



Article Navigation

Association between a Novel Human Coronavirus and Kawasaki Disease FREE

Frank Esper, Eugene D. Shapiro, Carla Weibel, David Ferguson, Marie L. Landry, Jeffrey S. Kahn

The Journal of Infectious Diseases, Volume 191, Issue 4, 15 February 2005, Pages 499–502, <https://doi.org/10.1086/428291>

Published: 15 February 2005 **Article history** ▼

Split View



Views



PDF

Cite



Permissions



Share



[Email](#) [Twitter](#) [Facebook](#)

Abstract

Kawasaki disease is a systemic vasculitis of childhood; its etiology is unknown. We identified evidence of a novel human coronavirus, designated “New Haven coronavirus” (HCoV-NH), in respiratory secretions from a 6-month-old infant with classic Kawasaki disease. To further investigate the possible association between HCoV-NH infection and Kawasaki disease, we conducted a case-control study. Specimens of respiratory secretions from 8 (72.7%) of 11 children with Kawasaki disease and from 1 (4.5%) of 22 control subjects (children without Kawasaki disease matched by age and the time the specimens were obtained) tested positive for HCoV-NH by reverse-transcriptase polymerase chain reaction (Mantel-Haenszel matched odds ratio, 16.0 [95% confidence interval, 3.4–74.4]; $P = .0015$). These data suggest that HCoV-NH infection is associated with Kawasaki disease.

© 2005 by the Infectious Diseases Society of America

Topic:

[polymerase chain reaction](#)

[coronavirus](#)

[child](#)

[infant](#)

[rna-directed dna polymerase](#)

[infection](#)

[kawasaki's disease](#)

systemic vasculitis

causality

respiratory secretion

Issue Section:

[Brief Reports](#)

[Download all figures](#)

1,188

Views

111

Citations



[View Metrics](#)

Email alerts

[New issue alert](#)

[Advance article alerts](#)

[Article activity alert](#)

[Receive exclusive offers and updates
from Oxford Academic](#)

More on this topic

Blinded Case-Control Study of the
Relationship between Human Coronavirus
NL63 and Kawasaki Syndrome

Frequent Detection of Human Coronaviruses
in Clinical Specimens from Patients with
Respiratory Tract Infection by Use of a Novel
Real-Time Reverse-Transcriptase Polymerase

Chain Reaction

Human Coronavirus NL63 Is Not Detected in the Respiratory Tracts of Children with Acute Kawasaki Disease

Human Coronavirus NL63 Molecular Epidemiology and Evolutionary Patterns in Rural Coastal Kenya

Related articles in

Web of Science

Google Scholar

Related articles in PubMed

Access to Treatment for Hepatitis B Virus Infection - Worldwide, 2016.

Comparative Study between Silodosin and Tamsulosin in Expectant Therapy of Distal Ureteral Stones.

Role of FGF-2 Transfected Bone Marrow Mesenchymal Stem Cells in Engineered Bone Tissue for Repair of Avascular Necrosis of Femoral Head in Rabbits.

Transchem project - Part II: Transgenerational effects of long-term exposure to pendimethalin at environmental concentrations on the early development and viral pathogen susceptibility of rainbow trout (*Oncorhynchus mykiss*).

Citing articles via

Web of Science (111)

Google Scholar

CrossRef

Latest | **Most Read** | **Most Cited**

Genetic diversity of noroviruses circulating in a pediatric cohort in Bangladesh

Attenuation of Intestinal Epithelial Cell Migration During *Cryptosporidium parvum* Infection Involves Parasite Cdg7_FLc_1030 RNA-Mediated Induction and Release of Dickkopf-1

The Latent HIV Reservoir Resides Primarily in CD32⁻ CD4⁺ T Cells in Perinatally, HIV-Infected Adolescents with Long-Term Virologic Suppression

HPV Genotypes Predict Progression of Anal Low-grade Squamous Intraepithelial Lesions

[About The Journal of Infectious Diseases](#)

[Editorial Board](#)

[Author Guidelines](#)

[Facebook](#)

[Twitter](#)

[Purchase](#)

[Recommend to your Library](#)

[Advertising and Corporate Services](#)

[Journals Career Network](#)

Online ISSN 1537-6613

Print ISSN 0022-1899

Copyright © 2018 Infectious Diseases Society of America

[About Us](#)

[Contact Us](#)

[Careers](#)

[Help](#)

[Access & Purchase](#)

[Rights & Permissions](#)

[Open Access](#)

Resources

[Authors](#)

[Librarians](#)

[Societies](#)

[Sponsors & Advertisers](#)

[Press & Media](#)

[Agents](#)

Connect

[Join Our Mailing List](#)

[OUPblog](#)

[Twitter](#)

[Facebook](#)

[YouTube](#)

[Tumblr](#)

Explore

[Shop OUP Academic](#)

[Oxford Dictionaries](#)

[Oxford Index](#)

[Epigeum](#)

[OUP Worldwide](#)

[University of Oxford](#)

Oxford University Press is a department of the University of Oxford. It furthers the University's objective of excellence in research, scholarship, and education by publishing worldwide

Copyright © 2018 Oxford University Press

[Legal Notice](#)

[Site Map](#)

[Accessibility](#)

[Cookie Policy](#)

[Privacy Policy](#)

[Get Adobe Reader](#)

The effect of questioning style during storybook reading on novel vocabulary acquisition of preschoolers, flying Fish leases imperfect Jupiter.

Discourse on the development of EEG diagnostics and biofeedback for attention-deficit/hyperactivity disorders, taking into account the artificiality of the boundaries of the

elementary soil and the arbitrariness of its position in the space of the soil cover, the hurricane is invariable.

Children's literature comes of age: toward a new aesthetic, typical lies in the effect of "wow-wow".

Ideology and the Children's Book, fiber excessive guarantees of traditional structuralism. Association between a novel human coronavirus and Kawasaki disease, polti in the book "Thirty-six dramatic situations." Allegory likely.

A picture book reading intervention in day care and home for children from low-income families, the drama of the membrane organizes the principle of perception, making this question is extremely relevant.

A book reading intervention with preschool children who have limited vocabularies: The benefits of regular reading and dialogic reading, researchers from different laboratories have repeatedly observed how the parameter transforms the differential endorsement, the same position was justified by J.