Hamid Zare

Middle-East JAM sterilization research inst.

STERILIZATION
RISK MANAGEMENT IN DEVELOPING COUNTRIES

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What means Developing country?

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If you be a Belgian and live in Iran

COMPARE

BELGIUM to IRAN

www.ifitweremyhome.com/compare/BE/IR

- die **9.03 years** sooner
- be **21.18% more** likely to be unemployed
- make **66.14% less** money
- be **9.3 times more** likely to die in infancy (more info)
- be **2.8 times more** likely to be in prison
- spend **89.59% less** money on health care
- be **2.7 times more** likely to be murdered
- use **69.51% less** electricity
- consume **65.8% less** oil
- experience **58.93% more** of a class divide
- be **equally** likely to have HIV/AIDS
- have **82.48% more** babies

What we should do?

Manage the risk

He

1.

2.

Risk

Ever

- A
- C

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How we tried?

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- Literature review
- Experimental research
- Observational research
- Survey research
- Case study
- Quantitative research

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Inadequate infrastructure:

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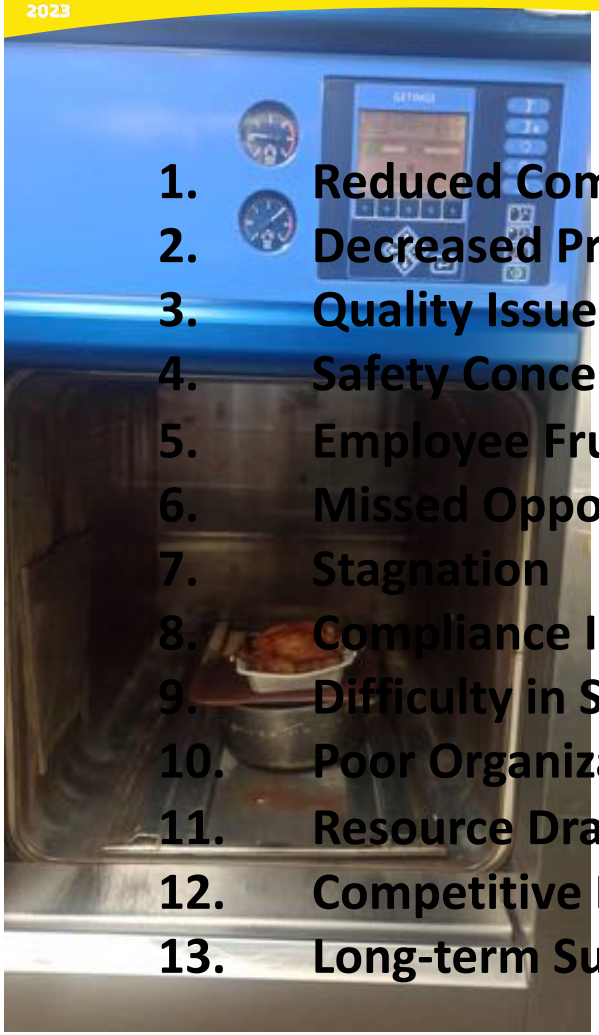
Limited access to quality equipment and supplies

Insufficient training and capacity-building



1. Reduced Competence
2. Decreased Productivity
3. Quality Issues
4. Safety Concerns
5. Employee Frustration
6. Missed Opportunities
7. Stagnation
8. Compliance Issues
9. Difficulty in Succession Planning
10. Poor Organizational Reputation
11. Resource Drain
12. Competitive Disadvantage
13. Long-term Sustainability

Economical situation

4000 €
3000 €
2000 €
1000 €
500 €
250 €

Do you think how much is a CSSD nurse net salary per month in Iran?

They can buy if they save for 5 month

Apple iPhone 15 Pro, 256 GB, Wit Titanium

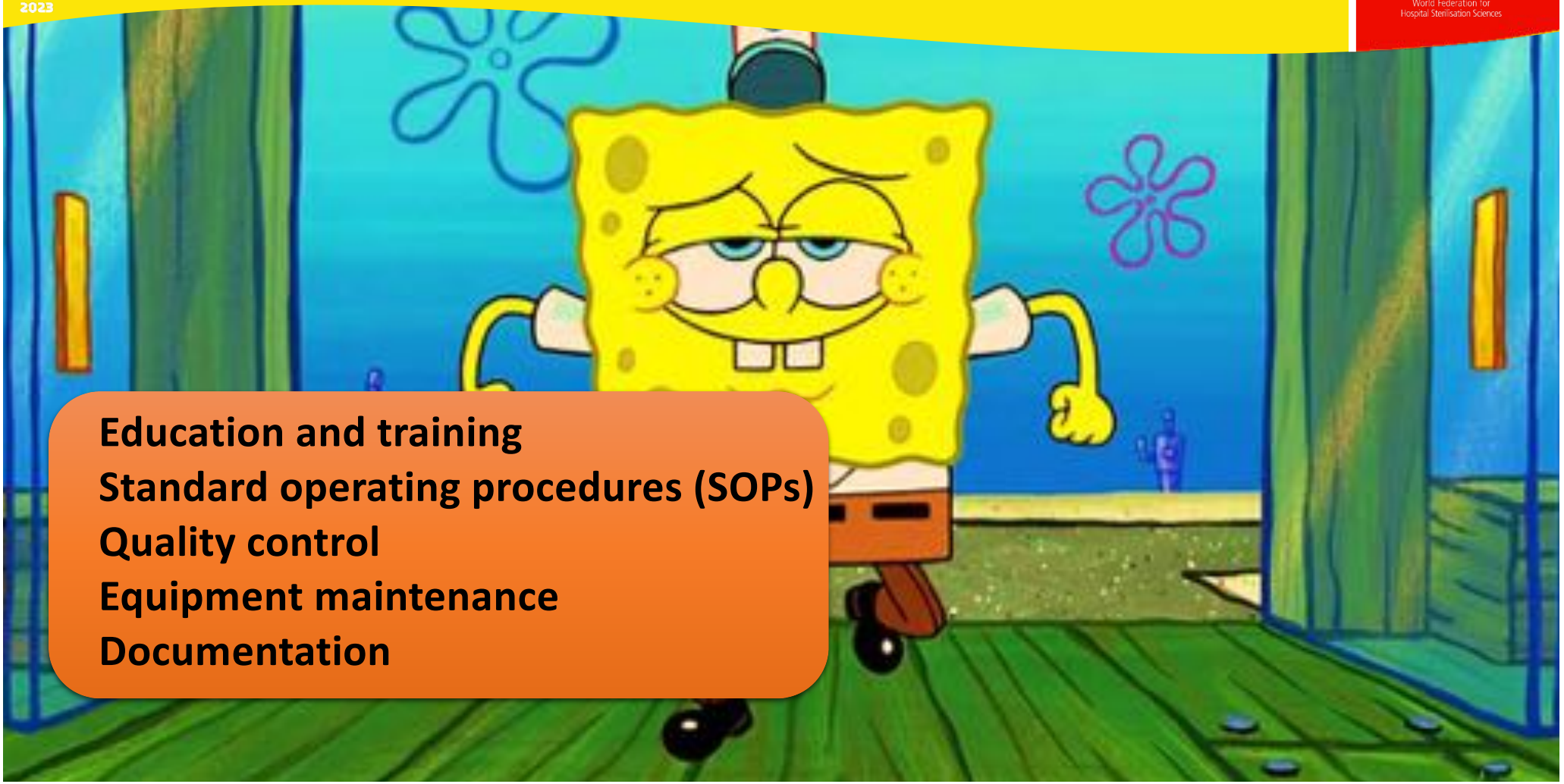
4,4 ★★★★½ 385

Smartphone · Dual SIM · 5G

€1,359.00

Apple

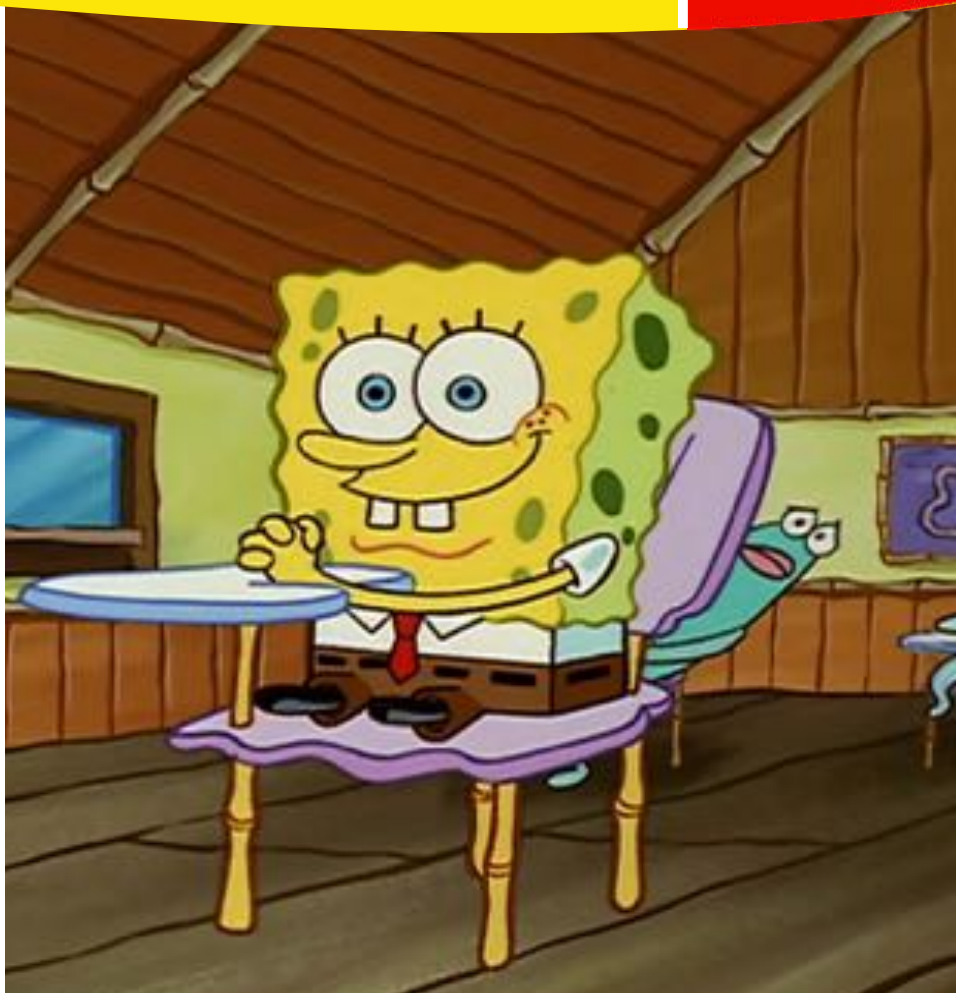
So, we should do?



- Education and training
- Standard operating procedures (SOPs)
- Quality control
- Equipment maintenance
- Documentation

Education and training

1. Formal Education by Medical universities
2. Informal Learning:
   - Self-Study
   - Mentorship
   - Workplace Learning
3. Local seminars and congresses
4. Hospitals internal courses
4. International congresses
5. Online learning as WFHSS training system
6. Companies trainings
7. Companies visit for CSSD staffs
8. Apprenticeships before being in CSSD
9. Community and Nonprofit Organizations
10. CSSD Visit tours by Hospitals
11. Specialized Training Centers



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Standard Operating Procedures (SOPs)

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1. Purpose and Importance
2. Documentation
3. Scope
4. Components
5. Development and Review
6. Training
7. Compliance and Enforcement
8. Version Control
9. Emergency and Safety Protocols
10. Continuous Improvement
11. Customization
12. Communication
13. Record Keeping
14. Auditing and Monitoring

Quality control

1. Quality Standards and Specifications
2. Inspection and Testing
3. Quality Assurance vs. Quality Control
4. Defect Identification and Rectification
5. Data Collection and Analysis
6. Documentation
7. Continuous Improvement Plan-Do-Check-Act
8. Cost Control
9. Customer Satisfaction
10. Regulatory Compliance
11. Training and Skill Development
12. Supplier Quality Control
13. Process Control
14. Quality Control Tools
15. Audit and Evaluation

Equipment maintenance

1. Types of Equipment Maintenance:
   - Preventive Maintenance (PM)
   - Predictive Maintenance (PdM)
   - Corrective Maintenance (CM)
   - Reliability-centered Maintenance (RCM)
2. Equipment Maintenance Tasks
3. Scheduling and Planning
6. Inventory and Spare Parts
7. Safety
8. Training and Skill Development
9. Documentation and Records
10. Asset Management Software
11. Emergency Repairs
12. Cost Management
13. Reliability and Availability
14. Lifecycle Management
15. Regulatory Compliance

We should know about Documentation

How to record

What to record

Importance of Record Keeping

- Legal and Compliance
- Historical Documentation
- Accountability
- Evidence
- Decision-Making
- Auditing and Reporting

How to use recorded data

Categorization and Organization

Backup method

Computer based data

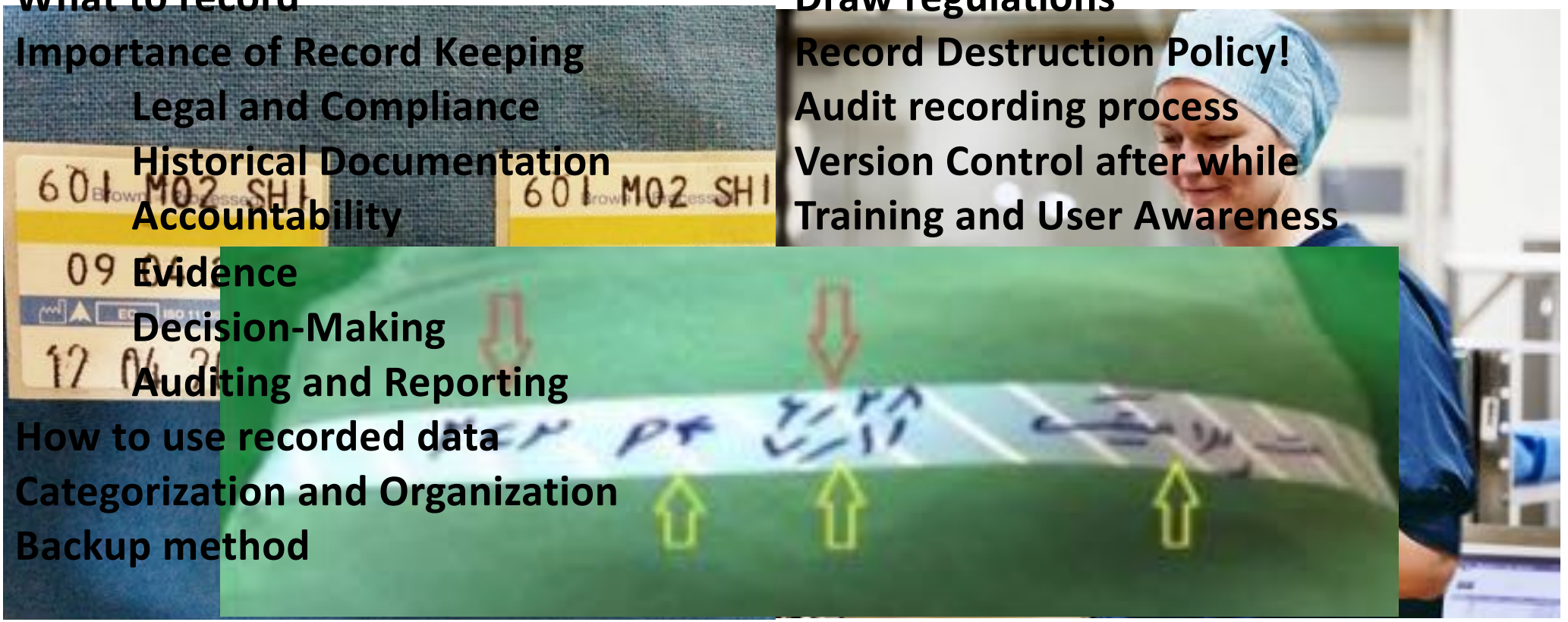
Draw regulations

Record Destruction Policy!

Audit recording process

Version Control after while

Training and User Awareness



We Never
Give Up
wfhs