

Stem Cells in Regenerative Medicine: Potential Clinical Applications

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Abstract (Limit 600words)

Infectious diseases are a substantial burden on society's public health and economic stability around the world. They have been among the primary causes of death and disability for ages, posing increasing threats to human health and progress. The ongoing appearance of new, unrecognized, and old infectious disease epidemics with global significance exacerbates the threat posed by infectious diseases. At least 30 novel infectious agents impacting humans have developed in the last three and a half decades, the majority of which are zoonotic, and their origins have been found to correlate strongly with socioeconomic, environmental, and ecological aspects. There is concern that infectious illnesses will continue to provide a significant challenge as these factors increase, bringing individuals in greater contact with disease-causing microbes. As a result, maintaining constant awareness and pursuing effective measures for preventing infectious diseases and disease development is critical. The scope, dynamics, and improvements in infectious disease management are highlighted in this overview, which focuses on WHO top priority emerging infectious diseases (EIDs) and neglected tropical infectious illnesses. Many significant human infectious diseases, including some that are now only seen in people and not in animals, are 'new' diseases that emerged following the invention of agriculture. Where did they originate? Why are they so much influenced by the Old World? We show here that the answers to these concerns differ for tropical and temperate diseases, for example, in terms of the relative relevance of domestic and wild monkeys as sources. We identified five intermediate phases in the transformation of a virus that only infects animals into a pathogen that only infects humans. We suggest a global early warning system to monitor viruses infecting people exposed to wild animals, as well as an endeavour to settle disputed origins of key diseases.

A number of infectious illnesses are a major public health concern for visitors and immigrant groups. Some diseases have a protracted incubation period or are asymptomatic or paucisymptomatic for years before manifesting clinically and/or causing problems. Among the most common chronic diseases among migrants are HIV, hepatitis B and C, tuberculosis, and latent syphilis. For example, schistosomiasis and strongyloidiasis are chronic helminthic infections that can cause severe morbidity, especially in patients who are also afflicted with HIV, hepatitis B, or C. Chagas disease, which was once thought to be exclusive to Latin America, must now be considered in immigrants from countries where it is endemic. Other parasitic infections that must be considered by physicians treating detained migrants include visceral leishmaniasis and malaria. This article's main point is focus of this review article is on the risk of neglected tropical diseases in particularly vulnerable correctional populations and on the risk of infectious diseases that commonly affect migrants but which are often underestimated.

Biography (Limit 200words)

Mahmoud P is a Senior Therapist and a researcher who has de-veloped a technique called Rebinding of the Body which helps people recover from hormones; growth factors learn self-help techniques and lead more productive lives. Her in- tersubjective ethnographic study has been published in a text called, "Tropical and Infectious Diseases, Connection and disconnections in Tropical and Infectious Diseases". She has published several articles in child and family psychiatry including an extensive literature review called "The Health Impact". Presently, she has a small private practice and she works as a consultant for Cogenz and Thought

Leadership and Innovation Foundation. She graduated from the University of Western Ontario with Doctor of Philosophy in Nursing in 2008. Her dissertation was “Seeking and Obtaining Help for Tropical and Infectious Diseases Medicine. To create a good niche model, however, the shared or dissimilar properties of germ and Tropical and Infectious Diseases are required.

Importance of Research (Limit 200words)

Clinicians may have problems while assessing immigrant and refugee patients, such as determining which health concerns to treat and which infectious diseases may benefit from early screening. Certain infectious diseases should be checked for and treated in migrants, according to evidence-based research. Preventive treatment initiatives for refugees in other countries have helped to lower the burden of some diseases, but they haven't replaced the usefulness of in-country screening programmes. This article discusses a number of prevalent tropical and infectious diseases, as well as offering refugee and geographic backgrounds, as well as links to international services designed to help newly arrived immigrants and refugees. The management of tissues and cellular samples by pathologists in the field of infectious and tropical diseases pathology in 2014 necessitates a strong understanding of both morphological and molecular domains, as well as good control: I of infectious and tropical diseases pathology taxonomy leading to pathogen identification, and of ancillary methods that can be used in fixed samples to detect or better identify these pathogens.

About institute (Limit 200words)

St. Paul's Hospital is a major medical facility in Vancouver, British Columbia, Canada. It is the oldest of Providence Health Care's seven health-care facilities. Providence Health Care is a Roman Catholic faith-based health-care organisation. St. Paul's welcomes patients of all faiths and offers a variety of medical and surgical services, including cardiac and kidney care, as well as a sophisticated structural heart disease programme and North America's biggest Addiction Fellowship programme. The Pacific Adult Congenital Heart Disease unit is also located there. It is one of the teaching hospitals of the Faculty of Medicine at the University of British Columbia. St Paul's Hospital employs around 4000 workers. Mother Mary Fredrick of Astoria, Oregon, was the organization's first mother superior and administrator. The new hospital was built on the promise of providing compassionate treatment for everyone in need, in keeping with the Sisters of Providence's philosophy - a promise that was put to the test during the 1890s gold rush in the Klondike. In 1906, St Paul's became one of the first hospitals to have its own X-Ray equipment, and in 1907, it established its School of Nursing.



ST. PAUL'S HOSPITAL

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References (Limit 15 – 20)

1. [M. Walker, J.R. Zunt Parasitic central nervous system infections in immunocompromised hosts Clin Infect Dis,40 \(2005\), pp. 1005-1015.](#)
2. [Feasey N, Wansbrough-Jones M, Mabey DC, Solomon AW. Neglected tropical diseases. British Medical Bulletin. 2010; 93: 179–200. DOI: 10.1093/bmb/ldp046.](#)
3. World Health Organization. WHO launches global consultations for a new Roadmap on neglected tropical diseases. 2019. <https://www.who.int/neglected-diseases/news/WHO-launches-global-consultations-for-new-NTD-Roadmap/en/>

- (Accessed 8 July 2020). DOI: 10.1016/S2214-109X(19)30529-7.
4. . Groom ZC, Protopapas AD, Zochios V. Tropical diseases of the myocardium: A review. *International Journal of General Medicine*. 2017; 10: 101–111 DOI: 10.2147/IJGM.S130828.
 5. Moolani Y, Bukhman G, Hotez PJ. Neglected tropical diseases as hidden causes of cardiovascular disease. *PLOS Neglected Tropical Disease*. 2012; 6: e1499 DOI: 10.1371/journal.pntd.0001499.
 6. Engels D, Zhou XN. Neglected tropical diseases: An effective global response to local poverty-related disease priorities. *Infect Dis Poverty*. 2020; 9: 10 DOI: 10.1186/s40249-020-0630-9
 7. Moher D, Liberati A, Tetzlaff J, Altman DG. Preferred reporting items for systematic reviews and meta-analyses: the PRISMA statement. *J Clin Epidemiol*. 2009; 62: 1006–12. Pmid: 19631508. DOI: 10.1016/j.jclinepi.2009.06.005
 8. Echeverría LE, Marcus R, Novick G, Sosa-Estani S, Ralston K, Zaidel EJ, et al. WHF IASC Roadmap on Chagas Disease. *Global Heart*. 2020; 15(1): 26 DOI: 10.5334/gh.484
 9. Yusuf S, Rangarajan S, Teo K, Islam S, Li W, Liu L, et al. Cardiovascular Risk and Events in 17 Low-, Middle-, and High-Income Countries. *N Engl J Med*. 2014; 371: 818–27. DOI: 10.1056/NEJMoa1311890.
 10. M. Walker, J.R. Zunt Parasitic central nervous system infections in immunocompromised hosts *Clin Infect Dis*, 40 (2005), pp. 1005-1015.

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