

# Method of Treating and Preventing Infections in Immunocompromised Subjects with Immunostimulatory CpG Oligonucleotides

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## Technology description

### Summary

Primary disorders of the immune system can be divided into four categories, (1) disorders of the humoral immunity, (2) disorders of cellular immunity, (3) disorders of phagocytes, and (4) disorders of complement. In addition, there are many causes of secondary immunodeficiency such as treatment with immunosuppressive or chemotherapeutic agents, protein-losing enteropathy, and infection with a human immunodeficiency virus (HIV). Generally, immunocompromised patients are unable to mount an immune response to a vaccine or an infection in the same manner as non-immunocompromised individuals.

Opportunistic infections to which individuals infected with HIV are susceptible include bacterial infections such as salmonellosis, syphilis and neurosyphilis, tuberculosis (TB), a typical mycobacterial infection, and bacillary angiomatosis (cat scratch disease), fungal infections such as aspergillosis, candidiasis (thrush, yeast infection), coccidioidomycosis, cryptococcal meningitis, and histoplasmosis, protozoal infections such as cryptosporidiosis, isosporiasis, microsporidiosis, Pneumocystis Carinii pneumonia (PCP), and toxoplasmosis, viral infections such as Cytomegalovirus (CMV), hepatitis, herpes simplex (HSV, genital herpes), herpes zoster (HZV, shingles), human papilloma virus (HPV, genital warts, cervical cancer), Molluscum Contagiosum, oral hairy leukoplakia (OHL), and progressive multifocal leukoencephalopathy (PML), and neoplasms such as Kaposi's sarcoma, systemic non-Hodgkin's lymphoma (NHL), and primary CNS lymphoma, among others. These opportunistic infections remain principally responsible for the morbidity and mortality associated with HIV disease.

This application claims use of immunostimulatory D-type CpG oligonucleotides for the treatment of immunocompromised individuals. More specifically, the application claims use of immunostimulatory D-type CpG oligonucleotides for the treatment of individuals infected with HIV.

### Application area

Vaccine adjuvants, production of vaccines, immunotherapeutics

Institution

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