

Welcome to the ETS meeting! WADEM congress 2025 Tokyo, Japan

ETS会議へようこそ! WADEM学会 2025年 日本・東京

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Agenda

- Welcome, presentation
- News from ETS Competence center
- Group discussions
- ETS faculty Japan

ETS Competence center

- Jenny Pettersson, ETS Director
- Johan Hornwall, ETS Operational Manager
- Linda Bolin, ETS Development Manager
- Peter Berggren, ETS Scientific Manager

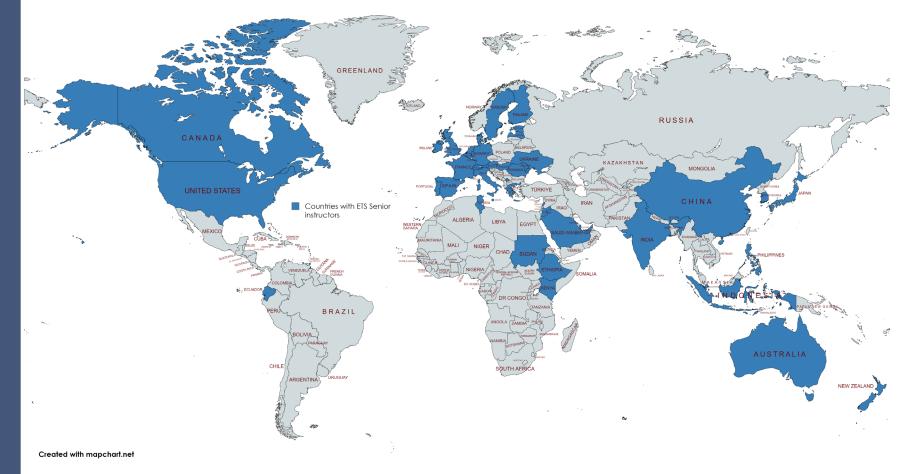
KMC – Center for Disaster Medicine and Traumatology

Presentation of participants

- Your name and country you are from
- How you use ETS
- Describe short your last exercise

ETS Educator faculties

Total number of certifed ETS Senior instructors are 3 140* from 49 nationalities



ETS Educator faculties

Total number of certifed ETS Educators are 147* in 13 Educator faculties





ETS Humanitarian set – International Committee of the Red Cross ICRC

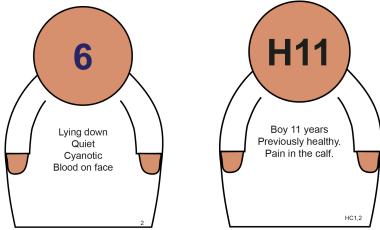
- 31 ETS Senior instructors
- Use ETS in trainings and exercises, for ex Mass Casualty Incident Trainings, testing mass casualty plans, triage, communication etc.
- Use ETS in ICRC projects in for ex. Lebanon, Syria, Ukraine, Nigeria, Yemen, Somalia, Iraq, Venezuela, Pakistan

ETS Humanitarian set

- Developed together with ICRC an ETS Humanitarian set to improve preparedness, capacity and health care personel safety in mass casualty events in humanitarian crisis
- Designed for humanitarian context and low/middle income countries
- Easy to bring/transport
- Customized for low/middle income countries
- Tested with health care personel in conflict areas
- Patients from the already existing ETS ver 4 victim banks

ETS Humanitarian set

 A mix of patients from the already existing ETS ver 4 trauma victim banks – penetrating trauma, burn, pediatric trauma, bomb/blast and in-hospital patient sets

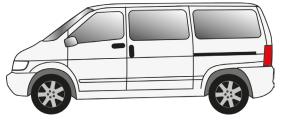


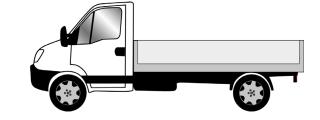
ETS Humanitarian set

• Customized recourses, staff and signs











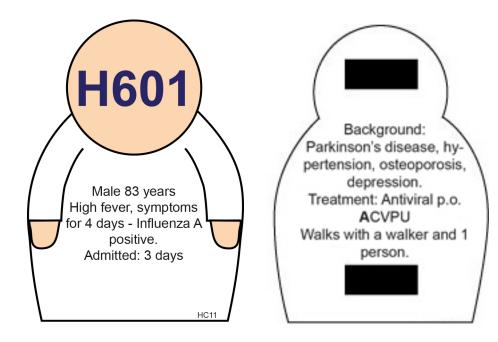




ETS Hospital wards

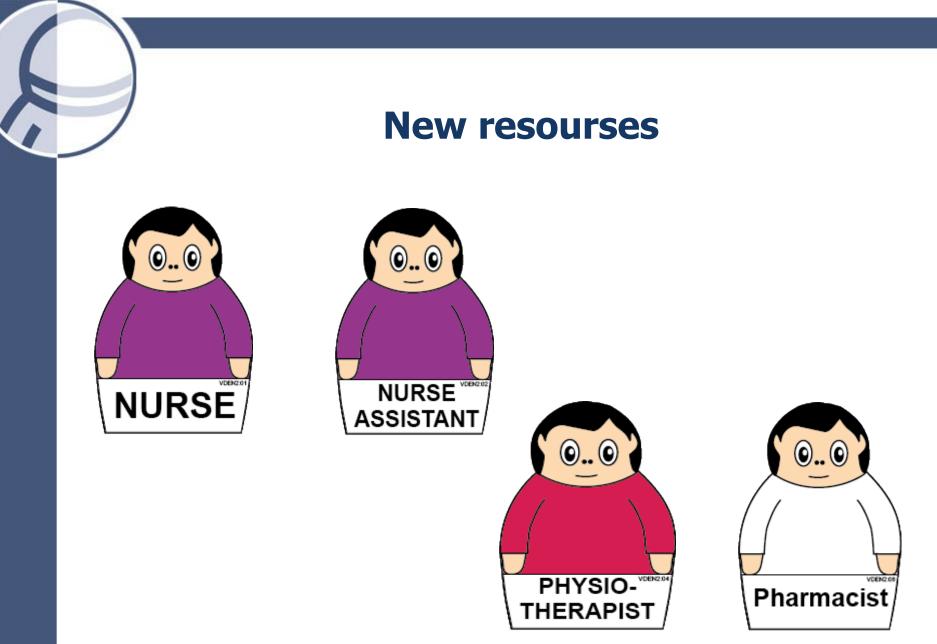
- 100 patients in total
- 50 medicine patients
- 25 orthopedic patients
- 25 surgery patients

Patient H600-H700



Questions & answers

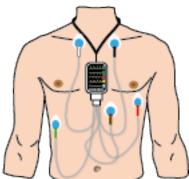
Patient and Background	Cat	Latest NEWS	Test results	Activities
H601	HC11	RR: 18	Initial CRP; 120	Walks with a walker
High fever,		<u>SpO₂</u> : 98 %	mg/L,	and 1 person
influenza A		Supplemental oxygen: 0	CRP day: 3; 45 mg/L	Restrictions for
positive,		Systolic blood pressure:		Transfer: Isolated
symptoms for 4		140		
days. Admitted: 3		Pulse rate: 80 bpm		
days		Level of consciousness:		
		Alert		
		Temperature; 37,6		
		Points: 0		







TELEMETRY MONITORING



OXYGEN



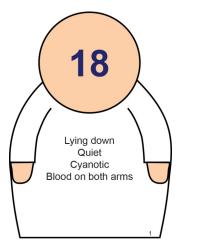


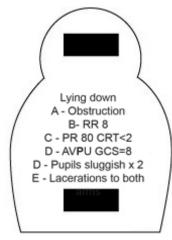
BILEVEL



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Trauma victim bank





18 EMERGENCY DEPARTMENT	7	SURGERY	DEPARTMENT
Female ca 20 years unidentified	Extern	al fixation + woun	d excision.
Unkown.			
Finding / Intervention			
Airway: Obstruction / Intubation			
Breathing: RR 8 Breath sounds normal			
SpO2 92% / Intubation			
Circulation: HR 80 BP 90/55 Temp 35,5 CRT<2			Time: 2 hours
Lacerations to both arms. Heart sounds normal /	F	POST OP	ICU
Disability: GCS=9 PERL sluggish x 2/size nor-		vation, analgesia.	
mal Not moving extremities x 4		, 0	
Exposure: Lacerations both arms / Cleaning,			
sterile dressing			
CT/X-ray: CT Frontal contusions /			
ED: 40 min CT/X-ray: 20 min		Time: 3 hours	Time:

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In-hospital patientbank Emergency department

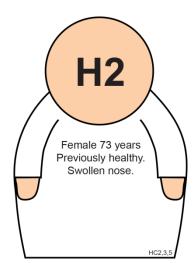


QUESTIONS AND ANSWERS IN-HOSPITAL PATIENTS H1-H50 EMERGENCY DEPARTMENT									
Patient	CT/X-ray finding	CT/X-ray intervention	CT/X-ray time	Surgery	Surgery time	Post-op	Post-op time	ICU	ICU time
H1 Not applicable.									
H2	CT Nose fracture	To surgery	20 min	Reposition, general anesthesia.	30 min	Observation, analgesia	4 hours		
Н3	CT Tumor metasthasis is compressing lumbar spine	Second opinion neurosuregeon: to surgery	20 min	Decompressing lumbar spine, general anesthesia.	4 hours	Observation, analgesia	18 hours		
H4	X-ray No finding	Elastic support bandage to physiotherapist.	10 min						
H5	CT No pathological finding		20 min						
H6	X-ray No finding	Elastic support bandage to physiotherapist.	10 min						
H7								Cardiac ICU	1 week
H8	Not applicable.								
Н9	CT Pelvospondylit	To reumatological ward	20 min						
H10	CT No pathological finding		20 min						
H11	X-ray Normal.	Elastic support bandage, home	10 min						
H12	Not applicable.								
H13	Not applicable.								
H14	X-ray Non-displaced radius fracture	Cast, home.	10 min						

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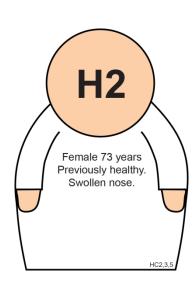


In-hospital patientbank Emergency department

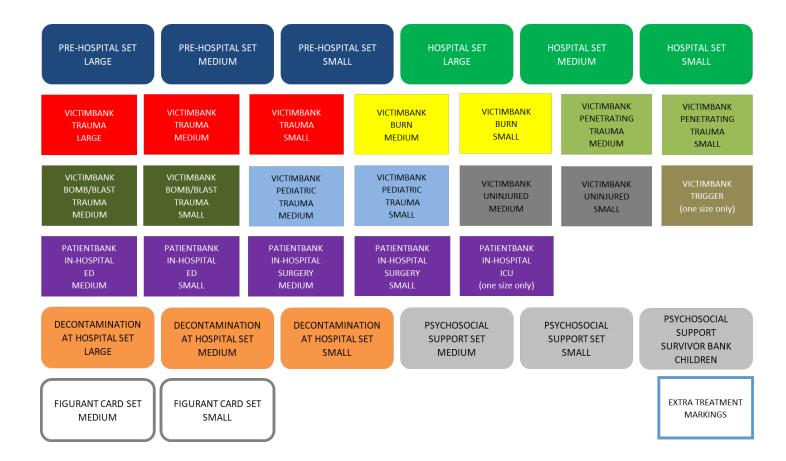


EVALUATION IN-HOSPITAL PATIENTS H1-H100 EMERGENCY DEPARTMENT

Patient	Home (HC1)	Home, return to ED in 8 hours (HC2)	Admitted to ward (HC3)	Admitted to ICU/Postop/ Cardias ICU (HC4)	Remains on ED (HC5)
H1	ОК	ОК	Overutilised	Overutilised	Overutilised
H2	Health risk	ОК	ОК	Overutilised	OK
H3	Health risk	ОК	ОК	Overutilised	Overutilised
H4	Health risk	ОК	Overutilised	Overutilised	Overutilised
H5	Health risk	ОК	ОК	Overutilised	OK
H6	Health risk	ОК	Overutilised	Overutilised	Overutilised
H7	Health risk	Health risk	ОК	ОК	Overutilised
H8	Health risk	Health risk	ОК	Overutilised	Overutilised
H9	Health risk	Health risk	ОК	Overutilised	OK
H10	Health risk	ОК	Overutilised	Overutilised	Overutilised



ETS training material version 4



Contact us for further information! Telephone: +46-10-103 7490 E-mail: info@emergotrain.com www.emergotrain.com

Research

The effects of learning during Swedish naval training: a quantitative study of simulation-based exercises—a case study

1. Hindorf, M., Liif, E., Berggren, P., Jonson, C.-O., Lundberg, L., & Jonsson, A. (2024). The effects of learning during Swedish naval training: a quantitative study of simulation-based exercises. *Journal of Defense Modeling and Simulation*. <u>https://doi.org/10.1177/15485129241288241</u>

Decision-making during training of a Swedish navy command and control team: a quantitative study of workload effects

2. Hindorf, M., Bäckström, D., Jonson, C.-O., Jonsson, A., & Berggren, P. (2024). Decisionmaking during training of a Swedish navy command and control team: a quantitative study of workload effects. Cognitive Processing. <u>https://doi.org/10.1007/s10339-024-01242-9</u>

Main findings article 1

- Low-Fidelity Training Can Be as Effective as High-Fidelity Training in Perceived Learning
- Subjective Measures Are Useful in Evaluating Complex Team-Based Learning
- Simulation-Based Training Reinforces Real-World Procedures and Builds Operational Confidence

Main findings article 2

- Comparable Overall Workload in Lowand High-Fidelity Simulations
- Higher Combat Readiness Perceived in High-Fidelity Settings
- Low-Fidelity Settings Induced Higher Mental Demand (and stress) compared to High-Fidelity Settings

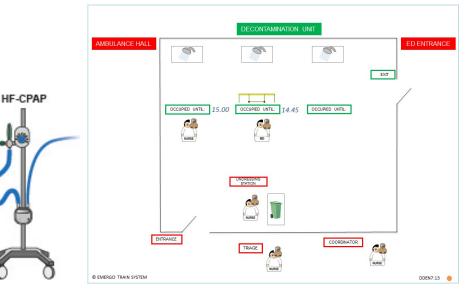
News from ETS Competence center

Decontamination at hospital set ver 4

- Victim bank with patients contaminated with
 - irritant gases (ammonia)
 - cyanide
 - nerve agents (Sarin)







News from ETS Competence center



New interventions

Revised and updated patient outcome

Activities in the decontamination zone

(Time is based on experienced staff under optimal conditions)

Measure	Sticker	Staff needed	Time/staff
Put on hazmat suite		2	15 min
Check hazmat suite	OK	1	1 min
Instructions to patients associated with showering, belongings and valuables + bagging and tagging	Ĺ	1	5 min
Undressing, patient walking	TR	1	5 min
Undressing, patient lying down	TR	2	5 min
Decontamination, patient walking	Sill	1	10 min
Decontamination, patient lying down	S	2-3	15 min
Decontamination and removal of hazmat suite	-	2	15 min

Treatment in the decontamination zone

(Time is based on experienced staff under optimal conditions)

Measure	Sticker	Time			
Endotracheal intubation: Conscious		7			
Endotracheal intubation: Unconscious	P	3			
Inhaler	2	2			
Nebulizer		2			
Antidote	1	2			

Instructions group discussion

- Discuss in groups
- Each group will present their conclusion

Group discussion

Are you confident to hold exercises with ETS after you participated in the ETS Senior instructor course?

If yes, what are the strengths? If no, what is missing?

Group discussion

What characterizes a "good" ETS Senior instructor?

Future developments training material

- Primary care set?
- Elderly trauma bank
- Elderly care bank (UK)
- Stabbing patients of school age (lots of stabbings at schools in the UK)
- Psychiatric in-hospital patients (UK)
- Multiple trauma victim bank
- More in-hospital wards patients (cardiac, oncology, dialysis, infection)



Thanks for your input!

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