

UK Suspected Adverse Reaction Analysis

Swine Flu (H1N1) Vaccines – Celvapan and Pandemrix

12 November 2009

This report provides an overview of all UK reports of suspected adverse reactions to the new swine flu (H1N1) vaccines (Celvapan and Pandemrix) received by MHRA between Monday 15th October 2009 and Thursday 5th November 2009 (inclusive)¹. These reports have been voluntarily submitted to MHRA by UK healthcare professionals and members of the public via the MHRA's 'Swine Flu ADR Portal' (www.mhra.gov.uk/swineflu) and the Yellow Card Scheme. It also includes all UK reports submitted by the Marketing Authorisation holders for Celvapan (Baxter) and Pandemrix (GSK) as part of their legal requirements.

The suspected adverse reactions listed in the attached Vaccine Analysis Prints have been coded using 'MedDRA' terminology².

It is important to note that a report of a reaction does not necessarily mean that it has been caused by the vaccine in question. We encourage reporters to report *suspected* adverse reactions i.e. the reporter does not have to be sure that the vaccine caused the reaction – a mere suspicion will suffice. Therefore, reports submitted to MHRA may be true adverse effects of the vaccine, psychogenic reactions related to the process of vaccination rather than to the specific vaccine itself (e.g. nervousness or anxiety about needles or vaccination); or they may be purely coincidental events that would have occurred anyway in the absence of vaccination (e.g. events due to underlying medical conditions). For this reason **this summary is not a list of known or proven adverse reactions to H1N1 vaccines and must not be interpreted and used as such.** A list of the recognised adverse effects of Celvapan and Pandemrix is provided in the product information for healthcare professionals (Summary of Product Characteristics) and patients (Patient Information Leaflet), copies of which are available on our website (www.mhra.gov.uk/swineflu).

Suspected adverse reaction reporting rates are highly variable and are dependent on many factors. Therefore these data cannot be used to determine the frequency of occurrence of adverse reactions to the H1N1 vaccines. Furthermore, the use of the two H1N1 vaccines available in the UK is expected to differ considerably in terms of the level of exposure and patient populations exposed (most will receive the Pandemrix brand). For these reasons **the data included in this report can not be used to directly compare the relative safety of Pandemrix and Celvapan.**

All reports of suspected adverse reactions to Celvapan and Pandemrix are closely monitored by a dedicated team of safety specialists at the MHRA.

¹ Suspected ADR data are released with a 1 week delay in order to ensure that MHRA has time to validate, extract and assess the data before publication.

² MedDRA - the Medical Dictionary for Regulatory Activities - is a standardised, medically validated adverse event terminology system used within the international medicines regulatory environment.

Headline summary:

1. Up to and including Thursday 5th November 2009, MHRA has received a total of 188 UK reports of suspected ADRs to the H1N1 vaccines. The 188 reports include a total of 460 suspected reactions (a single report may contain more than one reaction).
2. Reports of suspected adverse reactions to Pandemrix make up 91% (n=172) of all reports received for H1N1 vaccines to date. This is not unexpected given the *presumed* difference in the extent of use of the two vaccines³. The vaccine brand was not reported in 6% (n=12) of reports.
3. Further information on the type of suspected adverse reactions reported for each of the vaccines is provided in Annexes 1 (Celvapan), 2 (Pandemrix) and 3 (brand unknown).
4. The most frequently reported suspected adverse reactions are non-serious injection site reactions (e.g. pain, swelling, redness), or are well established minor adverse effects of many vaccines, including the swine flu vaccines (e.g. nausea, vomiting, dizziness muscle pain, fever, fatigue, headache, swollen glands).
5. No new safety issues have been identified from reports received to date.
6. **The balance of benefits and risks for Celvapan and Pandemrix remains positive**
7. When identified, information on new and emerging safety signals will be provided in this report together with details of any resulting regulatory action or changes to prescribing advice deemed necessary.

³ Data on relative usage of each vaccine are not currently available to MHRA. When such information is available, we will include it in these updates.

1. ADVERSE REACTION REPORTING TRENDS

Up to and including Thursday 5th November 2009, a total of 188 reports of suspected adverse reactions to H1N1 vaccines have been reported in the UK. These 188 reports include 460 suspected reactions; a single report may include more than one suspected reaction.

A breakdown of the number of reports received by vaccine brand is provided in Table 1 below. The distribution of reports between Celvapan and Pandemrix is not unexpected given the presumed³ difference in the extent of use of the two vaccines in the UK.

Table 1: Number of reports of suspected reactions received for Celvapan and Pandemrix in the UK

Vaccine	Number of Reports (%)	Number of Reactions
Celvapan	4 (2%)	8
Pandemrix	172 (91%)	412
Brand not reported	12 (6%)	40
Total	188	460⁴

Further information and analysis of suspected adverse reactions reported for each of the vaccines is provided in Section 2 below.

2. ANALYSIS OF REPORTED SUSPECTED ADVERSE REACTIONS

2.1 Celvapan

A line-listing of all UK suspected reactions reported for Celvapan can be found in Annex 1. To date only four reports (of 8 suspected adverse reactions) have been received for Celvapan. These are generally non-serious events and no fatal reactions have been reported.

2.1.1 Nervous system disorders

Although just over a half of reactions (5/8) reported for Celvapan fall into the nervous system disorders system organ class (SOC), these are generally non-serious and are recognised side-effects of the vaccine (dizziness; pins and needles).

2.1.2 Symptoms of allergic or anaphylactic reactions

One case of swollen lips has been reported for Celvapan. This was not indicative of a serious allergic reaction. Allergic reactions are recognised adverse effects of Celvapan.

2.1.3 Pregnant women

No reports of suspected adverse reactions in pregnant women have been received.

2.1.4 Children

No reports in children aged below 15 years have been received.

2.2 Pandemrix

Ninety-one per cent (172/188) of the total reports received for H1N1 vaccines in the UK to date are for Pandemrix. This most likely reflects greater usage of this vaccine in the UK to date³. A line-listing of all suspected reactions reported in the UK for Pandemrix can be found in Annex 2. Generally, these are non-serious events and no fatal reactions have been reported via the swine flu ADR portal.

⁴ A single report may contain more than one suspected reaction.

The most frequently reported reactions are injection site reactions (including pain, swelling, redness, numbness and bruising) and symptoms that are common effects of many vaccines such as dizziness, headache, fatigue, muscle aches, malaise, mild fever, swollen glands, nausea and vomiting.

2.2.1 Nervous system disorders

The nervous system disorders reported are generally non-serious events (headache, dizziness, pins and needles) and are recognised adverse effects of the vaccine.

Fainting episodes (syncope) very shortly after vaccination are not uncommon with any vaccination. This is not a side effect of the vaccine, but a 'psychogenic' response to the injection (usually because of fear or anticipation of the needle injection). The one report of loss of consciousness is being followed-up to establish if this was a fainting episode. The case of eyelid ptosis (droopy eyelid) was associated with swelling of the eyelid and so is therefore most likely to be of allergic than neurological origin.

One report of convulsion in a patient with a history of seizures has been reported. This case is discussed further in section 2.2.4 below.

There has been one report of trigeminal nerve neuritis reported for Pandemrix to date. The information currently available for this case suggests that it is unlikely that the neuritis was caused by Pandemrix.

2.2.2 Symptoms of allergic or anaphylactic reactions

One case of angioedema, two cases of facial swelling and one case of lip swelling have been reported. No cases of anaphylaxis have been reported to date.

Allergic reactions are a recognised side-effect of flu vaccines. The cases reported to date are not considered to be serious or life-threatening allergic reactions and do not raise any new safety concerns.

2.2.3 Pregnant women

No reports of suspected adverse reactions in pregnant women have been received.

2.2.4 Children

Ten reports of suspected reactions in children under the age of 16-years have been reported for Pandemrix. The majority of the reported suspected reactions in children are non-serious, recognised side effects of many vaccines including Pandemrix, or can be attributed to the process of vaccination rather than the vaccine itself (e.g. injection site reactions (redness, rash and swelling); generalised rash; faints; tiredness, fatigue, ear pain, headache and fever).

One case of seizure in a child with a history of epilepsy has been reported for Pandemrix. The available evidence does not allow a link with the vaccination to be confirmed.

2.3 H1N1 vaccine brand unknown

A total of 12 reports (of 40 suspected reactions) have been reported for H1N1 vaccines in which the brand is not provided. All reported events are non-serious and are consistent with symptoms commonly experienced after any vaccination (flu-like illness, fever, injection site pain, headache, malaise, aches and pains, flushing, and nausea).

2.4 Overall Conclusions

The vast majority of reports of suspected adverse reactions to H1N1 vaccines received to date are for Pandemrix. This is not unexpected given the presumed³ greater usage of Pandemrix in the UK to date.

The most frequently reported suspected adverse reactions are non-serious and expected in some people – i.e. injection site reactions (e.g. local pain, swelling, redness or bruising) and general symptoms including nausea, vomiting, dizziness, muscle pains, fever, fatigue, headache, swollen glands). No new safety issues have been identified from UK data to date. The benefit – risk balance for Celvapan and Pandemrix remain positive.

ANNEX 1 - CELVAPAN

Vaccine Analysis Print
Vaccine Name: Celvapan

Run Date: Unspecified to 5 November 2009

Total number of reactions: 8	Total number of ADR reports: 4	Total number of fatal ADR reports: 0
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System Organ Class	Reactions	Fatal Reactions
Gastrointestinal disorders	1	0
General disorders and administration site conditions	2	0
Nervous system disorders	5	0
Total	8	0

Glossary/Abbreviations

ADR - Adverse Drug Reaction

Age group - lists which age groups are included in the Drug Analysis Print - either ALL, Adolescent, Adult, Child, Elderly, Infant or Neonate

Data lock date - shows data on the database at this specified date and time

HLT - High Level Term - see definition of MedDRA

MEDRA - this stands for Medical Dictionary for Regulatory Activities, which is the internationally agreed list of terms used for Medicines Regulation. MedDRA groups related adverse drug reaction terms in a hierarchical structure whereby the 'preferred term' (PT) (e.g. tunnel vision) is grouped under the broader heading the 'high level term' (HLT) (e.g. visual field disorders). 'High level terms' are contained within the 'system organ class' (SOC) (e.g. eye disorders). The 'preferred term' is the most specific term on the Drug Analysis Print, while the 'system organ class' is the most general

Multi active constituent products - contain the drug constituent of interest plus one or more other drug constituents (e.g. co-codamol contains paracetamol and codeine)

NEC - appears in MedDRA and stands for Not Elsewhere Classified

NOS - appears in MedDRA and stands for Not Otherwise Specified

PBG - Product Brand Generic - this means drug brand name e.g. Amoxil is a PBG for the drug substance amoxicillin.

Products included in this print - this is a list of the products for which at least one suspected Adverse Drug Reaction (ADR) report has been received that specifies that product as a 'suspected drug' (i.e. suspected causal association with the reaction). It does not provide an exhaustive list of the products which contain the named drug substance

PT - Preferred Term - see definition of MedDRA

Reaction - defines which ADRs are included in the Drug Analysis Print - either ALL, Serious or Non-Serious

Reporter type - lists the reporter types which are included in the Drug Analysis Print - either Patient, Health Professional or ALL (i.e. both)

Report run date - the date the Drug Analysis Print was produced

Route of admin - lists the route of administration of the suspect drug for which reports are included in the Drug Analysis Print, e.g. ORAL only includes reports where the suspect drug was specified as having been taken by the oral route, or ALL which includes all routes of administration

Spontaneous - suspected ADR reports sent in to the Yellow Card Scheme are called spontaneous reports

Single active constituent products - contain only the drug substance of interest

System Organ Class (SOC) - this is the highest level in MedDRA which groups together reactions that affect similar systems/organs in the body

Vaccine Analysis Print
Vaccine Name: Celvapan

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Gastrointestinal disorders		
<i>Oral soft tissue disorders NEC</i>		
Lip swelling	1	0
Gastrointestinal disorders SOC Total	1	0

Vaccine Analysis Print
Vaccine Name: Celvapan

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
General disorders and administration site conditions		
<i>Asthenic conditions</i>		
Fatigue	2	0
General disorders and administration site conditions SOC Total	2	0

Vaccine Analysis Print
Vaccine Name: Celvapan

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Nervous system disorders		
<i>Neurological signs and symptoms NEC</i>		
Dizziness	2	0
<i>Paraesthesias and dysaesthesias</i>		
Paraesthesia	2	0
<i>Speech and language abnormalities</i>		
Dysarthria	1	0
Nervous system disorders SOC Total	5	0

ANNEX 2 - PANDEMRIX

Vaccine Analysis Print
Vaccine Name: Pandemrix

Run Date: Unspecified to 5 November 2009

Total number of reactions: 412	Total number of ADR reports: 172	Total number of fatal ADR reports: 0
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System Organ Class	Reactions	Fatal Reactions
Blood and lymphatic system disorders	5	0
Cardiac disorders	6	0
Ear and labyrinth disorders	1	0
Eye disorders	4	0
Gastrointestinal disorders	49	0
General disorders and administration site conditions	141	0
Immune system disorders	1	0
Infections and infestations	4	0
Injury, poisoning and procedural complications	6	0
Investigations	9	0
Musculoskeletal and connective tissue disorders	68	0
Nervous system disorders	65	0
Psychiatric disorders	7	0
Respiratory, thoracic and mediastinal disorders	11	0
Skin and subcutaneous tissue disorders	28	0
Vascular disorders	5	0
Total	410	0

Glossary/Abbreviations

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Report run date - the date the Drug Analysis Print was produced

Route of admin - lists the route of administration of the suspect drug for which reports are included in the Drug Analysis Print, e.g. ORAL only includes reports where the suspect drug was specified as having been taken by the oral route, or ALL which includes all routes of administration

Spontaneous - suspected ADR reports sent in to the Yellow Card Scheme are called spontaneous reports

Single active constituent products - contain only the drug substance of interest

System Organ Class (SOC) - this is the highest level in MedDRA which groups together reactions that affect similar systems/organs in the body

Vaccine Analysis Print
Vaccine Name: Pandemrix

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Blood and lymphatic system disorders		
<i>Lymphatic system disorders NEC</i>		
Lymph node pain	1	0
Lymphadenitis	1	0
Lymphadenopathy	3	0
Blood and lymphatic system disorders SOC Total	5	0

Vaccine Analysis Print
Vaccine Name: Pandemrix

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Cardiac disorders		
<i>Cardiac signs and symptoms NEC</i>		
Palpitations	4	0
<i>Rate and rhythm disorders NEC</i>		
Tachycardia	2	0
Cardiac disorders SOC Total	6	0

Vaccine Analysis Print
Vaccine Name: Pandemrix

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Ear and labyrinth disorders		
<i>Ear disorders NEC</i>		
Ear pain	1	0
Ear and labyrinth disorders SOC Total	1	0

Vaccine Analysis Print
Vaccine Name: Pandemrix

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Eye disorders		
<i>Eyelid movement disorders</i>		
Eyelid ptosis	1	0
<i>Lid, lash and lacrimal infections, irritations and inflammations</i>		
Eyelid oedema	1	0
<i>Ocular disorders NEC</i>		
Eye pain	1	0
<i>Ocular infections, inflammations and associated manifestations</i>		
<i>Ocular sensation disorders</i>		
Photophobia	1	0
Eye disorders SOC Total	4	0

Vaccine Analysis Print
Vaccine Name: Pandemrix

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Gastrointestinal disorders		
<i>Diarrhoea (excl infective)</i>		
Diarrhoea	4	0
<i>Gastrointestinal and abdominal pains (excl oral and throat)</i>		
Abdominal pain	4	0
Abdominal pain upper	2	0
<i>Nausea and vomiting symptoms</i>		
Nausea	25	0
Vomiting	10	0
<i>Oral dryness and saliva altered</i>		
Dry mouth	1	0
<i>Oral soft tissue pain and paraesthesia</i>		
Paraesthesia oral	1	0
<i>Oral soft tissue signs and symptoms</i>		
Hypoaesthesia oral	1	0
<i>Tongue disorders</i>		
Tongue ulceration	1	0
Gastrointestinal disorders SOC Total	49	0

Vaccine Analysis Print
Vaccine Name: Pandemrix

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
General disorders and administration site conditions		
<i>Application and instillation site reactions</i>		
Application site pain	3	0
Application site pruritus	1	0
Application site haematoma	2	0
<i>Asthenic conditions</i>		
Asthenia	2	0
Fatigue	12	0
Malaise	8	0
<i>Febrile disorders</i>		
Pyrexia	24	0
<i>General signs and symptoms NEC</i>		
Influenza like illness	14	0
Local reaction	9	0
Swelling	1	0
<i>Inflamations</i>		
Inflammation	1	0
<i>Injection and infusion site reactions</i>		
Injection site erythema	6	0
Injection site induration	1	0
Injection site inflammation	4	0
Injection site pain	5	0
Injection site phlebitis	1	0
Injection site rash	1	0
Injection site warmth	1	0
Injection site swelling	3	0
<i>Oedema NEC</i>		
Oedema peripheral	10	0
<i>Pain and discomfort NEC</i>		
Chest discomfort	3	0
Pain	10	0
Non-cardiac chest pain	1	0
<i>Feelings and sensations NEC</i>		
Chills	12	0

Feeling hot	4	0
Feeling of body temperature change	2	0
General disorders and administration site conditions SOC Total	141	0

Vaccine Analysis Print
Vaccine Name: Pandemrix

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Immune system disorders		
<i>Anaphylactic responses</i>		
Anaphylactic reaction	1	0
Immune system disorders SOC Total	1	0

Vaccine Analysis Print
Vaccine Name: Pandemrix

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Infections and infestations		
<i>Bacterial infections NEC</i>		
Cellulitis	1	0
<i>Eye and eyelid infections</i>		
Eye infection	1	0
<i>Influenza viral infections</i>		
Influenza	1	0
<i>Viral infections NEC</i>		
Sweating fever	1	0
Infections and infestations SOC Total	4	0

Vaccine Analysis Print
Vaccine Name: Pandemrix

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Injury, poisoning and procedural complications		
<i>Skin injuries NEC</i>		
Contusion	1	0
Vaccination related complications		
Post vaccination syndrome	3	0
Vaccination complication	2	0
Injury, poisoning and procedural complications SOC Total	6	0

Vaccine Analysis Print
Vaccine Name: Pandemrix

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Investigations		
<i>Physical examination procedures</i>		
Body temperature increased	7	0
<i>Vascular tests NEC (incl blood pressure)</i>		
Blood pressure decreased	1	0
<i>Heart rate and pulse investigations</i>		
Heart rate increased	1	0
Investigations SOC Total	9	0

Vaccine Analysis Print
Vaccine Name: Pandemrix

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Musculoskeletal and connective tissue disorders		
<i>Arthropathies NEC</i>		
Arthritis reactive	1	0
<i>Bone related signs and symptoms</i>		
Pain in jaw	1	0
<i>Joint related signs and symptoms</i>		
Arthralgia	12	0
<i>Musculoskeletal and connective tissue signs and symptoms NEC</i>		
Sensation of heaviness	3	0
Musculoskeletal stiffness	2	0
<i>Muscle pains</i>		
Myalgia	12	0
<i>Muscle related signs and symptoms NEC</i>		
Muscle spasms	1	0
Muscle swelling	1	0
<i>Muscle weakness conditions</i>		
Muscular weakness	1	0
<i>Musculoskeletal and connective tissue pain and discomfort</i>		
Back pain	5	0
Musculoskeletal pain	8	0
Neck pain	4	0
Pain in extremity	15	0
Limb discomfort	2	0
Musculoskeletal and connective tissue disorders SOC Total	68	0

Vaccine Analysis Print
Vaccine Name: Pandemrix

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Nervous system disorders		
<i>Disturbances in consciousness NEC</i>		
Lethargy	3	0
Loss of consciousness	1	0
Syncope	1	0
<i>Dyskinesias and movement disorders NEC</i>		
Hypokinesia	1	0
<i>Headaches NEC</i>		
Headache	31	0
Sinus headache	1	0
<i>Migraine headaches</i>		
Migraine	3	0
<i>Neurological signs and symptoms NEC</i>		
Dizziness	8	0
Dizziness postural	1	0
<i>Neuromuscular disorders NEC</i>		
<i>Paraesthesias and dysaesthesias</i>		
Hyperaesthesia	1	0
Paraesthesia	3	0
<i>Seizures and seizure disorders NEC</i>		
Convulsion	1	0
<i>Sensory abnormalities NEC</i>		
Dysgeusia	2	0
Hypoaesthesia	4	0
Sensory loss	1	0
<i>Speech and language abnormalities</i>		
Aphonia	1	0
<i>Tremor (excl congenital)</i>		
Tremor	1	0
<i>Trigeminal disorders</i>		
Trigeminal nerve paresis	1	0
Nervous system disorders SOC Total	65	0

Vaccine Analysis Print
Vaccine Name: Pandemrix

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Psychiatric disorders		
<i>Confusion and disorientation</i>		
Disorientation	2	0
<i>Disturbances in initiating and maintaining sleep</i>		
Insomnia	4	0
<i>Mood disorders NEC</i>		
<i>Stereotypies and automatisms</i>		
Head banging	1	0
Psychiatric disorders SOC Total	7	0

Vaccine Analysis Print
Vaccine Name: Pandemrix

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Respiratory, thoracic and mediastinal disorders		
<i>Breathing abnormalities</i>		
Dyspnoea	3	0
Tachypnoea	2	0
<i>Bronchospasm and obstruction</i>		
Wheezing	1	0
<i>Nasal disorders NEC</i>		
Epistaxis	1	0
<i>Nasal congestion and inflammations</i>		
Nasal congestion	1	0
<i>Upper respiratory tract signs and symptoms</i>		
Oropharyngeal pain	3	0
Respiratory, thoracic and mediastinal disorders SOC Total	11	0

Vaccine Analysis Print
Vaccine Name: Pandemrix

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Skin and subcutaneous tissue disorders		
<i>Angioedemas</i>		
Angioedema	1	0
<i>Apocrine and eccrine gland disorders</i>		
Cold sweat	1	0
Hyperhidrosis	5	0
Sweat gland disorder	1	0
<i>Dermal and epidermal conditions NEC</i>		
Skin discomfort	1	0
Swelling face	2	0
<i>Dermatitis and eczema</i>		
Skin irritation	1	0
<i>Erythemas</i>		
Erythema	4	0
Rash erythematous	1	0
<i>Photosensitivity conditions</i>		
Photosensitivity reaction	1	0
<i>Skin injuries and mechanical dermatoses</i>		
<i>Urticarias</i>		
Urticaria	1	0
<i>Pruritus NEC</i>		
Pruritus generalised	1	0
<i>Rashes, eruptions and exanthems NEC</i>		
Rash	4	0
Rash generalised	2	0
Rash macular	1	0
Rash maculo-papular	1	0
Skin and subcutaneous tissue disorders SOC Total	28	0

Vaccine Analysis Print
Vaccine Name: Pandemrix

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Vascular disorders		
<i>Circulatory collapse and shock</i>		
Peripheral circulatory failure	1	0
<i>Haemorrhages NEC</i>		
<i>Vascular hypertensive disorders NEC</i>		
Hypertension	1	0
<i>Peripheral vascular disorders NEC</i>		
Hot flush	2	0
<i>Vascular hypotensive disorders</i>		
<i>Site specific vascular disorders NEC</i>		
Pallor	1	0
Vascular disorders SOC Total	5	0

ANNEX 3 – Brand unknown

Vaccine Analysis Print
Vaccine Name: H1N1 Vaccine brand unknown

Run Date: Unspecified to 5 November 2009

Total number of reactions: 40	Total number of ADR reports: 12	Total number of fatal ADR reports: 0
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System Organ Class	Reactions	Fatal Reactions
Gastrointestinal disorders	3	0
General disorders and administration site conditions	15	0
Investigations	1	0
Musculoskeletal and connective tissue disorders	11	0
Nervous system disorders	3	0
Psychiatric disorders	2	0
Skin and subcutaneous tissue disorders	4	0
Vascular disorders	1	0
Total	40	0

Glossary/Abbreviations

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HLT - High Level Term - see definition of MedDRA

MEDRA - this stands for Medical Dictionary for Regulatory Activities, which is the internationally agreed list of terms used for Medicines Regulation. MedDRA groups related adverse drug reaction terms in a hierarchical structure whereby the 'preferred term' (PT) (e.g. tunnel vision) is grouped under the broader heading the 'high level term' (HLT) (e.g. visual field disorders). 'High level terms' are contained within the 'system organ class' (SOC) (e.g. eye disorders). The 'preferred term' is the most specific term on the Drug Analysis Print, while the 'system organ class' is the most general

Multi active constituent products - contain the drug constituent of interest plus one or more other drug constituents (e.g. co-codamol contains paracetamol and codeine)

NEC - appears in MedDRA and stands for Not Elsewhere Classified

NOS - appears in MedDRA and stands for Not Otherwise Specified

PBG - Product Brand Generic - this means drug brand name e.g. Amoxil is a PBG for the drug substance amoxicillin.

Products included in this print - this is a list of the products for which at least one suspected Adverse Drug Reaction (ADR) report has been received that specifies that product as a 'suspected drug' (i.e. suspected causal association with the reaction). It does not provide an exhaustive list of the products which contain the named drug substance

PT - Preferred Term - see definition of MedDRA

Reaction - defines which ADRs are included in the Drug Analysis Print - either ALL, Serious or Non-Serious

Reporter type - lists the reporter types which are included in the Drug Analysis Print - either Patient, Health Professional or ALL (i.e. both)

Report run date - the date the Drug Analysis Print was produced

Route of admin - lists the route of administration of the suspect drug for which reports are included in the Drug Analysis Print, e.g. ORAL only includes reports where the suspect drug was specified as having been taken by the oral route, or ALL which includes all routes of administration

Spontaneous - suspected ADR reports sent in to the Yellow Card Scheme are called spontaneous reports

Single active constituent products - contain only the drug substance of interest

System Organ Class (SOC) - this is the highest level in MedDRA which groups together reactions that affect similar systems/organs in the body

Vaccine Analysis Print
Vaccine Name: H1N1 Vaccine brand unknown

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Gastrointestinal disorders		
<i>Nausea and vomiting symptoms</i>		
Nausea	2	0
<i>Stomatitis and ulceration</i>		
Mouth ulceration	1	0
Gastrointestinal disorders SOC Total	3	0

Vaccine Analysis Print
Vaccine Name: H1N1 Vaccine brand unknown

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
General disorders and administration site conditions		
<i>Asthenic conditions</i>		
Malaise	1	0
<i>Febrile disorders</i>		
Pyrexia	5	0
<i>General signs and symptoms NEC</i>		
Influenza like illness	3	0
Local reaction	1	0
<i>Injection and infusion site reactions</i>		
Injection site erythema	1	0
Injection site swelling	1	0
<i>Feelings and sensations NEC</i>		
Chills	2	0
Peripheral coldness	1	0
General disorders and administration site conditions SOC Total	15	0

Vaccine Analysis Print
Vaccine Name: H1N1 Vaccine brand unknown

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Investigations		
<i>Heart rate and pulse investigations</i>		
Heart rate increased	1	0
Investigations SOC Total	1	0

Vaccine Analysis Print
Vaccine Name: H1N1 Vaccine brand unknown

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Musculoskeletal and connective tissue disorders		
<i>Joint related signs and symptoms</i>		
Arthralgia	1	0
Joint stiffness	1	0
<i>Musculoskeletal and connective tissue signs and symptoms NEC</i>		
Musculoskeletal stiffness	1	0
<i>Muscle pains</i>		
Myalgia	4	0
<i>Muscle related signs and symptoms NEC</i>		
<i>Musculoskeletal and connective tissue pain and discomfort</i>		
Pain in extremity	4	0
Musculoskeletal and connective tissue disorders SOC Total	11	0

Vaccine Analysis Print
Vaccine Name: H1N1 Vaccine brand unknown

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Nervous system disorders		
<i>Headaches NEC</i>		
Headache	2	0
<i>Migraine headaches</i>		
Migraine	1	0
Nervous system disorders SOC Total	3	0

Vaccine Analysis Print
Vaccine Name: H1N1 Vaccine brand unknown

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Psychiatric disorders		
<i>Disturbances in initiating and maintaining sleep</i>		
Insomnia	1	0
<i>Sleep disorders NEC</i>		
Sleep disorder	1	0
Psychiatric disorders SOC Total	2	0

Vaccine Analysis Print
Vaccine Name: H1N1 Vaccine brand unknown

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Skin and subcutaneous tissue disorders		
<i>Apocrine and eccrine gland disorders</i>		
Hyperhidrosis	1	0
<i>Bullous conditions</i>		
Blister	1	0
<i>Dermal and epidermal conditions NEC</i>		
Skin reaction	1	0
<i>Dermatitis and eczema</i>		
Dermatitis allergic	1	0
Skin and subcutaneous tissue disorders SOC Total	4	0

Vaccine Analysis Print
Vaccine Name: H1N1 Vaccine brand unknown

Reaction Name	Reactions	Fatal Reactions
SOC		
<i>HLT</i>		
PT		
Vascular disorders		
<i>Peripheral vascular disorders NEC</i>		
Flushing	1	0
Vascular disorders SOC Total	1	0