EDUCATE YOUR DIALYSIS PATIENTS ABOUT ANEMIA



1	Explain	anemia	and wh	nv dialv	sis pa	atients	have i	t.
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- You have anemia when there are not enough red blood cells in your blood.
- Red blood cells have hemoglobin, which carries oxygen throughout your body.
 Without enough hemoglobin and oxygen, you do not feel well.
- · People with anemia have a low hemoglobin level.
- Most people on dialysis have anemia because:
 - ☐ Your kidneys are not making enough of a hormone called erythropoietin to help your body make red blood cells.
 - ☐ You often lose some blood during hemodialysis treatments and blood testing.
 - You may have low levels of iron. Iron is needed to make hemoglobin. People on dialysis don't usually get enough iron in their diet.
 - ☐ You may have low levels of vitamin B12 or folate. These vitamins are also needed to make red blood cells.
- Treatment is available.

2	Explain signs and symptoms of anemia.		
۱	When you have anemia, you may:		

- ☐ Feel tired ☐ Feel dizzy or have headaches
- □ Have a rapid heartbeat
 □ Have little energy for your daily activities
 □ Feel short of breath
- ☐ Feel depressed or "down in the dumps" ☐ Have trouble sleeping
- ☐ Have trouble thinking clearly ☐ Look pale

3 Explain anemia therapy.

- The main goals for treating anemia are to:
 - ☐ Prevent serious health problems (having anemia for a long time can lead to heart disease and an increased risk of death)
 - Help you feel better and improve your quality of life
 - Lessen the need for blood transfusions
- Erythropoiesis-stimulating agents (ESAs) act like the hormone erythropoietin from healthy kidneys and help your body make red blood cells.
- The amount of ESA you get depends on your overall health and medical history, body weight, hemoglobin level, and how you feel. Your doctor may lower or stop your ESA dosage if your blood pressure is increasing. You may not get an ESA if you are at high risk for stroke or have a history of cancer. ESAs can be given as a shot under the skin or through the hemodialysis access.
- You need to have enough iron to make red blood cells. In fact, once you start getting ESAs, you will make more red blood
 cells and your iron supply will be used up faster. Taking extra iron may help solve this problem and make your ESA
 treatment more effective. If you are on peritoneal dialysis, you can get iron as a pill or as an injection through a vein. If you
 are on hemodialysis, it can be given through the hemodialysis access.
- After you begin ESA and iron treatment, you should begin to feel better and have energy to do more things. The time it takes to feel better is different for everyone.

_	Explain how patients are checked for anemia.
	Your dialysis team will order these blood tests to see how well your anemia treatment is working:
	Hb (hemoglobin): shows if your red blood cells can carry enough oxygen through your body
	TSAT (transferrin saturation): measures the amount of iron in your blood
	Ferritin: measures the amount of iron stored in your body
	The "best" results of these tests are different for each person, so your anemia treatment will be made just for you.
	Your doctor and nurses will check your body for signs of anemia and ask you how you are feeling.

Explain potential risks and benefits of blood transfusions.

- Transfusions are life-saving. They may be used in urgent situations such as heavy bleeding, emergency surgery, or treating heart disease made worse by anemia.
- Your doctor may also feel that you need a transfusion because your anemia treatments are not working and you have severe signs of anemia.
- If you do need a transfusion, ask for "leukopoor and irradiated" blood because this treatment can reduce some of the risks listed below.

•	Po	Possible risks from blood transfusions include:		
		Allergic reactions		
		Reactions that cause fever		
		Lung injury (uncommon)		
		Reactions that cause red blood cells to break open (uncommon)		
		Infections (rare)		
		Increasing the time you wait for a transplant		

Explain actions that patients can take to improve outcomes and avoid the need for transfusions.

•	Do not miss:
	☐ Scheduled hemodialysis treatments
	☐ Scheduled peritoneal exchanges
	Prescribed doses of your ESA and iron

- Take all medications and supplements as prescribed.
- Follow your doctor's orders to either lower the dose or stop the use of blood pressure pills called ACE inhibitors and ARBs. These drugs can make it harder for you to make red blood cells.
- Make sure you understand the risks and benefits of a transfusion and what to watch out for if your doctor recommends one for you.
- Get a blood pressure monitor and take your pressure every morning and night. Tell your doctor about the blood pressure results. The target blood pressure before dialysis is 140/90 and, after dialysis, 130/80, but your doctor may have different targets for you.
- Do not smoke. Stay clear of second-hand smoke.
- If you have trouble sleeping or wake up because it is hard to breathe, let your doctor know. If you have sleep apnea, always use the device prescribed by your doctor.
- Talk with the dietitian and follow a dialysis-friendly diet.
- Talk to your doctor about exercising while on dialysis or between treatments. It may help.

