Supplementary Note S1: Reference list of literatures supporting proposed cluster infection-disease association with respect to individual component virus

V1 Respiratory Syncytial Virus and Chronic kidney disease


V1 Respiratory Syncytial Virus and Coronary heart disease


V1 Respiratory Syncytial Virus and Inflammatory bowel disease


V1 Respiratory Syncytial Virus and Multiple sclerosis


V1 Respiratory Syncytial Virus and Systemic lupus erythematosus


V1 Respiratory Syncytial Virus and Type 2 diabetes


V1 Vesicular Stomatitis Virus and Chronic kidney disease


V1 Vesicular Stomatitis Virus and Coronary heart disease


V1 Vesicular Stomatitis Virus and Multiple sclerosis


**V1 Vesicular Stomatitis Virus and Systemic lupus erythematosus**


**V2 Enterovirus 71 and Attention deficit hyperactivity disorder**


**V2 Enterovirus 71 and Multiple sclerosis**


**V2 Hepatitis A Virus and Multiple sclerosis**


**V2 Herpesvirus 8, Human and Crohn's disease**


**V2 Herpesvirus 8, Human and Inflammatory bowel disease**


V2 Herpesvirus 8, Human and Multiple sclerosis


V2 Herpesvirus 8, Human and Type 2 diabetes


V2 Measles Virus and Attention deficit hyperactivity disorder


V2 Measles Virus and Crohn's disease


**V2 Measles Virus and Inflammatory bowel disease**


**V2 Measles Virus and Multiple sclerosis**


**V2 Measles Virus and Schizophrenia**


V2 Measles Virus and Type 2 diabetes


V2 Norwalk Virus and Inflammatory bowel disease


V3 Herpesvirus 1, Cercopithecine and Inflammatory bowel disease


V3 Herpesvirus 1, Human and Asthma


V3 Herpesvirus 1, Human and Bipolar disorder


V3 Herpesvirus 1, Human and Celiac disease


V3 Herpesvirus 1, Human and Crohn's disease


V3 Herpesvirus 1, Human and Inflammatory bowel disease

**V3 Herpesvirus 1, Human and Lung cancer**


**V3 Herpesvirus 1, Human and Major depressive disorder**


**V3 Herpesvirus 1, Human and Multiple sclerosis**


V3 Herpesvirus 1, Human and Rheumatoid arthritis


V3 Herpesvirus 1, Human and Schizophrenia


17. Delisi, L. E. *et al.* Herpes simplex virus, cytomegalovirus and Epstein-Barr


**V3 Herpesvirus 1, Human and Systemic lupus erythematosus**


**V3 Herpesvirus 1, Human and Ulcerative colitis**


**V3 Human Rhinovirus and Asthma**


V3 Human Rhinovirus and Celiac disease


V3 Human Rhinovirus and Inflammatory bowel disease

**V3 Human Rhinovirus and Multiple sclerosis**


**V3 Human Rhinovirus and Rheumatoid arthritis**


**V3 Vaccinia Virus and Multiple sclerosis**


**V3 Vaccinia Virus and Schizophrenia**


### V4 Dengue Virus and Coronary heart disease


### V4 Dengue Virus and Schizophrenia


### V4 Dengue Virus and Type 2 diabetes


### V4 Hepatitis B Virus and Alcohol dependence


V4 Hepatitis B Virus and Bipolar disorder


V4 Hepatitis B Virus and Breast cancer


**V4 Hepatitis B Virus and Chronic lymphocytic leukemia**


**V4 Hepatitis B Virus and Crohn's disease**

1. Ueno, Y. et al. Infliximab therapy for Crohn’s disease in a patient with chronic


V4 Hepatitis B Virus and Inflammatory bowel disease


8. Morisco, F. et al. Effect of immunosuppressive therapy on patients with


**V4 Hepatitis B Virus and Multiple sclerosis**


**V4 Hepatitis B Virus and Schizophrenia**


**V4 Hepatitis B Virus and Type 2 diabetes**


**V4 Hepatitis B Virus and Ulcerative colitis**


**V4 Hepatitis C Virus and Alcohol dependence**


**V4 Hepatitis C Virus and Bipolar disorder**


**V4 Hepatitis C Virus and Breast cancer**


5. D’Angelo, S., Deutscher, M., Dickler, M. & Weinstock, D. M. Hepatitis C virus

### V4 Hepatitis C Virus and Chronic lymphocytic leukemia


### V4 Hepatitis C Virus and Coronary heart disease


**V4 Hepatitis C Virus and Crohn's disease**


**V4 Hepatitis C Virus and Inflammatory bowel disease**


**V4 Hepatitis C Virus and Multiple sclerosis**


**V4 Hepatitis C Virus and Schizophrenia**


**V4 Hepatitis C Virus and Type 2 diabetes**


V4 Hepatitis C Virus and Ulcerative colitis


**V4 Human Immunodeficiency Virus and Alcohol dependence**


**V4 Human Immunodeficiency Virus and Bipolar disorder**


**V4 Human Immunodeficiency Virus and Breast cancer**


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### V4 Human Immunodeficiency Virus and Chronic lymphocytic leukemia


### V4 Human Immunodeficiency Virus and Coronary heart disease


V4 Human Immunodeficiency Virus and Crohn's disease


V4 Human Immunodeficiency Virus and Inflammatory bowel disease


V4 Human Immunodeficiency Virus and Multiple sclerosis


**V4 Human Immunodeficiency Virus and Type 2 diabetes**


V4 Influenza A Virus and Alcohol dependence


V4 Influenza A Virus and Bipolar disorder


V4 Influenza A Virus and Breast cancer


V4 Influenza A Virus and Chronic lymphocytic leukemia


V4 Influenza A Virus and Coronary heart disease

4. Lippi, G., Franchini, M. & Favaloro, E. J. Influenza and cardiovascular disease:


**V4 Influenza A Virus and Crohn's disease**


**V4 Influenza A Virus and Inflammatory bowel disease**

1. Romanowska, M., Banaszkiewicz, A., Nowak, I., Radzikowski, A. & Brydak, L. B. Immunization against influenza during the 2005/2006 epidemic season and the


17. Farkas, K. et al. [The efficiency of influenza vaccines in patients with


**V4 Influenza A Virus and Multiple sclerosis**


**V4 Influenza A Virus and Schizophrenia**


**V4 Influenza A Virus and Ulcerative colitis**

1. Rahier, J.-F. et al. H1N1 vaccines in a large observational cohort of patients with inflammatory bowel disease treated with immunomodulators and biological


**V4 Lymphocytic Choriomeningitis Virus and Chronic lymphocytic leukemia**


**V4 Lymphocytic Choriomeningitis Virus and Inflammatory bowel disease**


**V4 Lymphocytic Choriomeningitis Virus and Multiple sclerosis**


**V4 Lymphocytic Choriomeningitis Virus and Schizophrenia**


**V5 Herpesvirus 4, Human and Bipolar disorder**


**V5 Herpesvirus 4, Human and Bipolar disorder and schizophrenia**


**V5 Herpesvirus 4, Human and Breast cancer**


**V5 Herpesvirus 4, Human and Celiac disease**


V5 Herpesvirus 4, Human and Coronary heart disease


**V5 Herpesvirus 4, Human and Crohn's disease**


V5 Herpesvirus 4, Human and Inflammatory bowel disease


**V5 Herpesvirus 4, Human and Lung cancer**


**V5 Herpesvirus 4, Human and Multiple sclerosis**


8. Serafini, B. *et al.* Epstein-Barr virus latent infection and BAFF expression in B cells in the multiple sclerosis brain: implications for viral persistence and intrathecal


**V5 Herpesvirus 4, Human and Rheumatoid arthritis**


7. Lünemann, J. D. *et al.* Increased frequency of EBV-specific effector memory


**V5 Herpesvirus 4, Human and Schizophrenia**


34. Esen, B. A. et al. Serologic response to Epstein-Barr virus antigens in patients


V5 Herpesvirus 4, Human and Type 2 diabetes


V5 Herpesvirus 4, Human and Ulcerative colitis


V5 Herpesvirus 5, Human and Alcohol dependence


V5 Herpesvirus 5, Human and Alzheimer's disease (cognitive decline)

1. Strandberg, T. E., Pitkala, K. H., Linnavauri, K. & Tilvis, R. S. Cognitive


### V5 Herpesvirus 5, Human and Bipolar disorder


### V5 Herpesvirus 5, Human and Bipolar disorder and schizophrenia


5. Martin, W. J. Simian cytomegalovirus-related stealth virus isolated from the


**V5 Herpesvirus 5, Human and Breast cancer**


**V5 Herpesvirus 5, Human and Celiac disease**


2. Plot, L. *et al.* Infections may have a protective role in the etioovirusesis of celiac


**V5 Herpesvirus 5, Human and Coronary heart disease**


**V5 Herpesvirus 5, Human and Crohn’s disease**


**V5 Herpesvirus 5, Human and Inflammatory bowel disease**


8. Lidar, M., Langevitz, P. & Shoenfeld, Y. The role of infection in inflammatory


**V5 Herpesvirus 5, Human and Lung cancer**


**V5 Herpesvirus 5, Human and Multiple sclerosis**


**V5 Herpesvirus 5, Human and Obesity**


**V5 Herpesvirus 5, Human and Rheumatoid arthritis**


2. Tnani, N. et al. [Management of cytomegalovirus infections in patients treated


V5 Herpesvirus 5, Human and Schizophrenia


5. Novotná, M. et al. Probable neuroimmunological link between Toxoplasma and


**V5 Herpesvirus 5, Human and Systemic lupus erythematosus**


V5 Herpesvirus 5, Human and Type 2 diabetes


V5 Herpesvirus 5, Human and Ulcerative colitis


12. Matsumura, K. *et al.* Establishment of a novel mouse model of ulcerative colitis with concomitant cytomegalovirus infection: in vivo identification of


V5 Human Papillomavirus and Alcohol dependence


V5 Human Papillomavirus and Breast cancer


**V5 Human Papillomavirus and Coronary heart disease**


**V5 Human Papillomavirus and Crohn's disease**


**V5 Human Papillomavirus and Inflammatory bowel disease**


**V5 Human Papillomavirus and Lung cancer**


**V5 Human Papillomavirus and Multiple sclerosis**


**V5 Human Papillomavirus and Obesity**


V5 Human Papillomavirus and Rheumatoid arthritis


V5 Human Papillomavirus and Systemic lupus erythematosus


8. Mok, C. C., Ho, L. Y., Fong, L. S. & To, C. H. Immunogenicity and safety of a


**V5 Human Papillomavirus and Ulcerative colitis**


9. Frisch, M. *et al.* Benign anal lesions, inflammatory bowel disease and risk for