Supplementary

Which non-pharmacological measures are used in the department?	Total doctors
Distraction	16 (44%)
Soap bubbles	2 (6%)
Teddy bears	7 (19%)
Toys	9 (25%)
iPads	10 (28%)
VR glasses	3 (8%)
Parents	7 (19%)
Coping strategies	4 (11%)
Positioning	7 (19%)
Sucrose	4 (11%)
Cold compress	5 (14%)
Colleagues (nurses, other doctors, hospital clown)	3 (8%)
Calm and trustworthy demeanour	4 (11%)

Table 1: List of non-pharmacological methods that doctors mentioned they used in the EDs.

Question: Who do you call for help?	Total	
Anaesthetist	6 (17%)	
Paediatrician	17 (47%)	
ED senior doctor	8 (22%)	
Orthopaedic surgeon	1 (3%)	

Table 2: List of who the doctors contact when they need help treating children in pain.

	Junior doctors				
Questions	To great extent	To some extent	To lesser extent	Not at all	Total
Are you using guidelines to treat children?	3 (19%) (95% CI [6:47])	3 (19%) (95% CI [6:47])	4 (25%) (95% CI [9:53])	6 (38%) (95% CI [17:64])	16 (94%)
Is the guideline sufficient?	5 (63%) (95% CI [23:90])	3 (38%) (95% CI [10:77])	0 (0%)	0 (0%)	8 (47%)
Do you use pain assessment?	3 (18%) (95% CI [5:45])	6 (35%) (95% CI [16:62])	3 (18%) (95% CI [5:45])	5 (29%) (95% CI [12:56])	17 (100%)
Inclination to use opioids on children compared to adults?	5 (31%) (95% CI [13:59])	3 (19%) (95% CI [6:47])	6 (38%) (95% CI [17:64])	2 (13%) (95% CI [3:42])	16 (94%)
Competence to treat children in pain?	2 (12%) (95% CI [3:40])	13 (76%) (95% CI [49:92])	2 (12%) (95% CI [3:40])	0 (0%)	17 (100%)

Table 3: The junior doctors' replies to questions regarding usage of guidelines and the management of children in pain in the EDs. The result is presented as an actual number, percentage distribution, and a confidence interval.

	Senior doctors					
Questions	To great extent	To some extent	To lesser extent	Not at all	Total	P- value
Are you using guidelines to treat children?	5 (28%) (95% CI [11:54])	7 (39%) (95% CI [19:64])	4 (22%) (95% CI [8:49])	2 (11%) (95% CI [3:38])	18 (95%)	0.262
Is the guideline sufficient?	7 (47%) (95% CI [22:73])	3 (20%) (95% CI [6:50])	4 (27%) (95% CI [9:56])	1 (7%) (95% CI [1:40])	15 (80%)	0.317
Do you use pain assessment?	1 (6%) (95% CI [6:47])	2 (11%) (95% CI [3:38])	11 (61%) (95% CI [36:81])	4 (22%) (95% CI [8:49])	17 (95%)	0.054
Inclination to use opioids on children compared to adults?	1 (5%) (95% CI [1:32])	4 (21%) (95% CI [8:47])	3 (16%) (95% CI [5:41])	11 (58%) (95% CI [34:78])	19 (100%)	0.020
Competence to treat children in pain?	7 (37%) (95% CI [18:61])	10 (53%) (95% CI [30:74])	2 (11%) (95% CI [2:36])	0 (0%)	19 (100%)	0.216

Table 4: The senior doctors' replies to questions regarding usage of guidelines and the management of children in pain in the EDs. The result is presented as an actual number, percentage distribution, and with a confidence interval.

Questionnaire

The questionnaire was developed by a group experienced in pain treatment of children. The questionnaire vas pilot tested by three doctors with varying levels of expertise all working in an ED were asked whether the questions were understandable, if they had anything to add to the content or phrasing, and whether they had any comments at all. All inputs were discussed in the group, and where relevant, the structured questionnaire was rephrased.

After permission from the executive consultant for each ED, the attending ED doctors were contacted by phone at random geography and shifts.

Questionnaire first version

First section - intro	Sauction	
Date: /	_/:	Interviewer:
Hospital:		Department:
☐ Verbal consent tha	at the answers can be use	d anonymously in this investigation
Position:		
Second section - c	hildren	
1. Are children l	being treated in the emer	gency department (ED)?
	Yes	No
2. Have you trea	ated children in the ED?	
	Yes	No
3. Have you bee	en educated in pain treatr	ment for children?
	Yes	No

4.	. Have you been introduced to a guideline for pain treatment for children?						
	Yes	5	No				
Third	section – guidelines						
5.	5. Are you familiar with the local guideline for acute pain treatment of children?						
	Yes	5	No				
6.	Can you locate the guideli	ne?					
	Yes	5	No				
7.	Do you use a guideline wh	en treating pain in chilo	dren?				
	To a great extent	To some extent	To a lesser extent	Not at all			
8.	What is the name of the g	uideline you are using?					
_							
9.		igh to provide you with	the precautions to handle p	ain treatment for			
	children?	To some output	To a leason out and	Nick of all			
	To a great extent	To some extent	To a lesser extent	Not at all			
	Ц	Ц	Ц				
Fourt	n section —pain treatme	n†					
	. Do you use pain assessme						
10	Every time	Usually	Sometimes	Never			
		Osually					
	Ц	Ц	Ц	Ш			
11	. Are you less inclined to giv	ve aniaids to children w	ith a dislocated fracture?				
	To a great extent	To some extent	To a lesser extent	Not at all			
12	. Do you know any non-pha	rmacological methods i	used in the department?				

	Ye	S	No	
		1		
3.	Which are used?			
	Do you often experience	that parents demand pa	inkillers for their child?	
	Every time	Usually	Sometimes	Never
5.	Do you include the paren	ts in the pain treatment	?	
	Ex. Through distraction, p	ositioning, or to help inf	form the child of the pain tr	eatment?
	Every time	Usually	Sometimes	Never
	Who do you call when yo Are you, in general, satisf To a great extent		ldren's pain? nent of children in the depa To a lesser extent	rtment? Not at all
8.	Are you competent to ha	ndle treating pain in chil To some extent	dren? To a lesser extent	Not at all

Questionnaire final version

First section - in	troduction	
Date:/	/:::	Interviewer:
Hospital:	[Department:
☐ Verbal consent t	that the answers can be used and	onymously in this investigation
Position:		
Second section -	children	
1. Are childre	en being treated in the emergenc	y department (ED)?
	Yes	No
2. Have you t	reated children in the ED?	
	Yes	No
3. Have you r	eceived any education from you	r department in pain treatment for children?
	Yes	No
4. Have you b	peen introduced to a guideline in	your department regarding pain treatment for children?
	Yes	No
Third section – g	guidelines	
5. Are you far	miliar with the local guideline for	acute pain treatment for children?
	Yes	No
6. Can you lo	cate the guideline?	
	Yes	No

7.	'. Do you use a guideline when treating pain in children?							
	To a great extent	To some extent	To a lesser extent	Not at all				
8.	What is the name of the gu	uideline you are using?						
9.	Is the guideline sufficient t children?	o provide you with the	precautions to handle pain	treatment for				
	To a great extent	To some extent	To a lesser extent	Not at all				
Fourth	section —pain treatmer	nt						
10.	Do you use pain assessmen	nt for children?						
	Every time	Usually	Sometimes	Never				
11.	11. Are you less inclined to give opioids to children with a dislocated fracture than to an adult with the same kind of fracture?							
	To a great extent	To some extent	To a lesser extent	Not at all				
12.	Do you know of any non-p	_	•					
	Yes	3	No					
13.	Which are used?							
14.	14. Who do you call when you need help treating pain in children?							
15.	Are you competent to han							
	To a great extent	To some extent	To a lesser extent	Not at all				

Other comments			