

SUPPLEMENTAL DIGITAL CONTENT 1

Patients with varicella-associated neurological complications before and after introduction of universal varicella vaccination in Germany. Pre-vaccination data from pediatric hospitals in Germany, ESPED*-based, 2003-2004;³ post-vaccination data from Bavaria (Germany), ICD-10-based, 2005-2011 (present study).

	Hospitalized varicella patients with neurological complications, 2003-2004 (ESPED) N=232 %, or median (IQR)	Hospitalized varicella patients with neurological complications, 2005-2011 (ICD-10) N=228 %, or median (IQR)
Patient characteristics		
Male sex	56	56
Age (years)	4 (3-6)	4 (2-7)
Immunocompromised	1.7	2.6
Neurological varicella complications - occurrence		
Cerebral vasculitis / infarction	2.6	1.8
Encephalitis or meningitis	22.4	28.9
Cerebral convulsion	9.1	11.0
Febrile convulsion	29.7	32.0
Syncope	3.9	13.2
Facial nerve palsy	1.3	2.6
Cerebellar ataxia / other complications incl. ataxia*	31.0	10.5
Neurological varicella complications –patient age (years)		
Cerebral vasculitis / infarction	5.6 (1.9-8.5)	2.5 (1.3-3.8)
Encephalitis or meningitis	5.4 (4.2-6.7)	4.5 (3.0-7.3)
Cerebral convulsion	5.3 (1.2-6.7)	4.0 (1.0-7.0)
Febrile convulsion	2.3 (1.6-3.4)	3.0 (1.0-4.0)
Syncope	9.0 (5.3-12.1)	7.0 (5.0-9.3)
Facial nerve palsy	6.6 (4.2-14.5)	9.5 (2.3-12.0)
Cerebellar ataxia / other complications incl. ataxia**	4.4 (3.3-5.8)	5.5 (3.0-8.5)
Neurological varicella complications –length of hospital stay (days)		
Cerebral vasculitis / infarction	15 (11-44)	12 (11-15)
Encephalitis or meningitis	13 (8-18)	7 (4-10)
Cerebral convulsion	5 (3-9)	3 (1-4)
Febrile convulsion	4 (3-5)	3 (2-5)
Syncope	2 (2-3)	2 (1-3)
Facial nerve palsy	7 (3-12)	8 (3-10)
Cerebellar ataxia / other complications incl. ataxia**	7 (4-11)	4 (2-9)
Hospital stay, outcome		
Overall duration of hospital stay (days)	6 (3-11)	3 (2-7)
Death	1.3	0.0

* ESPED: Pediatric Surveillance Unit for Rare Diseases; **In the present ICD-10 based study, no specific code for cerebellar ataxia was available