Cleanse hands following CDC or WHO guidelines:
- Before & after line insertion
- Accessing central line
- Repairing central line
- Dressing central line

Provider and assistant:
- Non-sterile cap & mask
- All hair under cap
- Mask covers nose and mouth
- Sterile gown & gloves

All staff in the room:
- Wear masks to cover nose & mouth

Patient:
- Head and body covered with large sterile drape
- Prep skin using back & forth friction scrub for at least 30 seconds
- Do not wipe or blot
- Allow time to completely dry

Subclavian is preferred for infection prevention purposes
- Other factors should be considered based on patient risk

Education of Staff
- Bundle implementation kick-off for existing staff via live class
- Classes videotaped
- Staff unable to attend live class
- Orientation of new staff
- Annual competency validation

2004 Nursing Leaders attend National Nursing Conferences
- Bring back evidenced-based research
- Shared with staff & providers

2005 Multidisciplinary Workgroup Created:
- CCU Nursing Staff & Leaders
- CCU Medical Director
- Infection Prevention
- Dietitian
- Central Sterile
- Staff Development Leader

Revised Policy & Procedure:
- Incorporate CDC Guidelines
- IHI Central Line Bundle Elements

Central Line Kits:
- CCU Clinical Leader worked with CS & vendor
- Developed trays that included all necessary supplies
- Eliminated need to leave the room once procedure initiated
- Includes central line checklist

Noncompliance of the bundle
- Lack of understanding of frequency of dressing change
- Failure to follow current procedure
- Failure to complete daily line assessment
- Failure to discontinue line when no longer needed

Strategies to Overcome Barriers:
- Empower nursing staff to speak up immediately if elements of the bundle not being followed
- “Stop the Line”
- Daily Multidisciplinary Rounds includes discussion of all lines, tubes, drains for necessity
- Role Modeling by nursing staff and CCU Medical Director
- Culture of Safety

2006: 51 Months Without Associated Blood Stream Infections!

Barriers!
- Shared learnings with other sites within Trinity
- Trinity Health Keystone Project adopted MMC-NI process
- Replication & implementation in NICU
- Celebrate success with staff

Bonus Round!
- Assess need of line daily
- Discuss line necessity in daily multidisciplinary rounds
- Document line necessity in medical record

A member of Mercy Health Network