**Occlusion:**

**Step 4 Validation – Tip Migration and Catheter Occlusion Review**

Instructions: Complete retrospective audits on all HMS identified PICC occlusions and tip migrations for a 6-month period.

Question: How many PICCs did you audit? How many PICC occlusions and how many PICC tip migrations were reviewed?

Question: Select the months that were audited

* January
* February
* March
* April
* May
* June
* July
* August
* September
* October
* November
* December

Question 1: What percent of audited PICC occlusions had a radiographic study (any procedure where contrast was used)?

Question 2: Of the audited PICC occlusions with a radiographic study, how many had documentation of tip confirmation following the radiographic study?

*NOTE - If this review shows a higher percentage of catheter occlusion or tip migration occurring after radiologic studies with contrast, the HMS Coordinating Center recommends focusing on this area with real time review of catheter occlusion and tip migration. Please reach out to the Coordinating Center for additional guidance.*

Question 1: What percent of audited PICC tip migrations had a radiographic study (any procedure where contrast was used)?

Question 2: Of the audited PICC tip migrations with a radiographic study, how many had documentation of tip confirmation following the radiographic study?

*NOTE - If this review shows a higher percentage of catheter occlusion or tip migration occurring after radiologic studies with contrast, the HMS Coordinating Center recommends focusing on this area with real time review of catheter occlusion and tip migration. Please reach out to the Coordinating Center for additional guidance.*

Based your review of catheter occlusions and tip migrations related to radiologic studies with contrast, have you implemented a procedure to check tip position following radiographic studies? If so, please detail the rationale and when this change occurred.

*NOTE - If this review shows a higher percentage of catheter occlusion or tip migration occurring after radiologic studies with contrast, the HMS Coordinating Center recommends focusing on this area with real time review of catheter occlusion and tip migration. Please reach out to the Coordinating Center for additional guidance.*

#### Have you implemented any of the following related to vascular access and/or occlusion prevention since you began this step?

* New or Changed Process
* New or Changed Policy
* New Product
* Education
* Other
* None

For each of the changes you made, please provide specifics about what you did and when.