



In attendance: Bob Butterfield (BD), Robert Kreiner, (BD), Deedee Powledge (BD), Shannon Bowen (BD), Mark Mollarkey, Gail Parazynski, Rick McFee, Tarra Kerr, Amanda Wollam, Miranda Rodrigues, Laida Juarez, Eric Pickett, Tiffany Wrenn, Joellen Mullen, Shannon Holland, Angela Morgan, Heather McCarthy, Karla Abela, Lisa Davenport, Gee Mathen, Hope Jackson, Tiffani Love

**CareFusion AM Huddle
Meeting Notes
August 24, 2016**

Agenda Item	Topics	Notes / Follow-up
Closed Medication Tubing	<ul style="list-style-type: none">• Update• Deployment• Observations/Feedback• Communication/Education	<ul style="list-style-type: none">• Status: We will move to product MZ8002 which is a current stocked tubing BD carries and other organizations are using and move away from custom made set. 3 new issues identified last night. Pressure Sensing Discs - Heparin infusions. 1 closed med system. Additional issues we identified as well, but have not all been documented in safety scoops.<ul style="list-style-type: none">○ Action: Robert to follow-up with Miranda about patient incidents.• Deployment: Robert reported having 268 cases in warehouse with plans to overnight to TCD. Order has been placed.<ul style="list-style-type: none">○ Expected arrival is Thursday AM○ TCH Supply Chain will deploy to units by Thursday PM○ Nursing will replace old tubing via attrition○ Action: Robert to provide Supply Chain with tracking information.• Feedback: Review of any observations/items learned from Dee Dee and Eric Lozano. No new updates.• Communication/Education: Identify next steps.
Pressure Sensing Discs	<ul style="list-style-type: none">• Status• Decision• Outstanding Issues• Communication/Education	<ul style="list-style-type: none">• Status: Moved to non PSD tubing for all critical infusions on Friday evening of last week as a temporary solution as we learned more. This is requiring q24 hr line change due to perceived delay of start time with syringe change.• Decision: Current options identified below<ul style="list-style-type: none">○ Option 1: Move to non PSD tubing long term○ Option 2: Originally our Plan B- to use current PSD tubing and adding an extension set in hopes a different connection would prevent cracking. Items stocked in house.• Outstanding Issues: Factors needing resolution in order to move forward for PSD recommendation

		<ul style="list-style-type: none">○ Fast start delays/delay expected with syringe change○ Occlusion times○ Understand the multitude of variables related to pump performance○ Bob's recommendation – Do not use the pressure sensing discs. Keep patients level with pumps. Smaller syringe sizes where possible. Leave tubing at manifold. Prime with the pump... <ul style="list-style-type: none">● Communication/Education: Identify next steps.
Next Steps	<ul style="list-style-type: none">● Action Items	<ul style="list-style-type: none">● Team to simulate options and provide feedback for the recommendations and pros/cons during the afternoon debrief.

Silvera, Melissa J.

Subject: URGENT: Safety Alert CareFusion Tubing
Attachments: Syringe Pump and Tubing Update- Critical Care.pptx; Syringe Pump and Tubing Update Talking Points- Critical Care.docx; Syringe Pump and Tubing Update- Acute Care.pptx
Importance: High

From: Kerr, Tarra D. (Kerr, Tarra)

Sent: Thursday, August 25, 2016 12:01 PM

To: Nursing Directors Group <NursingDirectorsGroup@texaschildrens.org>; ACD <ACD@texaschildrens.org>; CNS/CS Group <CNSCSGroup@texaschildrens.org>

Cc: Mathen, Gee <gxmatten@texaschildrens.org>; Davies, Erin P. <epdavies@texaschildrens.org>; McFee, Richard S. (Rick) <rsmcfee@texaschildrens.org>; Juarez, Laida R. <ljuarez1@texaschildrens.org>; Parazynski, Gail M. <gmparazy@texaschildrens.org>; Shook, Joan E. <JeShook@texaschildrens.org>; Love, Tiffani M. <tmlove@texaschildrens.org>

Subject: URGENT: Safety Alert CareFusion Tubing

Importance: High

All,

Many thanks to those who were able to attend the called meeting this AM related to CareFusion tubing. We have the following solutions that will be implemented starting today:

- Closed Medication System tubing- We will move away from the custom set tubing being utilized today. There is a very similar new tubing that will be delivered today to units and all current stock of the old tubing will be removed and replaced. We will change to the new tubing when lines are due to be changed.
- Pressure Sensing Disc (PSD) tubing (utilized for continuous infusions)- We will move away from PSD being utilized today. We will revert to straight line medication tubing for all continuous infusions. There is an additional extension tubing required for critical infusions (defined previously) as well as a process change that staff must be educated to. Both pieces of tubing are stocked on units. We will change to the new tubing when lines are due to be changed.

This AM leadership teams, including ACD's, PCM's, Educators, and CNS's, were pulled together to review and walk through these changes. Attached are two PPTs that need to be utilized for teaching, one for Acute Care and one for Critical Care. Critical Care is to be used for any unit that infuses the following critical medications:

- Epinephrine
- Norepinephrine
- Dopamine
- Dobutamine
- Nipride
- Cardene
- Veletri
- Milrinone
- Esmolol
- Vasopressin
- calcium chloride
- PGE

Action Items:

- Leadership teams are expected to deliver this message in huddles and/or 1:1 to ensure all staff are prepared and educated.
- There is an attestation created in HealthStream for staff to complete. This is due by next Friday, September 2nd.

Thank you in advance for your focus and support. Please push this communication to your teams and reach out if you have any questions.

Tarra

Tarra Kerr Christopher MSN, RN, NEA-BC

Director of Nursing | Cardiac Critical Care
Texas Children's Hospital

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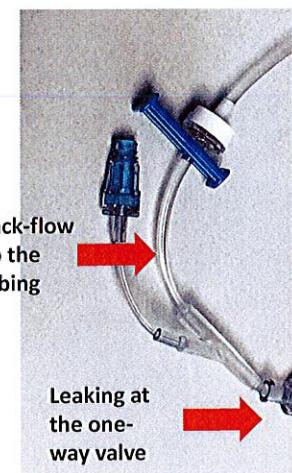
CareFusion Tubing Updates for Critical Care

August 25, 2016



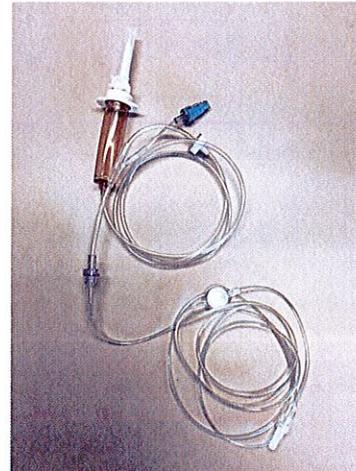
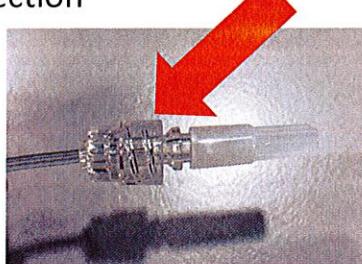
Closed Medication System (MZ8003)

- Problem:
 - Current closed medication system was found to have the following issues:
 - Leaking at the anti-siphon valve
 - Back-flow up the tubing to the one-way back check valve
- Solution:
 - Current stock of closed medication system will be replaced on Thursday 8/25 by Supply Chain with a different product- replacement of product in use will be with next line change
 - New Product features:
 - No clamps
 - Longer tubing between anti-siphon valve and Y-site
 - 0.3ml more in priming volume
- Rationale:
 - The longer tubing prevents infusions from back-flowing up the tubing



Practice Implications – new Closed Medication System (Reference MZ8002)

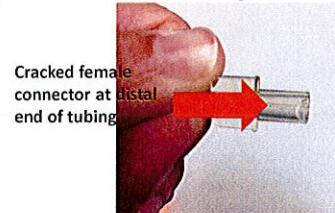
- **Reminder:** Closed medication system should not be used for medications that cannot be filtered (e.g. Cefepime, Amphotericin-B)
- The distal end of the tubing has the same collar that needs to be tightened on to the line connection



New tubing without blue clamp,
increased length

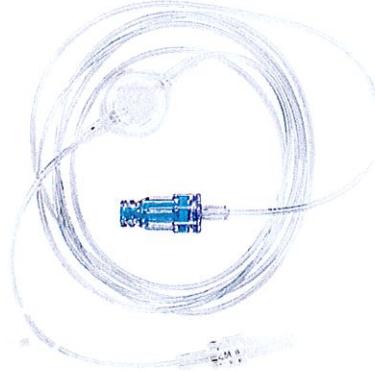
Pressure Sensing Disc (PSD) Tubing (10014916)

- **Problem:**
 - Current tubing with PSD was found to have the following issues:
 - Cracking of female connector at distal end of tubing where we are placing the MaxZero
- **Solution:**
 - PSD tubing will be removed from stock at Texas Children's Hospital
 - Current stock of PSD tubing will be replaced with a different product with the following features:
 - Filtered Microbore Tubing with Max Zero
 - Max Zero bonded to tubing
 - In-line filter
- **Rationale:**
 - Max Zero is bonded to tubing to prevent cracking
 - Start time of infusion is quicker when compared to PSD tubing
- Change out is with next line change.



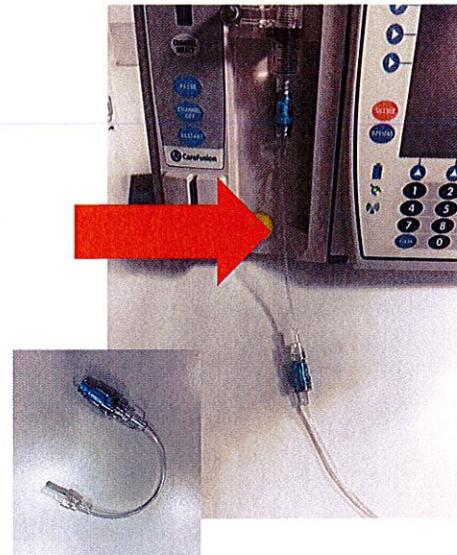
Practice Implications – Microbore Tubing (Reference MZ9226)

- The purpose for which you are using the tubing, determines the frequency of tubing change:
 - For **continuous syringe infusions**, including pressure monitoring lines uninterrupted administration of fluids and medications, change Microbore tubing **every 96 hours**
 - For **intermittent syringe infusions**, not on the closed medication system that are repeatedly disconnected and reconnected for infusions such as scheduled and PRN medications, change Microbore tubing **every 24 hours** (this includes NICU intermittent medication administration)



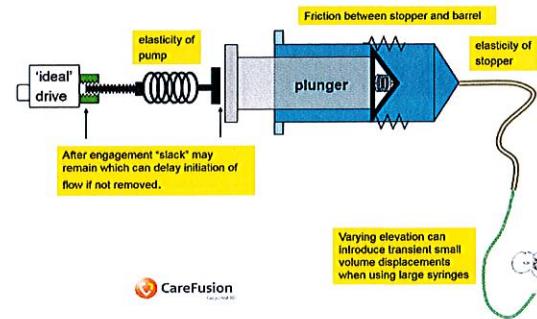
Critical Medications: Single Extension Set (MZ5306)

- For **continuous syringe infusions of critical medications**, an extension set must be added between the medication syringe and the tubing.
- This will enable an easy syringe change process for your vasoactive/critical infusions.



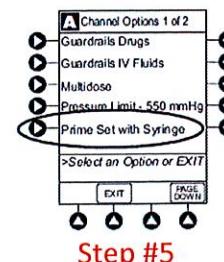
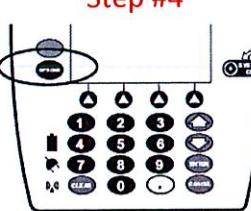
Process for changing syringes q24

- All syringe pumps have a time delay in starting or restarting a continuous infusion. This is due to the multiple gears engaging as well as the physics of the syringe etc.
- In an effort to minimize this delay, the new syringe will need to be started on another pump channel.



Priming the syringe prior to connection

1. Place the new extension set on the end of the medication syringe (leave the end cap on).
2. Place the new syringe on a new pump channel.
3. Program the medication as previously instructed.
4. Prior to hitting start, press the option key.
5. Select "Prime Set with Syringe"

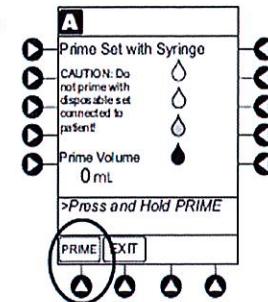


Step #5

Priming the syringe prior to connection cont...

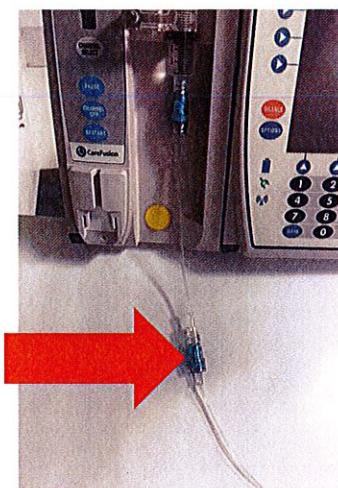
6. Press and hold the "Prime" key until you reach 1mL for syringes > than 5mL. For ≤5mL syringes, prime with 0.5mL.
7. Hit the "Exit" key.
8. Now "Start" infusion.

Step #6



Changing tubing to new running channel

- Once the new channel has started the infusion, you now may switch the tubing from the old running syringe to the newly running channel at the connection site.
- The distal end of the tubing has the same collar that needs to be tightened on to the line connection
- Ensure you have scrubbed the hub 15/15 between the transfer of the tubings.
- On line change day, you will continue your usual process of dual set-ups.



Please complete the Attestation in Healthstream to record your learning by Friday September 2nd:

TCH NPD Syringe Pump and Tubing Update

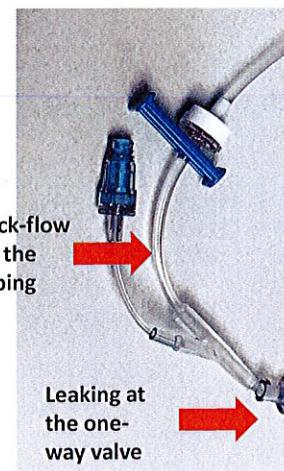
CareFusion Tubing Updates For Acute Care

August 25, 2016



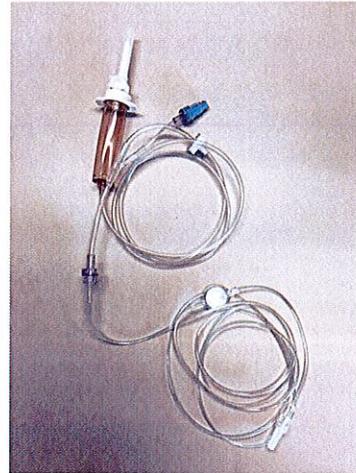
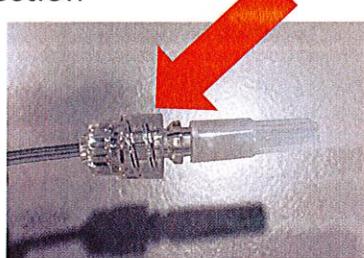
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Practice Implications – new Closed Medication System (Reference MZ8002)

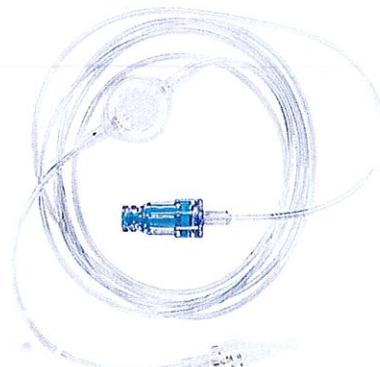
- **Reminder:** Closed medication system should not be used for medications that cannot be filtered (e.g. Cefepime, Amphotericin-B)
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Practice Implications – Microbore Tubing (Reference MZ9226)

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Please complete the Attestation in Healthstream to record your learning by Friday, September 2nd:

TCH NPD Syringe Pump and Tubing Update

Syringe and Tubing Updates: Talking Points

Slide 5:

This tubing will be used for pressure monitoring lines.

Slide 6:

Critical medications needing the extension set and new syringe change process:

- Epinephrine
- Norepinephrine
- Dopamine
- Dobutamine
- Nipride
- Cardene
- Veletri
- Milrinone
- Esmolol
- Vasopressin
- calcium chloride
- PGE

For veletri you will now need to have an extra brain, module, syringe, and both tubings for administration.

If titrating medication, staff nurse should update the pharmacy to send the appropriate syringe. Order should be entered promptly.

Change out will be through attrition.

Slide 8:

Ensure the VTBI is accurate not defaulted to All.

Slide 9:

Smaller prime needed for smaller syringes due to physics of the syringe and interaction with the pump results in a decreased delay.

Slide 10:

Disconnect the Microbore filtered tubing at the MaxZero from the extension set of the old syringe and connect to the new extension set of the newly primed syringe. The old syringe and extension set can now be discarded.

Please have staff complete the Attestation in Healthstream by
Friday 9/2: TCH NPD Syringe Pump and Tubing Update

CareFusion Tubing Update 8/25/16

Name	Unit	Role
Roxanne Vara	EC	Director
Natalie Pham	EC	Educator
Elizabeth Wuestner	CS	EC
Angela Baldonado	WC PICU	Educator
Rebecca Schiff	NICU 4	ACD
Eric Pickett	Biomess	Manager
Heather Moreland-Reid	12WT	EC
Mina Clark	12WT	ACD
Rachel Leva	NICU 2	Educator
Julia Sigren	15WT	PCM
Jennifer Hopkins	16WT	Educator
Shaquetta Johnson	Aber	PCM
Megha Akinyode	Aber	PCM
Anthony Bodnar	10WT	ACD
Christina Maulk	11WT	ACD
Vanessa Phillips	N4	DEC
Allison Walton	N4	DEC
Tanya Williams	NICU 2	ACD
Nakishia Franklin	NICU 4	PCM
Jean Baumgartner	Aber	ACD
Heather Cheeks	NBC	Director
Amy Wallace	WL-EC	Educator

Name	Unit	Role
Shannon Howard	Nursing -CCM	Director
Jamie Winters	Nursing Periop	Director
Gee Mathen	Pharmacy	AD
Erin Daniels	Clinical Informatics	Manager
Ankey Simmels	Clinical Support Ops.	Director
Rosalia DeWeer	EE BMT	CS
Jennifer Sanders	WC/CI	DIR
Tarra Kerr	Nsg-CCM	DIR
Amy Wallace	WC-EC	Educator

CareFusion Tubing Update 8/25/14

Name	Unit	Role
Allison Watto	NICU4	
LAWANNA McNeal	NICU 2	DEC
Clarissa Dab	NICU 4	PCM
Amy Zodin	NICU 9	PCM
Chivas Guyne	NICU 2	Educator
Rick Mentley	NICU 4	PCM
Anna Foy	INT	Educator
Kate Jones	INT	DEC
Rhonda Wolfe	INT	ACD
Krista Atchley	CVICU	PCM
Amanda Wollam	CVICU	ACD
Jessica Gaustad	CVICU	RN
Holly Gregersen	CVICU	PCM
Sefanii Rose	CVICU	PCM
Virginia Little	CVICU	DEC
Laura Boehm	CVICU	DEC
Aleli Cabali	PFW PACU	NM - PACU
TINA Backs	PFW Nicu	PCM
Isa Banan	NBC	DQS
Zindia Briconne	NBC	CS
MIX Minton	NBC	ANS
Kellie Kainen	CVICU	ACD

Heidi Thompson PFN/NICU PCM

SANDRA LUNN RENU / Education

Dionne Walker PFN CS

Nadia Pedroza PICU DEC DBL

Heather Leidich PFN NICU PLM

Ridawna Sneed PFN NICU/PCM

Clarification of Titles and Credentials – CareFusion Tubing Update 8/25/16			
Name	Discipline	Title/Role	Department
Roxanne Vara, MBA, BSN, RN	Nursing	Director of Nursing	Emergency Center
Natalie Pham, BSN, RN, CPN, CPEN	Nursing	Decentralized Education Coordinator/Clinical Nurse	Emergency Center
Elizabeth Wuestner, MSN, RN, CPEN	Nursing	Clinical Specialist/Clinical Nurse	Emergency Center
Angela Baldonado, MSN, RN, CPN, CCRN	Nursing	Decentralized Education Coordinator/Clinical Nurse	WC PICU
Rebecca Schiff, MBA, BSN, RNC	Nursing	Assistant Clinical Director	Newborn Center NICU Level IV
Heather Morand-Reid, DNP, RN	Nursing	Decentralized Education Coordinator/Clinical Nurse	General Medicine/Transplant 12 th Floor
Mona Clark, MSN, BSN, RN	Nursing	Assistant Clinical Director	General Medicine/Transplant 12 th Floor
Rachel Leva, BSN, RN, CPN	Nursing	Decentralized Education Coordinator/Clinical Nurse	Newborn Center NICU Level II
Julia Sigren, BSN, RN, CPN	Nursing	Patient Care Manager	Cardiology Unit
Jennifer Hopkins, MSN, RN, CPN	Nursing	Decentralized Education Coordinator/Clinical Nurse	Cardiology Unit

Shaquetta Johnson, BSN, RN, CPN	Nursing	Patient Care Manager	5 North
Megha Akinyode, BSN, RN, CPN	Nursing	Patient Care Manager	6N
Anthony Bodnar, MBA, BSN, RN, NE-BC	Nursing	Assistant Clinical Director	Neurology 10 th Floor
Christina Mauk, BSN, RN, NE-BC	Nursing	Assistant Clinical Director	Surgical/Orthopedics
Vanessa Phillips, BSN, RNC-NIC	Nursing	Decentralized Education Coordinator/Clinical Nurse	Newborn Center NICU Level IV
Allison Walton, MSN, RN, CCRN	Nursing	Decentralized Education Coordinator/Clinical Nurse	Newborn Center NICU Level IV
Tanya Williams, MSN, RN, NE-BC	Nursing	Assistant Clinical Director	Newborn Center NICU Level II
Nakishia Franklin, BSN, RN, CCRN, ECLS	Nursing	Patient Care Manager	Newborn Center NICU Level IV
Jason Baumgarten, DNP, MBA, MHA, RN, NEA-BC, FACHE	Nursing	Assistant Clinical Director	Abercrombie Units (5 North, 6N, 7 South, 7N CRC)
Heather Cherry, MHA, BSN, RN, NE-BC	Nursing	Director of Nursing	Newborn Center NICU
Amy Wallace, BSN, RN, CPN	Nursing	Decentralized Education Coordinator/Clinical Nurse	WC Emergency Center
Shannon Holland, MSN, RN, NE-BC, CCRN-K	Nursing	Director of Nursing	Pediatric ICU & Progressive Care Unit

Janet Winebar, MSM, BSN, RN, CNML	Nursing	Director of Nursing	Perioperative Services
Erin Davies, BSN, RN	Nursing	Manager	Clinical Informatics
Ashley Simms, MBA, BSN, RN	Nursing	Director of Nursing	Clinical Support Operations
Robbie Norville, MSN, RN, CPON, BMTCN	Nursing	Clinical Specialist/Clinical Nurse	Bone Marrow Transplant Unit
Jennifer Sanders, MSN, RN, NEA-BC	Nursing	Director of Patient Care Services	Patient Care Services West Campus
Tarra Kerr, MSN, RN, NEA-BC	Nursing	Director of Nursing	CVICU & Cardiology Unit
Eric Pickett	Biomedical Engineering	Manager	Biomedical Engineering
Gee Matheu	Pharmacy	Assistant Director	Pharmacy
Allison Watton, MSN, RN, CCRN	Nursing	Decentralized Education Coordinator/Clinical Nurse	Newborn Center NICU Level IV
Lawanna McNeal, BSN, RNC-LRN	Nursing	Patient Care Manager	Newborn Center NICU Level II
Clarissa Daly, MBA, BSN, RN	Nursing	Patient Care Manager	Newborn Center NICU Level IV
Amy Zodin, BSN, RNC-NIC	Nursing	Decentralized Education Coordinator/Clinical Nurse	Newborn Center NICU Level IV
Chivas Guynes, MBA, RNC-LRN	Nursing	Patient Care Manager	Newborn Center NICU Level II
Richard Manley, BSN, RN	Nursing	Patient Care Manager	Newborn Center NICU Level IV

Anna Foy, BSN, RN, CPON	Nursing	Decentralized Education Coordinator/Clinical Nurse	Hematology/Oncology
Kate Jones, BSN, RN, CPN	Nursing	Decentralized Education Coordinator/Clinical Nurse	Pulmonary Adolescent Endocrine Unit
Rhonda Wolfe, MBA, BSN, RN, NE-BC	Nursing	Assistant Clinical Director	Pulmonary Adolescent Endocrine Unit
Krista Atchley, MSN, RN	Nursing	Patient Care Manger	CVICU
Amanda Wollam, BSN, RN, CCRN	Nursing	Assistant Clinical Director	CVICU
Jessica Gaustad, BSN, RN	Nursing	Clinical Nurse	CVICU
Holly Gregersen, BSN, RN, CCRN	Nursing	Patient Care Manager	CVICU
Stefanie Kase, BSN, RN	Nursing	Patient Care Manger	CVICU
Virginia Little, BSN, RNC-NIC, CCRN	Nursing	Decentralized Education Coordinator/Clinical Nurse	CVICU
Laura Boehm, BSN, RN	Nursing	Decentralized Education Coordinator/Clinical Nurse	CVICU
Aleli Cabali, MSN, RN-BC, CPAN	Nursing	Nurse Manger	Women's Services Pre-Operative, Pre-Anesthesia Testing & Post Operative Care Unit

Tina Babb, MSN, RN	Nursing	Patient Care Manger	PW NICU
Isa Baruah, BSN, RN, CCRN	Nursing	Decentralized Quality Improvement Specialist	Newborn Center NICU
Lindsay Broome, MSN, RN, CNL	Nursing	Clinical Specialist/ Clinical Nurse	Newborn Center NICU
Alexandra Luton, MN, RN, NCNS-BC	Nursing	Clinical Nurse Specialist/ Clinical Nurse	Newborn Center NICU
Kellie Kainer, MSN, RNC	Nursing	Assistant Clinical Director	PW NICU
Heidi Thompson, MSN, RNC-NIC	Nursing	Patient Care Manager	PW NICU
Sandra Luna, BSN, RN	Nursing	Decentralized Education Coordinator/Clinical Nurse	Renal Services
Dionne Walker, MSN, RNC-OB	Nursing	Clinical Specialist/ Clinical Nurse	Women Services
Nadia Pedroza, BSN, RN, CCRN	Nursing	Decentralized Education Coordinator/Clinical Nurse	Pediatric ICU
Heather Leidich, BSN, RNC-NIC	Nursing	Patient Care Manager	PW NICU
Ridawna Snead, MBA, BSN, RNC-NIC	Nursing	Patient Care Manager	PW NICU

