Background

EUSEM

- bacterial infection (IBI).
- department (ED) management of these patients.

Objectives

✓ to analyze the prevalence of IBI and non-IBI in infants with fever without source (FWS) and a positive or negative be-PCR. \checkmark to compare the length of stay and the length of antibiotic treatment in hospitalized infants.

Results

664 infants ≤90 days old attended with FWS

638 infants included in the analysis (96.0%)

545 in whom a be-CRP was performed (85.4%)

Table 1: Epidemiological characteristics and management of included patients

C .
387 (60.7%)
53 days (IQR 32-68 days)
2 hours (IQR: 1-8 hours)
627 (98.3%)
609 (95.4%)
123 (19.2%)
245 (38.4%)
178 (72.6% of those admitted)
7 (1.1%; 95% CI: 0.3-1.9%)
108 (16.9%; 95% CI: 14.0-19.8%
104 UTIs 4 bacterial gastroenteritis

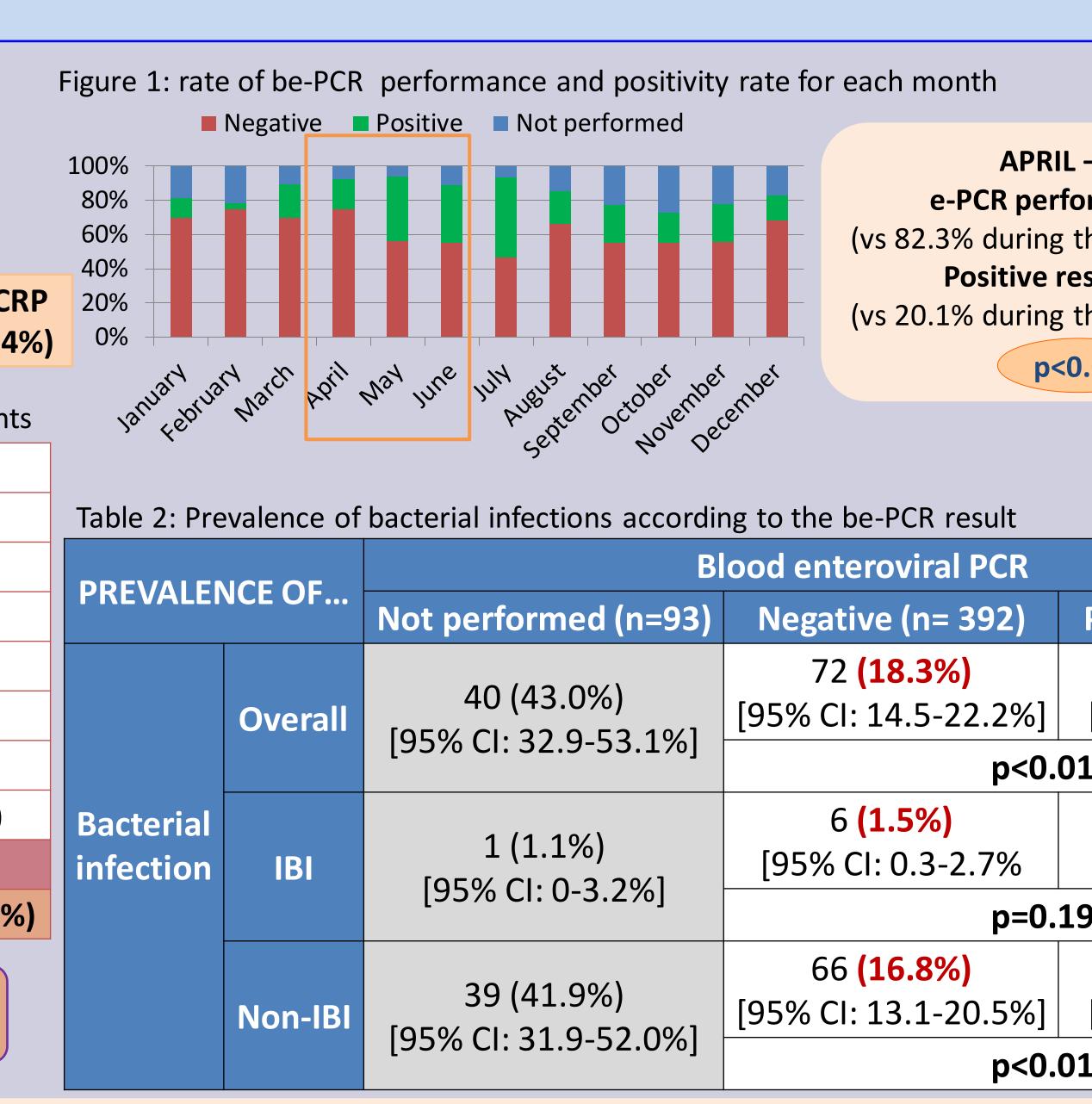
Two other infants diagnosed with a clinical sepsis (no microbiological confirmation); both had



An observational study about the performance of the blood enteroviral polymerase chain reaction test in the management of young febrile infants Borja Gomez, Carla Pintos, Leire Bonilla, Javier Benito, Santiago Mintegi. Pediatric Emergency Department, Cruces University Hospital, Barakaldo, SPAIN

> young febrile infants with confirmed viral infections, such as influenza, present a low risk of a concomitant invasive

> several studies have confirmed a low prevalence of IBI in young febrile infants with a positive enteroviral protein chain reaction in cerebrospinal fluid (CSF). A positive test is related with shorter hospitalization and antibiotic treatment. > little is known about the value of the blood enteroviral polymerase chain reaction (be-PCR) test in the emergency



Patients & Methods

- **Secondary analysis of a prospective** unicenter registry developed in a University Teaching Hospital **Inclusion criteria in the registry**: infants ≤90 days old attended with FWS in the Pediatric ED
- Our **protocol of management** includes a urine sample by a sterile method (urine dipstick and urine culture) and performing the following blood tests: procalcitonin, C-reactive protein, white blood cell count, blood culture and be-PCR (since 2015 during the whole year; previously only during enteroviral season).
- Samples of be-PCR are processed every working day in the morning I result available in <24 hours except when patient is attended on Friday afternoon or Saturday.
- Inclusion criteria for this subanalysis: infants attended between 2015 September and 2018 August with at least blood and urine cultures and a urine dipstick performed **Definitions**:

 - associated) and bacterial gastroenteritis.

	able 5. Length of stay a	ccording to the be-F	Ŭ
– JUNE:		ADMITTED PATI	
ormed: 91.6% the rest of the year)		Blood enteroviral	
esults: 42.1% the rest of the year)	OVERALL	Not performed (n=93)	Negative (n= 392)
0.01	Admission rate	39 (41.9%)	135 (34.4%)
	Length of stay	4.74 ± 1.72	4.90 ± 3.81
	Length Of Stay	4./4 1 1./2	p<
	Antibiotic received	35 (89.7%)	104 (77.0%)
D_{2}	Days of antibiotic	/ 00 ± 1 E0	4.74 ± 3.01
Positive (n= 153)	Days of antibiotic	4.88 ± 1.58	p<
3 (2.0%) [95% CI: 0-4.2%]	INFANTS WITHOUT	Blood	enteroviral
1	LEUKOCYTURIA	Not performed (n=48)	Negative (n= 314)
0	Admission rate	10 (20.8%)	87 (27.7%)
9	Longth of stay	4.20 ± 1.75	4.56 ± 4.04
3 (2.0%)	Length of stay	4.20 ± 1.75	p<
[95% CI: 0-4.2%]	Antibiotic received	6 (60.0%)	58 (66.6%)
1	Days of antibiotic	4.00 ± 1.41	4.15 ± 2.97
d a negative be-PCR.		7.00 ± 1.41	p<

Table 3: Length of stay and of antibiotic treatment among admitted patients



IBI: isolation of a bacterial pathogen in blood or CSF. Isolation of a classically considered contaminant (such as *S. epidermidis*, *P. acnes*, *S. epidermidis* or *Diphtheroides*) was not considered as an IBI.

Non-IBI: UTI (growth of ≥10,000 CFU/mL in a urine culture collected by a sterile method with leukocyturia

