

ERRATUM

Erratum to: Severe somatoform and dysautonomic syndromes after HPV vaccination: case series and review of literature

Beniamino Palmieri¹ · Dimitri Poddighe² ·
Maria Vadalà¹ · Carmen Laurino¹ ·
Carla Carnovale³ · Emilio Clementi³

Published online: 20 September 2016
© Springer Science+Business Media New York 2016

Erratum to: Immunol Res
DOI 10.1007/s12026-016-8820-z

The original version of this article unfortunately contained a mistake. It has been corrected with this erratum. And the original article was also corrected.

1. The co-corresponding author of the article is Dr. Dimitri Poddighe (dimimedpv@yahoo.it).
2. Prof. Beniamino Palmieri and Dr. Dimitri Poddighe contributed equally to the drafting and writing of this study.
3. The correct version of Tables 3 and 5 are given below.

Prof. Beniamino Palmieri and Dr. Dimitri Poddighe contributed equally to the drafting and writing this study.

The online version of the original article can be found under doi:[10.1007/s12026-016-8820-z](https://doi.org/10.1007/s12026-016-8820-z).

- ✉ Beniamino Palmieri
palmieri@unimore.it
- ✉ Dimitri Poddighe
dimimedpv@yahoo.it

- ¹ Department of General Surgery and Surgical Specialties, University of Modena and Reggio Emilia Medical School, Surgical Clinic, Modena, Italy
- ² Department of Paediatrics, ASST Melegnano e Martesana, Vizzolo Predabissi, MI, Italy
- ³ Unit of Clinical Pharmacology, Department of Biomedical and Clinical Sciences, National Research Council-Institute of Neuroscience, University Hospital L. Sacco, University of Milano, Milan, Italy



Beniamino Palmieri
Dimitri Poddighe

Table 3 Description of ADRs related to HPV immunization

	After first dose	After second dose	After third dose
Symptoms (within 5 days post-vaccination)			
<i>Injection site reactions</i>			
Pain	2	2	1
Uncontrollable and involuntary movement of the limb	1		
Swelling	1	1	
<i>Systemic reactions</i>			
Low-grade fever	3	5	1
Headache	5	5	2
Recurrent syncope	4	3	
Persistent convulsive hunger	1		
Irritability	1	2	
Epileptic seizures		1	
Temporary speech loss		1	
Lower limbs paraesthesia and paresis		1	
Hot flushes		1	
Severe stomach pain	2	1	1
Insomnia	3	2	
Hypersensitivity reactions	1		
Leg muscle pain (myalgia)	1	3	1
Gait and orthostatic posture impairment		1	
Excessive sweating	1		
Vomiting	1		
Symptoms (5–15 days post-vaccination)			
<i>Systemic reactions</i>			
Asthenia	2	5	1
Persistent thirst		3	
Severe hands and feet itching	1		
Optic neuritis	1		
Symptoms (15–20 days post-vaccination)			
<i>Systemic reactions</i>			
Amenorrhoea		1	
Skin rashes	1	1	
Tachycardia		1	1
Difficult breathing		1	
Weight loss		1	

Table 5 Proposed diagnostic criteria of autoimmune/inflammatory syndrome induced by adjuvants (ASIA)

Major criteria

Previous exposure to an external stimulus (i.e. vaccine, adjuvant, silicone, nucleic acids, fragments of bacterial cell walls)

One of the following “typical” manifestations:

Myalgia/myositis, muscle weakness

Arthralgia and/or arthritis

Chronic fatigue, non-refreshing sleep or sleep disturbances

Neurological manifestations (especially if associated with demyelination)

Memory loss and cognitive impairment

Fever

Dry mouth

Improvement of symptoms after the removal of the triggering agent

Typical biopsy of the involved organs

Minor criteria

Appearance of autoantibodies or autoantibodies directed against the suspected adjuvant

Other clinical manifestations (i.e. functional somatic syndromes)

Association with specific HLA haplotypes (i.e. HLA-DRB1, HLA-DQB1)

Development of autoimmune diseases

Diagnostic requirements:

Two major criteria

One major criteria + two minor criteria
