Fast Facts

Dialysis

-Used to treat kidney failure (uremia)

-Job of your kidneys is to filter waste products from your bloodstream and dialysis replaces this process

-Helps to better control blood pressure and sustain the proper balance of fluid and minerals -Several things can increase of developing kidney failure: diabetes, high blood pressure,

kidney inflammation, blood vessel inflammation and kidney cysts (all progress over a period of time, so kidney damage isn't evident immediately)

-Some conditions cause rapid shutdown of the kidneys: severe illnesses, complicated surgeries heart attacks and certain medications

Hemodialysis	Peritoneal Dialysis
-Connected to a machine (dialyzer)	-Similar to hemodialysis in that it removes
-Filters your blood from your body through	wastes from your body, but how it does it is
the machine, which cleans it, and then it is	different
transfused back into your body	-Involves having a plastic tube surgically
	placed into your abdomen, typically near your
Three types of access:	bellybutton
Central venous catheter with two ports	-You will use to the tube to inject the cleaning
-A plastic tube is inserted in a large vein in	solution (dialysate) into your abdomen
your neck or groin to provide access to	-Solution stays in there for a period time
bloodstream	(dwell time), usually four to six hours, during
-Temporary	which it filters wastes from your body
-Allows for immediate access under emergent	through the tiny blood vessels lining your
conditions	abdominal cavity
-High risk for infection (mainly used in	-After the dwell time has elapsed, you remove
hospitals or until one of the other two options	the fluid via the tube and discard it in a sterile
is ready to use)	collection bag
Arteriovenous (AV) fistula	Schedule:
-Surgeon connects an artery and a vein inside	Continuous ambulatory peritoneal dialysis
your arm (typically in your non-dominate	-Fill your abdomen with fluid and let gravity
arm)	do most of the work
	-Often needs to be done three to five times
Arteriovenous (AV) graft	during a day with one longer dwell time while
-A flexible synthetic tube is used to connect	you're sleeping
one of your arteries to one of your veins	
-Used if your blood vessels are too small to	Continuous cycling peritoneal dialysis
make an AV fistula	-Fill your abdomen with the dialysate in the
	morning, the dwell time lasts all day and at
Process:	night, while you are sleeping, you are
-Inserting two needles (one in the artery side	connected to a machine that performs
and one in the vein side) of your fistula or	multiple exchanges
graft	1 C
-Needles are connected to tubes that go to the	-In either type, you can do your normal
dialyzer	activities during the dwell times
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-One side removes small amounts blood from	
your body at a time sending it to the machine	Good for People Who:
to be cleaned and the other side receives your	-Can't handle the rapid changes in fluid
clean blood from the machine and infuses it	balance that occur in hemodialysis
back into your body	-Want to reduce the impact of dialysis on
-Done slowly and your blood pressure and	their daily activities
heart rate are monitored throughout since they	-Have some residual kidney function
can fluctuate	
	Not Good for People Who Have:
Schedule:	-An abdominal hernia or scarring from
-Each person is different in how their	previous abdominal surgeries
treatment is set up	-Limited ability to care for yourself
-Some people do longer sessions (three to five	-Diverticulitis/inflammatory bowel disease
hours) three times a week	-Protein malnutrition
-Others do shorter sessions (two to three	-Critical illness
hours) six or seven times a week	
	-Unfortunately, many people who start with
-Dialysis centers allow people to receive the	peritoneal dialysis have further decline in
treatment they need without having to be in	kidney function and require hemodialysis or a
the hospital	kidney transplant at some point
-Centers are located across the United States	
and in some other countries, you can travel	
and still get your hemodialysis (plan ahead by	
checking a center's availability)	
-Your doctor will monitor your weight, blood	
pressure, heart rate and certain blood tests (ex.	
urea reduction ratio, total urea clearance and	
blood chemistry levels) to adjust the intensity	
and frequency as needed	
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