**ISA ISPID  
  
Abstract Submission  
  
Nº: 206**

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| Topics: **Implementing best practices** |
| Type: **Oral** |
| **ALTE and vaccination** |
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| **Introduction** It is commonly known that vaccination is  a protective factor against SIDS; however, according to our knowledge, no study has been performed to investigate if immunisation can be associated with Apparent Life -Threatening Events (ALTE). Our aim is to present which ALTE, among the 1749 patients visited in the Center between January 1, 2005 and December 31, occurred within 48 hours of immunisation and to assess the outcome after a three months minimum follow-up.  **Material and Methods** Medical charts of infants visited between 2005-2015 were reviewed; data pertaining clinical features of the episode, parents intervention and decision to bring the infant to Emergency Department (ED), clinical evaluation at ED arrival were collected. All patients were followed-up to assess recurrence of ALTE and outcome (death and neurological disorders).  **Results** 30 ALTE cases (1,7%) resulted eligible; all infants received hexavalent vaccination; 2 out of the 30 received anti-pneumococcical vaccination too. 15 infants showed an episode of sudden pallor, hypotonia and altered reactivity, with subsequent temperature increase in nine cases with no recognizable cause. The others showed mainly a paraphysiological phenomenon (9) or a paroxysmal event (2). 21/30 were brought to Emergency Department, where most (12/21) were asymptomatic. 16/21 were admitted to a Paediatric Ward (length of stay available for 15/16, median 5,5 days), where four patients received different pharmacological treatments. 24 hours cardiorespiratory recording monitoring was performed for every infant involved in the study; it was normal in every case. No infant died during the episode, during the follow-up, nor developed neurological disease after subsequent vaccinations.  **Conclusions** Vaccination represents a rare cause of ALTE in our cohort; incidence following vaccination seems to share some clinical features. In our experience, ALTEs are mostly benign events whose prognosis and outcome are not affected by vaccination. |
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