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A Comparative Analysis Of Lymph Node Tuberculosis Between Children And Adults

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We conducted a retrospective study including patients hospitalized for LNTB in the infectious dis-pediatric department between 1993 and 2018. Children aged \$18 years were included.

Quarted and appropriate of 224 consecret (NTD). There were 40 children (17 Shillseith a mean are of 11 et appr and 191 adults (82.7%) with a mean age of 42x16 years. As to gender, females were more affected (adult 67% or children: 70%) with no significant difference in x0.0%; & family history of tuberrulosis was 6-W six crisiones: 70%, with no significant dimensic-up victor), a turnly risolary of suberculosis was significantly more frequent among children (20% vs.6.3%; p=0.01). Raw milk consumption (38.2% vs.30%; p >0.05) and close contact with animals (23.8% vs.35%; p >0.05) were noted among both adults and children. Power (51.4% vs. 32.5%; p=0.01), night sweats (55.4% vs. 10%; p=0.01), index of appetite (58.2% vs. 17.5%; p=0.01) and weight loss (35.1% vs. 15%; p=0.01) were significantly more frequent; among adults. Tuberco

kin test was positive in 75.8% of the cases among adults and in 86.2% of the cases among children to >0.05 Multifocal suberculosis was significantly more frequent among adults (2.3.8% vs 5.7%; p=0.91). Antiubercula therapy was prescribed for a mean duration of 10.4 months among adults and for lea months among to the control of the cont children, with no significant difference (p > 0.05). Side effects of antitubercular drugs were more frequent among adults (3.1% vs 10.1%), with a significant difference (p > 0.06), Comparison of the disease evolution showed no significant difference between adults and children, regarding recovery (94.8% vs 90%), relapse (5.2% vs 5%) and death (0.5% vs 2.5%).

The clinical presentation of LNTB among children was less common and misleading. A family history of tuberculosis and a high index of suspicion might shorten the diagnostic delay.

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Background

Lymph node tuberculosis (LNTB) represents the most common site of extrapulmonary tuberculosis. Among children, due to non-specific clinical features, the diagnosis is often delayed. We aimed to compare the clinical, therapeutic and evolutionary features of LNTB between adults and children.

Methods

We conducted a retrospective study including patients hospitalized for LNTB in the infectious diseases and pediatric departments between 1993 and 2018. Children aged ≤18 years were included.

Results

- ► Total: 231 cases
- ▶ Distribution of cases:
 - Children: 40 cases: 17.3% Adults: 191 cases: 82.7%
- ▶ Demographic characteristics: Family history of tuberculosis was significantly more frequent among children (p=0.01) (Table 1).

Table 1: Comparison of demographic characteristics between adults and children with lymph node tuberculosis

	Adults	Children	p-value
Females gender, n (%)	128 (67)	28 (70)	0.7
Mean age ± SD, years	42±16	11±4	-
Family history of TB , n (%)	12 (6.3)	8 (20)	0.01
Raw milk consumption, n (%)	73 (38.2)	12 (30)	0.3
Contact with animals, n (%)	57 (29.8)	14 (35)	0.52

n: number, %: percentage, SD: standard deviation, TB: tuberculosis

► Clinical features: Multifocal tuberculosis was significantly more frequent among adults (p=0.01). (Table 2)

Table 2: Comparison of clinical features between adults and children with lymph node tuberculosis

	Adults	Children	p-value
Fever, n (%)	102 (53.4)	13 (32.5)	0.01
Night sweats, n (%)	68 (35.8)	4 (10)	0.001
Loss of appetite , n (%)	73 (38.2)	7 (17.5)	0.01
Weight loss , n (%)	67 (35.1)	6 (15)	0.01
Multifocal tuberculosis , n (%)	41 (21.5)	2 (5)	0.015

n: number, %: percentage

► Tuberculin skin test: positive in 75.8% of the cases among adults and in 86.2% of the cases among children (p=0.2).

► Therapeutic and evolutionary features:

Side effects of antitubercular therapy were significantly more frequent among adults (p=0.004) (Table 3).

Table 3: Comparison of therapeutic and evolutionary features between adults and children with lymph node tuberculosis

	Adults	Children	p-value
Mean duration of treatment ± SD, months	10±4	9±3	0.14
Side effects of antitubercular therapy , n (%)	62 (33)	4 (10)	0.004
Recovery , n (%)	181 (94.8)	36 (90)	0.2
Relapse , n (%)	10 (5.2)	2 (5)	0.9
Death , n (%)	1 (0.5)	1 (2.5)	0.3

n: number, %: percentage, SD: standard deviation

Conclusion

The clinical presentation of LNTB among children was less common and misleading. A family history of tuberculosis and a high index of suspicion might shorten the diagnostic delay.