

# THE BEST OF THE WEEK (03 ott – 09 ott 2022)

L.O. Gostin et al.

## **Living in an Age of Pandemics—From COVID-19 to Monkeypox, Polio, and Disease X**

JAMA Health Forum, September 2022; doi:10.1001/jamahealthforum.2022.4062

### **Abstract**

The reemergence of polio, as monkeypox soared and COVID-19 continues its devastation, has laid bare the magnitude of communicable disease threats and humankind's vulnerability. COVID-19 has caused 15 million deaths worldwide through last year and still kills more than 1000 daily. More than 60 000 monkeypox cases have been reported across 103 countries, most of which had never experienced cases unrelated to travel.

P.D. Rhys et al.

## **Using multiple sampling strategies to estimate SARS-CoV-2 epidemiological parameters from genomic sequencing data**

Nature Communications, September 2022; doi.org/10.1038/s41467-022-32812-0

### **Abstract**

The choice of viral sequences used in genetic and epidemiological analysis is important as it can induce biases that detract from the value of these rich datasets. This raises questions about how a set of sequences should be chosen for analysis. The authors provide insights on these largely understudied problems using SARS-CoV-2 genomic sequences from Hong Kong, China, and the Amazonas State, Brazil. They consider multiple sampling schemes which were used to estimate  $R_t$  and  $r_t$  as well as related  $R_0$  and date of origin parameters.