

what it takes to connect.

Managing Risk in Systems of Systems

FDA Workshop on Interoperability

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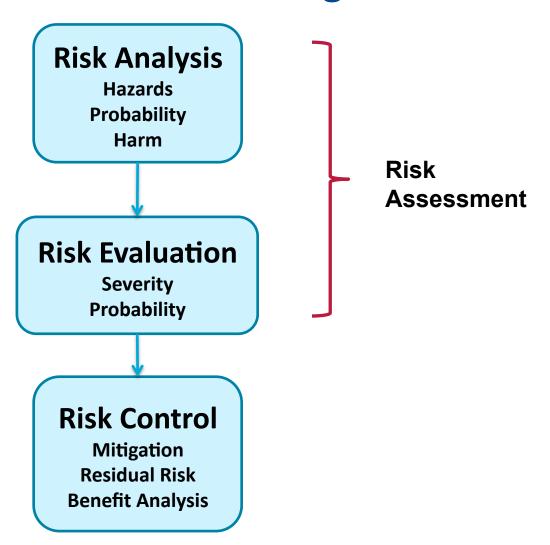


Proposal Applying the IHE Process to Risk Management

- Apply the IHE process to risk management profiles
 - Risk Profiles
 - Risk Case Scenarios
 - Standardized Risk Case Mitigations
 - Risk Control Statements
- Supports IEC-80001
 - Forms part of device vendor deliverables
- Use best practices from ISO-14971, and IEC-80001



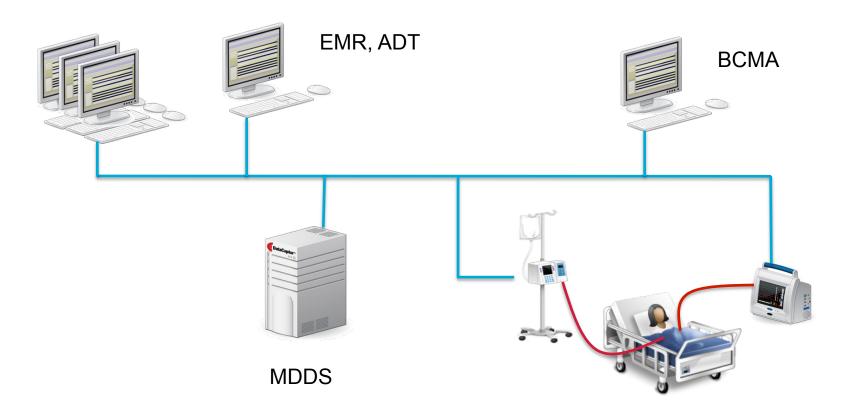
Risk Management 101



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Risk Case Scenario





Risk Profile - Patient Association

Risk Case Scenario

- Hazard Incorrect Association between Patient and Monitor
- Hazardous Situation
 - Patient A on vasodilator
 - Patient B on vasopressor
 - ADT interaction with EHR incorrectly associates monitor for patient B with patient A
 - BCMA instructs pump for patient A to titrate vasodilator too rapidly
- Harm Deadly dysrhythmia, irregular heart rate, death
- Severity Catastrophic



Risk Case Control Example

- Standardized Risk Case Mitigation
 - All transactions must include PID
- Verification
 - Standard test protocol
- Risk Case Control Statement
 - Analogous to Integration Statement
 - Maybe certified by a Notified Body depending on level of risk