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Using the FMEA Tool to Identify Potential Failures in a Psychiatric Hospital Emergency Department During COVID-19





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FMEA - Failure mode and effects analysis is a tool to identify failures and their cause and effect, including set actions to implement before problems occur

COVID-19 pandemic created medical challenges as depression, anxiety, anger and violence, leading to higher use of healthcare services especially in emergency departments



Identify failure modes and potential causes in treating patients visiting a psychiatric hospital emergency department

Objective



Method

- · Multidisciplinary team (psychiatrists, nurses, psychologists and para-medical personnel) in the ED of a 150-bed psychiatric hospital
- · The team was trained in FMEA and basic COVID-19 information.
- The team identified possible causes of failures and their potential effects, to calculate a risk priority number (RPN) for each failure, and plan changes in practice

Major potential failures at admission to the ED		
Telephone consultation	Danger or suicide risk not detected	225
Patient arrival to hospital	Violent patient refuses to enter the hospital area	120
entrance	Not detecting a conceal weapon on a patient	169
Passage from gate to ER	Patient wanders in hospital and enters restricted areas	151
	Violent or dangerous event	189
Nurse Triage	Potential suicidal or earlier attempts not detected	121

Psychiatrists, especially senior staff, believe nurses are more likely to miss a COVID-19 diagnosis than psychiatrists

Differences according to healthcare staff

Analyses according to healthcare staff roles found 5 types of significant failures, compared to only 2 when comparing ER vs. non-ER staff





ER and non-ER care providers differed in only 2/32 failure analyses (P<0.001)

considered failure to identify patient arriving with a concealed weapon, as more dangerous then non-ER providers (RPN=224, 137 respectively)

ED healthcare providers ED healthcare providers considered failure to identify suicide potential at triage, as less dangerous, than non-ER providers (RPN=102, 132, respectively)

Conclusion

FMEA is a useful tool for anticipating potential failures in the admission process and proposing improvements that could help reduce psychiatric situations during the pandemic

Lessons learned



The large sample of 45 participants enable statistical analysis of the



Type of training (MD, RN, etc.) affected ability to identify potential failures more than location (ED vs. non-ED)



Sample selection is the key to Therefore, it must include several, diverse specialists