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Mathematical modeling of mpox: a scoping review

Mpox, a disease that was formerly found in Africa, saw its global epidemic in 2022 and has since spread to several other parts of the world, posing a threat to global public health. The application of appropriate mathematical modelling techniques is required for well-informed policies intended to manage and control the spread of this disease. To identify the model classes that are most frequently used, their underlying assumptions, and the modelling shortcomings that need to be addressed in light of the epidemiological features of the current mpox outbreak, we will discuss mathematical models that have been used to study mpox transmission in the literature in this talk. This is a joint work with Jeta Molla, Idriss Sekkak, Ariel Mundo Ortiz, Iain Moyles.