Delivering Value: Reducing Angiography Complications and Cost

Increase Patient Safety

- **up to 30%** reduction in CI-AKI vs. manual injection
  - CI-AKI incremental cost range: $13,294 to $14,266

- **~25%** reduction in contrast use without compromising image quality when comparing 4Fr to 6Fr diagnostic procedures
  - Bleeding and contrast use were significantly reduced with 5Fr catheters compared with 6Fr

Increase Workplace Safety

- **up to 50%** reduction in clinician radiation exposure by stepping back
  - 4X higher skin lesions reported by interventional cardiologists

- **49.4%** of interventional cardiologists have experienced at least one orthopedic injury
  - Manual contrast injection may cause repetitive stress injuries to the operator’s hand based on the force required to inject contrast and the number of procedures performed per day.

Increase Operational Efficiency

- **45mL** decrease per case when injector used
  - Up to **$0.30/mL** savings in wasted contrast media

- **average 5 min** faster per procedure
  - Time saved may allow for additional procedures to be performed in a day

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*The cost was reported in 2010 USD and was inflated to 2018 USD using the medical care component of the CPI index.*
References:


