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**Adenovirus and Obesity – Science Citation Index Search**


**ADENOVIRUS AND MYOCARDIAL DISEASE**

**Adenovirus and Myocardial Disease - Medline Search**


Ref ID: 5


**Adenovirus and myocardial disease - Science Citation Index Search**


**ADENOVIRUS AND CARCINOMA**

**Adenovirus and Carcinoma - Medline Search**


Adenovirus and carcinoma – Science Citation Index Search


ADENOVIRUS AND LUNG DISEASE

Adenovirus and Lung Disease - Medline Search


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Ref ID: 14

**Adenovirus and asthma – science citation index papers**


**SINUSITIS**


**CHRONIC HUMAN ADENOVIRUS PNEUMONIA**


**CHRONIC FATIGUE SYNDROME**


**DERMATITIS HERPETIFORMIS**


**CYTOMEGALOVIRUS**

**Occupational relevance**


**CYTOMEGALOVIRUS AND GUILLAIN-BARRE SYNDROME**

**Cytomegalovirus and Guillain-Barre Syndrome – Medline Search**


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EPSTEIN BARR VIRUS

Occupational relevance


EPSTEIN BARR VIRUS AND CHRONIC FATIGUE SYNDROME

Epstein Barr Virus and Chronic Fatigue Syndrome – medline search


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**Epstein Barr Virus and Multiple Sclerosis - medline search**


**Additional Epstein Barr virus papers**


**HERPES SIMPLEX VIRUS**

**Occupational relevance**


**HERPES SIMPLEX VIRUS AND ALZHEIMER'S DISEASE**

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**Herpes Simplex Virus and Alzheimer's Disease** - science citation index search


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Varicella Zoster virus


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VARICELLA ZOSTER VIRUS

Occupational relevance


VARICELLA ZOSTER AND MULTIPLE SCLEROSIS

Varicella zoster and Multiple Sclerosis – medline search


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**Occupational relevance**


**MEASLES AND CROHN'S DISEASE**

**Measles and Crohn's Disease – medline search**


Measles and Crohn's Disease - science citation index search


MEASLES AND MULTIPLE SCLEROSIS

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**Occupational relevance**

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Ref ID: 121

Ref ID: 1122

Ref ID: 2611

Ref ID: 191
Ref ID: 1159

Ref ID: 3908

HUMAN T-CELL LYMPHOTROPIC VIRUS

Occupational Relevance


**HUMAN IMMUNODEFICIENCY VIRUSES**

**Occupational relevance**


* The total number of occupational papers was too numerous to list here. A selection of reviews is given above.

**HUMAN PAPILLOMAVIRUSES**

**Occupational relevance**


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**Occupational relevance**


**BORRELLIA AND CHRONIC DISEASE**

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Ref ID: 11


Ref ID: 12


Ref ID: 13


Ref ID: 14


Ref ID: 15


Ref ID: 16


Ref ID: 17


Ref ID: 18


Ref ID: 19


Ref ID: 20


Ref ID: 33

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Occupational relevance


BARTONELLA AND SEVERAL CHRONIC EFFECTS

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Ref ID: 63

Ref ID: 68

Ref ID: 84


**Bartonella and Chronic Disease - science citation index search**


**HELICOBACTER PYLORI**

**Occupational relevance**


Ref ID: 3277

Ref ID: 3183

Ref ID: 241

Ref ID: 2948

Ref ID: 239

Ref ID: 339

Ref ID: 226

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Ref ID: 91

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Ref ID: 685

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Ref ID: 341

Ref ID: 116

Ref ID: 188
Ref ID: 698

Ref ID: 856

Ref ID: 85

Ref ID: 3050

Ref ID: 2211

Ref ID: 2379

Ref ID: 163

Ref ID: 2950

Ref ID: 658

Ref ID: 3805

Ref ID: 391

Ref ID: 172

**HELCOBACTER PYLORI AND CORONARY HEART DISEASE**

*Helicobacter pylori* and coronary heart disease – medline search


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**HELCOBACTER PYLORI AND CROHN'S DISEASE**

**Helicobacter and Crohn's Disease – medline search**


Ref ID: 174

Ref ID: 36

Ref ID: 55

Ref ID: 73

Ref ID: 104

Ref ID: 120

Ref ID: 48

Ref ID: 83

Ref ID: 147

**SALMONELLA TYPHI**

**Occupational relevance**

Ref ID: 929


**SALMONELLA TYPHI AND BILE TRACT NEOPLASM**

*Salmonella typhi* and bile tract neoplasm – medline search


Ref ID: 31

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Salmonella typhi and bile tract neoplasm - science citation index search


CAMPYLOBACTER

Occupational relevance

Ref ID: 336

Ref ID: 246

Ref ID: 899

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Campylobacter and Reactive Arthritis and Reiter's Disease - science citation index search


CAMPYLOBACTER AND GUILLAIN-BARRE SYNDROME

Campylobacter and Guillain-Barre Syndrome – medline search


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Ref ID: 116

**Campylobacter and Guillain-Barre Syndrome - science citation index search**


SHISTOSOMES

OCCUPATIONAL RELEVANCE


APPENDIX 1 OCCUPATIONAL TRANSMISSION 
SEARCH STRATEGY

1. exp Occupations
2. exp agriculture/ or exp animal husbandry
3. exp child care/ or exp infant care
4. exp occupational diseases
5. exp health personnel/ or exp military personnel/ or exp occupational groups/ or exp police/ or exp research personnel
6. exp nurseries/ or exp nurseries, hospital/
7. exp forestry
8. employee.mp.
9. forest.mp.
10. abattoir.mp.
12. (zoo adj2 keeper).mp.
15. joiner$3.mp.
18. exp air pollution/ or exp air pollution, indoor/
19. or/1-18

BACTERIA SEARCH TERMS

20. exp Bacteria
21. bacteri:.mp.
22. 20 or 21

VIRUS SEARCH TERMS

23. exp Viruses/
25. 23 or 24

PARASITE SEARCH TERMS

26. exp Parasites
27. exp Helminths
28. exp Trematoda
29. exp Toxoplasma
30. exp Schistosoma
31. parasites.mp.
32. helminths.mp.
33. “flukes”.mp.
34. (toxoplasma or schistosoma).mp.
35. or/26-35
FUNGUS SEARCH TERMS

36. exp Allergens
37. exp fungi
38. “fung:”.mp.
40. “toxin”.mp.
41. or/36-41

GENERAL INFECTION TERMS

42. infect:.mp.
43. (“micro-organism” or microb:).mp.
44. 42 or 43

SYSTEMATIC REVIEW FILTER

43. meta-analysis.pt, sh.
44. (meta-anal: or metaanal).tw.
45. (quantiv: review: or quantiv: overview:).tw.
46. (systematic: review: or systematic: overview:).tw.
47. (methodologic: review: or methodologic: overview:).tw.
48. (integrative research review: or research integration:).tw.
49. (review.pt,sh. or review:.tw. or overview:.tw.
50. quantitativ: synthes:.tw.
51. 43 or 44 or 46 or 47 or 48 or 50
52. (medline or medlars).tw,sh. or embase.tw.
53. (scisearch or psychinfo or psycinfo).tw.
54. (psyclit or psyclit).tw.
55. (hand search: or manual search:).tw.
56. (pooling or pooled analys: or mantel haenszel).tw.
57. (electronic database: or bibliographic database:).tw.
58. (peto or der simonian or dersimonian or fixed effect:).tw.
59. 52 or 53 or 54 or 55 or 56 or 57 or 58
60. 59 and 49
61. 51 or 60

RANDOMISED CONTROLLED TRIAL FILTER

62. random:.tw,sh.pt. or placebo:.tw,sh.
63. (clinical trial or controlled clinical trial).pt.
64. double-blind:.tw,sh.
65. or/62-64

OTHER STUDIES FILTER

66. exp case-control studies/ or exp cohort studies/ or exp cross-sectional studies/ or exp epidemiologic studies/ or exp seroepidemiologic studies
67. exp epidemiologic study characteristics/ or exp intervention studies/
68. exp disease outbreaks/ or exp disease reservoirs/ or exp disease transmission/ or exp “environment and public health”/ or exp environmental microbiology/ or exp public health/
69. Serprevalence.mp.
70. surveillance.mp.
71. survey.mp.
72. or/63-69
SEARCH STRATEGIES

[numbers is square brackets refer to search terms listed above]
(numbers in parenthesis are total papers identified prior to and after applying exclusions)

Occupational terms [19] + bacterial terms [22] + systematic review terms [61] (3)(1)


Occupational terms [19] + bacterial terms [22] [not the above] (1674)(287)


Occupational terms [19] + virus terms [25] (3804) not included

Occupational terms [19] + parasite terms [35] + systematic review terms [61] (1)(0)


Occupational terms [19] + parasite terms [35] [not the above] (159) (36)

Occupational terms [19] + fungus terms [41] + systematic review terms [61] (6) (5)


Occupational terms [19] + fungus terms [41] (3591) not included

Occupational terms [19] + general infection terms [44] + systematic review terms [61] (14) (7)

Occupational terms [19] + general infection terms [44] + randomised controlled trials [65] (368) (156)

Occupational terms [19] + general infection terms [44] (7943) not included
CHRONIC HEALTH EFFECTS SEARCHES

ADENOVIRUS SEARCH TERMS

1. exp adenoviridae/
2. adenovirus.mp
3. 1 or 2
4. exp chronic disease/
5. chronic infection.mp.
6. persistent infection.mp.
7. latent infection.mp.
8. or/2-5
9. exp Asthma
10. exp Lung diseases, obstructive/
11. exp Obesity
12. exp Myocardial disease
13. exp Celiac disease
14. exp NeoplasMS/et [Etiology]

Search strategies
[numbers is square brackets refer to search terms listed above]
(numbers in parenthesis are total papers identified prior to reading abstracts and excluding papers) (numbers in bold are papers identified by ISI search prior to duplicates being removed)

[3] and [8] (81)
[3] and [10] (84) (3)
[3] and [13] (22) (2)
[3] and [14] (198)

Cytomegalovirus search terms

1. exp cytomegalovirus/ or exp cytomegalovirus infections/
2. cytomegalovirus.mp
3. exp chronic disease
4. persistent infection.mp.
5. persistent disease.mp.
6. latent infection.mp.
7. chronic disease.mp.
8. exp aids-related opportunistic infections/ or exp immunocompromised host/or exp immunologic deficiency syndromes/
9. exp postoperative complications/ or exp transplants
10. exp bone marrow transplantation/ or exp graft rejection/ or exp heart transplantation/
    or exp kidney transplantation/ or exp transplantation immunology/ or exp transplantation, homologous/
11. exp angioplasty/ or angioplasty, balloon/ or exp angioplasty , balloon, laser-assisted/
    or exp angioplasty, laser/ or exp angioplasty, transluminal, percutaneous coronary/
12. exp Coronary disease
13. exp Artherosclerosis
14. exp arterial occlusive diseases/ or exp carotid artery diseases/ or exp coronary arteriosclerosis/ or mitral valve stenosis
15. 1 or 2
16. or/3-7
17. or/ 8-10
18. or/12-14
19. exp Guillain-barre syndrome/

Search strategies
[numbers in square brackets refer to search terms listed above]
(numbers in parenthesis are total papers identified prior to reading abstracts and excluding papers) (numbers in bold are papers identified by ISI search prior to duplicates being removed)

[15] and [19] (94) (6)

Herpes viruses search terms
1. exp simplexvirus/
2. exp herpesviridae/ or exp herpesviridae infections/ or exp herpesvirus 6, human
3. exp chickenpox/ or exp herpes zoster/ or exp herpesvirus 3, human/
4. (Herpes adj3 virus).mp.
5. exp Multiple sclerosis/
6. multiple sclerosis.mp.
7. exp Alzheimer disease/
8. alzheimer.mp.
9. exp Fatigue syndrome, chronic/
10. exp Coronary disease
11. exp Artherosclerosis
12. exp arterial occlusive diseases/ or exp carotid artery diseases/ or exp coronary arteriosclerosis/ or mitral valve stenosis
13. or/1-4
14. 5 or 6
15. 7 or 8
16. or/10-12

Search strategies
[numbers in square brackets refer to search terms listed above]
(numbers in parenthesis are total papers identified prior to reading abstracts and excluding papers) (numbers in bold are papers identified by ISI search prior to duplicates being removed)

[13] and [14] (389) (27)
[13] and [9] (140) (13)
[13] and [16] (164)
Measles search terms
1. exp measles virus/
2. measles.mp.
3. exp Crohn disease/
4. Crohn's disease.mp
5. crohn.mp.
6. exp multiple sclerosis
7. multiple sclerosis.mp
8. 1 or 2
9. or/3-5
10. 6 or 7

Search strategies
[numbers is square brackets refer to search terMS listed above]
(numbers in parenthesis are total papers identified prior to reading abstracts and excluding papers) (numbers in bold are papers identified by ISI search prior to duplicates being removed)
[8] and [9] (74) (14)
[8] and [10] (643) – too numerous to review all abstracts therefore applied epidemiological study filters which proved unsuccessful.
[8] and [10] Reviews (medline filter) (39)

Parvovirus search terms
1. exp parvovirus/ or exp parvovirus b19, human/
2. parvovirus.mp
3. exp anaemia/ or exp chronic disease/
4. chronic anaemia.mp.
5. 1 or 2
6. 3 or 4

Search strategies
[numbers is square brackets refer to search terMS listed above]
(numbers in parenthesis are total papers identified prior to reading abstracts and excluding papers) (numbers in bold are papers identified by ISI search prior to duplicates being removed)

Chlamydia search terms
1. exp chlamydia/ or exp chlamydia infections/
2. chlamydia.mp.
3. exp coronary disease/
4. coronary.mp.
5. exp Artherosclerosis
6. artherosclerosis.mp.
7. exp asthma/
8. exp chronic disease
9. asthma.mp.
10. chronic.mp.
11. exp Guillain-barre syndrome/
13. exp Cerebellar ataxia
14. 1 or 2
15. or/3-6
16. or/7-10
17. or/11-13

**Search strategies**

[numbers is square brackets refer to search terms listed above]
(numbers in parenthesis are total papers identified prior to reading abstracts and excluding papers) **(numbers in bold are papers identified by ISI search prior to duplicates being removed)**

[14] and [15] (408) - too numerous to review all abstracts therefore applied epidemiological study filters – see table in main text for results **(48)**

[14] and [16] (617) - too numerous to review all abstracts therefore applied epidemiological study filters – see table in main text for results

[14] and [17] (4)

**Coxiella search terms**

1. exp coxiella/ or exp *Coxiella burnetii*
2. coxiella.mp.
3. exp heart valves/
4. heart valves.mp.
5. exp endocarditis/ or exp endocarditis, bacterial/ or exp endocarditis, subacute bacterial/
6. endocarditis.mp.
7. exp brain diseases/ or exp mental disorders/ or exp nervous system diseases/ or exp psychotic disorders/
8. neuropsychiatric.mp.
9. 1 or 2
10. or/3-8

**Search strategies**

[numbers is square brackets refer to search terms listed above]
(numbers in parenthesis are total papers identified prior to reading abstracts and excluding papers) **(numbers in bold are papers identified by ISI search prior to duplicates being removed)**

[9] and [10] (154) **(7)**
Bartonella search terms

1. exp Bartonella
2. bartonella.mp.
3. exp endocarditis/ or exp endocarditis, bacterial/ or exp endocarditis, subacute bacterial/
4. endocarditis.mp.
5. exp diabetic retinopathy/ or exp endothelium/ or exp fundus oculi/ or exp hemangioma/ or exp hemangioma, capillary/ or exp neovascularization, pathologic/ or exp retina/ or exp retinal diseases/ or exp retinal neoplasMS/ or exp retinal neovascularization
6. vasoproliferative.mp.
7. 1 or 2
8. or/ 3-6

Search strategies

[numbers is square brackets refer to search terms listed above]
(numbers in parenthesis are total papers identified prior to reading abstracts and excluding papers) (numbers in bold are papers identified by ISI search prior to duplicates being removed)

[7] and [8] (100) (19)

Borrelia search terms

1. exp borrelia/ or exp borrelia infections
2. Borrelia.mp.
3. exp chronic disease
4. chronic.mp.
5. 1 or 2
6. 3 or 4

Search strategies

[numbers is square brackets refer to search terms listed above]
(numbers in parenthesis are total papers identified prior to reading abstracts and excluding papers) (numbers in bold are papers identified by ISI search prior to duplicates being removed)

[5] and [6] (511) - too numerous to review all abstracts therefore applied epidemiological study filters which proved unsuccessful.


Campylobacter search terms

1. exp Campylobacter/
2. campylobacter.mp.
3. exp Guillain-barre syndrome/
4. Guillain-Barre.mp
5. exp arthritis, reactive/ or exp reiter’s disease/
6. Reiter's.mp.
7. 1 or 2
8. or/3-6
Search strategies
[numbers is square brackets refer to search terMS listed above]
(numbers in parenthesis are total papers identified prior to reading abstracts and excluding papers) (numbers in bold are papers identified by ISI search prior to duplicates being removed)

[7] and [8] (211) - not specific enough and to numerous to review all abstracts therefore applied epidemiological study filters which proved unsuccessful.


Helicobacter pylori search terms

1. exp Helicobacter pylori/
2. Helicobacter pylori.mp.
3. exp coronary disease
4. coronary.mp.
5. exp Crohn disease
6. crohn.mp.
7. 1 or 2
8. or/3-6

Search strategies
[numbers is square brackets refer to search terMS listed above]
(numbers in parenthesis are total papers identified prior to reading abstracts and excluding papers) (numbers in bold are papers identified by ISI search prior to duplicates being removed)

[7] and [8] (137) (17)

Salmonella typhi search terms

1. exp Salmonella typhi
2. Salmonella typhi.mp
3. exp biliary tract/ or exp biliary tract diseases/ or exp biliary tract neoplasMS/
4. 1 or 2

Search strategies
[numbers is square brackets refer to search terMS listed above]
(numbers in parenthesis are total papers identified prior to reading abstracts and excluding papers)

APPENDIX 2  CHRONIC HEALTH EFFECTS OF EXPOSURE TO BIOLOGICAL AGENTS

DATA EXTRACTION SHEET

REFERENCE MANAGER ID  ……………

TITLE  ……………….……………………………………………………………………………………………………

AUTHOR(S) ……………………………………………………………………………………………………………………

JOURNAL, DATE ETC  ………………………………………………………………………………………………………

Paper identified by  1. Medline search; 2. Embase search; 3. Cochrane search; 4. ISI search; 5. Hand search; 6. Other

Country where the study was conducted  …………………………………………………………………………………………………………………

Description of the evidence

Exposure or intervention  ………………………………………………………………………………………………………

Outcome  ……………………………………………………………………………………………………………………………

Study design  ……………………………………………………………………………………………………………………………

Study population  ……………………………………………………………………………………………………………………………

Main result  ……………………………………………………………………………………………………………………………

Potential sources of bias (see check list)

Potential confounding (see check list)

Potential chance variation (see check list)

Conclusions of authors:  accepted not accepted  (circle as appropriate)

Comments:

Hierarchy of evidence level  ………………………………………………………………………………………………………
To assess the extent to which bias, confounding and chance could have led to the conclusions of the papers reviewed the following checklists were used:

**Check-list for meta-analysis/systematic literature reviews**

1. Is the research question/hypothesis clearly stated?
2. Are the methods clearly stated including data sources and inclusion/exclusion criteria and are there any obvious omissions? Was publication bias considered? Are excluded studies described?
3. Did the authors assess the quality of the studies, are their assessments free from bias (blind) and reproducible?
4. Was variation in the findings of studies analysed in terms of different study designs, populations, exposures or outcomes?
5. Did the meta-analysis (if any) include only papers with uniform exposures (clinical severity) and outcomes?
6. Does the interpretation include reference to sample size, statistical difference vs clinical importance, outliers, subgroup analysis and fail safe n.

**Check-list for randomised control trials**

1. Is the research question/hypothesis clearly stated?
2. Is the sample representative of the study population (case definition practical and reproducible/exclusion criteria, disease spectrum)?
3. Was an a priori estimate made of sample size and what was the power of the study?
4. What was the method of allocation to intervention/control group and were the groups comparable and treated equally?
5. Was a placebo/double-blinding/cross-over used?
6. Is the intervention clearly stated and reproducible (co-interventions)?
7. Are the base-line and follow-up measurements reproducible and were methods validated?
8. Is the duration of follow-up stated and appropriate?
9. What proportion of subjects dropped out and was the analysis based on intention to treat?
10. Are the statistical tests appropriate and used to control for potential confounding factors?

**Check-list for case control studies**

1. Is the research question/hypothesis clearly stated?
2. Was an a priori estimate made of sample size and what was the power of the study?
3. Is the case definition clearly stated and do the cases represent the whole case population (diagnosis, severity)?
4. Are the controls from a similar population, are multiple control groups/matching used?
5. Are response rates for cases and controls given and are low rates likely to have affected the findings of the study?
6. Were the same techniques/researchers/tools/observation techniques used for cases and controls?
7. Was data validated by multiple sources (written records etc.)?
Check-list for cohort and cross-sectional studies (including seroprevalence studies)

1. Is the research question/hypothesis clearly stated?
2. Was an a priori estimate made of sample size and what was the power of the study?
3. Is the case definition clearly stated and do the cases represent the whole case population (diagnosis, severity)?
4. Are exposures clearly defined and measured?
5. Are measurements reliable and validated (standardised, calibrated devices, independent trained personnel, multiple observers/data sources)?
6. Were other differences between the exposed and unexposed groups measured and considered in the analysis?
7. What were the response rates, are non-participants characterised and are low rates likely to have affected the findings of the study?
8. Was the length of follow-up appropriate?
9. Are the cohorts periodically re-examined to determine exposure status?
10. Are time-order relationships clear?
11. What were the drop out rates and are they likely to have affected the findings of the study?
12. Are both groups observed equally using identical methods and tools?
13. Are the statistical techniques appropriate?
## Glossary of abbreviations used

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD</td>
<td>Alzheimer’s Disease</td>
</tr>
<tr>
<td>CFS</td>
<td>Chronic Fatigue Syndrome</td>
</tr>
<tr>
<td>CHD</td>
<td>Coronary Heart Disease</td>
</tr>
<tr>
<td>CMV</td>
<td>Cytomegalovirus</td>
</tr>
<tr>
<td>CNS</td>
<td>Central Nervous System</td>
</tr>
<tr>
<td>CRD</td>
<td>Centre for Reviews and Dissemination</td>
</tr>
<tr>
<td>DNA</td>
<td>Deoxyribonucleic acid</td>
</tr>
<tr>
<td>EBV</td>
<td>Epstein-Barr Virus</td>
</tr>
<tr>
<td>EID</td>
<td>Emerging Infectious Diseases</td>
</tr>
<tr>
<td>HHV6</td>
<td>Human Herpesvirus 6</td>
</tr>
<tr>
<td>HSV</td>
<td><em>Herpes simplex</em> virus</td>
</tr>
<tr>
<td>HTLV (I,II,III)</td>
<td>Human T cell lymphotropic virus (types I, II or III)</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>IBD</td>
<td>Inflammatory Bowel Disease</td>
</tr>
<tr>
<td>MRSA</td>
<td>Methicillin resistant <em>Staphylococcus aureus</em></td>
</tr>
<tr>
<td>MS</td>
<td>Multiple Sclerosis</td>
</tr>
<tr>
<td>PBMC</td>
<td>Peripheral blood mononuclear cells</td>
</tr>
<tr>
<td>PCF</td>
<td>Pharyngoconjunctival fever</td>
</tr>
<tr>
<td>PCR</td>
<td>Polymerase chain reaction</td>
</tr>
<tr>
<td>PHLS</td>
<td>Public Health Laboratory Service</td>
</tr>
<tr>
<td>RNA</td>
<td>Ribonucleic acid</td>
</tr>
<tr>
<td>TAQ</td>
<td><em>Thermos aquaticus</em></td>
</tr>
<tr>
<td>UGI</td>
<td>Upper gastrointestinal</td>
</tr>
<tr>
<td>UWCM</td>
<td>University of Wales College of Medicine</td>
</tr>
<tr>
<td>VTEC O157</td>
<td>Verotoxin producing <em>Escherichia coli</em> serotype O157</td>
</tr>
<tr>
<td>VZV</td>
<td><em>Varicella zoster</em> virus</td>
</tr>
<tr>
<td>WHO</td>
<td>World Health Organisation</td>
</tr>
</tbody>
</table>