

One Vessel at a Time

A Safe & Thoughtful Approach to Vascular Access Training

BACKGROUND

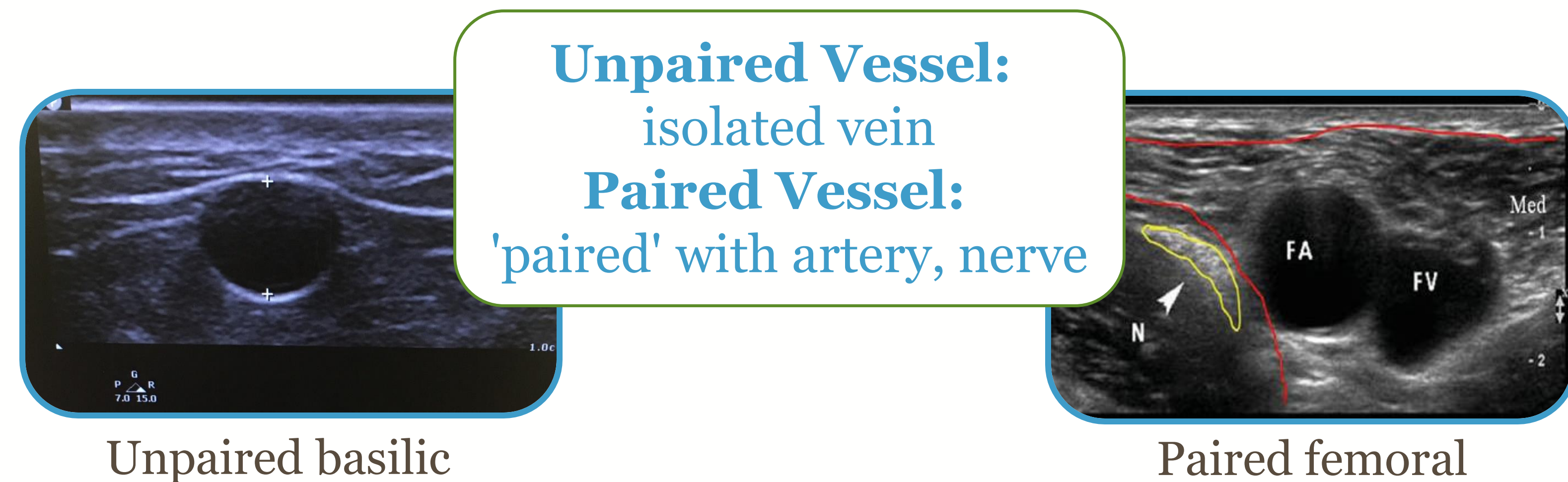
The majority of our vascular access devices (VADs) are inserted and managed by our vascular access service (VAS) RNs. The ability to successfully place a VAD is highly dependent on operator skill. We recognized the need to standardize training and competency for USGPIV and PICC placement across VAS nurse teams throughout the institution to ensure consistent, safe care for our patients. Additionally, we recognized an opportunity to advance VAS nurses scope of practice to include arterial punctures for labs and arterial catheter placement.

Aim

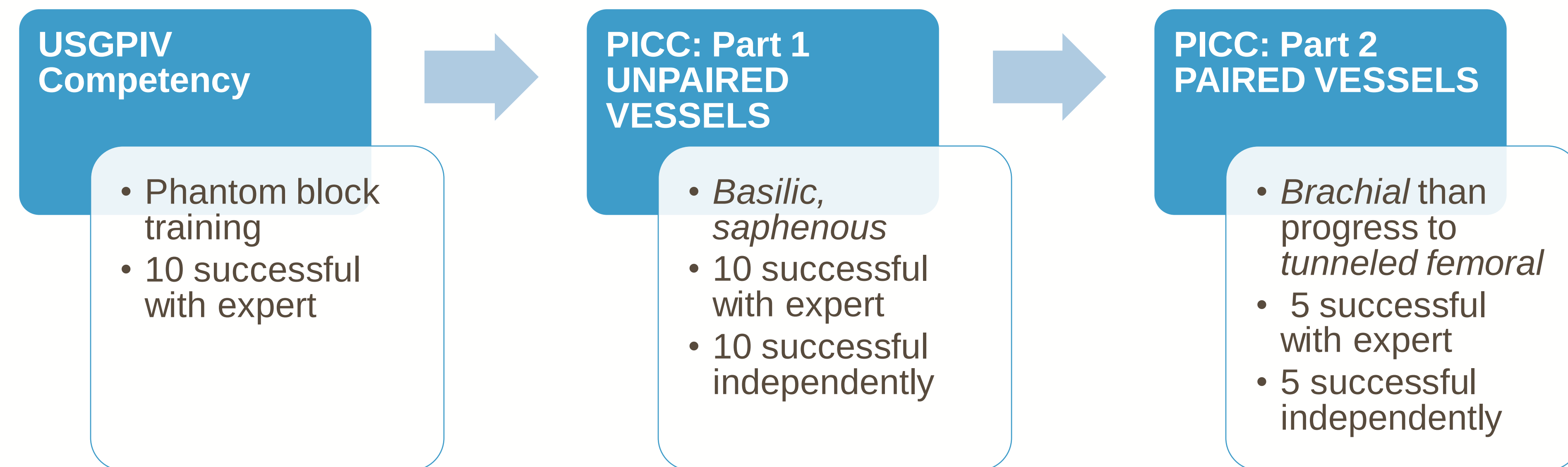
Standardized VAS RN Training

IMPLEMENTATION

- Collaborated with VAS stakeholders across the institution including IR, central VAS, and ICUs to gather information from all areas regarding current training practices
- Developed a standardized competency for USGPIV and PICC placement for VAS nurses, which includes a progression from unpaired to paired vessels via hands-on training with a skilled vascular access expert
- Created nursing procedures and competency for ultrasound guided arterial puncture and line placement



PICC Training Progression



Competency Log

1	2	3	4	5
Date/time	Date/time	Date/time	Date/time	Date/time
1/12/2024 13:00				
MRN	MRN	MRN	MRN	MRN
12345678				
Age	Age	Age	Age	Age
2 weeks				
Successful Y/N	Successful Y/N	Successful Y/N	Successful Y/N	Successful Y/N
Size and type of catheter inserted:	Size and type of catheter inserted:	Size and type of catheter inserted:	Size and type of catheter inserted:	Size and type of catheter inserted:
1.9 GL				
Insertion technique:	Insertion technique:	Insertion technique:	Insertion technique:	Insertion technique:
OTN				
# of attempts (needle insertion through the skin):	# of attempts (needle insertion through the skin):	# of attempts (needle insertion through the skin):	# of attempts (needle insertion through the skin):	# of attempts (needle insertion through the skin):
1				
Name of preceptor:	Name of preceptor:	Name of preceptor:	Name of preceptor:	Name of preceptor:
Kimberly Kristoff				
Preceptor Initials:	Preceptor Initials:	Preceptor Initials:	Preceptor Initials:	Preceptor Initials:
KCK				

OUTCOMES

VAS nurses trained with new process over a 12-month period:

- 21 became competent in USGPIV placement
- 5 became competent in PICC placement and placed 116 PICCs with no arterial punctures or insertion related CLABSI

Education for arterial punctures is in progress

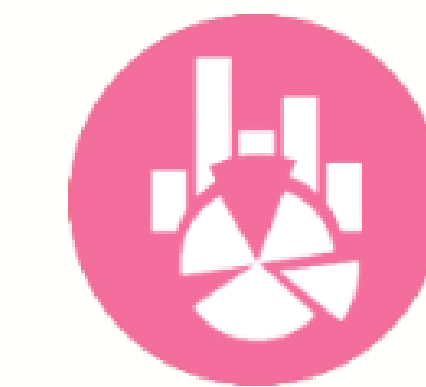
- 5 VAS nurses currently practicing

IMPACT

Standardized training has allowed us to continue to support the development of current VAD nurse teams as well as expand unit-based teams to the Cardiac ICU and to provide training for VAS nurse support for our community-based satellite hospital. These pathways can be mirrored to train future VAS specialists. We continue to move the needle forward by looking for opportunities to expand the scope of the VAS RN role to enhance patient safety and provide best care.



Keep Patients Safe



Clinical & Operational Excellence



Increase Effectiveness & Efficiency