IDWeek 2020

How Severe Are Rickettsial Infections Among Children

However, severe forms and complications have been reported with rickettsiosis. Children can be well. We aimed to study the particularities of RI among children.

We conducted a retrospective study including all patients aged s 18 years hospitalized for RI between 200 and 2018. The diagnosis was confirmed by sensionies (sensonwersion).

In total, we encountered 59 children with confirmed 51, among whom 45 were male (76.3%). The mean age was 16.4 years. Forty children had a dose contact with animals (71.4%), 48 patients consulted for a febrile meculopopular skin rash, which was associated to headache in 45 cases (76.3%), somiting in 28 cases (47.4%) and cough in 6 cases (27.3%). Physical examination revealed an either in 13 cases (22.9%) and meningeal. syndrome in 11 cases (18.6%), Laboratory investigations showed thrombiocytopenia (31 cases, 52.5%) and her cytolysis (36 cases, 44%), Severe forms of fill were represented by meningitis in 11 cases (18.6%), nonumonia in 2 cases (3.3%) and myocardisk in one case (1.6%). The treatment was based on disappycline disapproximation of the treatment was cased (1.6%). The treatment was based on disappycline.

42 cases (71.2%), fluoroquinglones in 10 cases (17%) and macrolide in 7 cases (11.8%) for children aged let than 8 years. The mean duration of treatment was 9 ±3 days. The disease evolution was favourable in a

The diagnosis of Ri among children should be largely based on high index of suspicion, careful clinic laboratory results. Prompt diagnosis is crucial in order to start antibiotics and avoid, therefore, fatal

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Background

Rickettsial infections usually mimic benign viral infection due to similarities in clinical symptoms. However, severe forms and complications have been reported with rickettsiosis. Children can be affected as well. We aimed to study the particularities of rickettsial infections among children.

Methods

We conducted a retrospective study including all patients aged ≤ 18 years hospitalized for rickettsial infections between 2000 and 2018. The diagnosis was confirmed by serologies (seroconversion).

Results

- Total: 59 children
- Gender: 45 males: 76.3%
- Mean age: 14 ±3 years.
- Close contact with animals: 40 children: 71.4%.
- Revealing symptoms: Febrile maculopapular skin rash was noted in all cases (Table 1).

Table 1: The revealing symptoms of cases of rickettsial infections among children

	Number	Percentage (%)
Febrile maculopapular skin rash	59	100
Headache	45	76.3
Vomiting	28	47.4
Cough	8	13.5

- Physical examination:
 - Eschar: 13 cases: 22%
 - ► Meningeal syndrome: 11 cases: 18.6%.
- Severe forms of rickettsial infections: meningitis was noted in 18.6% of the cases (Table 2)

Table 2: Severe forms of rickettsial infections among children

	Number	Percentage (%)
Meningitis	11	18.6
Pneumonia	2	3.3
Myocarditis	1	1.6

- Laboratory investigations:
 - ► Thrombocytopenia: 31 cases: 52.5%
 - Liver cytolysis: 26 cases: 44%.
- Treatment prescribed: Doxycycline was prescribed in 71.2% of the cases (Table 3)

Table 3: Treatment prescribed for rickttsial infections among children

	Number	Percentage (%)
Doxycycline	42	71.2
Fluoroquinolones	10	17
Macrolide*	7	11.8

- *: for children aged less than 8 years
- The mean duration of antibiotics: 8 ±4 days.
- Disease evolution: Favourable in all cases

Conclusion

The diagnosis of rickettsial infections among children should be largely based on high index of suspicion, careful clinical and laboratory results. Prompt diagnosis is crucial in order to start antibiotics and avoid, therefore, fatal untreated forms.