

# Workshop Creating situational awareness with Crew Resource Management

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# Aim workshop:

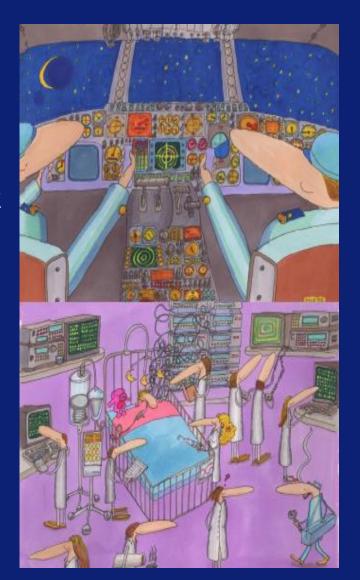


- Understanding CRM principles and teamwork training
- How to make teamwork training an ongoing process
- How to determine what is needed to improve teamwork

# **Crew Resource Management**



From the world of aviation
Insufficient communication and teamwork
among team members contributed to
causing incidents in 70% of cases
Awareness/training of team members a
significant improvement



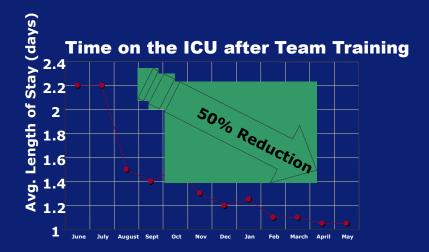


# "A Team of experts does not make an expert team"

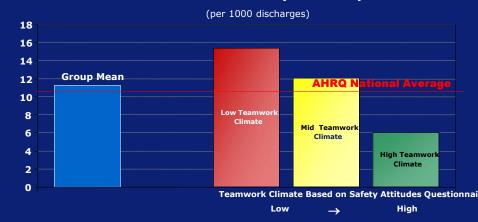
(Burke et al. 2004)

# **Teamtraining works!**

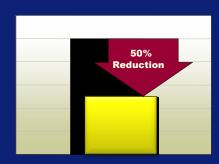




### **OR Teamwork Climate and Postoperative Sepsis Rates**



### **Adverse Outcomes**



### **Indemnity Experience**



### **Problems in healthcare:**



### Situations are:

- Sudden
- Unexpected
- Hazardous to the patient

## Contributing factors:

- Time constraints
- Stress
- Insecurity
- Team processes
- Organizational flaws



# What is needed to improve teamwork?



- Training (CRM, simulation)
- Knowledge of systems approach of errors (why do things go wrong?)
- Inventory of (near-)incidents and risks that threaten teamwork
- Using this info to select goals and devise improvement plans

# **Crew Resource Management**



What is it?

- with a view on integrated 'team situational awareness',
- as a basis for solid decision-making and well-considered coordination of efforts, and
- as part of the professional standard
- the ambition to reach <u>optimal exchange of information</u> between team members

# **Crew Resource Management**

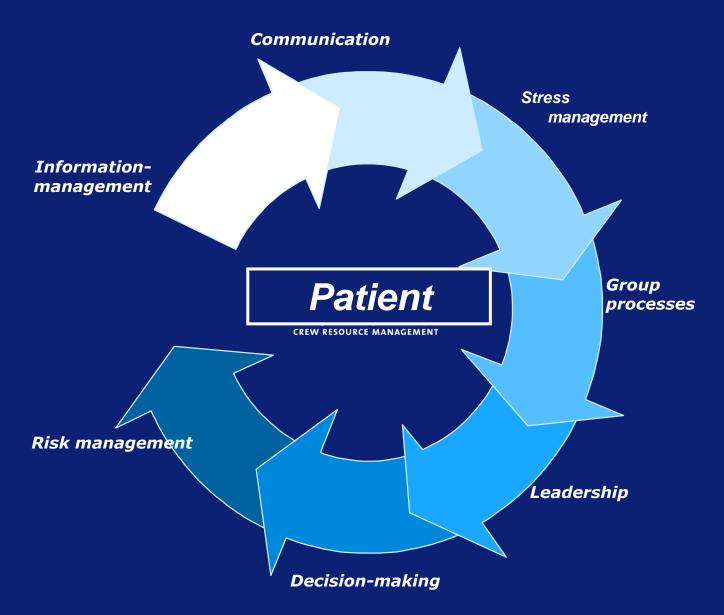


In practice:

The effective use of all available resources within the team and in the working environment (team members, equipment and ancillary facilities) that enables the team to work safely and efficiently...

# **Elements CRM- training:**





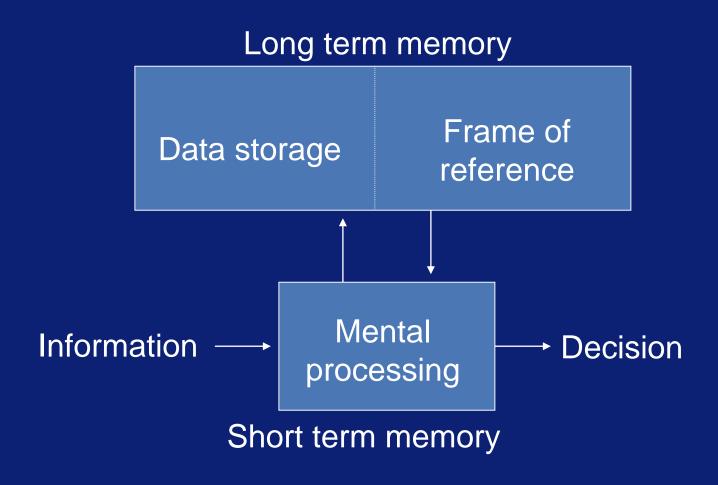
# Information management: situational awareness



Situational awareness is an interpretation of the world around us and is no more than a *MODEL* of reality: *NOT* reality itself! Thus there is always a risk of errors or lacunas!

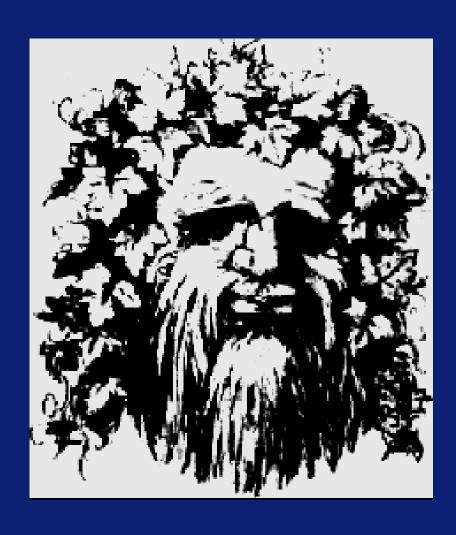
# Information management: situational awareness





# **Information processing:**





### **Effective communication**





- Effective communication is goal-oriented
- Within CRM: aimed at creating and maintaining (team) situational awareness and performing activities
- The basis for making the right decision in an unexpected situation

# **Stress management**



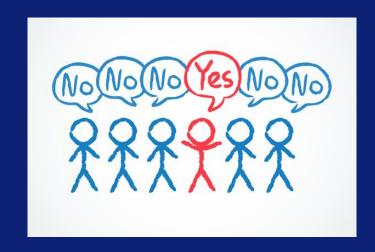
- Planning and preparation
- Compliance with protocols and checklists
- Team discussions
- Postpone unimportant things
- Be clear and honest
- If you have stress, please do tell!



# **Group processes**



- Becoming aware of the effects of being a group member on one's own behavior and that of others
- Recognizing group effects
- Recognizing/preventing group thinking



# Leadership



- Effective leadership
- Good followership
- Leadership models:
  - Situational leadership
  - Daily leadership
- Team leader tasks
- Personality and individual differences



# **Effective leadership**

Features of effective leadership

- Setting goals
- Steering of activities
- Supporting, motivating, stimulating
- Providing feedback
- Making decisions
- Considering task requirements, individual needs, and group needs



# **Decision-making**



How optimal decision-making is achieved

How decision-making proceeds under time pressure/stress

Recognizing risks for the decision-making process



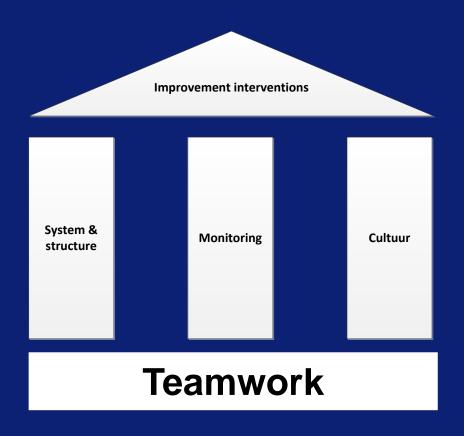
# Risk management



- Tailored for each department / unit / hospital
- Monitoring risks through:
  - Blame free reporting of (near-)incidents
  - Assessing protocol violations
  - Multidisciplinary meetings
  - Monitoring adverse events
- Stimulating information updates in reports, newsletters, etc.









## Who's in the team?

"What is the matter?"

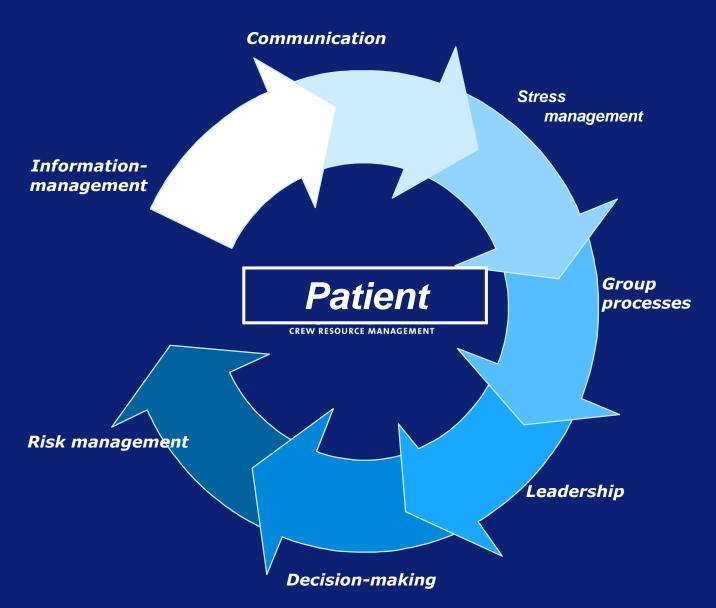


"What matters to you?"



# **Elements CRM- training:**





# Turn training activities into an ongoing process



- CRM basic training (2 days)
- CRM advanced training (every 2 years / 1day)
- Team simulation training (yearly / 1 day)

Safety Climate indicator: Safety Attitudes Questionnaire

# **Assignment**



For each table:

Organise your team

Identify CRM elements in "Just an oridnary day" (movie)

Write down 3 "tops" related to CRM items: what went extremely well? Write down 3 "tips": what should be improved/changed?

Come up with 3 recommendations to prevent this "never event"

# **Creating teams**



1. Choose one of the colored cards on your table

2. Search the table with that color

3. Organise your team

# **Assignment**



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# Plenary feedback



Top 3 recommendations:

Why?

How?

...

### recommendations



- standard operating procedures and guidelines (stressmanagement)
- ensuring valid and up-to-date training (teamtraining)
- effective communication (communication, decision making, leadership)
- medication safety ( 6 R's, TOP)
- patient engagement

# Thank you for your attention!



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