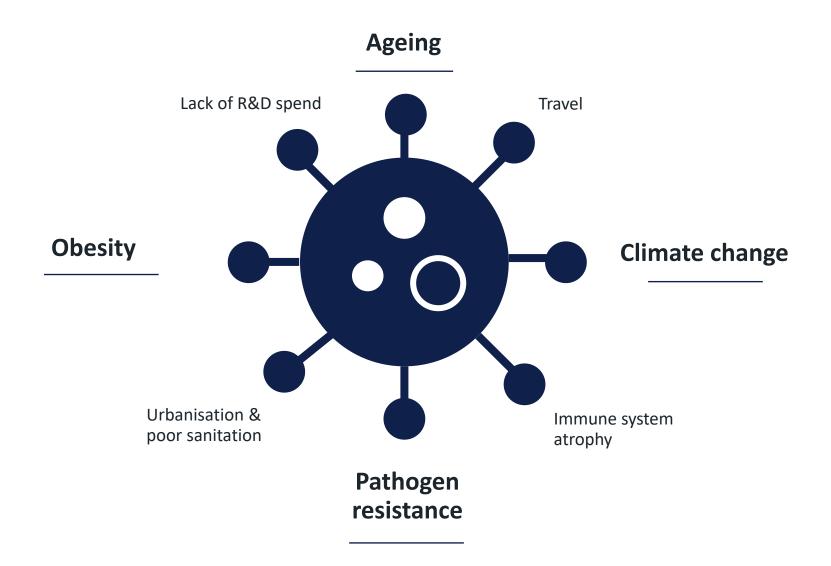


Ageing

Alex Hunter & Allanah du Plessis



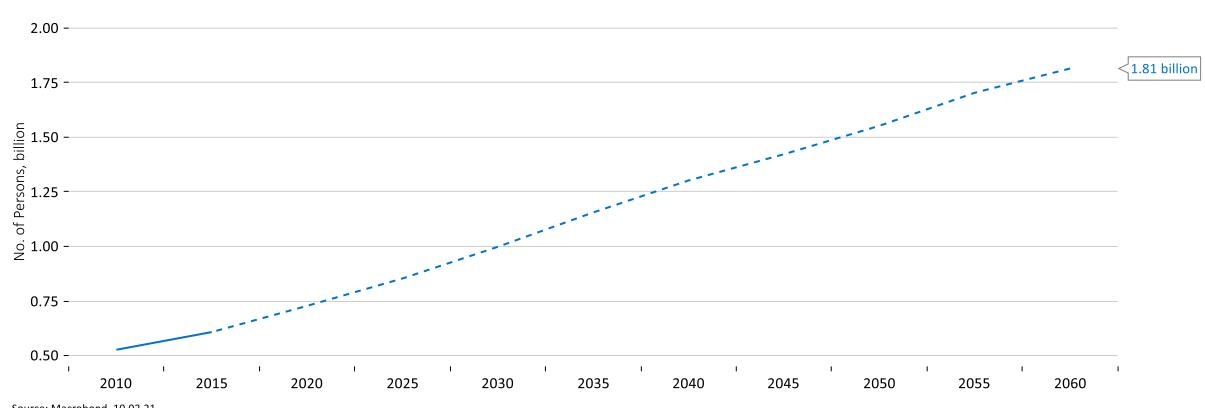
Many reasons for pandemic vulnerability

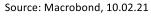


Population of 65+ set to double by 2050



World population by age, 65+ projections, United Nations





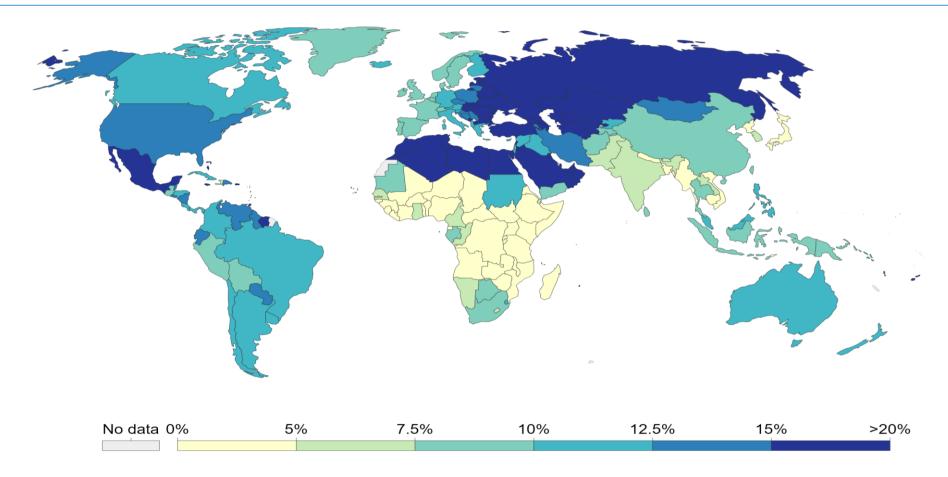


Obesity – a slow motion pandemic

Share of deaths attributed to obesity, 2017

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Obesity is defined as having a body-mass index (BMI) equal to or greater than 30. BMI is a person's weight in kg, divided by height in metres squared

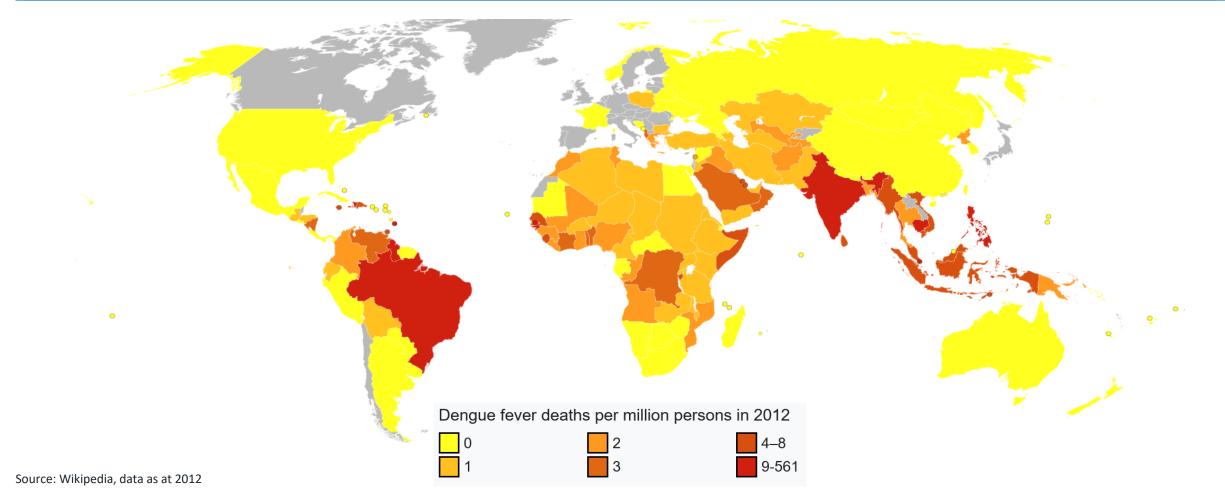


Source: IHME, Global Burden of Disease, 2017. www.ourworldindata.org/obesity



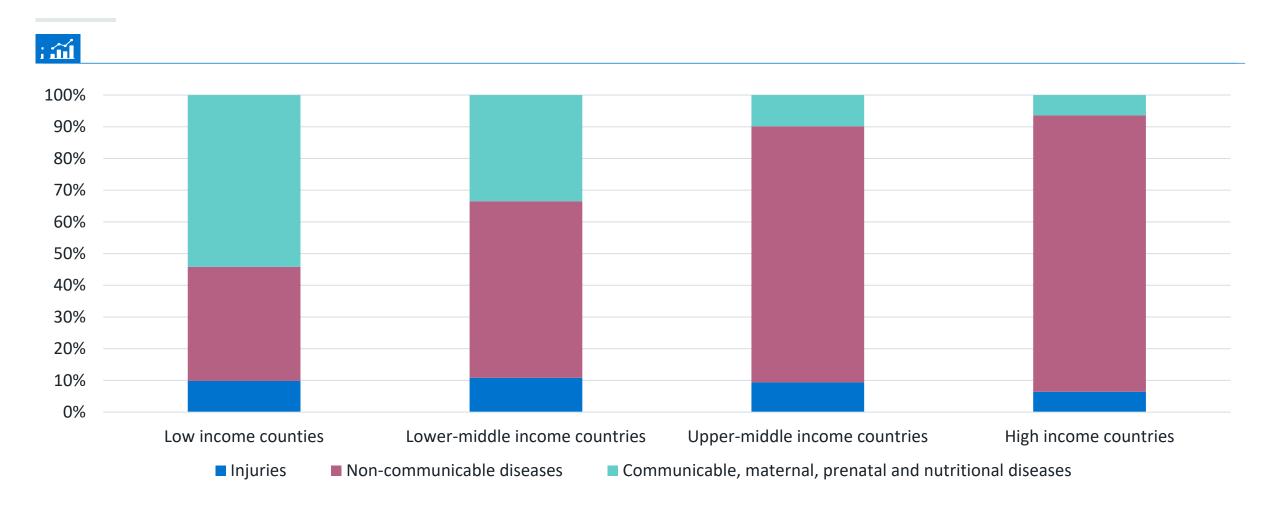
Dengue follows the climate







Infectious diseases greater emerging market impact



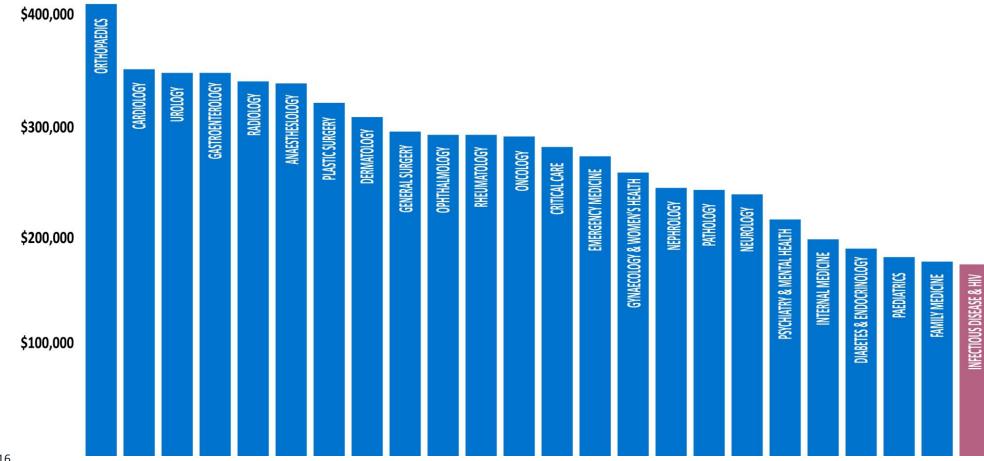
Source: The Lancet, WHO, 2020



Infectious diseases systemically neglected

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Average US salaries for research staff 2016



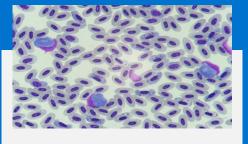




Infectious pathogens









BACTERIA

E.Coli, tetanus, typhoid fever, diphtheria, syphilis, and leprosy

VIRUS

COVID, smallpox, influenza, mumps, measles, chickenpox, Ebola, HIV, rubella

PARASITES

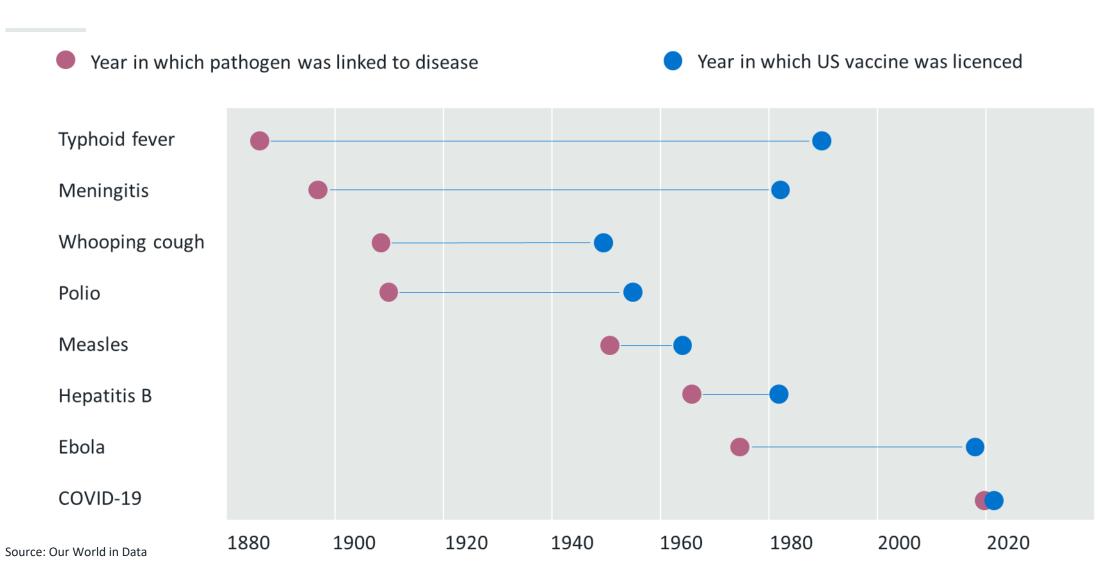
Malaria,
Leishmaniasis
(Kala-azar),
Cryptosporidiosis,
Amoebiasis,
Helminths

FUNGI

Candida albicans, Cryptococcus neoformans meningitis

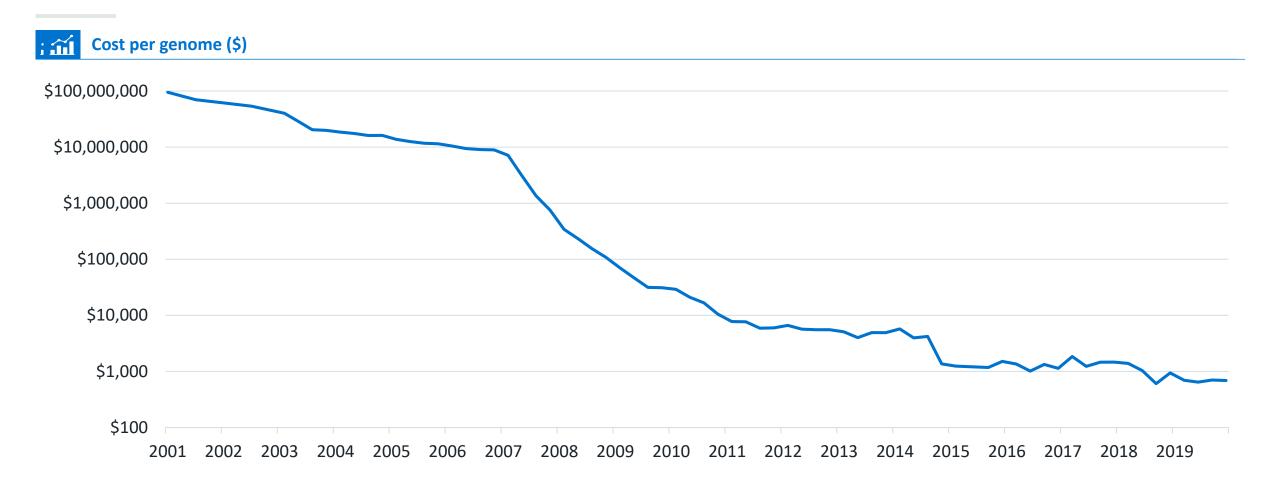


Rapid progress in vaccine innovation





#1 Genomic deep learning



Source: BAML, Illumina, NHGRI, 2020



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