

## **Dynamics of Excess Mortality**

**David Iclanzan**

Department of Mathematics-Informatics  
Sapientia Hungarian University of Transylvania  
Târgu-Mureș, Romania  
`iclanzan@ms.sapientia.ro`

Excess mortality during a pandemic reflects a confluence of factors beyond just direct disease fatalities. It includes indirect deaths from overwhelmed healthcare, postponed medical procedures, medication shortages, skipped immunizations, mental health crises leading to substance abuse or suicides, reluctance to seek care due to infection concerns, economic-driven malnutrition, inactivity from lockdowns, increased domestic violence, overlooked tropical diseases, and stretched emergency services. In this talk we employ statistical modeling to explore how various national vaccination campaigns and quality of life and prosperity indicators impacted these outcomes amid the COVID-19 crisis.