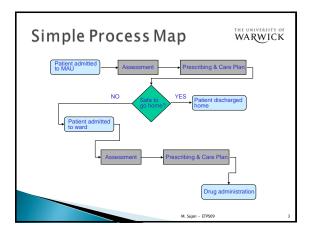
Combining Analytical and Narrative Techniques in Designing Reliable Care Processes - FMEA & Scenarios Mark Sujan Warwick Medical School

The Use of Analytical Techniques - Process Mapping

WARWICK

- Describes actual processes
- Generates a shared understanding
- Forms the basis for subsequent techniques
- Is still an abstraction of what really happens

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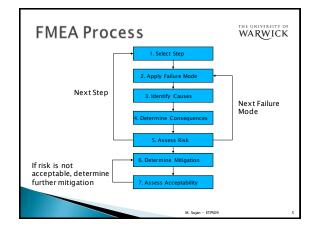


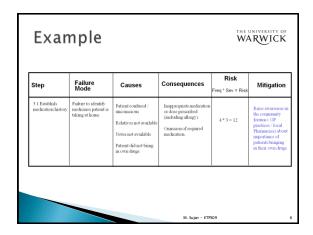
Failure Mode & Effects Analysis (FMEA)

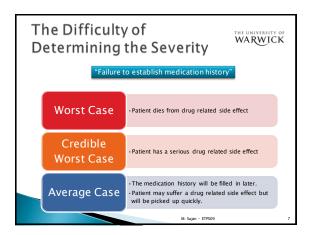
WARWICK

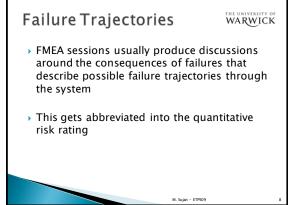
- Identification of major vulnerabilities
- Prioritisation of risks in order to focus on those situations that pose the highest risk
- Particularly useful to detect conditions where a single failure can lead to a dangerous situation

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Possible Pathways WARWICK Patient is on anti-coagulant because he has an artificial heart valve. The dose is unknown. The "normal" dose may be too high can cause internal bleeding or it may be too low which may lead to blood clots on his artificial heart valve. Patient is known to have high blood pressure but

Capturing Trajectories WARWICK Capturing trajectories in descriptive scenarios: Illustrate how failures propagate through the system and the diversity of effects failures may have depending on contextual influences known. It may be reasonable to wait until the next day when the family will bring in the tablets but in the meantime the blood pressure will go up which most of the time has no noticeable effects, but could lead to headache or even Can produce a quantified risk rating based on contextualised failure trajectories rather than abstract single failures stroke.

