

Appendix 2: variables and proxies used for CPR validation

Clinical Prediction Rule	used for validation	prevalence	N children	n/N (%)	variables used (original or proxy)					
All serious infections										
Yale Observation Scale (cutoff > 10)					Quality of Cry	Reaction to parent stimulation	State Variation	Colour	Hydration	Response to social overtures
Van den Bruel et al. ^[7]	No (no proxies or variables recorded)	Low	3981	-	-	-	-	-	-	-
Monteny et al. ^[23]	Yes	Low	506	95.3%	+	+	+	+	+	+
Brent et al. ^[24]	Yes	Intermediate	2777	99.6%	+	-	+	+	+	+
Roukema et al. ^[25]	No (no proxies or variables recorded)	Intermediate	1750	-	-	-	-	-	-	-
Bleeker et al. ^[26]	No (no proxies or variables recorded)	High	595	-	-	-	-	-	-	-
Thompson et al. ^[14]	Yes	High	700	94.7%	+	+	+	+	+	+
Oostenbrink et al. ^[27]	No (no proxies or variables recorded)	High	593	-	-	-	-	-	-	-
5-stage Decision Tree					Something is wrong	Dyspnoea	Temperature	Diarrhoea	Age	
Van den Bruel et al. ^{a [7]}	No (derivation dataset)	Low	3981	-	+	+	+	+	+	
Monteny et al. ^[23]	Yes	Low	506	100.0%	+ ⁺	+	+	+	+	
Brent et al. ^[24]	Yes	Intermediate	2777	99.5%	+ ⁺	+ ⁺	+	+	+	
Roukema et al. ^[25]	Yes	Intermediate	1750	100.0%	+ ⁺	+ [†]	+	+	+	
Bleeker et al. ^[26]	Yes	High	595	100.0%	+ ⁺	+ ⁺	+	-	+	
Thompson et al. ^[14]	Yes	High	700	100.0%	+ ⁺	+	+	+	+	
Oostenbrink et al. ^[27]	No (2 variables not recorded)	High	593	-	+ ⁺	-	+	-	+	
Clinical Diagnostic Model (Craig et al.)					26 items (clinical signs and symptoms)					
Van den Bruel et al. ^[7]	No (11 variables not recorded)	Low	3981	-	15/26					
Monteny et al. ^[23]	No (8 variables not recorded)	Low	506	-	18/26					
Brent et al. ^[24]	No (9 variables not recorded)	Intermediate	2777	-	17/26					
Roukema et al. ^[25]	No (16 variables not recorded)	Intermediate	1750	-	10/26					
Bleeker et al. ^[26]	No (18 variables not recorded)	High	595	-	8/26					
Thompson et al. ^[14]	No (13 variables not recorded)	High	700	-	13/26					
Oostenbrink et al. ^[27]	No (16 variables not recorded)	High	593	-	10/26					
Pneumonia										
Pneumonia Rule 1					Illness is different (parent)		Dyspnoea			
Van den Bruel et al. ^{a [7]}	No (derivation dataset)	Low	3981	-	+		+			
Monteny et al. ^[23]	No (1 variable not recorded)	Low	506	-	-		+			
Brent et al. ^[24]	No (1 variable not recorded)	Intermediate	2777	-	-		+ ⁺			
Roukema et al. ^[25]	No (1 variable not recorded)	Intermediate	1750	-	-		+ [†]			
Bleeker et al. ^[26]	No (1 variable not recorded)	Intermediate	595	-	-		+ ⁺			
Thompson et al. ^[14]	No (1 variable not recorded)	Intermediate	700	-	-		+			
Oostenbrink et al. ^[27]	No (2 variables not recorded)	High	593	-	-		-			
Pneumonia Rule 2					Something is wrong		Dyspnoea			
Van den Bruel et al. ^{a [7]}	No (derivation dataset)	Low	3981	-	+		+			
Monteny et al. ^[23]	Yes	Low	506	100.0%	+ ⁺		+			
Brent et al. ^[24]	Yes	Intermediate	2777	78.6%	+ ⁺		+ ⁺			
Roukema et al. ^[25]	Yes	Intermediate	1750	96.1%	+ ⁺		+ [†]			
Bleeker et al. ^[26]	Yes	Intermediate	595	100.0%	+ ⁺		+ ⁺			
Thompson et al. ^[14]	Yes	Intermediate	700	100.0%	+ ⁺		+			
Oostenbrink et al. ^[27]	No (1 variable not recorded)	High	593	-	+ ⁺		-			
Meningitis										
Meningitis Rule 1					Petechiae		Nuchal rigidity		Coma	
Van den Bruel et al. ^[7]	Yes	Low	3981	100.0%	+		+ [†]		+ ⁺	
Monteny et al. ^[23]	No (2 variables not recorded)	Low	506	-	+		-		-	
Thompson et al. ^[14]	Yes	Low	700	100.0%	+		+		+ ⁺	
Roukema et al. ^[25]	No (2 variables not recorded)	Low	1750	-	-		+		-	
Bleeker et al. ^[26]	No (3 variables not recorded)	Low	595	-	-		-		-	
Brent et al. ^[24]	Yes	Low	2777	78.2%	+		-		+ ⁺	
Oostenbrink et al. ^[27]	Yes	High	593	100.0%	+		+ [†]		+ ⁺	
Meningitis Rule 2					Any abnormal neurological findings				Sought care < 48 hrs	
Van den Bruel et al. ^[7]	No (1 variable not recorded)	Low	3981	-	+				-	
Monteny et al. ^[23]	No (1 variable not recorded)	Low	506	-	+				-	
Thompson et al. ^[14]	No (1 variable not recorded)	Low	700	-	+				-	
Roukema et al. ^[25]	No (1 variable not recorded)	Low	1750	-	+				-	
Bleeker et al. ^[26]	No (2 variables not recorded)	Low	595	-	-				-	
Brent et al. ^[24]	No (1 variable not recorded)	Low	2777	-	+				-	
Oostenbrink et al. ^[27]	No (1 variable not recorded)	High	593	-	+				-	
Dehydration from gastroenteritis										
Gastroenteritis rule					Dry mucous membranes		Poor peripheral circulation		Absent tears	
Van den Bruel et al. ^[7]	No (2 variables not recorded)	Low	3981	-	-		+		-	
Monteny et al. ^[23]	No (2 variables not recorded)	Low	506	-	-		+		-	
Brent et al. ^[24]	No (2 variables not recorded)	Intermediate	2777	-	-		+		-	
Roukema et al. ^[25]	No (2 variables not recorded)	Intermediate	1750	-	-		+		-	
Bleeker et al. ^[26]	No (2 variables not recorded)	High	595	-	-		+		-	
Thompson et al. ^[14]	No (2 variables not recorded)	High	700	-	-		+		-	
Oostenbrink et al. ^[27]	No (2 variables not recorded)	High	593	-	-		+		-	
							Ill appearance			