

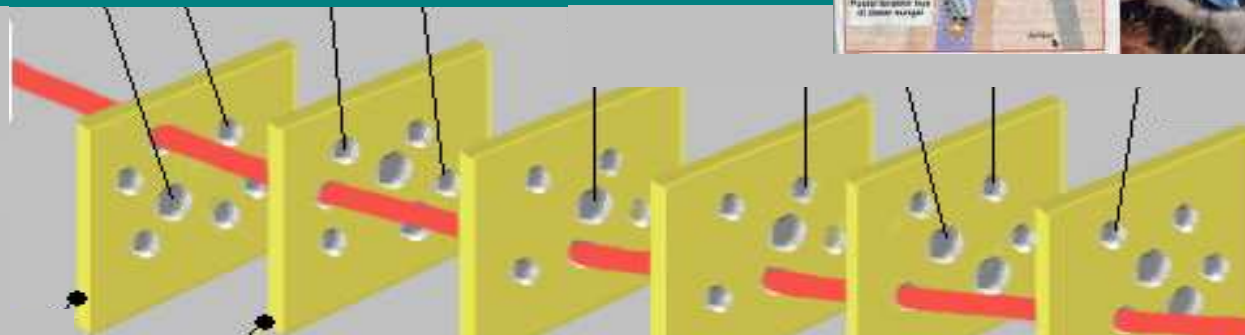
Multi-Causal Theory “Swiss Cheese” diagram (Reason, 1991)



**Menyetir
setelah hujan**

Karet seal minyak rem
merembes (sdh 1 bln)

Lupa, satu bulan tidak
menambah minyak



Terburu-buru,
jalan cepat
80 km/jam

**Ada kambing
nyebrang**

Banting stir

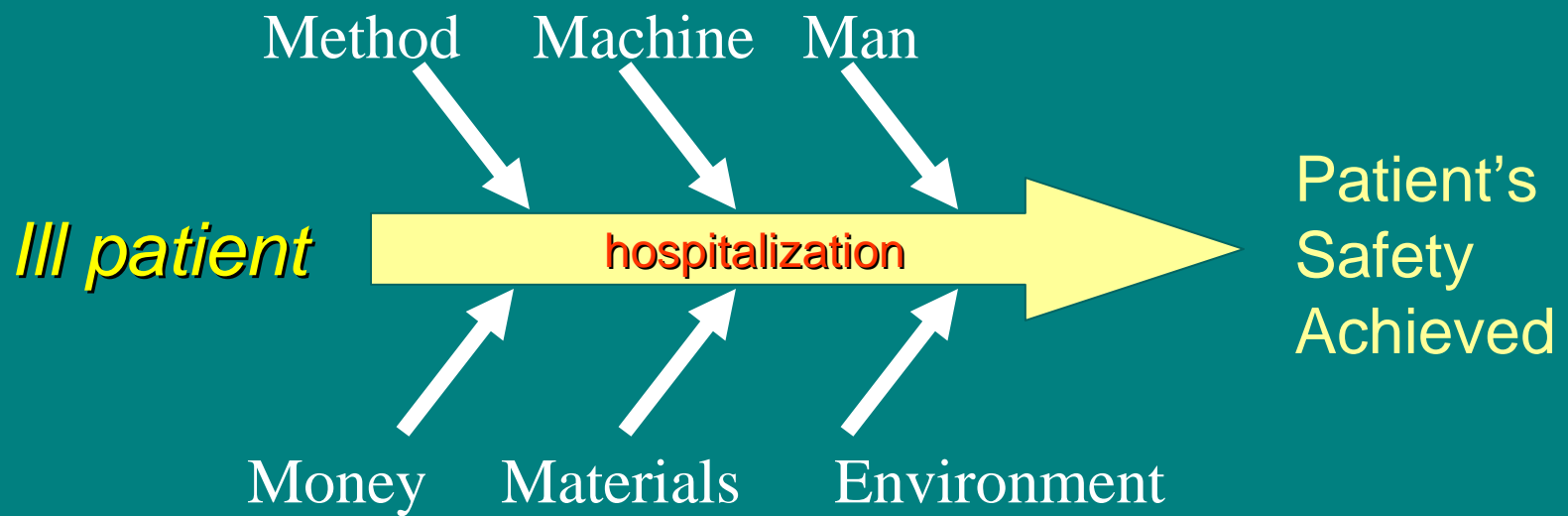
Jalan licin
kena hujan

**Tabrakan
maut**

Most Common Causes of Medical Errors

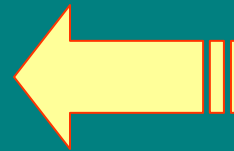
- 1. Communication problems**
- 2. Inadequate information flow**
- 3. Human problems**
- 4. Patient-related issues**
- 5. Organizational transfer of knowledge**
- 6. Staffing patterns/work flow**
- 7. Technical failures**
- 8. Inadequate policies and procedures**

AHRQ, December 2003.



Patient's safety is dependent on

- Good Man
- Good Machine
- Good Method
- Good Money
- Good Materials
- Good Environment



Standardize^s
every single thing

Patient's safety is dependent on

- Good Man^s
 - Good Machine^s
 - Good Method^s
 - Good Money^s
 - Good Materials^s
 - Good Environment^s
- Good Input patient
 - Age
 - Gender
 - Risk Factors
 - Allergy / hypersensitivity
 - Co-morbids
 - Co-medication
 - Hidden genetic anomaly