

# Success with Compassion: Peripheral Intravenous Cannulation in the Pediatric Population

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# Success with Compassion: Peripheral Intravenous Cannulation in the Pediatric Population

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## Purpose:

- Peripheral Intravenous (PIV) cannulation is the most stressful and traumatic procedure for hospitalized children, as well as their parent
- Children's stress is increased when multiple IV attempts are required
- Parents satisfaction is compromised when numerous IV sticks are required

## Background:

- Review of literature revealed limited resources in current studies related to pediatric PIV insertions and the variables related to success
- Literature does not report a national standard for pediatric PIV insertion success
- Key variables to determine success rates:
  - Parental presence
  - Distraction technique
  - Vein illuminator

## Current State:

- Unacceptable parent satisfaction scores
- Unacceptable success rates on first PIV insertion attempts
- Low confidence levels experienced by RN's
- Low use of distraction techniques
- Learning curve on use of vein illuminator

## Target State:

- Increase in Press Ganey® indicator "IV skill of the nurse"
- Success on first PIV insertion by using appropriate and consistent diversion techniques
- Increase knowledge on the use of the vein illuminator
- Overall increase in the RN's confidence

## Methods:

- Development of standard work for all PIV insertions:
  - Parental presence highly recommended
  - Certified Child Life Specialist to be present for all PIV insertions for patients toddler age and above
  - Staff to hold child in positions of comfort during PIV insertion
  - Vein illuminator for all veins difficult to visualize
- Prior to implementation, nurses were educated on the standard work for all PIV cannulation procedures

## Outcomes:

- Staff report increase in confidence with PIV insertions
  - Effective and consistent utilization of distraction techniques, parental presence, and vein illuminator

## Future Plans:

- Standard work for all PIV insertions:
  - Consistent use of diversion techniques
  - Parental presence standards
  - Skill lab on the use of the vein illuminator
  - Mentoring program for less experienced nurses
  - Monitor the press ganey scores for evidence of increased parental satisfaction related to the skill of the nurse in the PIV indicators.

