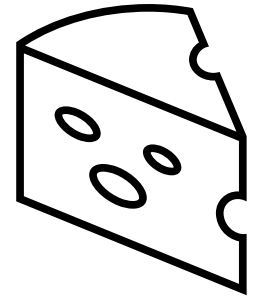


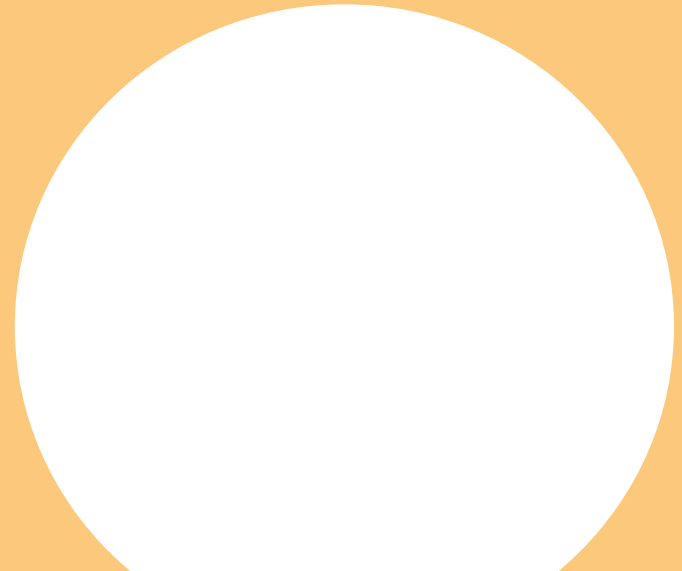
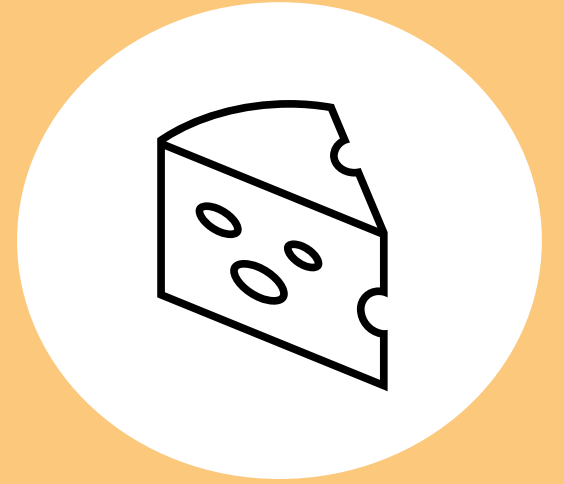
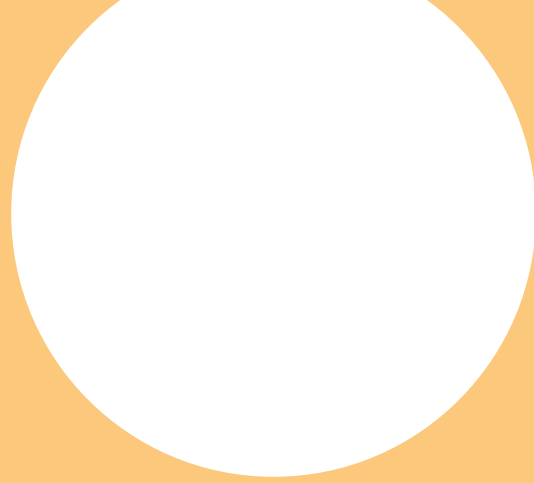


Trauma Quality



Plugging the Holes in the Swiss Cheese

Nicole Cook, MSN, APRN, AGCNS-BC, CEN, CCRN, TCRN
Trauma Clinical Nurse Specialist
WakeMed Health and Hospitals



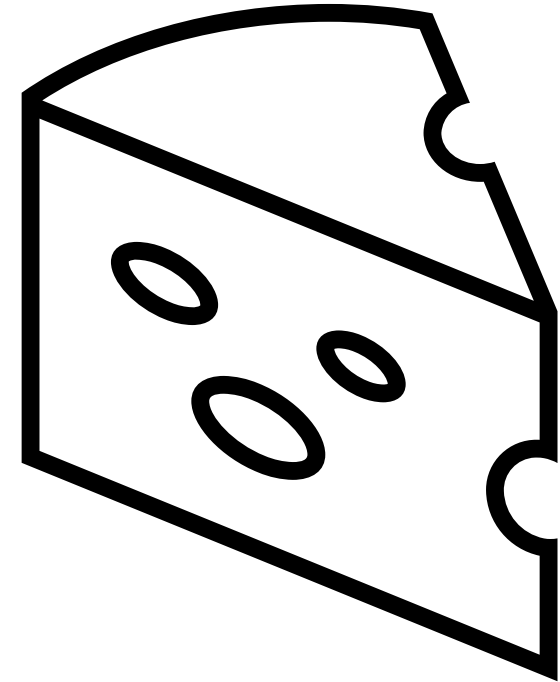
No Conflicts

Not a big fan of Swiss cheese

Trauma Quality

Imperfect humans working within an
imperfect system that is constantly
evolving

Attempting to perfect care of a patient
population that defies convention and
encompasses all other populations



(Nicole Cook, 2023)

James Reason

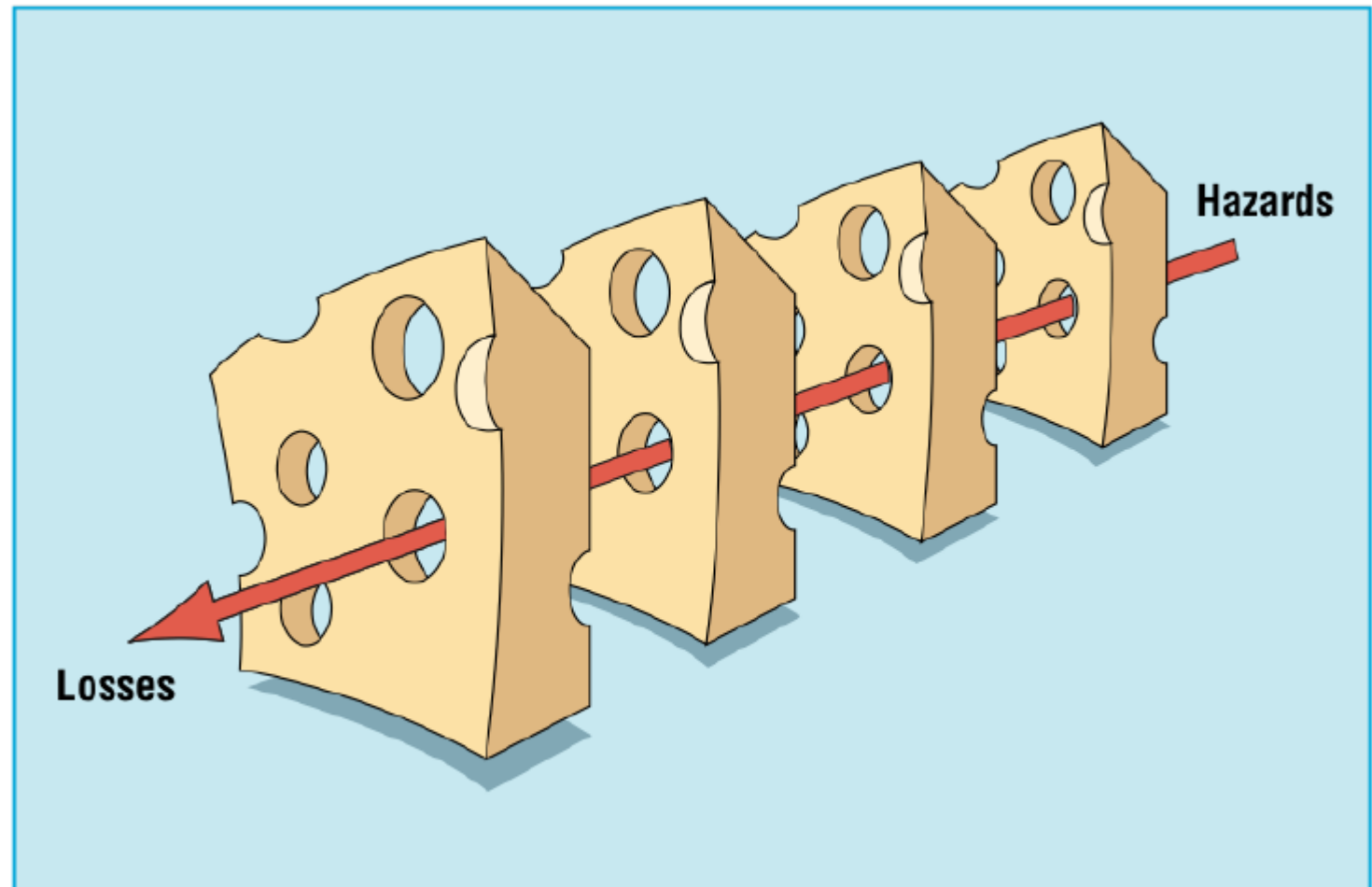
Theory of Active and Latent Failures

Unsafe Acts

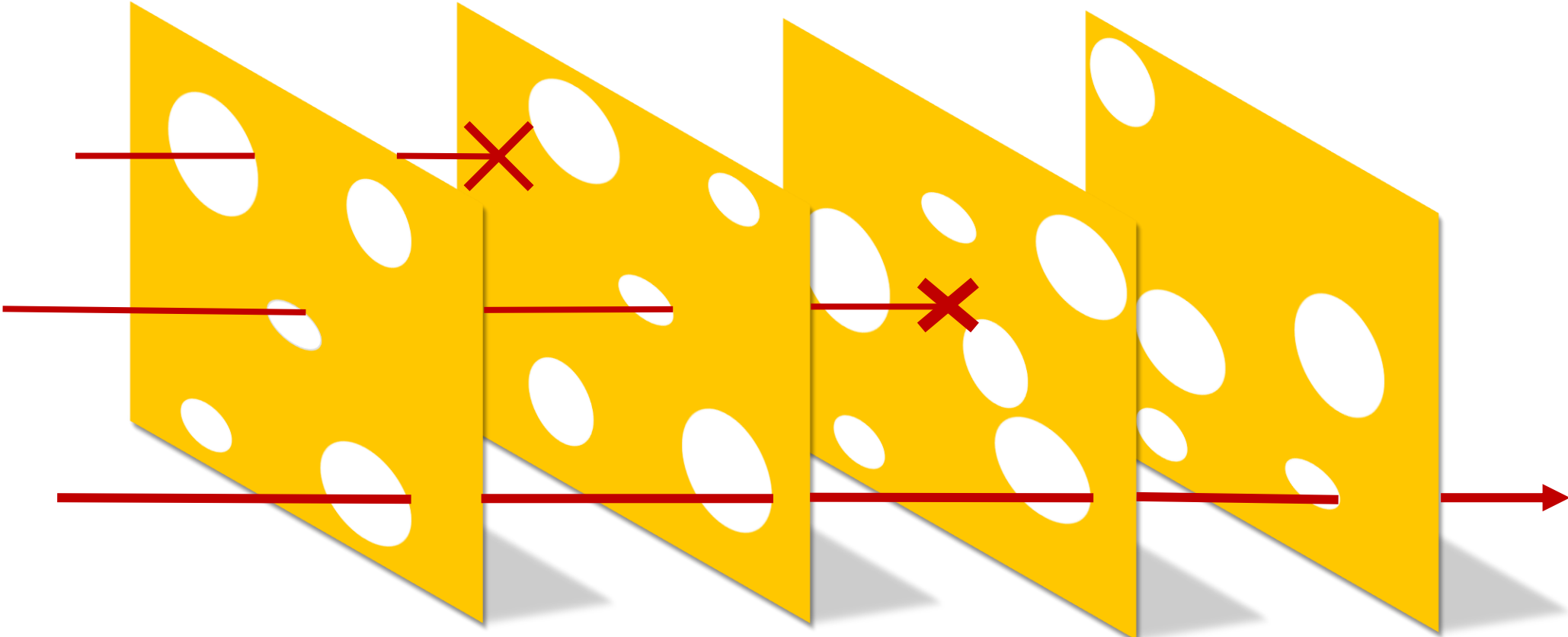
Preconditions for Unsafe Acts

Organizational Influences

Supervisory Factors



Theory of Active and Latent Failures



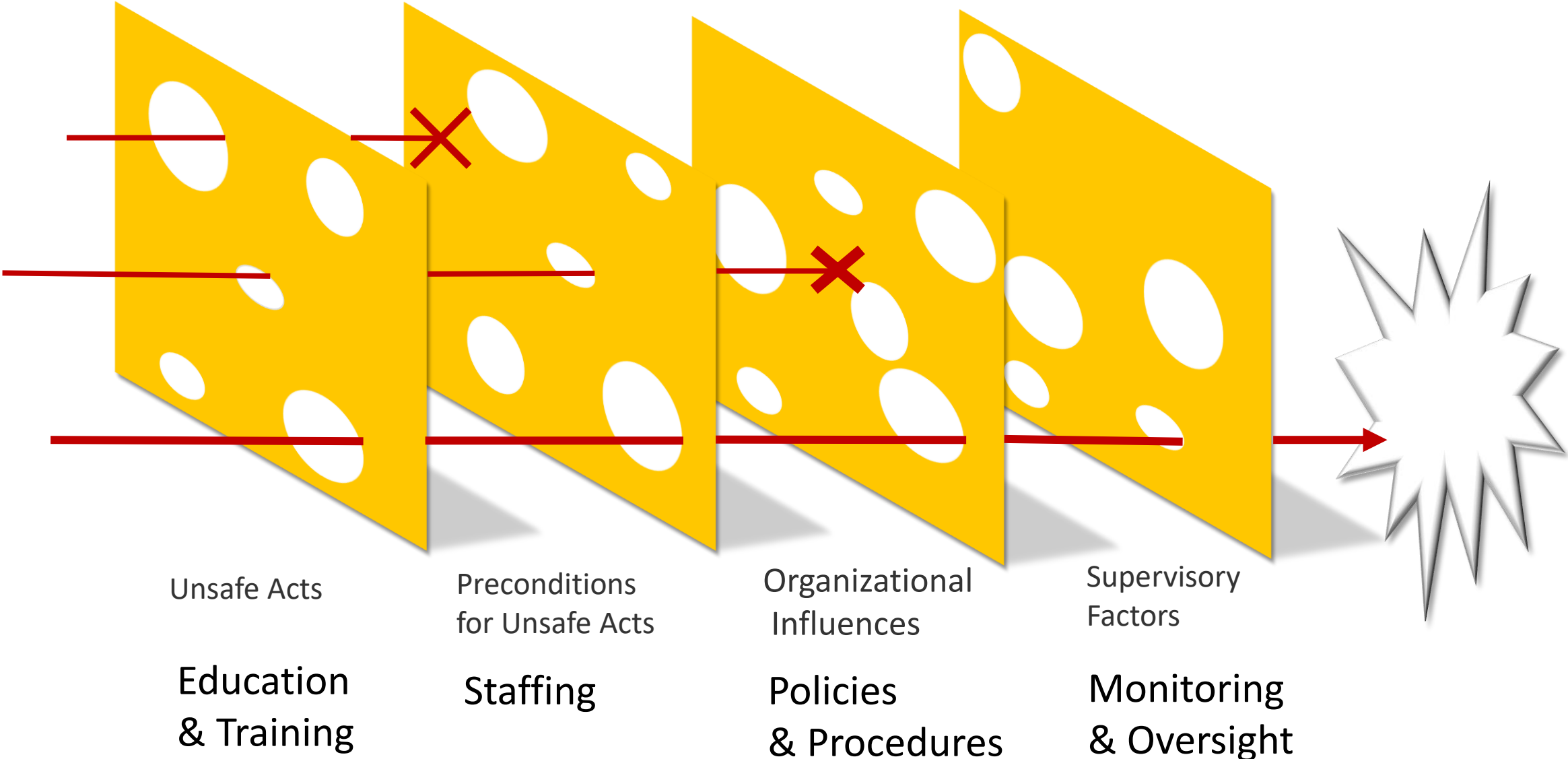
Unsafe Acts

Preconditions
for Unsafe Acts

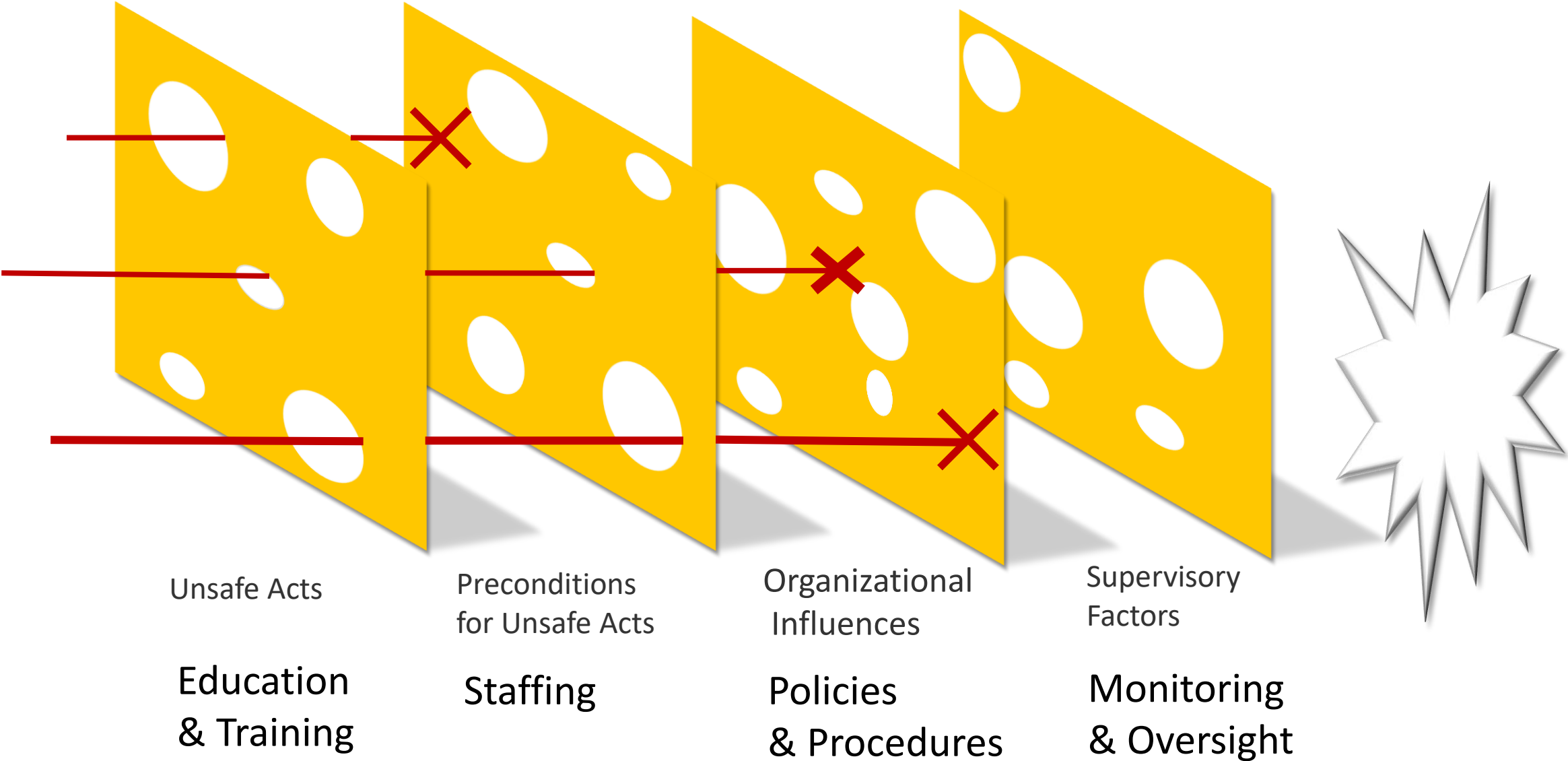
Organizational
Influences

Supervisory
Factors

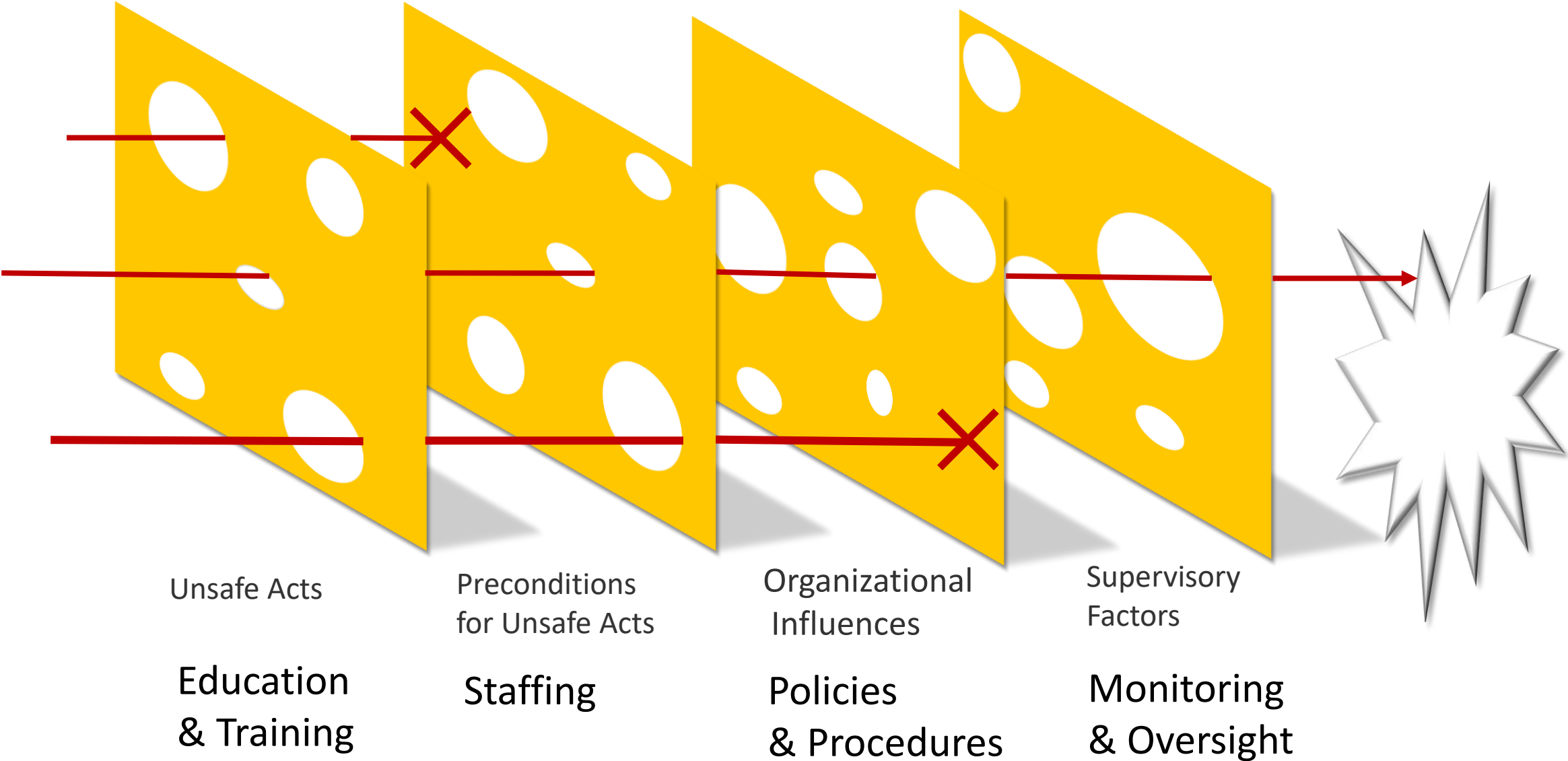
Theory of Active and Latent Failures



Theory of Active and Latent Failures



Theory of Active and Latent Failures





Trauma Quality Whac-A-Mole

Most quality issues are not fixed by one simple initiative

Choose your blast wisely

Population Deaths

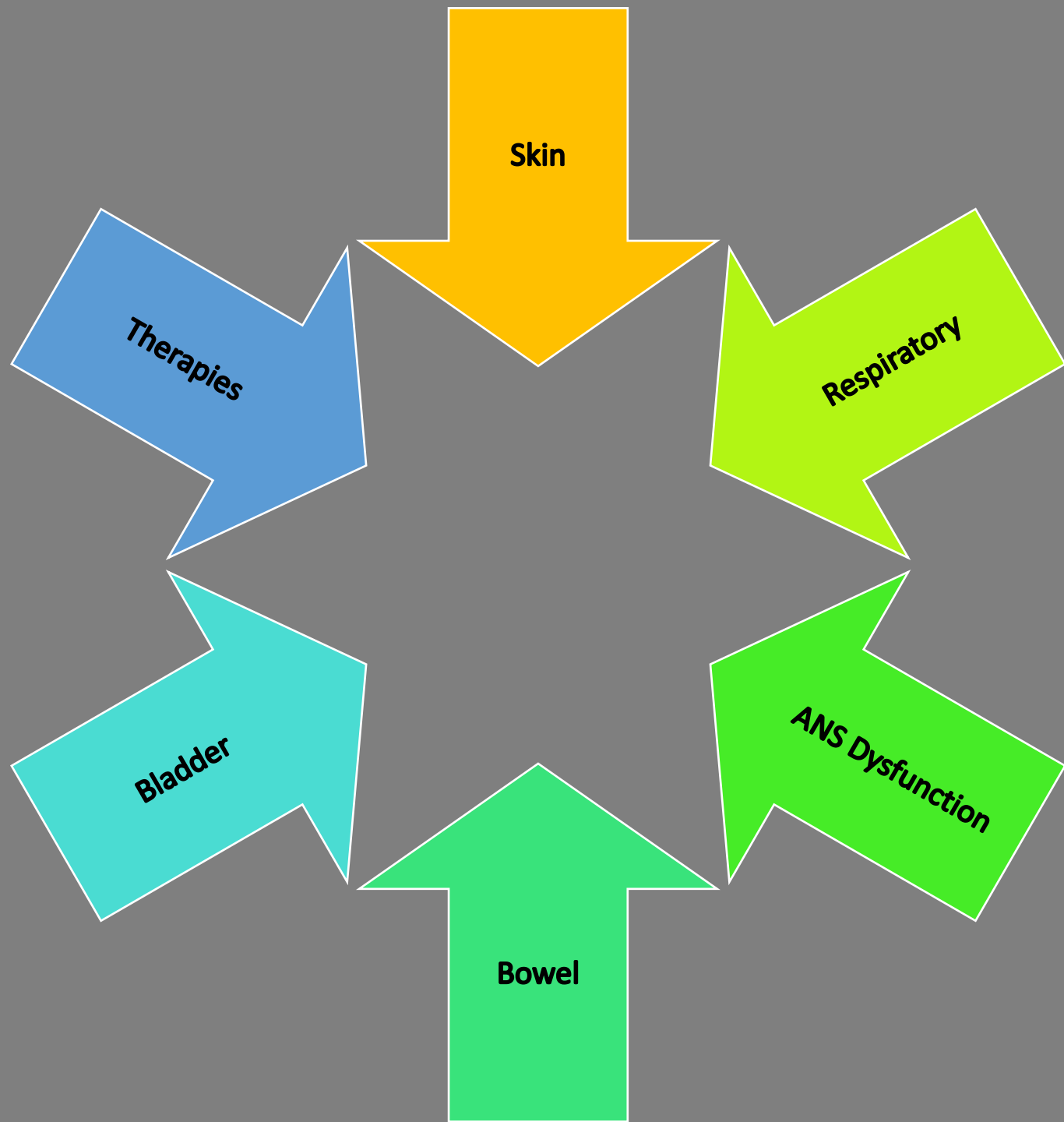
*Data review

*Above benchmark mortality rate

What is the fix??



Acute Spinal Cord Injury Mortality



Skin

Respiratory

ANS Dysfunction

Bowel

Therapies

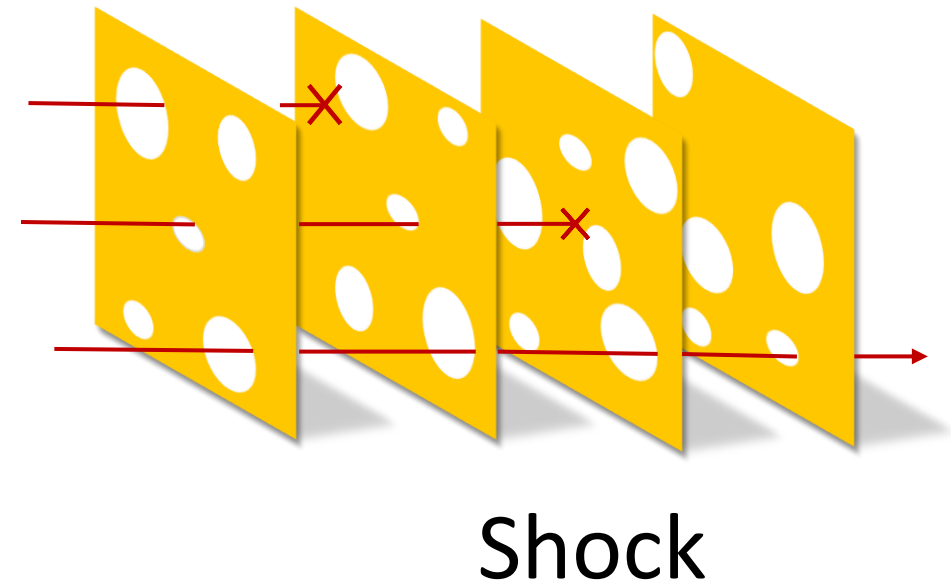
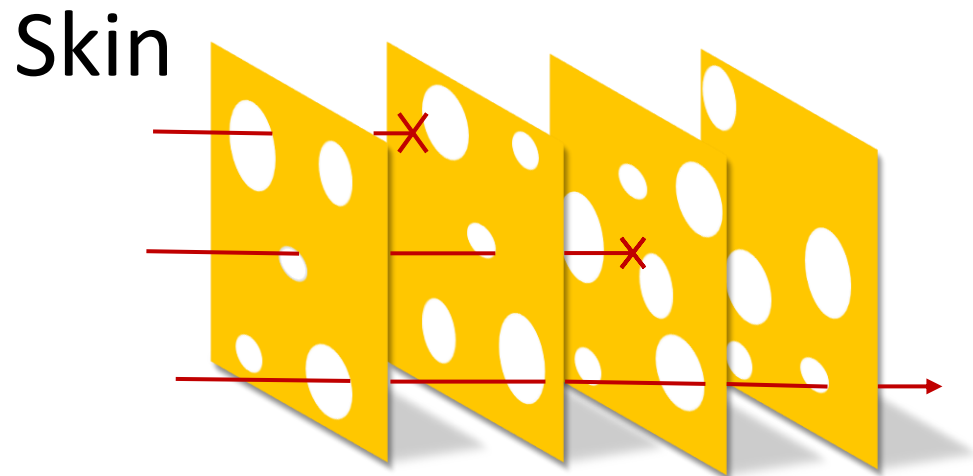
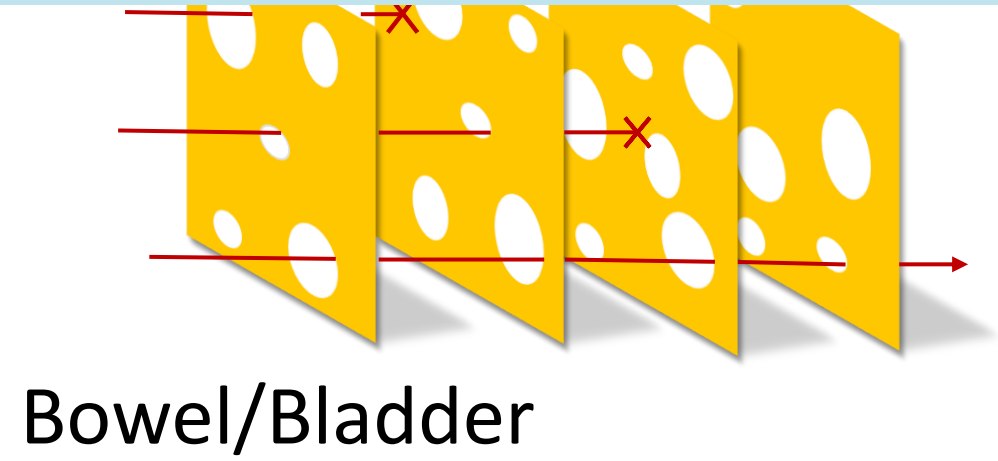
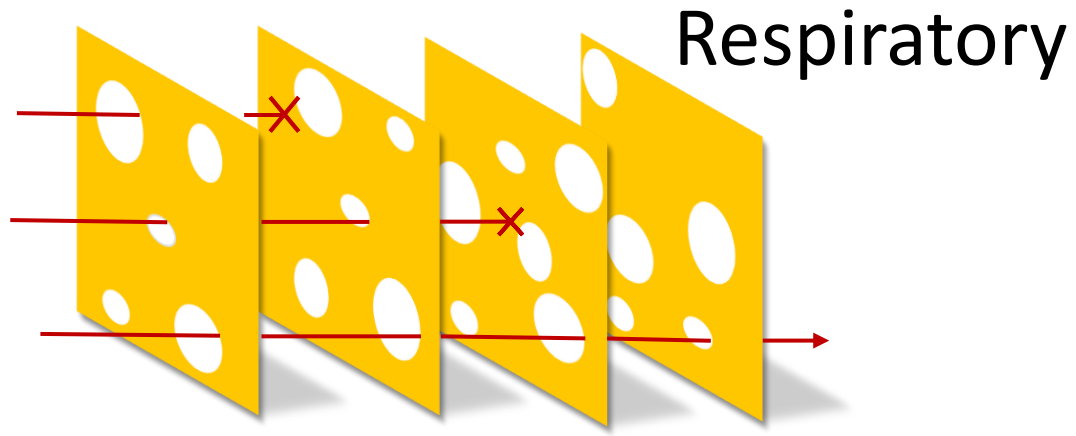
Bladder



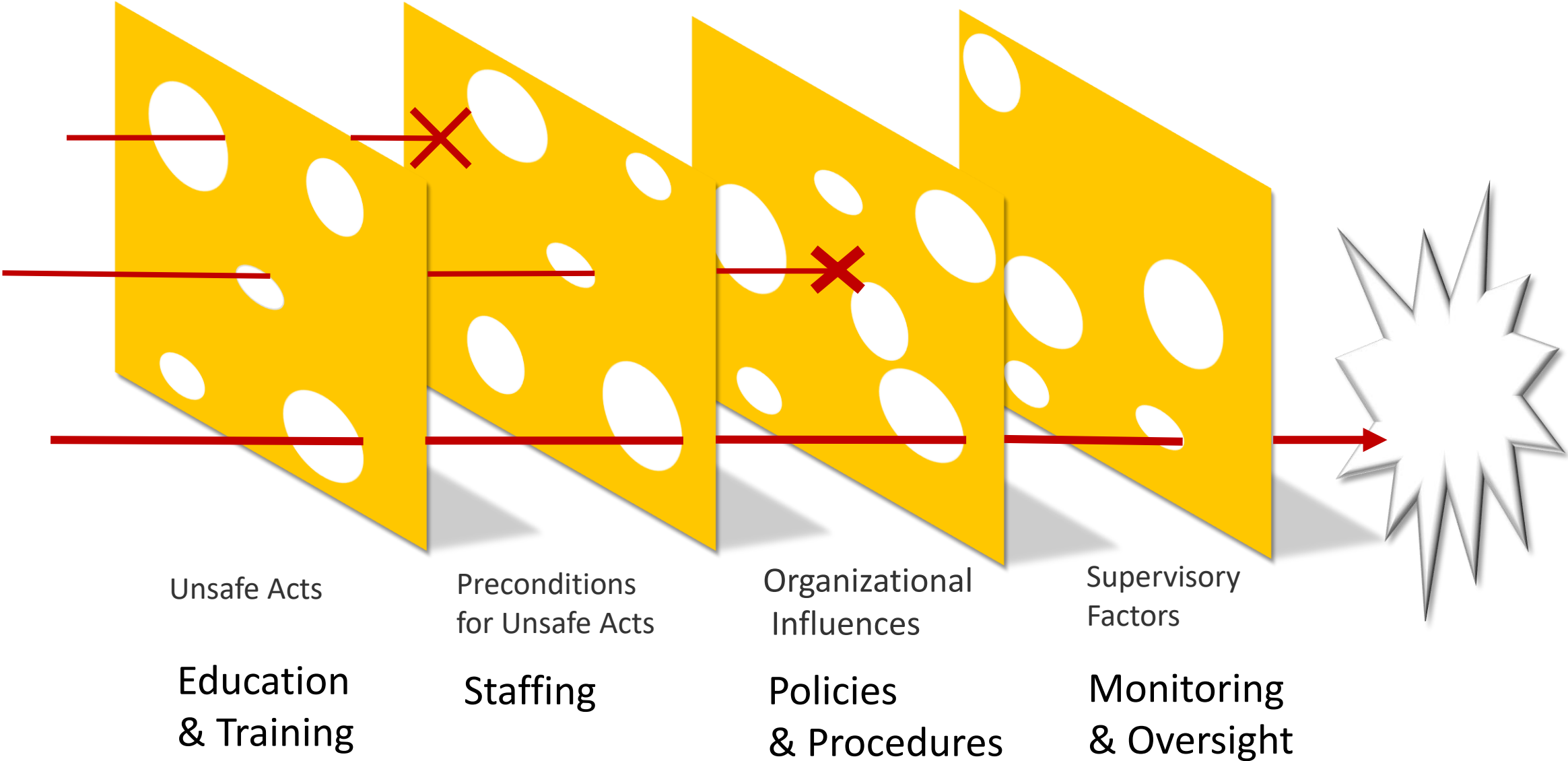
Do you pick the low hanging fruit

OR

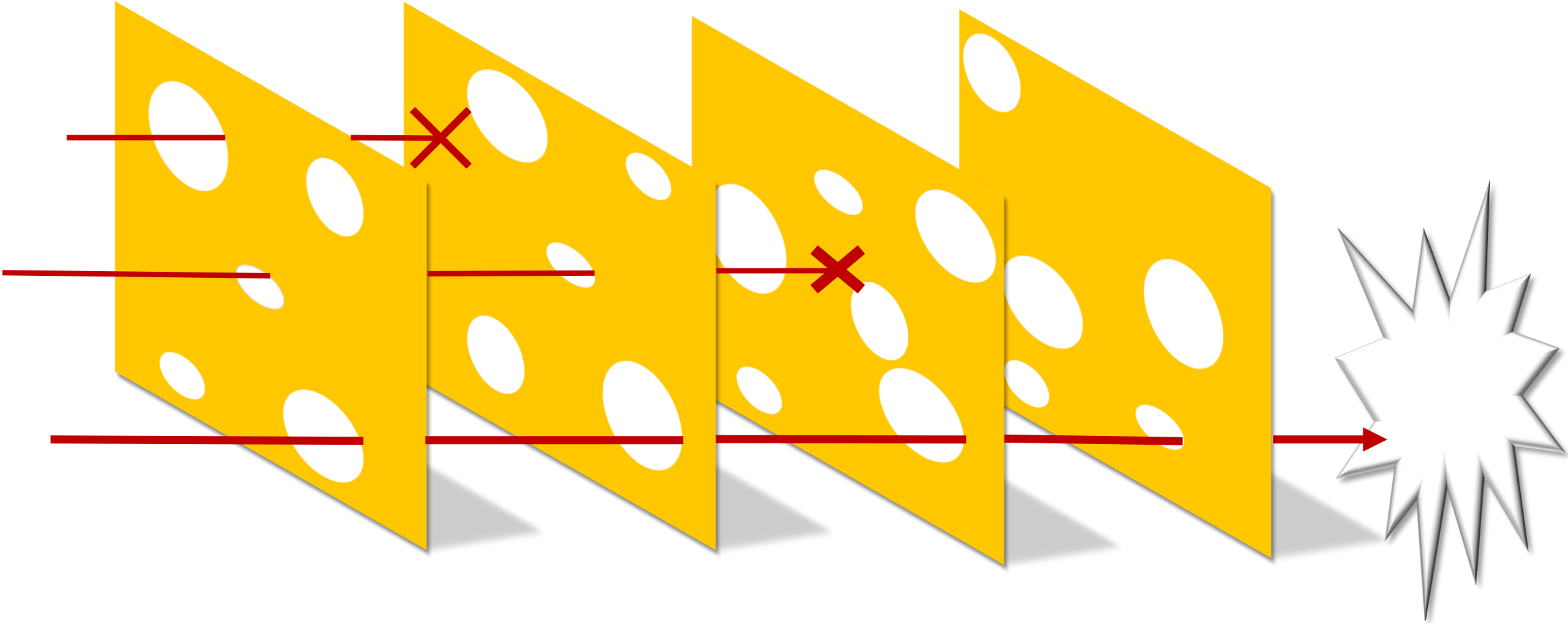
Do you pick the big fruit?



Theory of Active and Latent Failures



Theory of Active and Latent Failures



Initiatives



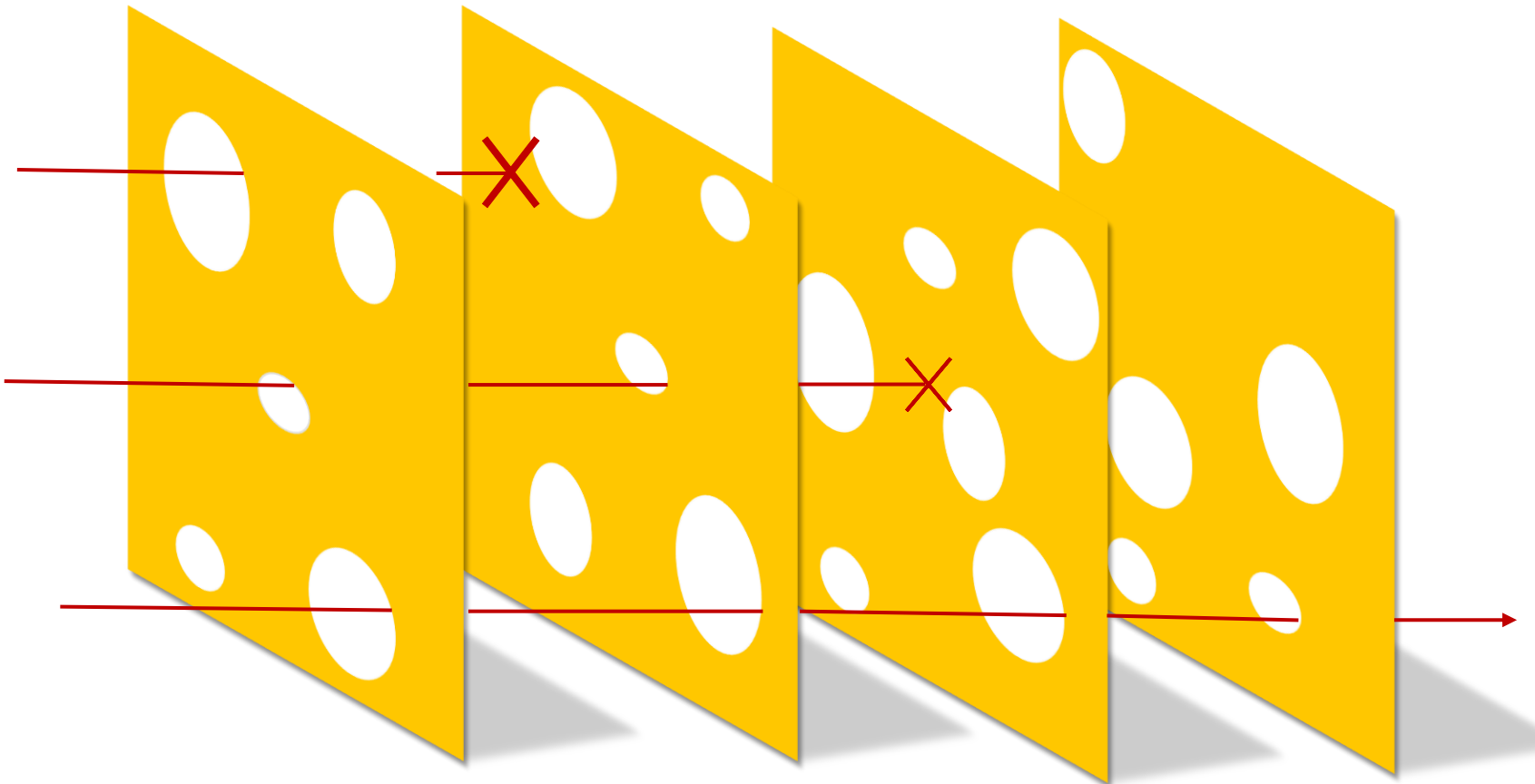
Aidan Baron
@Aidan_Baron



Human factors is my passion



Great processes
are as fallible as
the humans that
use them



Ventilator
Management

Pulmonary
Hygiene

Pulmonary
Function
Testing
& Assessments

Early
OOB/Mobility

Education

Staffing

Cohorted Units

Guidelines

Order Sets

Create a Culture of Safety



MULTIDISCIPLINARY
ROUNDS



SPECIALTY
COORDINATION



CREATE AWARENESS

Create a Culture of Safety



MULTIDISCIPLINARY
ROUNDS



SPECIALTY
COORDINATION



CREATE AWARENESS

CNS consult and population rounds

Focused assessment by respiratory therapy

Orders for MAP goals/bradycardia

Documentation

Celebrate wins

Not all quality shows up in the numbers

Portelli Tremont JN, Cook N, Murray LH, Udekwu PO, Motameni AT. Acute Traumatic Spinal Cord Injury: Implementation of a Multidisciplinary Care Pathway. *J Trauma Nurs.* 2022 Jul-Aug 01;29(4):218-224. doi: 10.1097/JTN.0000000000000664. PMID: 35802058.

Reason JT. *Human Error*. Cambridge, England: Cambridge University Press; 1990.

Wiegmann, Douglas A. PhD*; Wood, Laura J. MS*; Cohen, Tara N. PhD†; Shappell, Scott A. PhD‡. Understanding the “Swiss Cheese Model” and Its Application to Patient Safety. *Journal of Patient Safety* 18(2):p 119-123, March 2022. | DOI: 10.1097/PTS.0000000000000810