CURRENT STATUS OF MEDICAL TRAINING IN MOUTAIN RESCUE

Evaluation of Medical Training in ICAR Member Organizations by ICAR MEDCOM 2007

Authors:

F.Elsensohn, M. Swangard, T. Niederklapfer, J. Ellerton, H.Brugger, P.Paal











Special Situations in Mountain Rescue Reduce Outcome

Environment:

snow, cold, rain

Terrain:

Steep terrain, rocks, forests, canyons

Avalanches

Organization:

Reduced but heavy equipment Long response time Limited medical training

Long access and evacuation time











dents of Emergenci in the Mountains

Mountaineering accidents in the European Alps have the numbers increased in recent years? Lischke et al. 2001 Number of accidents increasing, fatalities stagnating

The Scottish mountain rescue casualty study. Hearns, 2003 Need for interroyed training research, and equipment

No world-wide data





Activity	injured	dead	
Pist and Skiroutes	3925	42	ANY SALES
Hiking and Climbing	793	132	The second
Lift-accidents	283	1	and the second second
Off pist skiing	208	11	
Mountain biking	229	3	A A A A A A A A A A A A A A A A A A A
Rock climbing	164	17	Medical Emergenci
Paraglinging/Hangliding	152	18	
Back-country skiing	120	17	in the Nountains
Sleding	90	1	Austria 2007
High Mountain climbing	46	6	
Hunting	14	6	(Kuratorium f. Alpine Sicherheit 2008)
Cross country skiing	17	3	
Canyoning	16	1	
Adventure parks	9	0	A lost marched
Ice climbing	6	1	11/
Cave accidents	2	0	Mar - I
Atypical mountain accidents	316	70	
Summary	6390	329	





Survey about Medical Training in Mountain Rescue in America and Europe

33 Organizations from18 countries

17 chapters with about 90 questions

Main topics:

Contents of medical training and retraining

Duration of training and retraining

Qualification of instructors, methods of training

Payments and funding





Country	Mountain Reso	ue Services							
Argentina	Club Andino Ba	riloche							
Austria	Österreichische	r Bergrettungs	dienst			Christ	toph	orus Flugrettung	
Bosnia Herzegovina	Gorska Sluzba	Spasavawja							
Bulgaria	Bulgarian Moun	tain Rescue S	ervice						
Canada	Parks Canada	Ski Patrol- A	tlantic V	Vest Division	Sk	ki Patrol	l- Pr	ince George Zon	e North Shore Rescue
Czech Republic	Horska Sluzba	L Ceske Republi	iky						
Germany	Bergwacht Baye	ern							
Greece	Hellenic Rescue	e Team							
Italy	Bergrettungsdie	nst im AVS		CNSAS		CNSA	AS A	lto Adige	
Liechtenstein	Bergrettung Lie	chtenstein		•					
Norway	Norsk Folkjehel	p :	Suolvae	erAlpine Rednir	ngsri	uppe		Norske Redning	shunder
Poland	Polish Mountain	Rescue							
Slovenia	Gorska Rezeva	Ina Zveza Slov	/enije						
Spain	Guardia Civil		Ser	Servei de Rescat a Pistes					
Sweden	Swedish Mount	ain Rescue	Swe	Swedish Police		Swedish Ski Lift Areas C		dish Ski Lift Area	s Organization
Switzerland	Air Zermatt		Alpi	ne Rettung Scl	hwei	iz k	KWF	RO F	EGA
United Kingdom	MRC (England/	Wales)	Μοι	untain Rescue	Cou	ncil Sco	otlan	d	
USA	United States M	Iountain Resci	Je						8





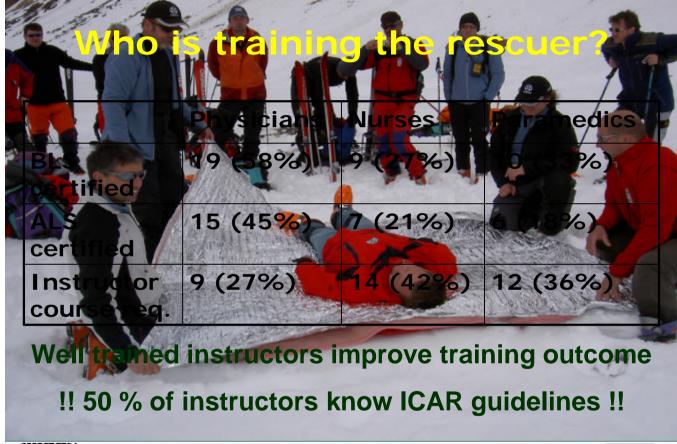
Who is training the rescuer?

The own organization: 24 (73%)Augmentation by External instructors: 15 (45%)BLS18 (55%)Trauma16 (49%)intern.Med.12 (36%)

Standardized Medical training: 22 (67%) !!!





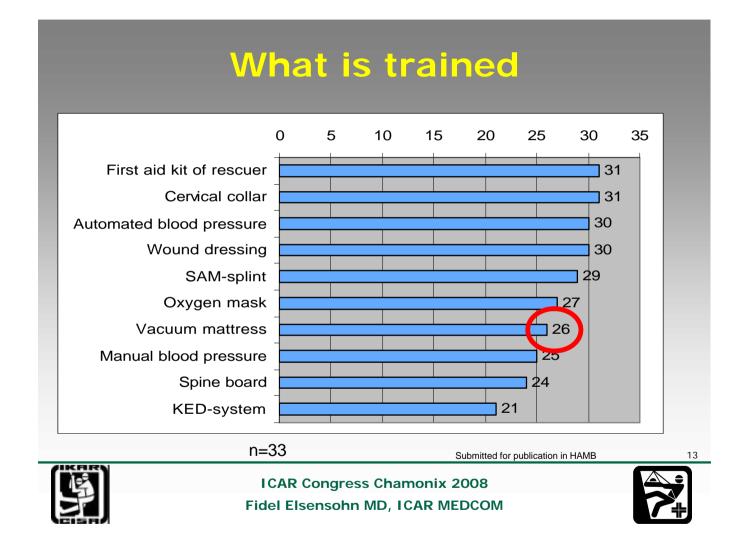


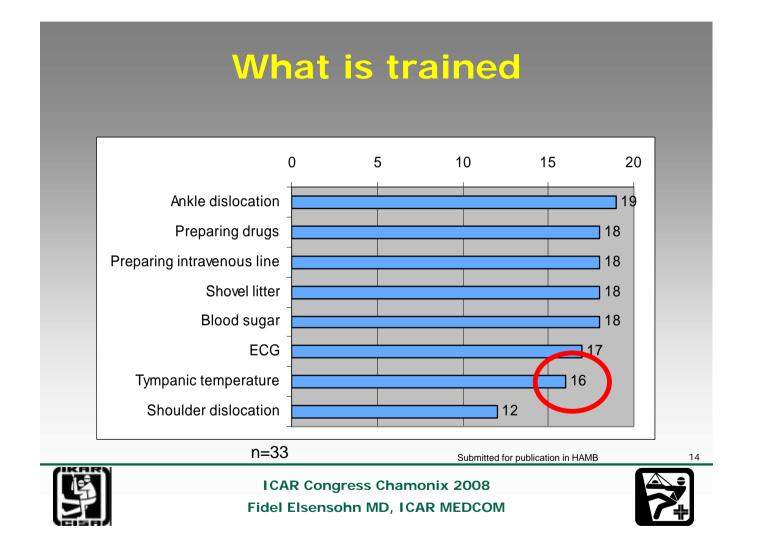


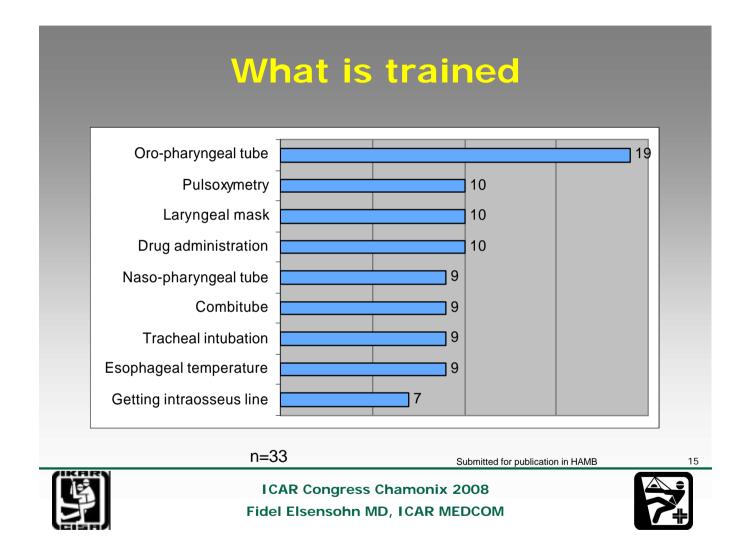


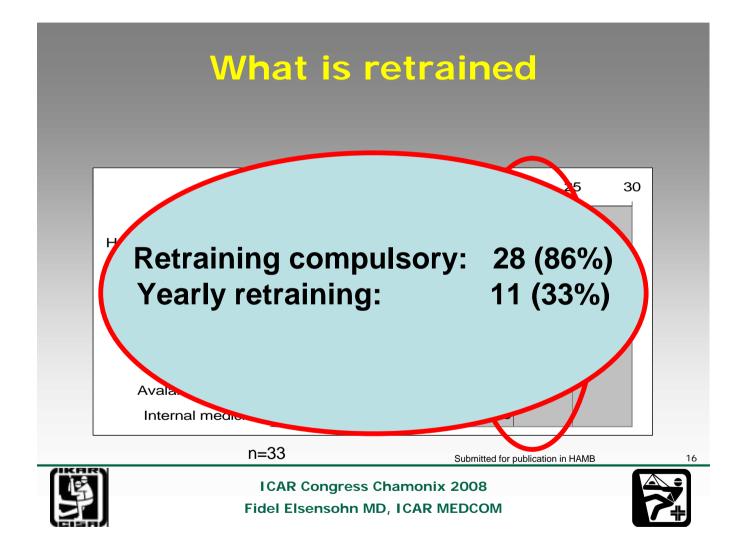


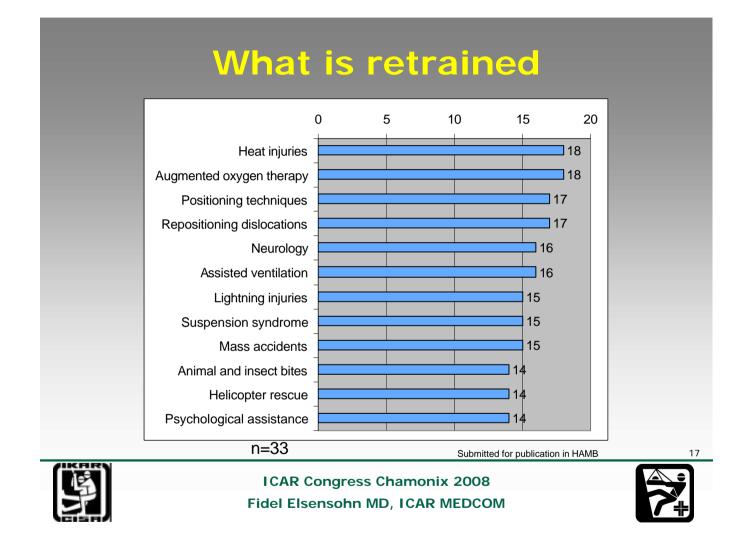


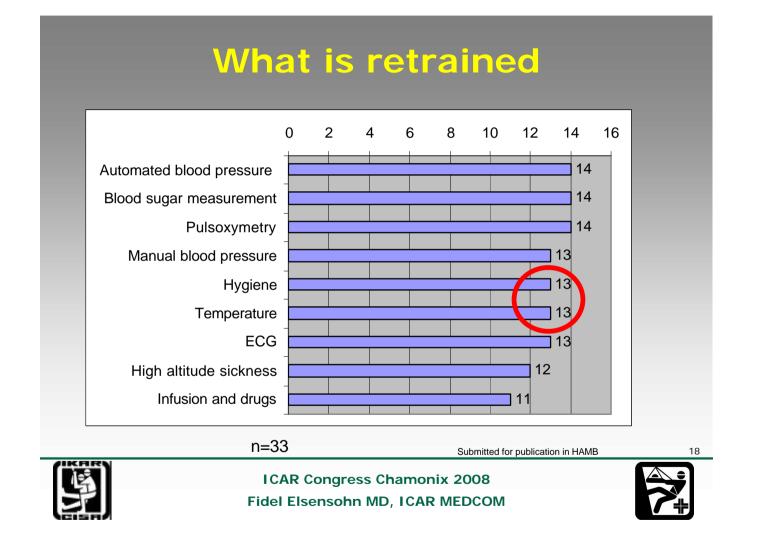






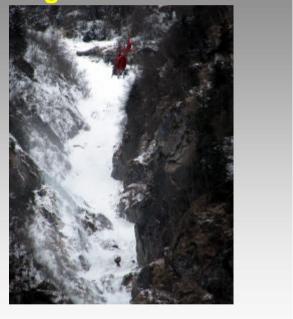






Are there compulsory requirements in the medical training?

the second se	
Yes	20 (60%)
No	12 (36%)
Defined by law	6 (18%)
No	18 (54%)
Partially (for higher stages)	6 (18%)







DURATION OF MEDICAL TRAINING

- ✓ WIDE VARIETY FROM 10 TO 500 HOURS
- MOST ORGANIZATIONS HAVE DIFFERENT STAGES OF TRAINING
- STAGES HAVE DIFFERENT DUTIES IN MOUNTAIN RESCUE
- STAGES ARE NOT COMPARABLE BETWEEN DIFFERENT ORGANIZATIONS













1 Hearns et al. 2005; 2 Gottschalk et al. 2002; 3 Elsensohn et al. 2006 4 Hamilton et al. 1996; 5.Hearns et al. 2006; 6 Margolis et al. 2008; 7 Eisenburger et al.1999, 8 Paal et al. 2007





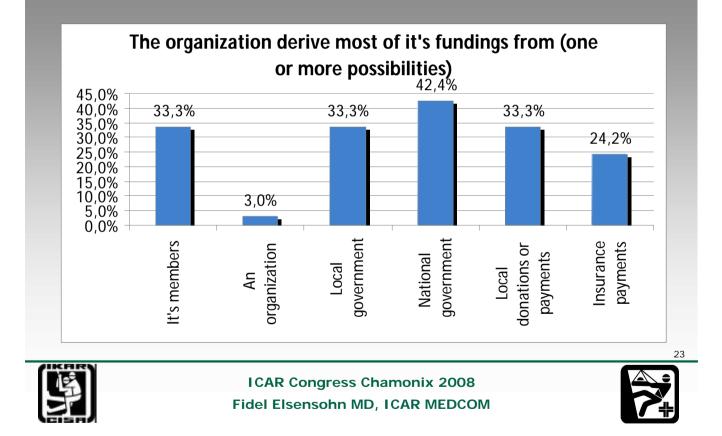
PAYMENTS AND FUNDING

RECEIVE PAYMENTS FOR	SELF %	ORGAN IZATION %	GOVERN MENT %
instructors course	18	51	12
First responder course	24	70	12
Rescuers equipment	21	76	9
	Yes %	No %	nA %
Rescue time	40	60	0
Training time	24	72	3
Instructors	51	42	6
Funding is adequate	60	40	
Need to change funding	25	60	5
Need to change training	60	35	5
Need to increase training	75	20	5





PAYMENTS AND FUNDING





MEDICAL TRAINING

 COMPULSORY AND STANDARDIZED
NCLUDE LIFESAVING TOPICS
TAILORED TO THE AREA
PERFORMED BY HIGLY QUALIFIED INSTRUCTORS
INCLUDE MEDICAL EQUIPMENT
SKILLS SHOULD BE EXAMINATED





CONCLUSION

MEDICAL RETRAININ

COMPULSORY AND STANDARDIZED ON A YEARLY BASIS FOCUSED ON LIFESAVING TOPICS ADAPTED TO THE DIFFERENT STAGES SKILLS SHOULD BE EXAMINATED





CONCLUSION

FUNDING SHOULD BE INCREASED TO MEET HIGHER STANDARDS

AINING SHOULD BE STANDARDIZED BY MOUNTAIN RESCUE ORGANIZATIONS

NATIONAL OR INTERNATIONAL NORMS SHOULD NOT LIMIT MEDICAL TRAINING



