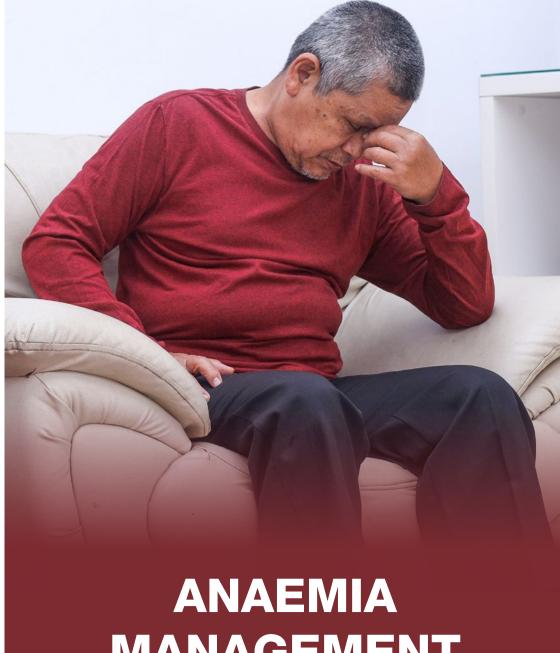




Switch on the lights along the path to the toilet

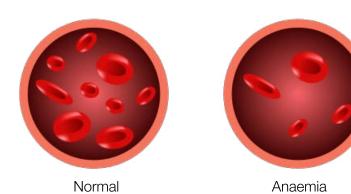




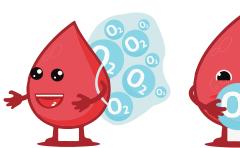


MANAGEMENT

WHAT IS ANAEMIA



- Anaemia is a condition in which the body does not have enough healthy red blood cells
- The kidneys are responsible for providing a hormone called erythropoietin (EPO), which stimulates red blood cells production
- In dialysis patients, poor kidney function leads to reduced EPO production
- Hence, less red blood cells are produced, resulting in less oxygen delivered to your organs and tissues





SIGNS & SYMPTOMS OF ANAEMIA







Pale looking

Tired and weak

Dizziness and headache







Shortness of breath or chest pain



Trouble thinking clearly

MANAGING ANAEMIA

Dialysis treatment



- Do not miss any dialysis treatment
- Complete the prescribed treatment duration

Medication



- During dialysis treatment, nurses may administer IV iron and/or EPO to stimulate your body's production of red blood cells
- Follow doctor's prescription and advice on iron intake and/or EPO injection

Nutrition



Approach your dietitian for a recommended meal plan that meets your specific needs

USEFUL RESOURCES

English

- All about kidneys The National Kidney Foundation (Singapore) www.nkfs.org
- Industry-leading clinical decision support UpToDate bit.ly/3FtnZli
- Kidney basics National Kidney Foundation (US) bit.ly/492nts5
- Stages of kidney disease American Kidney Fund bit.ly/3tJnvF6
- Haemodialysis National Institute of Diabetes and Digestive and Kidney Diseases
 bit.ly/3s4WsUo
- Haemodialysis Access National Kidney Foundation (US) bit.ly/494G5Yj

Chinese

- 关于肾脏 全国肾脏基金会(新加坡) www.nkfs.org/cn
- 血液透析治疗通路的照护 台北荣总护理部健康e点通bit.ly/3s1pdBa
- 肾脏科 台大医院 bit.ly/3FtB7H3
- 肾性贫血的认识与治疗 中国医药大学附设医院 bit.ly/3FpD9lg

Malay

- Semua Tentang Ginjal Yayasan Buah Pinggang Kebangsaan (Singapura)
 www.nkfs.org/mly
- Penyakit Ginjal Kronik & Kegagalan Ginjal MyHealth bit.ly/471RDKo
- Hemodialisis MyHealth bit.ly/46Yfk6a
- Kegagalan Buah Pinggang Renal Team bit.ly/46XzMUL









