Innovative Drug & Device Technologies & Their Impact on Quality Systems, Control Strategies & Risk Management

Dr. Rick Wedge Associate Research Fellow 25 Jan 2023



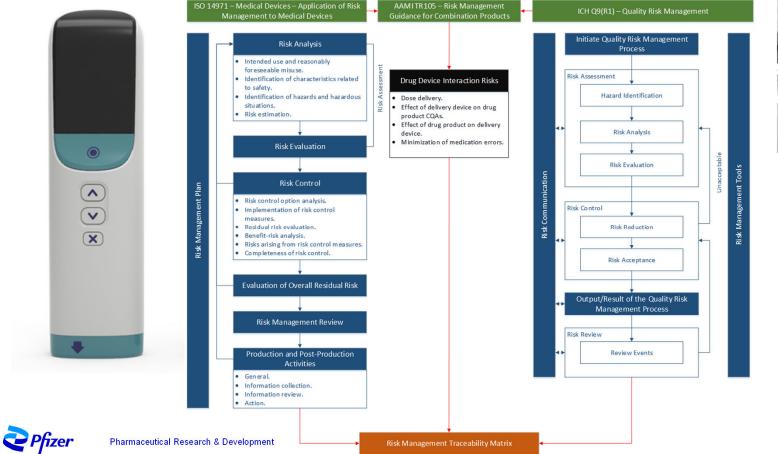
### Contents

- AAMI TR105:2020 Approach
- Current Reality
- ISO 14971 Foundations
- Linking Drug & Device Risk Assessments
- Failure Mode Analysis & Risk Analysis Relationship
- Risk Management Traceability Matrix
- Drug Agnostic Risk Assessments
- Conclusions



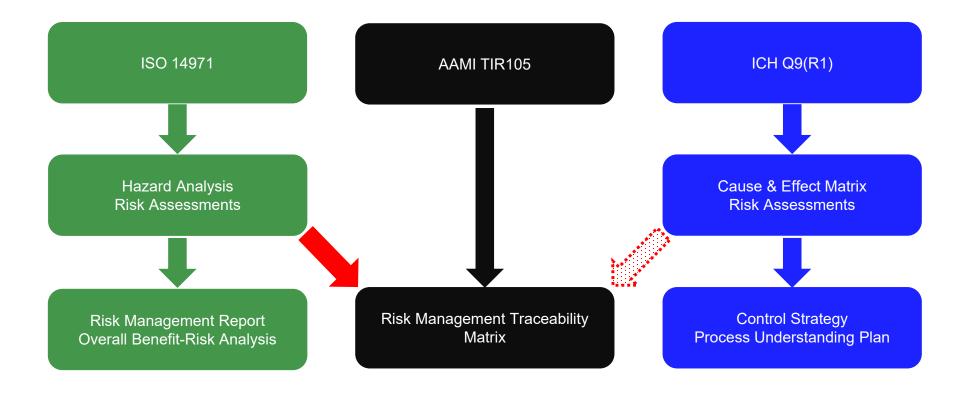


#### AAMI TIR105:2020 Approach



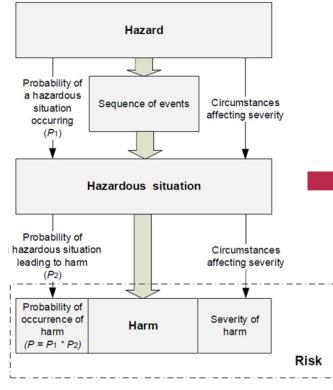


### **Current Reality**





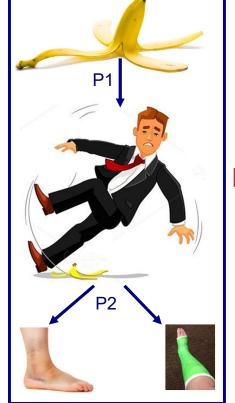
### **ISO 14971 Foundations**

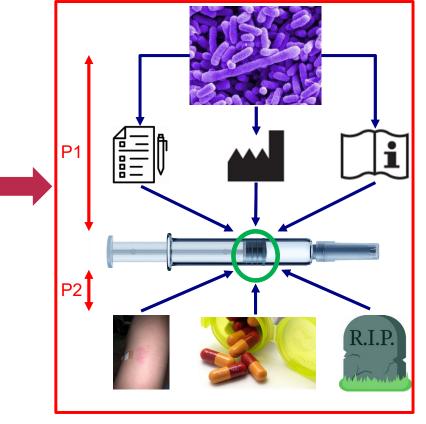


ISO 14971:2019 - Medical Devices - Application of Risk Management to Medical Devices

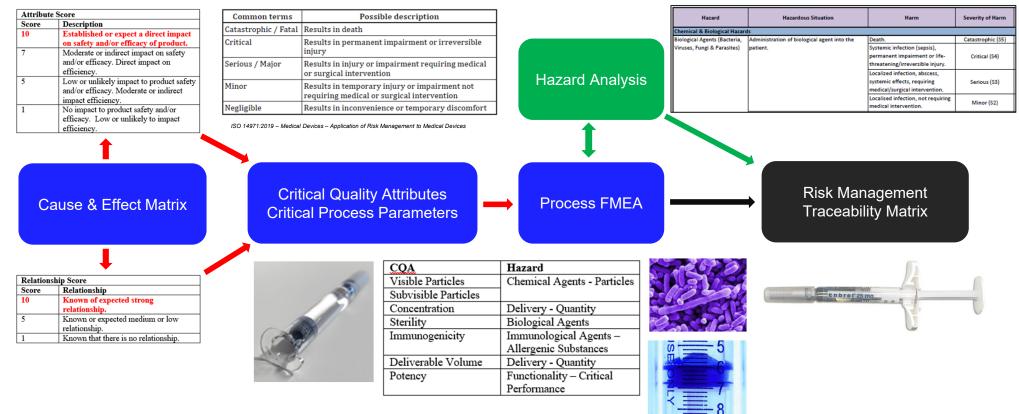


Pharmaceutical Research & Development



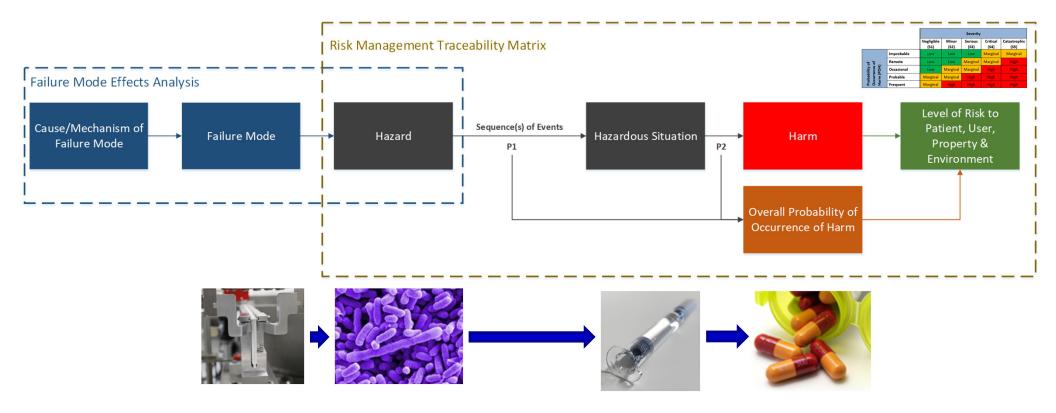


#### Linking Drug & Device Risk Assessments



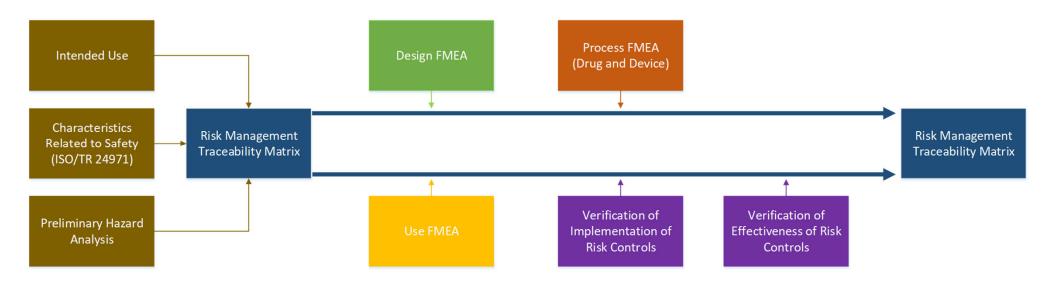


#### Failure Mode Analysis & Risk Analysis Relationship





## **Risk Management Traceability Matrix**





# Drug Agnostic Risk Assessments



- Four different risk management files.
- Risk of inconsistencies between common hazards.
- Burden on time.



Pharmaceutical Research & Development

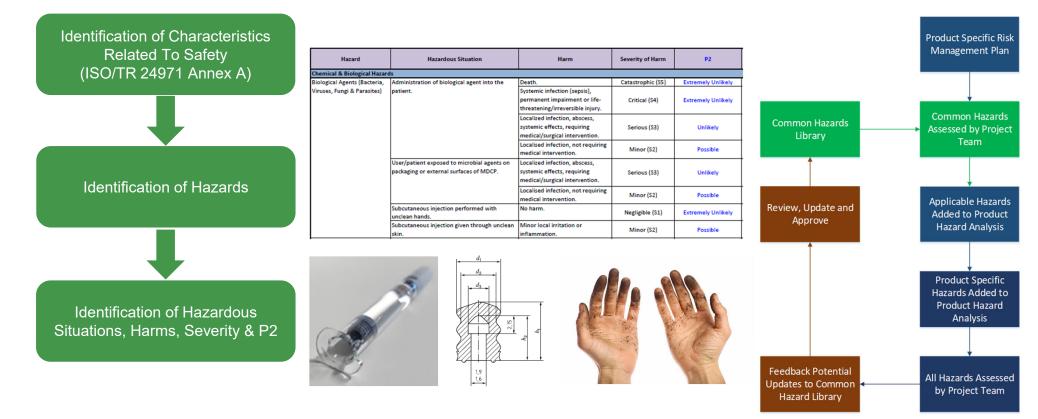


Common Hazard Library Common Risk Assessments

9



## Drug Agnostic Risk Assessments – Common Hazards





## Conclusions

- AAMI TIR105:2020 provides a good architecture for assessing combination product risk and is device independent.
- Failure of a drug product to meet CQA requirements can be assessed in an ISO 14971 context.
- Approach results in holistic combination product risk assessments with little extra work.
- Drug agnostic risk assessments save time and drive consistency when same platform device utilized over multiple drug products.



#### Thanks

Doh	orto	Ma	logori
NUD	JIA		legari

Leigh Bohack

Janelle Lavoie

Dan Dixon

Chandra Webb

Charles Godfrey

Natalie Enright

Nikki Wade

James Jo

Brian Thomas

Susan Neadle



# Thank You

