



# Vaccination: HPV (Gardasil)

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## **Research Topic**

**Vaccination: HPV (Gardasil)**

This Smart Search PDF was created based on **1** research topic. There are a total of **21** unique research articles on [GreenMedInfo.com](http://GreenMedInfo.com) in regard to your search topic, all compiled in this research document.

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Below you will find compelling research hard-referenced to peer-reviewed biomedical research sourced from the US National Library of Medicine. For more research on over 6000 validated topics, please visit <http://GreenMedInfo.com/research-dashboard>

# Overview of Terms Associated with Your Search Topic

24 Relevant Results for  
Diseases

Disease/Symptom	Cumulative Article Knowledge Count	
Vaccine-induced Toxicity	44	6
Human Papillomavirus (HPV)	41	5
Demyelinating Diseases	20	2
HPV	20	2
Autoimmune Diseases	11	6
Guillain-Barre Syndrome	11	2
Autoimmune/inflammatory syndrome induced by adjuvants (ASIA)	10	1
Cervical Cancer	10	1
Erythema	10	1
Syncope	10	1
Thromboembolism	10	1
Vitamin D Deficiency	10	1
Dysautonomia	3	1
Lupus Erythematosus: Systemic	3	1
Ovarian Failure	3	1
Pancreatitis	3	1
Thrombocytopenia	3	1
Brain Inflammation	2	1
Inflammatory Myopathy	1	1
Macrophagic myofasciitis	1	1
Multiple Sclerosis	1	1
Rheumatoid Arthritis	1	1

<b>Systemic Lupus Erythematosus</b>	<b>1</b>	<b>1</b>
<b>Vasculitis</b>	<b>1</b>	<b>1</b>

2 Relevant Results for Adverse Pharmacological Actions

<b>Adverse Pharmacological Action Name</b>	<b>Cumulative Knowledge</b>	<b>Article Count</b>
<b>Immunotoxic</b>	<b>10</b>	<b>1</b>
<b>Inflammatory</b>	<b>10</b>	<b>1</b>

5 Relevant Results for Keywords

<b>Keyword Name</b>	<b>Cumulative Knowledge</b>	<b>Article Count</b>
<b>Antibody Titers</b>	<b>10</b>	<b>1</b>
<b>HPV Vaccine</b>	<b>10</b>	<b>1</b>
<b>Risk Factors</b>	<b>10</b>	<b>1</b>
<b>Vaccine Efficacy</b>	<b>10</b>	<b>1</b>
<b>Molecular Mimicry</b>	<b>6</b>	<b>2</b>

11 Relevant Results for Problematic Actions

<b>Problematic Action Name</b>	<b>Cumulative Knowledge</b>	<b>Article Count</b>
<b>Vaccination: All</b>	<b>95</b>	<b>12</b>
<b>Vaccination: Diphtheria-Pertussis-Tetanus</b>	<b>1</b>	<b>1</b>
<b>Vaccination: Haemophilus Influenzae</b>	<b>1</b>	<b>1</b>
<b>Vaccination: Hepatitis B</b>	<b>1</b>	<b>1</b>
<b>Vaccination: Influenza</b>	<b>1</b>	<b>1</b>
<b>Vaccination: Lyme disease</b>	<b>1</b>	<b>1</b>
<b>Vaccination: Mumps-Measles-Rubella (MMR)</b>	<b>1</b>	<b>1</b>
<b>Vaccination: Rabies</b>	<b>1</b>	<b>1</b>
<b>Vaccination: Rotavirus</b>	<b>1</b>	<b>1</b>

<b>Vaccination: Tetanus</b>	<b>1</b>	<b>1</b>
<b>Vaccination: Varicella (Chicken pox)</b>	<b>1</b>	<b>1</b>

1 Relevant Result for Problem Substances

<b>Problem Substance Name</b>	<b>Cumulative Knowledge</b>	<b>Article Count</b>
<b>Vaccine Adjuvants</b>	<b>10</b>	<b>1</b>

1 Relevant Result for Substances

<b>Substance Name</b>	<b>Cumulative Knowledge</b>	<b>Article Count</b>
<b>Vitamin D</b>	<b>10</b>	<b>1</b>

1 Relevant Result for Pharmacological Actions

<b>Pharmacological Action Name</b>	<b>Cumulative Knowledge</b>	<b>Article Count</b>
<b>Immunomodulatory</b>	<b>10</b>	<b>1</b>

**View the Evidence.  
21 Research Articles in Total.**

**Category : Diseases**

## **Autoimmune Diseases (AC 6) (CK 11)**

**A 13-year-old girl developed immune thrombocytopenic purpura following vaccination with a quadrivalent human papillomavirus (HPV) vaccine.**

**Pubmed Data** : Semin Hematol. 2016 Apr ;53 Suppl 1:S48-50. Epub 2016 Apr 7. PMID: [27312165](https://pubmed.ncbi.nlm.nih.gov/27312165/)

**Article Published Date** : Mar 31, 2016

**Authors** : Mojca Bizjak, Or Bruck, Darja Kanduc, Sonja Praprotnik, Yehuda Shoenfeld

**Study Type** : Human: Case Report

**Additional Links**

**Diseases** : Autoimmune Diseases : CK(6604) : AC(1119), Thrombocytopenia : CK(231) : AC(25)

**Additional Keywords** : Molecular Mimicry : CK(61) : AC(13)

**Anti Therapeutic Actions** : Vaccination: HPV (Gardasil) : CK(142) : AC(19)

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## Gardasil via its AI adjuvant and HPV antigens has the ability to trigger neuroinflammation and autoimmune reactions.

**Pubmed Data** : Immunol Res. 2016 Jul 16. Epub 2016 Jul 16. PMID: [27421722](#)

**Article Published Date** : Jul 15, 2016

**Authors** : Rotem Inbar, Ronen Weiss, Lucija Tomljenovic, Maria-Teresa Arango, Yael Deri, Christopher A Shaw, Joab Chapman, Miri Blank, Yehuda Shoenfeld

**Study Type** : Animal Study

**Additional Links**

**Diseases** : Autoimmune Diseases : CK(6604) : AC(1119), Brain Inflammation : CK(259) : AC(143)

**Anti Therapeutic Actions** : Vaccination: HPV (Gardasil) : CK(142) : AC(19)

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## The HPV16 vaccine carries with it significant cross-reactivity risk due to the homologies that exist between the HPV and human proteome.

**Pubmed Data** : J Exp Ther Oncol. 2009;8(1):65-76. PMID: [19827272](#)

**Article Published Date** : Jan 01, 2009

**Authors** : Darja Kanduc

**Study Type** : In Vitro Study

**Additional Links**

**Diseases** : Autoimmune Diseases : CK(6604) : AC(1119)

**Anti Therapeutic Actions** : Vaccination: All : CK(5025) : AC(417) , Vaccination: HPV (Gardasil) : CK(142) : AC(19)

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## This case of acute pancreatitis after HPV vaccination is not a novel entity.

**Pubmed Data** : Immunol Res. 2016 Jul 16. Epub 2016 Jul 16. PMID: [27421720](#)

**Article Published Date** : Jul 15, 2016

**Authors** : Mojca Bizjak, Or Bruck, Sonja Praprotnik, Shani Dahan, Yehuda Shoenfeld

**Study Type** : Human: Case Report

**Additional Links**

**Diseases** : Autoimmune Diseases : CK(6604) : AC(1119), Pancreatitis : CK(214) : AC(55)

**Additional Keywords** : Molecular Mimicry : CK(61) : AC(13)

**Anti Therapeutic Actions** : Vaccination: HPV (Gardasil) : CK(142) : AC(19)

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## **This review found evidence of a causal relationship between HPV vaccine and autoimmune diseases in a few cases in the examined studies, and the risk vs. benefit of vaccination is still to be solved.**

**Pubmed Data** : Autoimmun Rev. 2014 Jul ;13(7):736-41. Epub 2014 Jan 24. PMID: [24468416](#)

**Article Published Date** : Jun 30, 2014

**Authors** : Paolo Pellegrino, Carla Carnovale, Marco Pozzi, Stefania Antoniazzi, Valentina Perrone, Dionigi Salvati, Marta Gentili, Tatiana Brusadelli, Emilio Clementi, Sonia Radice

**Study Type** : Review

**Additional Links**

**Diseases** : Autoimmune Diseases : CK(6604) : AC(1119)

**Anti Therapeutic Actions** : Vaccination: HPV (Gardasil) : CK(142) : AC(19)

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## **Vaccination may contribute to causing a wide variety of autoimmune disorders.**

**Pubmed Data** : Discov Med. 2010 Feb;9(45):90-7. PMID: [20193633](#)

**Article Published Date** : Feb 01, 2010

**Authors** : Hedi Orbach, Nancy Agmon-Levin, Gisele Zandman-Goddard

**Study Type** : Commentary

**Additional Links**

**Diseases** : Autoimmune Diseases : CK(6604) : AC(1119), Guillain-Barre Syndrome : CK(110) : AC(18), Human Papillomavirus (HPV) : CK(212) : AC(35), Inflammatory Myopathy : CK(81) : AC(5), Macrophagic myofasciitis : CK(26) : AC(3), Multiple Sclerosis : CK(964) : AC(184), Rheumatoid Arthritis : CK(706) : AC(117), Systemic Lupus Erythematosus : CK(463) : AC(66), Vaccine-induced Toxicity : CK(1288) : AC(194), Vasculitis : CK(48) : AC(11)

**Anti Therapeutic Actions** : Vaccination: All : CK(5014) : AC(413), Vaccination: Diphtheria-Pertussis-Tetanus : CK(315) : AC(36), Vaccination: Haemophilus Influenzae : CK(25) : AC(4), Vaccination: Hepatitis B : CK(407) : AC(54), Vaccination: HPV (Gardasil) : CK(142) : AC(19), Vaccination: Influenza : CK(435) : AC(50), Vaccination: Lyme disease : CK(11) : AC(2), Vaccination: Mumps-Measles-Rubella (MMR) : CK(276) : AC(37), Vaccination: Rabies : CK(4) : AC(3), Vaccination: Rotavirus : CK(33) : AC(6), Vaccination: Tetanus : CK(61) : AC(8), Vaccination: Varicella (Chicken pox) : CK(177) : AC(22)

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# Autoimmune/inflammatory syndrome induced by adjuvants (ASIA) (AC 1) (CK 10)

This was a case study in which 3 patients with autoimmune/auto-inflammatory syndrome induced by adjuvants (ASIA) after quadrivalent human papillomavirus vaccination (HPV).

**Pubmed Data** : Clin Exp Rheumatol. 2015 May 11. Epub 2015 May 11. PMID: [25962455](#)

**Article Published Date** : May 10, 2015

**Authors** : Juan-Manuel Anaya, Benjamin Reyes, Ana M Perdomo-Arciniegas, Bernardo Camacho-Rodríguez, Adriana Rojas-Villarraga

**Study Type** : Human Study

**Additional Links**

**Diseases** : Autoimmune/inflammatory syndrome induced by adjuvants (ASIA) : CK(31) : AC(4)

**Additional Keywords** : Risk Factors : CK(2597) : AC(334)

**Anti Therapeutic Actions** : Vaccination: HPV (Gardasil) : CK(142) : AC(19)

**Problem Substances** : Vaccine Adjuvants : CK(562) : AC(118)

**Adverse Pharmacological Actions** : Immunotoxic : CK(294) : AC(52), Inflammatory : CK(234) : AC(66)

# Brain Inflammation (AC 1) (CK 2)

Gardasil via its AI adjuvant and HPV antigens has the ability to trigger neuroinflammation and autoimmune reactions.

**Pubmed Data** : Immunol Res. 2016 Jul 16. Epub 2016 Jul 16. PMID: [27421722](#)

**Article Published Date** : Jul 15, 2016

**Authors** : Rotem Inbar, Ronen Weiss, Lucija Tomljenovic, Maria-Teresa Arango, Yael Deri, Christopher A Shaw, Joab Chapman, Miri Blank, Yehuda Shoenfeld

**Study Type** : Animal Study

**Additional Links**

**Diseases** : [Autoimmune Diseases](#) : CK(6604) : AC(1119), [Brain Inflammation](#) : CK(259) : AC(143)

**Anti Therapeutic Actions** : [Vaccination: HPV \(Gardasil\)](#) : CK(142) : AC(19)

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## Cervical Cancer (AC 1) (CK 10)

### The risk of miscarriage increases following HPV vaccination.

**Pubmed Data** : BMJ. 2010;340:c712. Epub 2010 Mar 2. PMID: [20197322](#)

**Article Published Date** : Jan 01, 2010

**Authors** : Sholom Wacholder, Bingshu Eric Chen, Allen Wilcox, George Macones, Paula Gonzalez, Brian Befano, Allan Hildesheim, Ana Cecilia Rodríguez, Diane Solomon, Rolando Herrero, Mark Schiffman,

**Study Type** : Human Study

**Additional Links**

**Diseases** : [Cervical Cancer](#) : CK(345) : AC(144)

**Anti Therapeutic Actions** : [Vaccination: All](#) : CK(5025) : AC(417), [Vaccination: HPV \(Gardasil\)](#) : CK(142) : AC(19)

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## Demyelinating Diseases (AC 2) (CK 20)

### HPV vaccination has been linked to demyelination.

**Pubmed Data** : J Child Neurol. 2010 Mar;25(3):321-7. PMID: [20189933](#)

**Article Published Date** : Mar 01, 2010

**Authors** : Francis J DiMario, Mirna Hajjar, Thomas Ciesielski

**Study Type** : Human Study

**Additional Links**

**Diseases** : [Demyelinating Diseases](#) : CK(1671) : AC(332)

**Anti Therapeutic Actions** : [Vaccination: All](#) : CK(5014) : AC(413), [Vaccination: HPV \(Gardasil\)](#) : CK(142) : AC(19)

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## Human Papilloma Virus (HPV) vaccine is associated with demyelinating events.

**Pubmed Data** : Mult Scler. 2009 Jan;15(1):116-9. Epub 2008 Sep 19. PMID: [18805844](#)

**Article Published Date** : Jan 01, 2009

**Authors** : I Sutton, R Lahoria, Il Tan, P Clouston, Mh Barnett

**Study Type** : Human Study

### Additional Links

**Diseases** : Demyelinating Diseases : CK(1671) : AC(332), HPV : CK(31) : AC(4), Human Papillomavirus (HPV) : CK(212) : AC(35), Vaccine-induced Toxicity : CK(1288) : AC(194)

**Additional Keywords** : HPV Vaccine : CK(10) : AC(1)

**Anti Therapeutic Actions** : Vaccination: All : CK(5014) : AC(413), Vaccination: HPV (Gardasil) : CK(142) : AC(19)

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## Dysautonomia (AC 1) (CK 3)

### Severe somatoform and dysautonomic syndromes after HPV vaccination: case series and review of literature.

**Pubmed Data** : Immunol Res. 2016 Aug 9. Epub 2016 Aug 9. PMID: [27503625](#)

**Article Published Date** : Aug 08, 2016

**Authors** : Beniamino Palmieri, Dimitri Poddighe, Maria Vadalà, Carmen Laurino, Carla Carnovale, Emilio Clementi

**Study Type** : Human: Case Report

### Additional Links

**Diseases** : Dysautonomia : CK(3) : AC(1)

**Anti Therapeutic Actions** : Vaccination: HPV (Gardasil) : CK(150) : AC(22)

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## Erythema (AC 1) (CK 10)

Erythema multiforme has been reported as a possible side effect of vaccination for human papillomavirus.

**Pubmed Data** : Dermatology. 2010;220(1):60-2. Epub 2009 Nov 3. PMID: [19887766](#)

**Article Published Date** : Jan 01, 2010

**Authors** : A C Katoulis, A Liakou, E Bozi, M Theodorakis, A Alevizou, A Zafeiraki, M Mistidou, N G Stavrianeas

**Study Type** : Human Study

**Additional Links**

**Diseases** : Erythema : CK(74) : AC(9)

**Anti Therapeutic Actions** : Vaccination: All : CK(5025) : AC(417) , Vaccination: HPV (Gardasil) : CK(150) : AC(22)

## Guillain-Barre Syndrome (AC 2) (CK 11)

**There were 69 reports of Guillain-Barré Syndrome (GBS) after Gardasil vaccination that occurred in the United States between 2006 and 2009.**

**Pubmed Data** : Vaccine. 2010 Sep 23. Epub 2010 Sep 23. PMID: [20869467](#)

**Article Published Date** : Sep 23, 2010

**Authors** : Nizar Souayah, P A Michas-Martin, Abu Nasar, Nataliya Krivitskaya, Hussam A Yacoub, Hafiz Khan, Adnan I Qureshi

**Study Type** : Human Study

**Additional Links**

**Diseases** : Guillain-Barre Syndrome : CK(110) : AC(18) , Vaccine-induced Toxicity : CK(1288) : AC(194)

**Anti Therapeutic Actions** : Vaccination: All : CK(5014) : AC(413) , Vaccination: HPV (Gardasil) : CK(142) : AC(19)

**Vaccination may contribute to causing a wide variety of autoimmune disorders.**

**Pubmed Data** : Discov Med. 2010 Feb;9(45):90-7. PMID: [20193633](#)

**Article Published Date** : Feb 01, 2010

**Authors** : Hedi Orbach, Nancy Agmon-Levin, Gisele Zandman-Goddard

**Study Type** : Commentary

**Additional Links**

**Diseases** : Autoimmune Diseases : CK(6604) : AC(1119) , Guillain-Barre Syndrome : CK(110) : AC(18) ,

Human Papillomavirus (HPV) : CK(212) : AC(35), Inflammatory Myopathy : CK(81) : AC(5), Macrophagic myofasciitis : CK(26) : AC(3), Multiple Sclerosis : CK(964) : AC(184), Rheumatoid Arthritis : CK(706) : AC(117), Systemic Lupus Erythematosus : CK(463) : AC(66), Vaccine-induced Toxicity : CK(1288) : AC(194), Vasculitis : CK(48) : AC(11)

**Anti Therapeutic Actions** : Vaccination: All : CK(5014) : AC(413), Vaccination: Diphtheria-Pertussis-Tetanus : CK(315) : AC(36), Vaccination: Haemophilus Influenzae : CK(25) : AC(4), Vaccination: Hepatitis B : CK(407) : AC(54), Vaccination: HPV (Gardasil) : CK(142) : AC(19), Vaccination: Influenza : CK(435) : AC(50), Vaccination: Lyme disease : CK(11) : AC(2), Vaccination: Mumps-Measles-Rubella (MMR) : CK(276) : AC(37), Vaccination: Rabies : CK(4) : AC(3), Vaccination: Rotavirus : CK(33) : AC(6), Vaccination: Tetanus : CK(61) : AC(8), Vaccination: Varicella (Chicken pox) : CK(177) : AC(22)

## HPV (AC 2) (CK 20)

### Human Papilloma Virus (HPV) vaccine is associated with demyelinating events.

**Pubmed Data** : Mult Scler. 2009 Jan;15(1):116-9. Epub 2008 Sep 19. PMID: [18805844](#)

**Article Published Date** : Jan 01, 2009

**Authors** : I Sutton, R Lahoria, Il Tan, P Clouston, Mh Barnett

**Study Type** : Human Study

#### Additional Links

**Diseases** : Demyelinating Diseases : CK(1671) : AC(332), HPV : CK(31) : AC(4), Human Papillomavirus (HPV) : CK(212) : AC(35), Vaccine-induced Toxicity : CK(1288) : AC(194)

**Additional Keywords** : HPV Vaccine : CK(10) : AC(1)

**Anti Therapeutic Actions** : Vaccination: All : CK(5014) : AC(413), Vaccination: HPV (Gardasil) : CK(142) : AC(19)

### The way that the effectiveness of HPV vaccines are framed influences whether or not respondents believe they are effective and their acceptance level of vaccine mandate policies.

**Pubmed Data** : Patient Educ Couns. 2010 Sep 17. Epub 2010 Sep 17. PMID: [20851560](#)

**Article Published Date** : Sep 17, 2010

**Authors** : Cabral A Bigman, Joseph N Cappella, Robert C Hornik

**Study Type** : Human Study

#### Additional Links

**Diseases** : HPV : CK(31) : AC(4)

**Anti Therapeutic Actions** : Vaccination: All : CK(5025) : AC(417) , Vaccination: HPV (Gardasil) : CK(150) : AC(22)

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## Human Papillomavirus (HPV) (AC 5) (CK 41)

**An Italian study found that 61% of women experienced an adverse event after the administration of the first dose of HPV vaccine.**

**Pubmed Data** : Recent Prog Med. 2013 Jun ;104(6):262-6. PMID: [23801230](#)

**Article Published Date** : May 31, 2013

**Authors** : Stefania Spila-Alegiani, Roberto Da Cas, Cristina Giambi, Roberto Raschetti, Stefania Salmaso

**Study Type** : Human Study

**Additional Links**

**Diseases** : Human Papillomavirus (HPV) : CK(212) : AC(35), Vaccine-induced Toxicity : CK(1288) : AC(194)

**Anti Therapeutic Actions** : Vaccination: HPV (Gardasil) : CK(150) : AC(22)

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**Antibody titers for all HPV strains were significantly higher among those with lower vitamin D levels and among younger participants.**

**Pubmed Data** : Hum Vaccin Immunother. 2015 Jul 15:0. Epub 2015 Jul 15. PMID: [26176493](#)

**Article Published Date** : Jul 14, 2015

**Authors** : Richard K Zimmerman, Chyongchiou Jeng Lin, Jonathan M Raviotta, Mary Patricia Nowalk

**Study Type** : Human Study

**Additional Links**

**Substances** : Vitamin D : CK(3176) : AC(449)

**Diseases** : Human Papillomavirus (HPV) : CK(212) : AC(35), Vitamin D Deficiency : CK(1695) : AC(178)

**Pharmacological Actions** : Immunomodulatory : CK(1287) : AC(358)

**Additional Keywords** : Antibody Titers : CK(13) : AC(2), Vaccine Efficacy : CK(10) : AC(1)

**Anti Therapeutic Actions** : Vaccination: HPV (Gardasil) : CK(142) : AC(19)

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## HPV vaccination does not have a therapeutic effect in young women with pre-existing human papillomavirus infection.

**Pubmed Data** : JAMA. 2007 Aug 15;298(7):743-53. PMID: [17699008](#)

**Article Published Date** : Aug 15, 2007

**Authors** : Allan Hildesheim, Rolando Herrero, Sholom Wacholder, Ana C Rodriguez, Diane Solomon, M Concepcion Bratti, John T Schiller, Paula Gonzalez, Gary Dubin, Carolina Porras, Silvia E Jimenez, Douglas R Lowy,

**Study Type** : Human Study

**Additional Links**

**Diseases** : Human Papillomavirus (HPV) : CK(212) : AC(35)

**Anti Therapeutic Actions** : Vaccination: All : CK(5025) : AC(417) , Vaccination: HPV (Gardasil) : CK(150) : AC(22)

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## Human Papilloma Virus (HPV) vaccine is associated with demyelinating events.

**Pubmed Data** : Mult Scler. 2009 Jan;15(1):116-9. Epub 2008 Sep 19. PMID: [18805844](#)

**Article Published Date** : Jan 01, 2009

**Authors** : I Sutton, R Lahoria, Il Tan, P Clouston, Mh Barnett

**Study Type** : Human Study

**Additional Links**

**Diseases** : Demyelinating Diseases : CK(1671) : AC(332), HPV : CK(31) : AC(4), Human Papillomavirus (HPV) : CK(212) : AC(35), Vaccine-induced Toxicity : CK(1288) : AC(194)

**Additional Keywords** : HPV Vaccine : CK(10) : AC(1)

**Anti Therapeutic Actions** : Vaccination: All : CK(5014) : AC(413) , Vaccination: HPV (Gardasil) : CK(142) : AC(19)

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## Vaccination may contribute to causing a wide variety of autoimmune disorders.

**Pubmed Data** : Discov Med. 2010 Feb;9(45):90-7. PMID: [20193633](#)

**Article Published Date** : Feb 01, 2010

**Authors** : Hedi Orbach, Nancy Agmon-Levin, Gisele Zandman-Goddard

**Study Type** : Commentary

**Additional Links**

**Diseases** : Autoimmune Diseases : CK(6604) : AC(1119), Guillain-Barre Syndrome : CK(110) : AC(18), Human Papillomavirus (HPV) : CK(212) : AC(35), Inflammatory Myopathy : CK(81) : AC(5), Macrophagic myofasciitis : CK(26) : AC(3), Multiple Sclerosis : CK(964) : AC(184), Rheumatoid Arthritis : CK(706) : AC(117), Systemic Lupus Erythematosus : CK(463) : AC(66), Vaccine-induced Toxicity : CK(1288) : AC(194), Vasculitis : CK(48) : AC(11)

**Anti Therapeutic Actions** : Vaccination: All : CK(5014) : AC(413) , Vaccination: Diphtheria-Pertussis-Tetanus : CK(315) : AC(36), Vaccination: Haemophilus Influenzae : CK(25) : AC(4) ,

Vaccination: Hepatitis B : CK(407) : AC(54) , Vaccination: HPV (Gardasil) : CK(142) : AC(19) ,  
Vaccination: Influenza : CK(435) : AC(50) , Vaccination: Lyme disease : CK(11) : AC(2) , Vaccination:  
Mumps-Measles-Rubella (MMR) : CK(276) : AC(37), Vaccination: Rabies : CK(4) : AC(3) , Vaccination:  
Rotavirus : CK(33) : AC(6), Vaccination: Tetanus : CK(61) : AC(8) , Vaccination: Varicella (Chicken pox)  
: CK(177) : AC(22)

## Inflammatory Myopathy (AC 1) (CK 1)

**Vaccination may contribute to causing a wide variety of autoimmune disorders.**

**Pubmed Data** : Discov Med. 2010 Feb;9(45):90-7. PMID: [20193633](#)

**Article Published Date** : Feb 01, 2010

**Authors** : Hedi Orbach, Nancy Agmon-Levin, Gisele Zandman-Goddard

**Study Type** : Commentary

**Additional Links**

**Diseases** : Autoimmune Diseases : CK(6604) : AC(1119), Guillain-Barre Syndrome : CK(110) : AC(18) ,  
Human Papillomavirus (HPV) : CK(212) : AC(35) , Inflammatory Myopathy : CK(81) : AC(5) ,  
Macrophagic myofasciitis : CK(26) : AC(3), Multiple Sclerosis : CK(964) : AC(184) , Rheumatoid  
Arthritis : CK(706) : AC(117), Systemic Lupus Erythematosus : CK(463) : AC(66) , Vaccine-induced  
Toxicity : CK(1288) : AC(194), Vasculitis : CK(48) : AC(11)

**Anti Therapeutic Actions** : Vaccination: All : CK(5014) : AC(413) , Vaccination: Diphtheria-  
Pertussis-Tetanus : CK(315) : AC(36), Vaccination: Haemophilus Influenzae : CK(25) : AC(4) ,  
Vaccination: Hepatitis B : CK(407) : AC(54) , Vaccination: HPV (Gardasil) : CK(142) : AC(19) ,  
Vaccination: Influenza : CK(435) : AC(50) , Vaccination: Lyme disease : CK(11) : AC(2) , Vaccination:  
Mumps-Measles-Rubella (MMR) : CK(276) : AC(37), Vaccination: Rabies : CK(4) : AC(3) , Vaccination:  
Rotavirus : CK(33) : AC(6), Vaccination: Tetanus : CK(61) : AC(8) , Vaccination: Varicella (Chicken pox)  
: CK(177) : AC(22)

## Lupus Erythematosus: Systemic (AC 1) (CK 3)

**Possible systemic lupus erythematosus following HPV**

## immunization has been reported.

**Pubmed Data** : Lupus. 2012 ;21(2):158-61. PMID: [22235047](#)

**Article Published Date** : Jan 01, 2012

**Authors** : Hf Soldevilla, Sfr Briones, Sv Navarra

**Study Type** : Human: Case Report

### Additional Links

**Diseases** : Lupus Erythematosus: Systemic : CK(463) : AC(66) , Vaccine-induced Toxicity : CK(1288) : AC(194)

**Anti Therapeutic Actions** : Vaccination: All : CK(5025) : AC(417) , Vaccination: HPV (Gardasil) : CK(150) : AC(22)

# Macrophagic myofasciitis (AC 1) (CK 1)

## Vaccination may contribute to causing a wide variety of autoimmune disorders.

**Pubmed Data** : Discov Med. 2010 Feb;9(45):90-7. PMID: [20193633](#)

**Article Published Date** : Feb 01, 2010

**Authors** : Hedi Orbach, Nancy Agmon-Levin, Gisele Zandman-Goddard

**Study Type** : Commentary

### Additional Links

**Diseases** : Autoimmune Diseases : CK(6604) : AC(1119) , Guillain-Barre Syndrome : CK(110) : AC(18) , Human Papillomavirus (HPV) : CK(212) : AC(35) , Inflammatory Myopathy : CK(81) : AC(5) , Macrophagic myofasciitis : CK(26) : AC(3) , Multiple Sclerosis : CK(964) : AC(184) , Rheumatoid Arthritis : CK(706) : AC(117) , Systemic Lupus Erythematosus : CK(463) : AC(66) , Vaccine-induced Toxicity : CK(1288) : AC(194) , Vasculitis : CK(48) : AC(11)

**Anti Therapeutic Actions** : Vaccination: All : CK(5014) : AC(413) , Vaccination: Diphtheria-Pertussis-Tetanus : CK(315) : AC(36) , Vaccination: Haemophilus Influenzae : CK(25) : AC(4) , Vaccination: Hepatitis B : CK(407) : AC(54) , Vaccination: HPV (Gardasil) : CK(142) : AC(19) , Vaccination: Influenza : CK(435) : AC(50) , Vaccination: Lyme disease : CK(11) : AC(2) , Vaccination: Mumps-Measles-Rubella (MMR) : CK(276) : AC(37) , Vaccination: Rabies : CK(4) : AC(3) , Vaccination: Rotavirus : CK(33) : AC(6) , Vaccination: Tetanus : CK(61) : AC(8) , Vaccination: Varicella (Chicken pox) : CK(177) : AC(22)

# Multiple Sclerosis (AC 1) (CK 1)

**Vaccination may contribute to causing a wide variety of autoimmune disorders.**

**Pubmed Data** : Discov Med. 2010 Feb;9(45):90-7. PMID: [20193633](#)

**Article Published Date** : Feb 01, 2010

**Authors** : Hedi Orbach, Nancy Agmon-Levin, Gisele Zandman-Goddard

**Study Type** : Commentary

**Additional Links**

**Diseases** : Autoimmune Diseases : CK(6604) : AC(1119), Guillain-Barre Syndrome : CK(110) : AC(18), Human Papillomavirus (HPV) : CK(212) : AC(35), Inflammatory Myopathy : CK(81) : AC(5), Macrophagic myofasciitis : CK(26) : AC(3), Multiple Sclerosis : CK(964) : AC(184), Rheumatoid Arthritis : CK(706) : AC(117), Systemic Lupus Erythematosus : CK(463) : AC(66), Vaccine-induced Toxicity : CK(1288) : AC(194), Vasculitis : CK(48) : AC(11)

**Anti Therapeutic Actions** : Vaccination: All : CK(5014) : AC(413), Vaccination: Diphtheria-Pertussis-Tetanus : CK(315) : AC(36), Vaccination: Haemophilus Influenzae : CK(25) : AC(4), Vaccination: Hepatitis B : CK(407) : AC(54), Vaccination: HPV (Gardasil) : CK(142) : AC(19), Vaccination: Influenza : CK(435) : AC(50), Vaccination: Lyme disease : CK(11) : AC(2), Vaccination: Mumps-Measles-Rubella (MMR) : CK(276) : AC(37), Vaccination: Rabies : CK(4) : AC(3), Vaccination: Rotavirus : CK(33) : AC(6), Vaccination: Tetanus : CK(61) : AC(8), Vaccination: Varicella (Chicken pox) : CK(177) : AC(22)

# Ovarian Failure (AC 1) (CK 3)

**"Human papilloma virus vaccine and primary ovarian failure: another facet of the autoimmune/inflammatory syndrome induced by adjuvants."**

**Pubmed Data** : Am J Reprod Immunol. 2013 Oct ;70(4):309-16. Epub 2013 Jul 31. PMID: [23902317](#)

**Article Published Date** : Sep 30, 2013

**Authors** : Serena Colafrancesco, Carlo Perricone, Lucija Tomljenovic, Yehuda Shoenfeld

**Study Type** : Human: Case Report

**Additional Links**

**Diseases** : Ovarian Failure : CK(4) : AC(2)

**Anti Therapeutic Actions** : Vaccination: HPV (Gardasil) : CK(150) : AC(22)



## Pancreatitis (AC 1) (CK 3)

**This case of acute pancreatitis after HPV vaccination is not a novel entity.**

**Pubmed Data** : Immunol Res. 2016 Jul 16. Epub 2016 Jul 16. PMID: [27421720](#)

**Article Published Date** : Jul 15, 2016

**Authors** : Mojca Bizjak, Or Bruck, Sonja Praprotnik, Shani Dahan, Yehuda Shoenfeld

**Study Type** : Human: Case Report

### **Additional Links**

**Diseases** : Autoimmune Diseases : CK(6604) : AC(1119), Pancreatitis : CK(214) : AC(55)

**Additional Keywords** : Molecular Mimicry : CK(61) : AC(13)

**Anti Therapeutic Actions** : Vaccination: HPV (Gardasil) : CK(142) : AC(19)

## Rheumatoid Arthritis (AC 1) (CK 1)

**Vaccination may contribute to causing a wide variety of autoimmune disorders.**

**Pubmed Data** : Discov Med. 2010 Feb;9(45):90-7. PMID: [20193633](#)

**Article Published Date** : Feb 01, 2010

**Authors** : Hedi Orbach, Nancy Agmon-Levin, Gisele Zandman-Goddard

**Study Type** : Commentary

### **Additional Links**

**Diseases** : Autoimmune Diseases : CK(6604) : AC(1119), Guillain-Barre Syndrome : CK(110) : AC(18), Human Papillomavirus (HPV) : CK(212) : AC(35), Inflammatory Myopathy : CK(81) : AC(5), Macrophagic myofasciitis : CK(26) : AC(3), Multiple Sclerosis : CK(964) : AC(184), Rheumatoid Arthritis : CK(706) : AC(117), Systemic Lupus Erythematosus : CK(463) : AC(66), Vaccine-induced Toxicity : CK(1288) : AC(194), Vasculitis : CK(48) : AC(11)

**Anti Therapeutic Actions** : Vaccination: All : CK(5014) : AC(413), Vaccination: Diphtheria-Pertussis-Tetanus : CK(315) : AC(36), Vaccination: Haemophilus Influenzae : CK(25) : AC(4), Vaccination: Hepatitis B : CK(407) : AC(54), Vaccination: HPV (Gardasil) : CK(142) : AC(19), Vaccination: Influenza : CK(435) : AC(50), Vaccination: Lyme disease : CK(11) : AC(2), Vaccination: Mumps-Measles-Rubella (MMR) : CK(276) : AC(37), Vaccination: Rabies : CK(4) : AC(3), Vaccination: Rotavirus : CK(33) : AC(6), Vaccination: Tetanus : CK(61) : AC(8), Vaccination: Varicella (Chicken pox) : CK(177) : AC(22)

## Syncope (AC 1) (CK 10)

**Postlicensure safety surveillance has revealed a disproportionate reporting of syncope and venous thromboembolic events following quadrivalent HPV vaccination.**

**Pubmed Data** : JAMA. 2009 Aug 19;302(7):750-7. PMID: [19690307](#)

**Article Published Date** : Aug 19, 2009

**Authors** : Barbara A Slade, Laura Leidel, Claudia Vellozzi, Emily Jane Woo, Wei Hua, Andrea Sutherland, Hector S Izurieta, Robert Ball, Nancy Miller, M Miles Braun, Lauri E Markowitz, John Iskander

**Study Type** : Human Study

**Additional Links**

**Diseases** : Syncope : CK(10) : AC(1), Thromboembolism : CK(205) : AC(16)

**Anti Therapeutic Actions** : Vaccination: All : CK(5025) : AC(417), Vaccination: HPV (Gardasil) : CK(150) : AC(22)

## Systemic Lupus Erythematosus (AC 1) (CK 1)

**Vaccination may contribute to causing a wide variety of autoimmune disorders.**

**Pubmed Data** : Discov Med. 2010 Feb;9(45):90-7. PMID: [20193633](#)

**Article Published Date** : Feb 01, 2010

**Authors** : Hedi Orbach, Nancy Agmon-Levin, Gisele Zandman-Goddard

**Study Type** : Commentary

**Additional Links**

**Diseases** : Autoimmune Diseases : CK(6604) : AC(1119), Guillain-Barre Syndrome : CK(110) : AC(18), Human Papillomavirus (HPV) : CK(212) : AC(35), Inflammatory Myopathy : CK(81) : AC(5),

Macrophagic myofasciitis : CK(26) : AC(3), Multiple Sclerosis : CK(964) : AC(184), Rheumatoid Arthritis : CK(706) : AC(117), Systemic Lupus Erythematosus : CK(463) : AC(66), Vaccine-induced Toxicity : CK(1288) : AC(194), Vasculitis : CK(48) : AC(11)

**Anti Therapeutic Actions** : Vaccination: All : CK(5014) : AC(413), Vaccination: Diphtheria-Pertussis-Tetanus : CK(315) : AC(36), Vaccination: Haemophilus Influenzae : CK(25) : AC(4), Vaccination: Hepatitis B : CK(407) : AC(54), Vaccination: HPV (Gardasil) : CK(142) : AC(19), Vaccination: Influenza : CK(435) : AC(50), Vaccination: Lyme disease : CK(11) : AC(2), Vaccination: Mumps-Measles-Rubella (MMR) : CK(276) : AC(37), Vaccination: Rabies : CK(4) : AC(3), Vaccination: Rotavirus : CK(33) : AC(6), Vaccination: Tetanus : CK(61) : AC(8), Vaccination: Varicella (Chicken pox) : CK(177) : AC(22)

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## Thrombocytopenia (AC 1) (CK 3)

**A 13-year-old girl developed immune thrombocytopenic purpura following vaccination with a quadrivalent human papillomavirus (HPV) vaccine.**

**Pubmed Data** : Semin Hematol. 2016 Apr ;53 Suppl 1:S48-50. Epub 2016 Apr 7. PMID: [27312165](#)

**Article Published Date** : Mar 31, 2016

**Authors** : Mojca Bizjak, Or Bruck, Darja Kanduc, Sonja Praprotnik, Yehuda Shoenfeld

**Study Type** : Human: Case Report

**Additional Links**

**Diseases** : Autoimmune Diseases : CK(6604) : AC(1119), Thrombocytopenia : CK(231) : AC(25)

**Additional Keywords** : Molecular Mimicry : CK(61) : AC(13)

**Anti Therapeutic Actions** : Vaccination: HPV (Gardasil) : CK(142) : AC(19)

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## Thromboembolism (AC 1) (CK 10)

**Postlicensure safety surveillance has revealed a disproportionate reporting of syncope and venous thromboembolic events following quadrivalent HPV vaccination.**

**Pubmed Data** : JAMA. 2009 Aug 19;302(7):750-7. PMID: [19690307](#)

**Article Published Date** : Aug 19, 2009

**Authors** : Barbara A Slade, Laura Leidel, Claudia Vellozzi, Emily Jane Woo, Wei Hua, Andrea Sutherland, Hector S Izurieta, Robert Ball, Nancy Miller, M Miles Braun, Lauri E Markowitz, John Iskander

**Study Type** : Human Study

**Additional Links**

**Diseases** : [Syncope](#) : CK(10) : AC(1), [Thromboembolism](#) : CK(205) : AC(16)

**Anti Therapeutic Actions** : [Vaccination: All](#) : CK(5025) : AC(417), [Vaccination: HPV \(Gardasil\)](#) : CK(150) : AC(22)

## Vaccine-induced Toxicity (AC 6) (CK 44)

**An Italian study found that 61% of women experienced an adverse event after the administration of the first dose of HPV vaccine.**

**Pubmed Data** : Recent Prog Med. 2013 Jun ;104(6):262-6. PMID: [23801230](#)

**Article Published Date** : May 31, 2013

**Authors** : Stefania Spila-Alegiani, Roberto Da Cas, Cristina Giambi, Roberto Raschetti, Stefania Salmaso

**Study Type** : Human Study

**Additional Links**

**Diseases** : [Human Papillomavirus \(HPV\)](#) : CK(212) : AC(35), [Vaccine-induced Toxicity](#) : CK(1288) : AC(194)

**Anti Therapeutic Actions** : [Vaccination: HPV \(Gardasil\)](#) : CK(150) : AC(22)

**Human Papilloma Virus (HPV) vaccine is associated with demyelinating events.**

**Pubmed Data** : Mult Scler. 2009 Jan;15(1):116-9. Epub 2008 Sep 19. PMID: [18805844](#)

**Article Published Date** : Jan 01, 2009

**Authors** : I Sutton, R Lahoria, Il Tan, P Clouston, Mh Barnett

**Study Type** : Human Study

**Additional Links**

**Diseases** : [Demyelinating Diseases](#) : CK(1671) : AC(332), [HPV](#) : CK(31) : AC(4), [Human](#)

Papillomavirus (HPV) : CK(212) : AC(35), Vaccine-induced Toxicity : CK(1288) : AC(194)

**Additional Keywords** : HPV Vaccine : CK(10) : AC(1)

**Anti Therapeutic Actions** : Vaccination: All : CK(5014) : AC(413) , Vaccination: HPV (Gardasil) : CK(142) : AC(19)

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## Noticeable adverse reactions to the HPV vaccine occurred in 22% of those polled.

**Pubmed Data** : Aten Primaria. 2010 Dec 14. Epub 2010 Dec 14. PMID: [21163554](#)

**Article Published Date** : Dec 14, 2010

**Authors** : M Amparo Torrecilla Rojas, Miguel Pedregal González, Fermín García Rodríguez, Josefa Ruiz Fernández

**Study Type** : Human Study

**Additional Links**

**Diseases** : Vaccine-induced Toxicity : CK(1288) : AC(194)

**Anti Therapeutic Actions** : Vaccination: All : CK(5025) : AC(417) , Vaccination: HPV (Gardasil) : CK(150) : AC(22)

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## Possible systemic lupus erythematosus following HPV immunization has been reported.

**Pubmed Data** : Lupus. 2012 ;21(2):158-61. PMID: [22235047](#)

**Article Published Date** : Jan 01, 2012

**Authors** : Hf Soldevilla, Sfr Briones, Sv Navarra

**Study Type** : Human: Case Report

**Additional Links**

**Diseases** : Lupus Erythematosus: Systemic : CK(463) : AC(66) , Vaccine-induced Toxicity : CK(1288) : AC(194)

**Anti Therapeutic Actions** : Vaccination: All : CK(5025) : AC(417) , Vaccination: HPV (Gardasil) : CK(150) : AC(22)

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## There were 69 reports of Guillain-Barré Syndrome (GBS) after Gardasil vaccination that occurred in the United States between 2006 and 2009.

**Pubmed Data** : Vaccine. 2010 Sep 23. Epub 2010 Sep 23. PMID: [20869467](#)

**Article Published Date** : Sep 23, 2010

**Authors** : Nizar Souayah, P A Michas-Martin, Abu Nasar, Nataliya Krivitskaya, Hussam A Yacoub, Hafiz Khan, Adnan I Qureshi

**Study Type** : Human Study

**Additional Links**

**Diseases** : Guillain-Barre Syndrome : CK(110) : AC(18) , Vaccine-induced Toxicity : CK(1288) : AC(194)

**Anti Therapeutic Actions** : Vaccination: All : CK(5014) : AC(413) , Vaccination: HPV (Gardasil) : CK(142) : AC(19)

## Vaccination may contribute to causing a wide variety of autoimmune disorders.

**Pubmed Data** : Discov Med. 2010 Feb;9(45):90-7. PMID: [20193633](#)

**Article Published Date** : Feb 01, 2010

**Authors** : Hedi Orbach, Nancy Agmon-Levin, Gisele Zandman-Goddard

**Study Type** : Commentary

### Additional Links

**Diseases** : Autoimmune Diseases : CK(6604) : AC(1119), Guillain-Barre Syndrome : CK(110) : AC(18) , Human Papillomavirus (HPV) : CK(212) : AC(35) , Inflammatory Myopathy : CK(81) : AC(5) , Macrophagic myofasciitis : CK(26) : AC(3), Multiple Sclerosis : CK(964) : AC(184) , Rheumatoid Arthritis : CK(706) : AC(117), Systemic Lupus Erythematosus : CK(463) : AC(66) , Vaccine-induced Toxicity : CK(1288) : AC(194), Vasculitis : CK(48) : AC(11)

**Anti Therapeutic Actions** : Vaccination: All : CK(5014) : AC(413) , Vaccination: Diphtheria-Pertussis-Tetanus : CK(315) : AC(36), Vaccination: Haemophilus Influenzae : CK(25) : AC(4) , Vaccination: Hepatitis B : CK(407) : AC(54) , Vaccination: HPV (Gardasil) : CK(142) : AC(19) , Vaccination: Influenza : CK(435) : AC(50) , Vaccination: Lyme disease : CK(11) : AC(2) , Vaccination: Mumps-Measles-Rubella (MMR) : CK(276) : AC(37), Vaccination: Rabies : CK(4) : AC(3) , Vaccination: Rotavirus : CK(33) : AC(6), Vaccination: Tetanus : CK(61) : AC(8) , Vaccination: Varicella (Chicken pox) : CK(177) : AC(22)

## Vasculitis (AC 1) (CK 1)

## Vaccination may contribute to causing a wide variety of autoimmune disorders.

**Pubmed Data** : Discov Med. 2010 Feb;9(45):90-7. PMID: [20193633](#)

**Article Published Date** : Feb 01, 2010

**Authors** : Hedi Orbach, Nancy Agmon-Levin, Gisele Zandman-Goddard

**Study Type** : Commentary

### Additional Links

**Diseases** : Autoimmune Diseases : CK(6604) : AC(1119), Guillain-Barre Syndrome : CK(110) : AC(18) , Human Papillomavirus (HPV) : CK(212) : AC(35) , Inflammatory Myopathy : CK(81) : AC(5) , Macrophagic myofasciitis : CK(26) : AC(3), Multiple Sclerosis : CK(964) : AC(184) , Rheumatoid Arthritis : CK(706) : AC(117), Systemic Lupus Erythematosus : CK(463) : AC(66) , Vaccine-induced Toxicity : CK(1288) : AC(194), Vasculitis : CK(48) : AC(11)

**Anti Therapeutic Actions** : Vaccination: All : CK(5014) : AC(413) , Vaccination: Diphtheria-

Pertussis-Tetanus : CK(315) : AC(36), Vaccination: Haemophilus Influenzae : CK(25) : AC(4) ,  
Vaccination: Hepatitis B : CK(407) : AC(54) , Vaccination: HPV (Gardasil) : CK(142) : AC(19) ,  
Vaccination: Influenza : CK(435) : AC(50) , Vaccination: Lyme disease : CK(11) : AC(2) , Vaccination:  
Mumps-Measles-Rubella (MMR) : CK(276) : AC(37), Vaccination: Rabies : CK(4) : AC(3) , Vaccination:  
Rotavirus : CK(33) : AC(6), Vaccination: Tetanus : CK(61) : AC(8) , Vaccination: Varicella (Chicken pox)  
: CK(177) : AC(22)

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## Vitamin D Deficiency (AC 1) (CK 10)

**Antibody titers for all HPV strains were significantly higher among those with lower vitamin D levels and among younger participants.**

**Pubmed Data** : Hum Vaccin Immunother. 2015 Jul 15:0. Epub 2015 Jul 15. PMID: [26176493](#)

**Article Published Date** : Jul 14, 2015

**Authors** : Richard K Zimmerman, Chyongchiou Jeng Lin, Jonathan M Raviotta, Mary Patricia Nowalk

**Study Type** : Human Study

**Additional Links**

**Substances** : Vitamin D : CK(3176) : AC(449)

**Diseases** : Human Papillomavirus (HPV) : CK(212) : AC(35), Vitamin D Deficiency : CK(1695) : AC(178)

**Pharmacological Actions** : Immunomodulatory : CK(1287) : AC(358)

**Additional Keywords** : Antibody Titers : CK(13) : AC(2), Vaccine Efficacy : CK(10) : AC(1)

**Anti Therapeutic Actions** : Vaccination: HPV (Gardasil) : CK(142) : AC(19)

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## Category : Adverse Pharmacological Actions

### Immunotoxic (AC 1) (CK 10)

## This was a case study in which 3 patients with autoimmune/auto-inflammatory syndrome induced by adjuvants (ASIA) after quadrivalent human papillomavirus vaccination (HPV).

**Pubmed Data** : Clin Exp Rheumatol. 2015 May 11. Epub 2015 May 11. PMID: [25962455](#)

**Article Published Date** : May 10, 2015

**Authors** : Juan-Manuel Anaya, Benjamin Reyes, Ana M Perdomo-Arciniegas, Bernardo Camacho-Rodríguez, Adriana Rojas-Villarraga

**Study Type** : Human Study

### Additional Links

**Diseases** : Autoimmune/inflammatory syndrome induced by adjuvants (ASIA) : CK(31) : AC(4)

**Additional Keywords** : Risk Factors : CK(2597) : AC(334)

**Anti Therapeutic Actions** : Vaccination: HPV (Gardasil) : CK(142) : AC(19)

**Problem Substances** : Vaccine Adjuvants : CK(562) : AC(118)

**Adverse Pharmacological Actions** : Immunotoxic : CK(294) : AC(52), Inflammatory : CK(234) : AC(66)

## Inflammatory (AC 1) (CK 10)

## This was a case study in which 3 patients with autoimmune/auto-inflammatory syndrome induced by adjuvants (ASIA) after quadrivalent human papillomavirus vaccination (HPV).

**Pubmed Data** : Clin Exp Rheumatol. 2015 May 11. Epub 2015 May 11. PMID: [25962455](#)

**Article Published Date** : May 10, 2015

**Authors** : Juan-Manuel Anaya, Benjamin Reyes, Ana M Perdomo-Arciniegas, Bernardo Camacho-Rodríguez, Adriana Rojas-Villarraga

**Study Type** : Human Study

### Additional Links

**Diseases** : Autoimmune/inflammatory syndrome induced by adjuvants (ASIA) : CK(31) : AC(4)

**Additional Keywords** : Risk Factors : CK(2597) : AC(334)

**Anti Therapeutic Actions** : Vaccination: HPV (Gardasil) : CK(142) : AC(19)

**Problem Substances** : Vaccine Adjuvants : CK(562) : AC(118)

**Adverse Pharmacological Actions** : Immunotoxic : CK(294) : AC(52), Inflammatory : CK(234) : AC(66)



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