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Global Health

Research emphasis:

Dr. Gray has conducted diverse epidemiological studies of infectious diseases for 25 years in 5 continents. Much of his work has involved identifying risk factors for occupational diseases, particularly for infectious diseases. He has studied numerous occupational groups including farmers, animal breeders, veterinarians, military personnel, turkey workers, poultry workers, horse workers, hunters, and pig workers. A strong supporter for the One Health approach, he has won multiple One Health research and training grants, established two centers of One Health (USA & Romania) and developed 4 graduate programs in One Health.

Selected publications:

Khan SU, Atanasova KR, Krueger WS, Ramirez A, **Gray GC**. Epidemiology, Geographical Distribution, and Consequences of Swine Zoonoses: A Narrative Review *Emerging Microbes and Infection*, 2014;52:1762-5. doi: 10.1128/JCM.03522-13. Epub 2014 Mar 5

Gautret P, **Gray GC**, Charrel RN, Odezulu NG, Al-Tawfiq JA, Zumla AI, Memish Z. Emerging viral respiratory tract infections - Environment Risk Factors and transmission. *Lancet Infect Dis*, 2014;14:1113-22. PMID 25189350.

Memish ZA, Masri MA, Anderson BD, Heil GL, Merrill HR, Khan SU, Alsahly A, and **Gray GC**. Elevated Antibodies against Rift Valley Fever Virus among Adult Males with Exposure to Ruminants in Saudi Arabia. *Am J Trop Med Hyg* 2015; 92:739-43 PMID:25646253.

Su S, Bi Y, Wong G, **Gray GC**, Gao G, Li S. The epidemiology, evolution and recent outbreaks of avian influenza virus in China: A Review. *J Virology* 2015; 89:8671-76.

Application:

- Respiratory virus characterization
- Zoonotic Diseases

Collaboration potential:

- Influenza A, B, C, D
- Adenovirus
- Coronavirus
- Enteroviruses