

BACKGROUND

- QI initiative during two bronchiolitis seasons most frustrating care conundrums in pediatrics. **PRE-INTERVENTION** supportive care, as no therapy has proven to be October-Mars 2016-17 particularly useful. evidence-based guidelines Although recommend primarily supportive care, many **INTERVENTIONS** unnecessary treatments persist, contributing to - Distribution evidenced-based protocol a quality problem of overtreatment. - Informative posters However, standardizing treatment requires - Badges with the slogan "Bronchiolitis, less is more" multifaceted approach, which is still a challenge. - Sessions to discuss barriers to apply what is known - Weekly report to pediatricians with personal and global data on the prescription of bronchodilators **OBJECTIVE** PRIMARY OUTCOME: infants receiving salbutamol. SECONDARY **OUTCOMES:** implement quality and assess epinephrine, antibiotics and corticosteroids. a improvement (QI) initiative to reduce the CONTROL MEASURES: ED visits and hospitalization overuse of unnecessary treatments in infants in infants, triage level, length of stay in the ED, with AB in Primary Care (PC) settings and the Pediatric Intensive Care Unit admission and referral Pediatric Emergency Department (ED). unscheduled returns with admission within 72 h. • The data were collected from the computerized medical record.

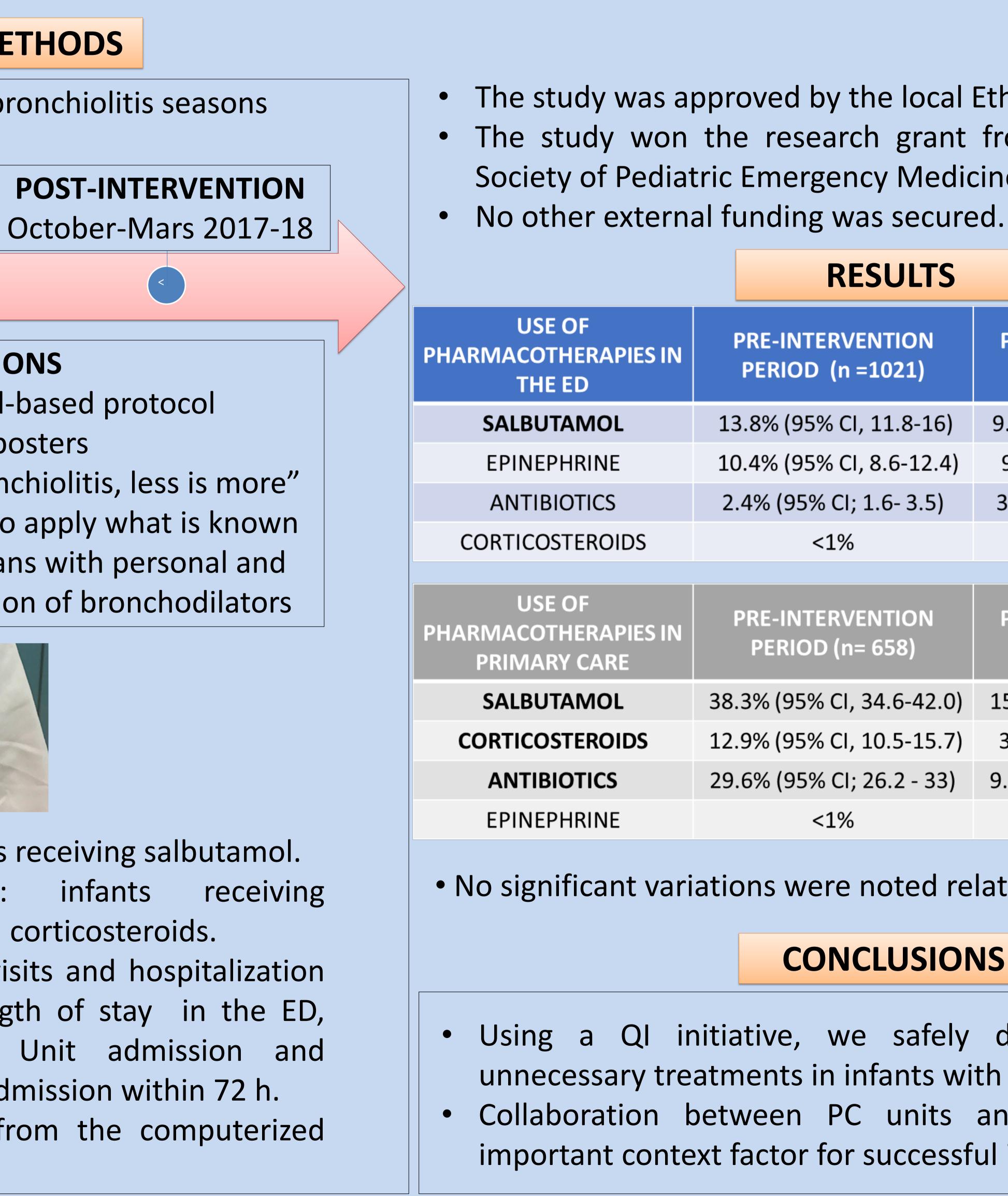


• Acute bronchiolitis (AB) represents one of the • The mainstay of treatment for this illness is • To

A QUALITY IMPROVEMENT INITIATIVE TO REDUCE THE OVERUSE OF TREATMENTS IN INFANTS WITH BRONCHIOLITIS

Paniagua N, PhD MD; Montejo M, MD*, Benito I**, Montiel A**, Benito J, PhD MD. Pediatric Emergency Department. Cruces University Hospital. *Kueto-Sestao Primary Care Center. **OSI Barakaldo-Sestao, OSI Ezkerraldea-Enkarterri-Cruces. Bizkaia. Basque Country. Spain.

PATIENTS & METHODS





The study was approved by the local Ethics Committee. TALL IN The study won the research grant from the Spanish Society of Pediatric Emergency Medicine in 2018.

RESULTS			
PRE-INTERVENTION PERIOD (n =1021)	POST-INTERVENTION PERIOD (n =855)		Ρ
3.8% (95% CI <i>,</i> 11.8-16)	9.1%	(95% CI <i>,</i> 7.3-11.2)	<0.01
0.4% (95% CI <i>,</i> 8.6-12.4)	9% (95% CI <i>,</i> 7.2-11.1)	n.s.
.4% (95% CI; 1.6- 3.5)	3.1%	(95% Cl; 2.1- 4.5)	n.s.
<1%		<1%	n.s.
PRE-INTERVENTION PERIOD (n= 658)		Γ-INTERVENTION RIOD (n= 471)	Ρ

.3% (95% CI, 34.6-42.0)	15.9% (95% CI, 13-19.5)	<0.01
.9% (95% CI <i>,</i> 10.5-15.7)	3.6% (95% CI, 2.2-5.7)	<0.01
.6% (95% CI; 26.2 - 33)	9.5% (95% Cl; 7.2- 12.5)	<0.01
<1%	<1%	n.s.

• No significant variations were noted related to control measures.

CONCLUSIONS

 Using a QI initiative, we safely decreased the use of unnecessary treatments in infants with AB. Collaboration between PC units and ED appears as an important context factor for successful improvement.