PERTUSSIS INCIDENCE IN A TERTIARY HOSPITAL IN SPAIN IN A FIVE YEAR PERIOD

Á. Vázquez Pérez¹, M. Vargas Perez²,
A.F. Checa Ros³, K.A. Sándor-Bajusz¹.

BACKGROUND

- Whooping cough is a disease that has blunted its incidence in recent years. The importance of early diagnosis is essential, especially in the emergency services (ES), where cough is one of the main reasons for consultation.

METHODS

All the samples sent to the Microbiology service of a tertiary hospital in the province of Granada (Spain) in the last five years were analyzed.

RESULTS

- We analyzed a total of 650 samples in the years 2013-2017 sent from our area of influence in the province with the following results: Age of request: Under one year: 377. Total 58%; Greater than one year: 202. Total 31%; Adults: 71. Total 11%. Provenance: Out-of-hospital: 385 (59%). Intra-hospital : 265 (41%) : 214 in the ES (81% of all intrahospital requests) Incidence per years in intra-hospital requests: (table above)

(¹) Hospital La Paz, Pediatric Infectious Diseases, Madrid, Spain. (²) Hospital de Poniente, Pediatric Infectious Diseases, El Ejido, Spain. (³) Hospital Clínico San Cecilio, Pediatrics, Granada, Spain.

		Neonates	Infants/Children	ES	Intensive Care Unit	TOTAL
2013	Positive	0	1	4	0	5
	Negative	1	2	4	1	8
2014	Positive	1	0	12	3	16
	Negative	5	14	26	5	50
2015	Positive	0	0	2	0	2
	Negative	4	3	26	0	33
2016	Positive	0	4	16	0	20
	Negative	2	1	78	0	81
2017	Positive	0	0	1	0	1
	Negative	0	4	45	0	49

Total samples vs emergency samples

% positive of the total vs % positive of emergency samples

DISCUSSION

- The incidence in our province highlights an increase in possible relationship with the rise of anti-vaccine groups in certain population areas. Therefore, it is a disease to be taken into account due to its high morbidity and mortality, especially in children under one year of age. Emphasis should be placed on emergency services on the importance of primary vaccination as well as revaccination in young adults as the main reservoir.