Covid-19 evolution, 15 most affected countries (data from JHU CSSE, 10/2/21) Growth rate (%) of deaths  $\left(\frac{\Delta deaths}{deaths}\right)$ Total number of deaths Total number of deaths (log scale) 700000 1.75 600000  $10^{6}$ 1.50 500000 1.25 400000 1.00  $10^{5}$ 300000 0.75 200000 0.50  $10^{4}$ 100000 0.25 0.00 01/04 01/04 01/07 01/10 01/01 01/04 01/07 01/10 01/01 01/04 01/07 01/10 01/01 01/04 01/07 01/10 01/01 01/04 01/07 01/10 01/01 01/07 01/10 01/01 Acceleration of deaths  $\left(\frac{\Delta^2 deaths}{(\Delta t)^2}\right)$ deaths by day  $\left(\frac{\Delta deaths}{\Delta t}\right)$ deaths by day  $\left(\frac{\Delta deaths}{\Delta t}\right)$  (log scale) 150 4000  $10^{4}$ 3500 -100 3000 50 2500  $10^{3}$ 2000 1500 -50  $10^{2}$ 1000 -100 500 -150

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