

SUPPLEMENTAL MATERIALS

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App-Table 1: Modified Westley croup score(10)

Clinical sign		Points
Stridor	None	0
	With agitation	1
	At rest	2
Indrawing	None	0
	Mild	1
	Moderate	2
	Severe	3
Total score (range is 0 to 5 points) =		
Mild croup = 0 to 1 point Moderate croup = 2 to 4 points Severe croup = 5 points		

App-Table 2: TOP (Telephone Out Patient) Score⁽⁷⁾

Clinical Status Question	Response	Score	Total Additive Score
For stridor: "In the past 24 hours, when your child breathed in did he or she make a noise?"	No	0	0
	Yes, when upset, active or agitated	1	1
	Yes, when at rest or quiet	1	2
For cough: "In the past 24 hours, has your child had a cough?"	No (questionnaire complete)	0	0
	Yes (go to next question)		
For quality of cough: "Was the cough a barking cough or not?"	Not barking	0	0
	Barking	1	3
Total score (range 0 to 3 points) =			

App-Table 3: Severity of croup at presentation to ED (for children with complete data available)

	Pediatric ED All children evaluated with croup n=814			26 General EDs All children evaluated with croup (Total n=unknown)				
Croup severity	All retrospec- -tive n=776 (%)	Only retrospec- -tive n=469 (%)	All prospec- -tive n=307 (%)	All retrospec- -tive n=4739 (%)	Only retrospec- -tive n=4229 (%)	Both retrospec- -tive and prospective n=510 (%)	Only prospec- -tive n=704 (%)	All prospec- -tive n=1214 (%)
Mild	316 (40.7)	213 (45.4)	103 (33.6)	905 (54.7)	607 (51.7)	298 (61.8)	442 (66.6)	740 (64.6)
Moderate	422 (54.4)	229 (48.8)	193 (62.9)	723 (43.7)	546 (46.5)	177 (36.7)	212 (31.9)	389 (33.9)
Severe	38 (4.9)	27 (5.8)	11 (3.6)	28 (1.7)	21 (1.8)	7 (1.5)	10 (1.5)	17 (1.5)
Missing data	0	0	0	3083 (65.1)	3055 (72.2)	28 (5.5)	40 (5.7)	68 (5.6)

App-Table 4: Percentage of children with barky cough, stridor, and indrawing, and TOP score(7) by day of follow up in prospective sample from pediatric and general EDs

	Day 1		Day 2		Day 3		Day 4		Day 5	
	Ped n/303 ^a (%)	Gen n/1084 ^b (%)	Ped n (%)	Gen n (%)	Ped n (%)	Gen n (%)	Ped n (%)	Gen n (%)	Ped n (%)	Gen n (%)
Barky cough	136 (44.9)		90 (29.7)		35 (11.6)		15 (5.0)		3 (1.0)	
Stridor	79 (26.1)		56 (18.5)		12 (4.0)		6 (2.0)		0 (0)	
Indrawing	19 (6.3)		14 (4.6)		2 (0.7)		0 (0)		0 (0)	
Data missing	4 (1.3)		4 (1.3)		4 (1.3)		4 (1.3)		4 (1.3)	
TOP score 0	166 (54.8)	445 (41.1)	211 (69.6)	708 (65.3)	268 (88.5)	907 (83.7)	288 (95.1)	999 (92.2)	300 (99.0)	1041 (96.0)
TOP score 1	117 (38.6)	310 (28.6)	70 (23.1)	227 (20.9)	35 (11.6)	124 (11.4)	14 (4.6)	62 (5.7)	3 (1.0)	29 (2.7)
TOP score 2	1 (0.3)	163 (15.0)	2 (0.7)	86 (7.9)	0	30 (2.8)	0	12 (1.1)	0	9 (0.8)
TOP score 3	19 (6.3)	166 (15.3)	20 (6.56)	63 (5.8)	0	23 (2.1)	1 (0.3)	11 (1.0)	0	5 (0.5)

Ped = pediatric emergency department

Gen = general emergency departments

^adata available for 303 of the 307 subjects (4 subjects had missing data)

^bIndividual score components (barky cough, stridor, indrawing) were not available for the n=1246 dataset. Only overall TOP scores were available for 1084 subjects in the n=1246 dataset

App-Table 5: Timing of peak symptoms measured by maximum TOP score(7) at pediatric (n=303) and general (n=1214) EDs

	Reached maximum TOP score		Any ties		Tie on day 1		Tie on day 2		Tie on day 3	
	Ped n (%) ^a	Gen n (%) ^b	Ped n (%)	Gen n (%)	Ped n (%)	Gen n (%)	Ped n (%)	Gen n (%)	Ped n (%)	Gen n (%)
On day 0	290 (95.7)	816 (77.3)	47 (16.2)	258 (31.6)	35 (12.1)	249 (30.5)	10 (28.6)	113 (45.4)	3 (30.0)	33 (29.2)
On day 1	7 (2.3)	217 (20.6)	3 (42.9)	65 (30.0)			3 (42.9)	65 (30.0)	0	20 (30.8)
On day 2	6 (2.0)	17 (1.6)	N/A	3 (17.7)					0	3 (17.6)
On day 3	0 (0)	5 (0.5)	N/A	1 (20)						

Ped = pediatric emergency department

Gen = general emergency departments

^aof the 311 subjects, data available for 307^bof the 1214 subjects, data available for 1084

App-Table 6: Stress level reported by caregiver by day of follow up in children from pediatric and general EDs

Care-giver reported stress level	Day 1 n (%)		Day 2 n (%)		Day 3 n (%)		Day 4 n (%)		Day 5 n (%)	
	Ped	Gen								
Calm	92 (32.5)	298 (26.9)	149 (66.8)	115 (14.6)	104 (78.8)	48 (10.5)	44 (81.5)	21 (9.3)	22 (78.6)	13 (12.2)
Coping	52 (18.4)	213 (19.2)	20 (9.0)	173 (21.9)	16 (12.1)	92 (20.0)	9 (16.7)	42 (18.5)	5 (17.9)	20 (18.7)
Stressed	139 (49.1)	599 (54.0)	54 (24.2)	502 (63.5)	12 (9.1)	319 (69.5)	1 (1.9)	164 (72.3)	1 (3.6)	74 (69.2)
Data missing	24 (7.8)	104 (8.6)	84 (27.4)	424 (34.9)	175 (57.0)	755 (62.2)	253 (82.4)	987 (81.3)	279 (90.9)	1107 (91.2)

Ped = pediatric emergency department (n=307)
 Gen = general emergency departments (n=1214)