

Administration of Parenteral Nutrition [(PN, also known as Total Parenteral Nutrition (TPN), or Central Parenteral Nutrition (CPN)]



For additional education please contact your agency for assistance

Medication(s) to infuse: Home Inf	usion Nurse (name, phone #):					
Home Infusion Pharmacist (name, phone #):						
Four Components for Performing Infusions:						
1-PRACTICE GOOD HAND-WASHING 2- PREPARE SUPPLIES 3- PREPARE PN / ADDITIVES & START PN 4- STOP, DISCONNECT, & FLUSH						
Practice good Always wash hands Soap and water hand-washing when instructed preferred	er Hand sanitizer Wash for a full 20 (optional) seconds or rub until dry					
STEP 1: PRACTICE GOO	DD HAND-WASHING					
 Soap and water are always preferred. If soap and water at Make it a habit to wet your hands, apply soap, and lather If using hand sanitizer, rub a dime-sized amount between speed up drying. Remember, if using gloves, you must still wash your hand. Washing your hands helps reduce your chance of infection 	for 20 seconds (hum the Happy Birthday song twice). your hands until dry. Never wave or blow on your hands to s when instructed.					
Prepare Remove PN WASH Clean supplies from fridge HANDS workspace	WASH Gather & WASH Prepare the HANDS pump					
STEP 2: PREPA	RE SUPPLIES					
☐ Note the time to start the infusion: ☐ AM ☐ PM a	nd how long the infusion is to run: hrs.					
are to receive each type. Please discuss the schedule with your cafat free bags on SUN MON TUE WED THU FRI SAT	(white bag) with lipids. Your orders will say how many days you are team.					
fat bags on SUN MON TUE WED THU FRI SAT Note the time to remove the PN from refrigerator:	ам Прм					
 Your nurse will tell you how far in advance to remove the Your medication will infuse at the correct rate if administer 	PN from the refrigerator. ered at room temperature. If administered while cold, you will ke longer. Infusing cold medication could also lead to the pump r help.					



		STEP 2:	PREPARE SUPPLIE	S (CONTINUED)				
П	Compare your PN with your o				on:			
_	 Medication has my name 		-					
	 Medication name is corre 							
	 Medication dose is correct 							
	Medication is not expired	d.						
	 If any of this information 		and call your home	r infusion pharmacist imr	nediately.			
П	WASH YOUR HANDS.	, ,	,		,			
	 Soap and water are prefe 	erred, hand sanitiz	zer optional if soap	and water are not availa	ble.			
	Wash for 20 seconds (hui							
	· ·				owels, alcohol wipes, or sanitizer			
wip			J		, ,			
	• Try to select a dry, hard w	vork surface to se	t up your medication	on and supplies.				
	Place the PN bag and add	ditives on your SA	S or SASH mat whe	ere indicated.				
	WASH YOUR HANDS.							
	• Soap and water preferred	d (hand sanitizer o	optional).					
	• Wash for 20 seconds (hu	m the Happy Birtl	nday song twice) o	rrub with hand sanitizer	until your hands are dry.			
	Gather the following supplies	s and place on you	ur workspace (do n	ot put-on top of your SA	S or SASH mat yet):			
	• 5—10 alcohol pads (to cl	ean your supplies	and hub (IV-line ti	p))				
	• 2 saline syringes (to clear	your IV line and	remove any leftove	r medication)				
	• 1 heparin syringe (to clea	ar your IV line and	prevent blockage;	your nurse will tell you i	f you need it)			
	• 1 electronic pump (to fac	cilitate your infusi	on)					
	• 1 carrier pouch (to place	and carry your pu	ump during your in	fusions)				
	• 1 infusion pump tubing (to spike your bag	and infuse)					
	• 1 trash bag (small grocer	y bag will do for t	rash collection)					
	• 1 sharps container							
	• You will need to obtain ac	dditional supply it	ems (syringe and n	eedles) based on the bel	ow chart			
	Additive Name Fr	requency of Use	Syringe Size	Needle to Add	Room Temp/Refrigerated			
				above your SAS or SASH	I mat in their respective location.			
Do	not place any of these items of	on top of your SAS	or SASH mat yet.					
	• "S" = Saline							
	 "A" = Administer or Antibiotic (includes your medication bag and attached tubing) 							
	• "S" = Saline							
	• "H" = Heparin (if prescrib	ed; most people	will not need this)					
	WASH YOUR HANDS.							
	Soap and water are preferred, hand sanitizer optional if soap and water are not available.							
	Wash for 20 seconds (hui	m the Happy Birtl	nday song twice) o	rrub with hand sanitizer	until your hands are dry.			
\Box	Unwran both saline syringes	and the henarin s	vringe lif proceribe	d) Place the unwrapned	I prefilled syringes in the correct			



location on top of your SAS or SASH mat.

STEP 2: PREPARE SUPPLIES (CONTINUED) Prepare your PN Bag Remove your medication bag from the plastic bag if it is in one. Find the inject port on the PN bag (usually to the far right and often covered with tin foil). You will use this port to add the additives. Remove the foil and swab the end with a new alcohol pad for 15 seconds. Place the unwrapped medication bag above the A of your mat. Put a clean alcohol pad under the port to keep it clean. Remove the pump tubing from the wrapping and place with the PN bag. Place your carrying bag to the side. Check your infusion pump. Inspect for any obvious issues. Check the battery life on the pump by turning it on and then turning it back off. Set the pump close to your PN bag and tubing. WASH YOUR HANDS. Soap and water are preferred, hand sanitizer optional if soap and water are not available. Wash for 20 seconds (hum the Happy Birthday song twice) or rub with hand sanitizer until your hands are dry. Flush line Prepare PN, Draw up Place Prime Review Inject into WASH Spike your each additives & tubing in and start your your **HANDS** PΝ PΝ additive the pump PN pump orders tubing STEP 3: PREPARE PN, ADDITIVES & PUMP Double check your additives Review your orders to be certain you have the correct additives for your infusion day. Double check you have the correct supplies for each additive. WASH YOUR HANDS. Soap and water are preferred, hand sanitizer optional if soap and water are not available. Wash for 20 seconds (hum the Happy Birthday song twice) or rub with hand sanitizer until your hands are dry. It is best practice to draw up one additive at a time and inject it into the PN bag. Start with the additive with the smallest

- Draw up each additive and inject into the PN (If none ordered, skip this section).
 - Your orders will have specific instructions on each additive and the prescribed dose. Refer to your orders for the volume to draw up with each syringe.
 - Remove the plastic caps from the additive vials and discard.
 - Clean the top of each vial with a separate alcohol pad by swiping the pad across the top of the vial.
 - Allow to dry for 15 seconds.

volume.

- Open the packaging of your syringe and remove the syringe.
- If your syringe does not include a needle, remove a new clean needle from its packaging and place on the end of the syringe. Screw the needle onto end of the syringe.
- If multi-vitamins are ordered and provided in two vials, you will only need one syringe for both vials.
- Remove the cap on the needle. Do not touch the needle itself.
- Pull back on the plunger of the syringe the volume you intend to withdraw from the vial.
- Place the tip of the needle directly over the center of the vial and gently push the needle into the vial.
- Invert the vial so that the vial is upside down and above the syringe. Slowly push the plunger injecting some of the air into the vial.
- Make sure the tip of the needle is in the fluid. Pull back on the plunger. Be sure to remove the total volume based on the order.
- When you have the proper amount of drug in the syringe, pull the needle from the vial.
- If you are drawing up the multi-vial multi-vitamin, withdraw an additional 5 ml of air and follow the same steps as you did for the first vial.
- When you have drawn up all the medication you intend, remove any air left in the syringe by holding the syringe with the needle facing upwards. Push the plunger in slowly until no air is left in the syringe.



		Locate the cleaned valve on your PN bag. Grasp the valve without touching the end of the valve. Insert your needle into
		the center of the valve. Do not push the needle through the sides of the bag. Push the fluid in the syringe into the TPN
		bag by pushing the plunger in until the syringe is empty.
	•	Remove the empty needle and syringe from the PN bag and dispose in the sharps container.
		ce all the additives have been added to the PN bag, gently swirl the bag massaging it with your hands to be sure it is (DO NOT SHAKE)
		ASH YOUR HANDS.
_ ,	•	Soap and water are preferred, hand sanitizer optional if soap and water are not available.
	•	Wash for 20 seconds (hum the Happy Birthday song twice) or rub with hand sanitizer until your hands are dry.
\Box	'Sp	ike the bag' to attach the medication tubing to your medication bag:
Ь,	•	Pull the plastic protective tab off the medication bag. Just pull. Do not twist.
	•	Check to be certain all clamps are clamped on your tubing.
	•	Remove the clear protective cap from the spike (located on your medication tubing).
	-	o Make sure the spike does not touch anything. If the spike touches anything, throw that tubing set away and
		begin again with a new tubing set.
•	•	Insert the tubing spike into the medication bag (where the tab was removed).
		 Use a "push and twist" motion (like putting a key into an ignition).
		o You will know the bag is spiked when you see the tip of the tubing spike in the medication bag and fluid is in the
		drip chamber of the tubing.
	Loa	ad the pump with a new medication cassette and bag:
•	•	Turn on the pump based on your nurse's or pharmacist's instructions. Load the pump with the medication and the
		tubing based on your nurse's or pharmacist's instructions.
	Ор	en all clamps on your tubing.
	Pri	me the tubing.
	Prii	me the tubing. Invert the PN bag so the tubing exiting the bag is at the top. Inspect the bag and pinch all free air so that any remaining
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		STEP 3: PREPARE PN, ADDITIVES & PUMP (CONTINUED)
	Che	eck the unwrapped saline syringe on the first "S" of your SAS or SASH mat for any air bubbles.
	•	Remove the protective cap from the syringe and place the cap flat side down on your SAS or SASH mat.
	•	Hold the syringe with the end up and plunger at the bottom.
	•	Pull back on the syringe plunger slightly to break the seal. You will be able to see the air bubble in the syringe.
	•	Slowly push the plunger up to let the air bubble out. Keep holding onto the saline syringe.
П	'Scı	rub the hub.' Clean the end cap (hub) by wrapping the alcohol pad over and around the sides for at least 15 seconds.
_	•	Use the first alcohol pad above your SAS or SASH mat (the one before the first "S").
	•	Once you have cleaned the hub, hold the hub with two fingers. Keep the hub from touching anything else.
	•	If your hub touches anything, wash your hands and scrub the hub again with a new alcohol pad.
П	Flu	sh your IV line with saline ("pulse flush"):
	•	Hold the hub in one hand and the saline syringe in the other.
	•	Screw the syringe onto the hub using a "push and twist" motion. It is like putting a key into an ignition.
	•	Once the syringe is connected to the hub, open the clamp on your IV line and slowly push 1 to 2 mL of saline at a time.
		Stop and push 1 to 2 mL more. Repeat this "pulse flush" until the saline syringe is empty.
	•	If you have trouble flushing your IV-line, double check to make sure the clamp on your IV line is open. If your clamp is
		open and you are still having trouble, stop and call your home infusion nurse.
П	Rer	nove the empty saline syringe from your IV line. Throw it away.
	•	Do not remove the end cap from the hub of your IV line. Be sure you are holding the IV line by the end cap (the blue
		device) to prevent from unscrewing the cap from your line.
	'Scı	rub the hub.' Clean the end cap (hub) by wrapping the alcohol pad over and around the sides for at least 15 seconds.
	•	Use the first alcohol pad above your SAS or SASH mat (the one before the first "S").
	•	Once you have cleaned the hub, hold the hub with two fingers. Keep the hub from touching anything else.
	•	If your hub touches anything, wash your hands and scrub the hub again with a new alcohol pad.
П	Cor	nnect your medication tubing to the hub of your IV line by doing the following:
_	•	Hold the hub in one hand. Find the end of the medication tubing. Remove the medication tubing cap.
	•	Connect the medication tubing to the hub of your IV line. Use the same "push and twist" motion as before.
	Cha	eck your settings and start the infusion based on your nurse's or pharmacist's instructions.
Ш	CHE	eck your settings and start the infusion based on your nurse's or pharmacist's instructions.
	Pla	ce the pump and PN bag into the carry pouch provided.
Stop)_	Stop pump WASH Disconnect WASH Shigh the Plug in the
disc	onne	HANDS and power HANDS tubing and HANDS line plum HANDS
& flu	ısh	off discard hards line paint hards
		STEP 4: STOP, DISCONNECT, AND FLUSH
П	You	ir pump will beep when the infusion is complete. You should immediately check the pump bag to be sure the infusion is
con		te. If it is not, please contact your home infusion provider for additional assistance.
	•	The pump will alarm when there is approximately 5 ml of fluid remaining in the pump. When the pump beeps, select
		"Acknowledge" to clear the alarm and complete the infusion.
	WA	SH YOUR HANDS.
	•	Soap and water are preferred, hand sanitizer optional if soap and water are not available.
	•	Wash for 20 seconds (hum the Happy Birthday song twice) or rub with hand sanitizer until your hands are dry.
	Sto	p the pump and turn it off based on your nurse's or pharmacist's instructions.
	\\/^	SH YOUR HANDS.
Ш	•	Soap and water are preferred, hand sanitizer optional if soap and water are not available.
	•	Wash for 20 seconds (hum the Happy Birthday song twice) or rub with hand sanitizer until your hands are dry.
	-	Wash for 20 seconds than the happy birthady song twice, of hab with halla sallitizer and your hallas are ary.



STEP 4: STOP, DISCONNECT, AND FLUSH (CONTINUED)	
Next, you need to disconnect your medication tubing (attached to your medication bag) from your IV line. Grasp the end cap (hub) of your IV line with one hand while using your other hand to unscrew the medication tubing. Do this until it is disconnected from the hub. Do not remove the hub from your IV line.	
• The end cap is also known as the hub. It is located at the tip of your IV line. The hub protects your IV line from bacteria	a.
Do not remove the hub from your IV line.	
Remove the used cassette based on your nurse's or pharmacist's instructions.	
Throw the used cassette and bag in the trash bag.	
WASH YOUR HANDS.	
 Soap and water are preferred, hand sanitizer optional if soap and water are not available. 	
Wash for 20 seconds (hum the Happy Birthday song twice) or rub with hand sanitizer until your hands are dry.	
Check the unwrapped saline syringe on the second "S" of your SAS or SASH mat for any air bubbles.	
 Remove the protective cap from the syringe and place the cap flat side down on your SAS or SASH mat. 	
 Hold the syringe with the end up and plunger at the bottom. 	
 Pull back on the syringe plunger slightly to break the seal. You will be able to see the air bubble in the syringe. 	
Slowly push the plunger up to let the air bubble out. Keep holding onto the saline syringe.	
 'Scrub the hub.' Clean the end cap (hub) by wrapping the alcohol pad over and around the sides for at least 15 seconds. Use the first alcohol pad above your SAS or SASH mat (the one before the first "S"). 	
 Once you have cleaned the hub, hold the hub with two fingers. Keep the hub from touching anything else. 	
 If your hub touches anything, wash your hands and scrub the hub again with a new alcohol pad. 	
Flush your IV line with saline ("pulse flush"): Hold the hub in one hand and the saline syringe in the other.	
 Screw the syringe onto the hub using a "push and twist" motion. It is like putting a key into an ignition. 	
 Once the syringe is connected to the hub, open the clamp on your IV line and slowly push 1 to 2 mL of saline at a time 	د
Stop and push 1 to 2 mL more. Repeat this "pulse flush" until the saline syringe is empty.	•
 If you have trouble flushing your IV-line, double check to make sure the clamp on your IV line is open. If your clamp is 	
open and you are still having trouble, stop and call your home infusion nurse.	
 If you have been told to use heparin, check the heparin syringe on the "H" of your SAS or SASH mat for any air bubbles. Remove the protective cap from the heparin syringe and place the cap flat side down on your SAS or SASH mat. 	
 Hold the heparin syringe with the end up and plunger at the bottom. 	
• Pull back on the heparin syringe plunger slightly to break the seal. You will be able to see the air bubble in the syringe.	
 Slowly push the plunger up to let the air bubble out. Keep holding onto the heparin syringe. 	
If you have been told to use heparin, 'scrub the hub' of your IV line with a NEW alcohol pad for at least 15 seconds.	
 Use an alcohol pad to scrub the end of the port tubing. 	
 Once you have cleaned the hub, hold the hub with two fingers. Keep the hub from touching anything else. 	
 If your hub touches anything, wash your hands and scrub the hub again with a new alcohol pad. 	
If you have been told to use heparin, flush your IV line with heparin ("pulse flush"):	
 Hold the hub in one hand and the heparin syringe in the other. 	
• Remove the protective cover on the heparin syringe. Screw the heparin syringe onto the hub using a "push and twist"	
motion. It is like putting a key into an ignition.	
• Once the heparin syringe is connected to the hub, open the clamp on your IV line and slowly push 1 to 2 mL of saline a	at
a time. Stop and push 1 to 2 mL more. Repeat this "pulse flush" until the heparin syringe is empty. Flushing this way	
each time helps keep your IV line from getting clogged.	
Remove the empty syringe from your IV line. Throw it away.	

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