



First and second waves of COVID-19 in Spain, Italy and elsewhere: A humanistic Epidemiology perspective

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UNICA webinar, October 8th, 2020 9:00–12:45

EL PAÍS

TRIBUNA | i

Coronavirus, ciencia y universidades

La terrible pandemia debería suscitar un cambio de políticas que permita crear una sociedad donde la educación y la ciencia sean fundamentales para el desarrollo frente a las desigualdades



“... The terrible pandemic should provoke a policy change that allows creating a society where education and science are fundamental for development in the face of inequalities...”

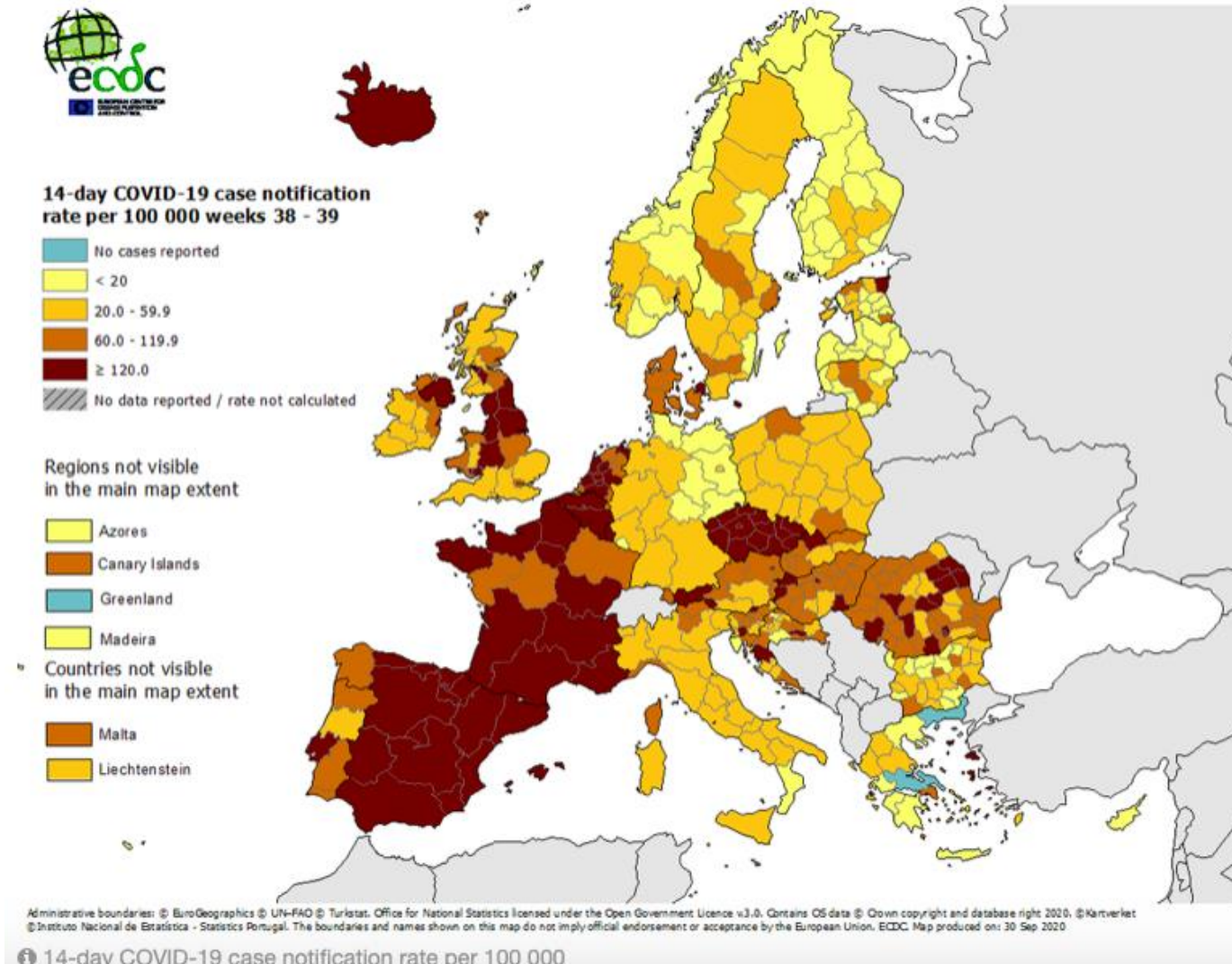


RAFAEL GARESSE

05 SEP 2020 - 00:30 CEST

El País, September 5, 2020

14-day COVID-19 case notification rate per 100 000, weeks 38-39



Data as of: **October 6, 2020**

From: **eCDC 6-oct-2020** at <https://www.ecdc.europa.eu/en/cases-2019-ncov-eueea>

ACTIVE CASES

7,827,630

Currently Infected Patients

7,760,646 (99%)

in Mild Condition

66,984 (1%)

Serious or Critical

[Show Graph](#)

CLOSED CASES

27,959,221

Cases which had an outcome:

26,909,405 (96%)

Recovered / Discharged

1,049,816 (4%)

Deaths

[Show Graph](#)

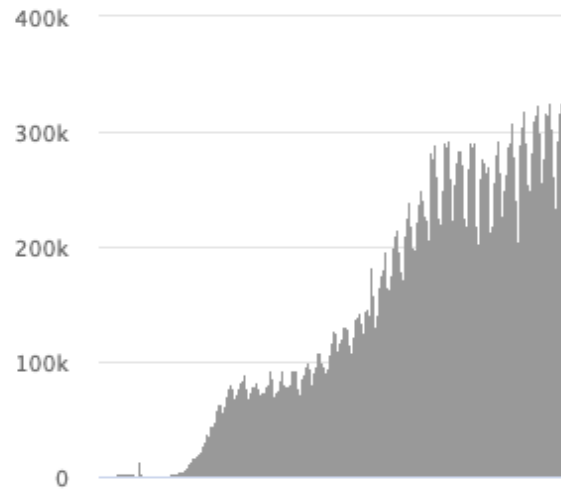
daily

linear

logarithmic

Daily New Cases

Cases per Day
Data as of 0:00 GMT+0



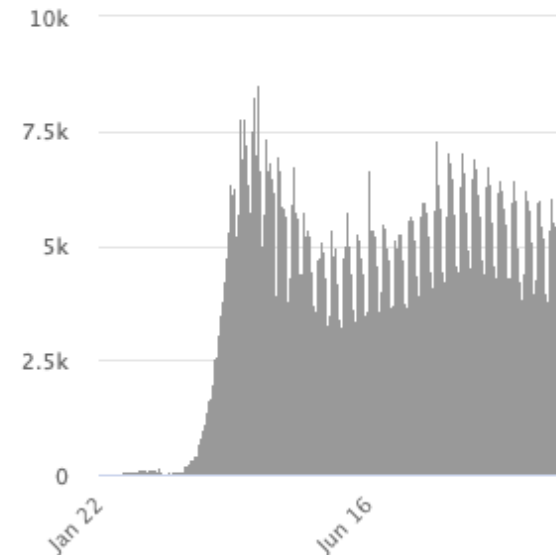
daily

linear

logarithmic

Daily Deaths

Deaths per Day
Data as of 0:00 GMT+0



Data as of: **October 6, 2020**

From: **Worldometers** at: <https://www.worldometers.info/coronavirus/>

“One death is a tragedy; one million is a statistic”

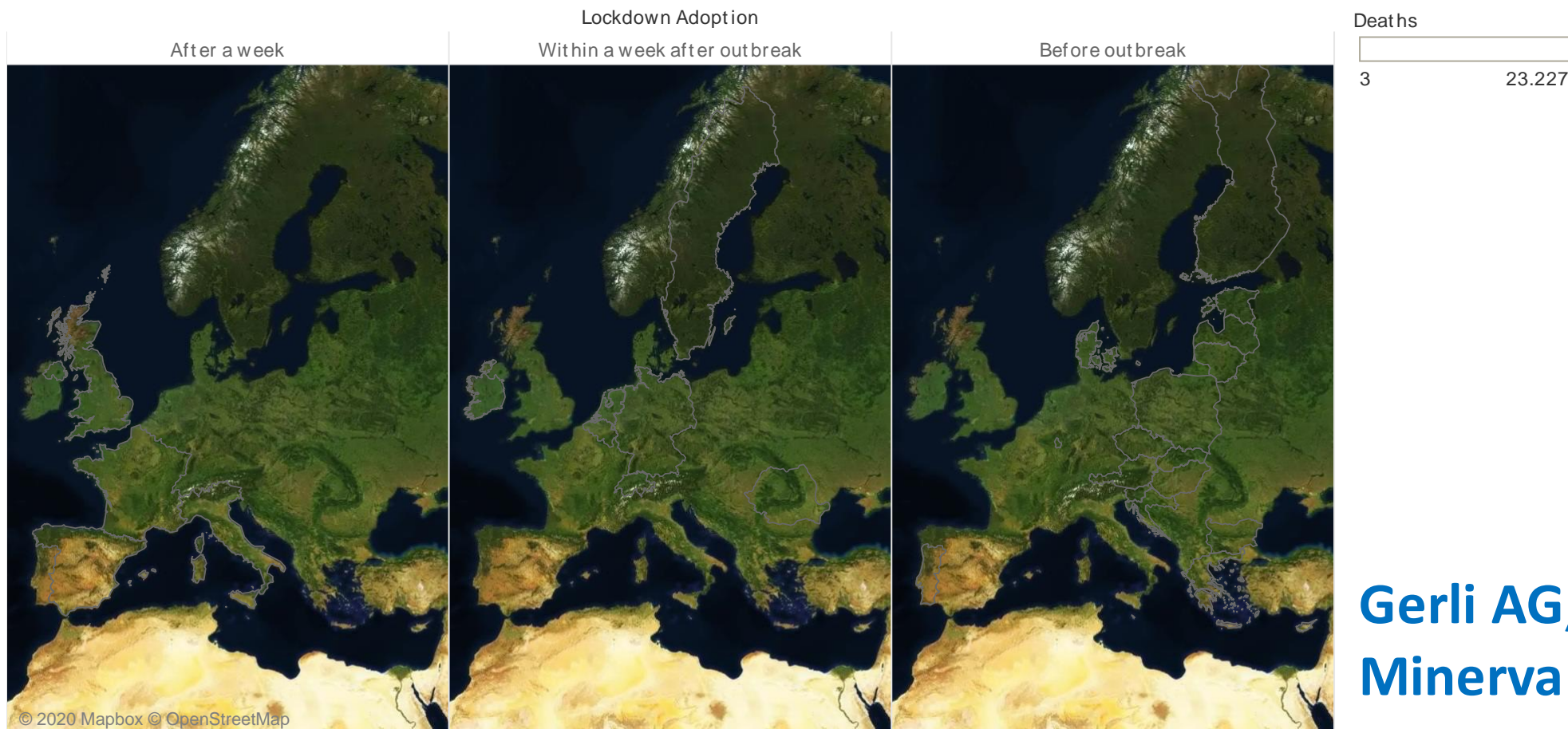


ORIGINAL ARTICLE

COVID-19 mortality rates in the European Union, Switzerland, and the UK: effect of timeliness, lockdown rigidity, and population density

Deaths compared to lockdown adoption

Alberto G. GERLI ¹, Stefano CENTANNI ^{2,3}, Monica R. MIOZZO ^{4,5}, J. Christian VIRCHOW ⁶,
Giovanni SOTGIU ⁷, G. Walter CANONICA ⁸, Joan B. SORIANO ^{9,10} *



Gerli AG, *et al.*
Minerva Med, 2020





The Big Wave. Kanagawa, 1829

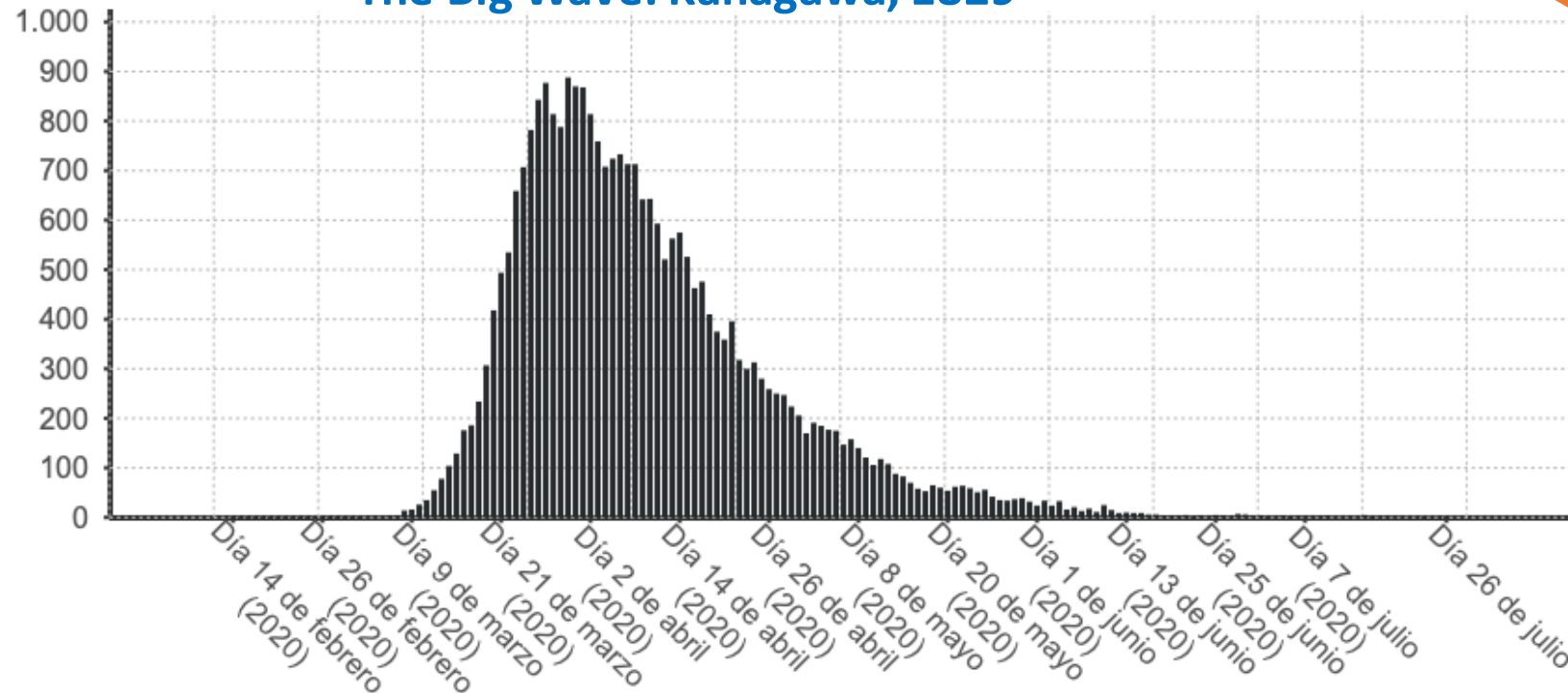


A second “Big Wave”?



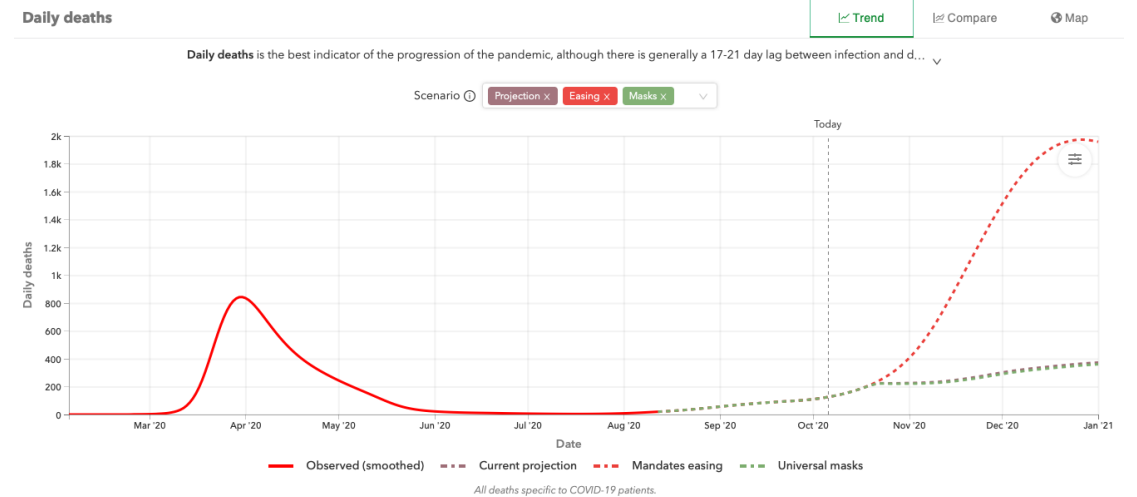
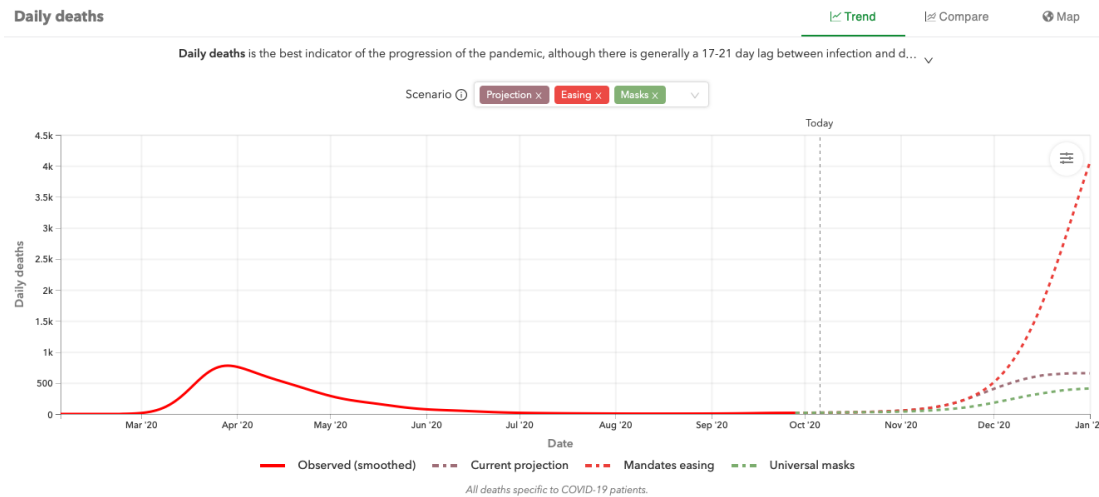
A second “Little wave”?

Personas (Unidades)



COVID-19 daily deaths in Spain (from March 6th to July 27th, 2020)

Italy vs. Spain



Date: October 6, 2021 (and IHME-University of Washington projections up to January 1, 2021)

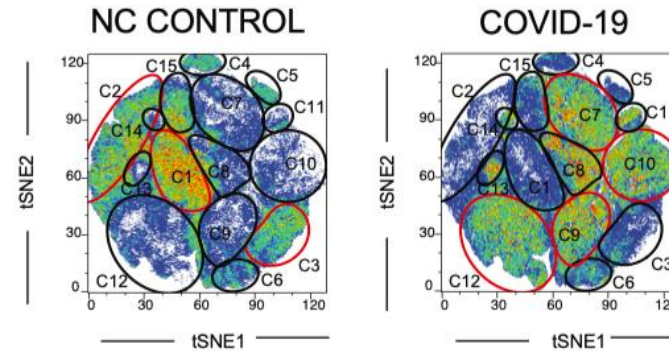
Modelling Data Source available at: <https://covid19.healthdata.org/>

Last updated: October 2, 2020 (Pacific Time)

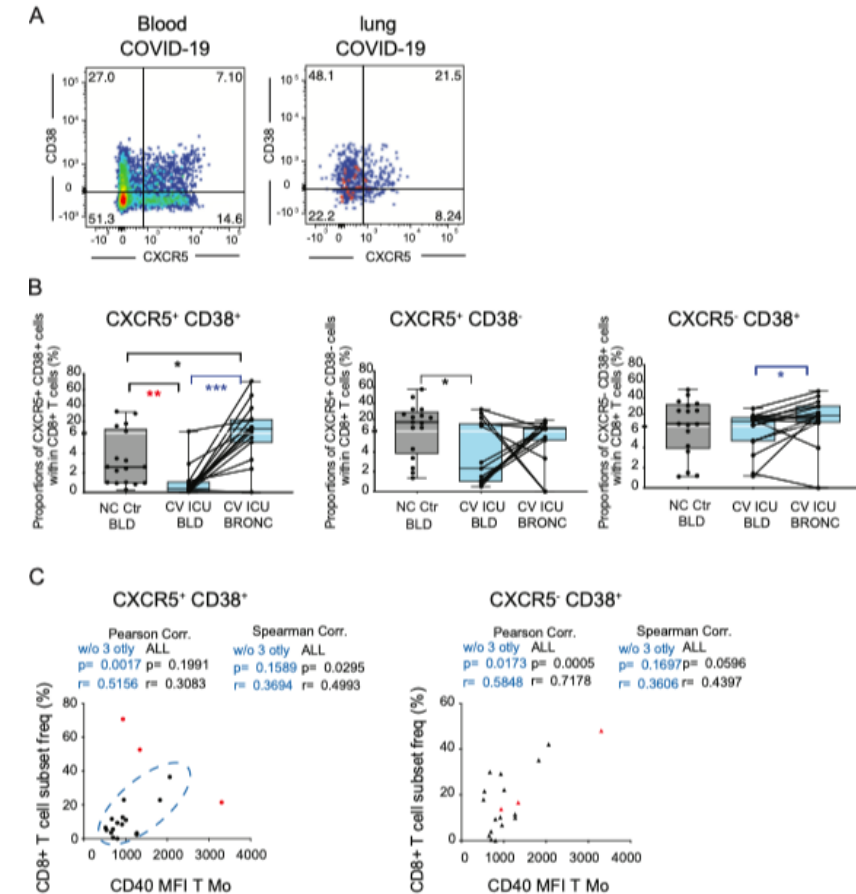
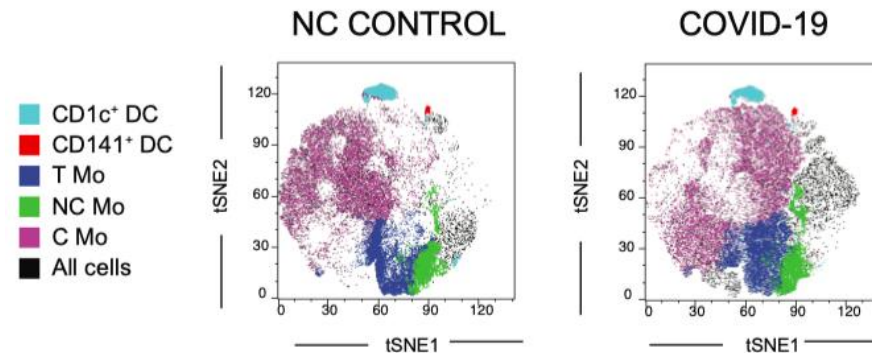
DATA UNPUBLISHED – NOT TO BE QUOTED – NOT TO BE REFERENCED



Total cell distribution (Lin- HLA-DR+)

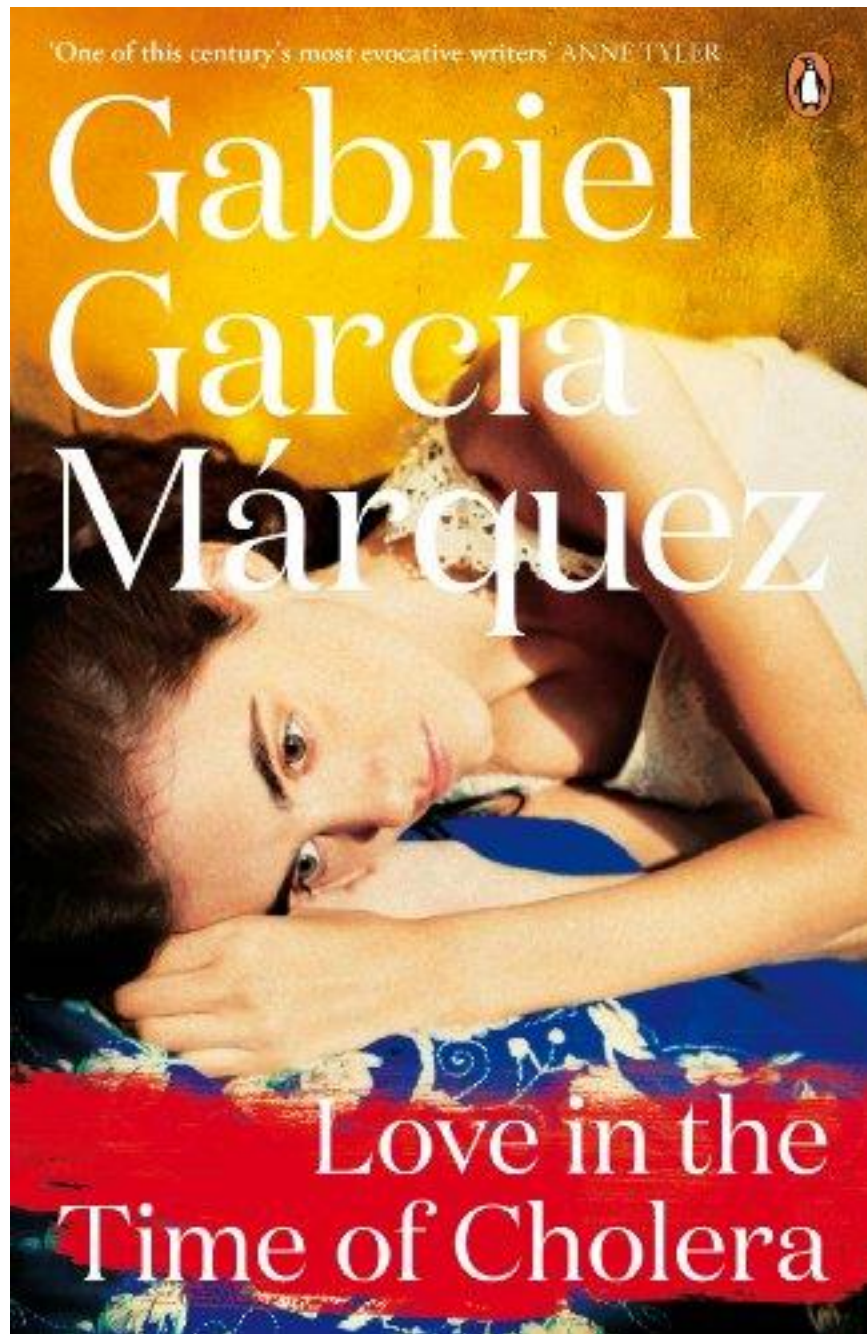


Myeloid subset distribution (Lin- HLA-DR+)



Bronchial fluid snail snot or slime from a bronchoscopy in a severe ARDS COVID-19 patient (April 2, 2020)

Sánchez-Cerrillo I, et al. J Clin Investig 2020.



European Journal of Epidemiology
<https://doi.org/10.1007/s10654-020-00639-y>

CORONA DISPATCH



Humanistic Epidemiology: Love in the time of cholera, COVID-19 and other outbreaks

Joan B. Soriano^{1,2} 

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© Springer Nature B.V. 2020



Gesamtkunstwerk?



[Special Feature]

CHEST

On Doctors and Their Operas A Critical (and Lyrical) Analysis of Medicine in Opera

Juan B. Soriano, MD

The goal of this research was to analyze the opera repertoires in terms of contents of physician roles. An additional goal was to propose significant characters and passages that exemplify the changing role and perception of medicine in society over five centuries. A systematic search was performed. Musical characteristics and performing roles, and their characteristics, were tabulated and formally analyzed. Of 413 operas listed, 55 (13.3%) were identified as having either a patient and/or doctor as characters. These operas span 229 years, from 1777 to 2016. Beyond successful Family Medicine and Generalist, some operas could be attributed to medical specialties, including 3 (5.7%) to Respiratory. Most interestingly, the 34 operas (8.2%) with physician roles are all represented by male characters, distributed by voice register mostly in the grave chords. Overall, the composer that appears with the highest interest in reporting disease is Giuseppe Verdi, with nine operas that include medical doctors. Finally, a trend can be observed regarding the working role of doctors, from mostly minor, buffa roles, either with magical or comical components in the 18th century, to a professional/technical physician more recently. Opera explores a changing perception of the role of doctor throughout history, with a latest gender bias that still persists.

KEY WORDS: doctor, harmonistic medicine, opera, voice, woman

Many consider there is an urgent need to reformulate medicine.¹⁻³ Clinical practice must include non-technical care to further relieve suffering and maintain a partnership of patients and doctors against disease.⁴ Although physicians train extensively to relieve suffering via pathophysiology, rather basic human needs are often neglected. Re-humanizing the doctor-patient relationship should help to support human connections of doctor and patient, and the arts may help.^{5,6} Music has been considered a complementary medical treatment for the management of many chronic, as well as acute, diseases.⁷⁻¹¹ In particular, opera is a genre of theatrical

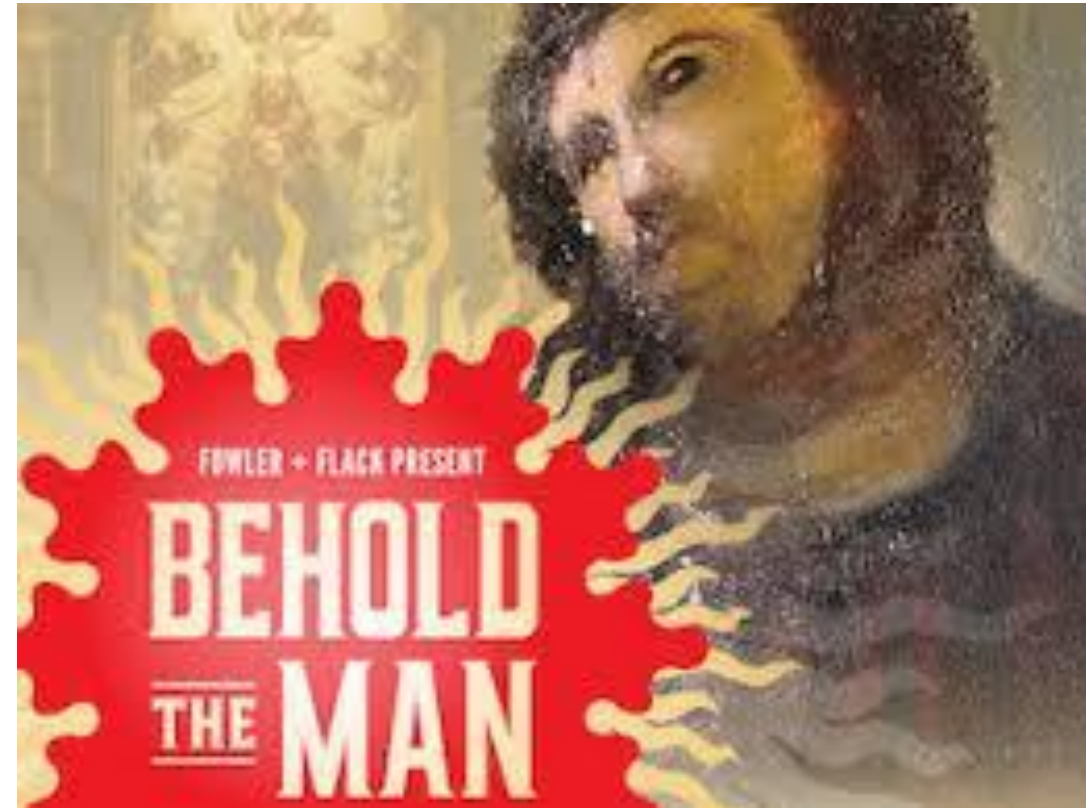
music in which a scenic action is harmonized, sung, and has instrumental accompaniment. It is an art form in which singers and musicians perform a dramatic work combining text (libretto) and musical score, usually in a theatrical setting. Indeed, the German opera composer Richard Wagner coined the term Gesamtkunstwerk (translatable to English as a total work of art), to refer to a type of entertainment that integrated the six arts: music, dance, poetry, painting, sculpture, and architecture. Since the origins of opera in the 16th century (with Dufay by Jacopo Peri in 1597), death and disease have been a topic in many

ARTICULATION: from the Institute of Investigation, Hospital Universitario de la Princesa (2017) Universidad Autónoma de Madrid, Madrid, Spain and Scientific and methodological evaluation of IISG AR www.iisgar.es
CORRESPONDENCE: to Juan B. Soriano, MD, Institute de Investigación Hospital Universitario de la Princesa IISG-UMM, C/Princesa de Lillo 45, 28001-Madrid, Spain, email: jbsoriano@iisgar.es
COPYRIGHT © 2018 American College of Chest Physicians. Published online ahead of print at <https://doi.org/10.1093/ajcp/ajz015>

Soriano JB. Chest. 2018.



Cecilia Jimenez, “Ecce Homo”, 2012.



Behold The Man, 2019.

High SARS-CoV-2 Attack Rate Following Exposure at a Choir Practice — Skagit County, Washington, March 2020

Lea Hamner, MPH¹; Polly Dubbel, MPH¹; Ian Capron¹; Andy Ross, MPH¹; Amber Jordan, MPH¹; Jaxon Lee, MPH¹; Joanne Lynn¹; Amelia Ball¹; Simranjit Narwal, MSc¹; Sam Russell¹; Dale Patrick¹; Howard Leibrand, MD¹

Summary

What is already known about this topic?

Superspreading events involving SARS-CoV-2, the virus that causes COVID-19, have been reported.

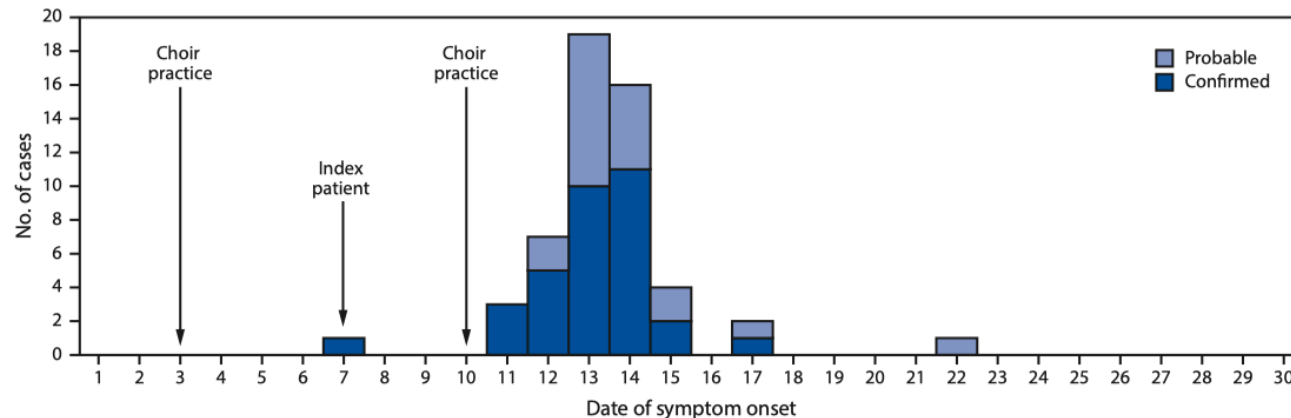
What is added by this report?

Following a 2.5-hour choir practice attended by 61 persons, including a symptomatic index patient, 32 confirmed and 20 probable secondary COVID-19 cases occurred (attack rate = 53.3% to 86.7%); three patients were hospitalized, and two died. Transmission was likely facilitated by close proximity (within 6 feet) during practice and augmented by the act of singing.

What are the implications for public health practice?

The potential for superspreader events underscores the importance of physical distancing, including avoiding gathering in large groups, to control spread of COVID-19. Enhancing community awareness can encourage symptomatic persons and contacts of ill persons to isolate or self-quarantine to prevent ongoing transmission.

FIGURE. Confirmed* and probable† cases of COVID-19 associated with two choir practices, by date of symptom onset (N = 53) — Skagit County, Washington, March 2020



Abbreviation: COVID-19 = coronavirus disease 2019.

* Positive reverse transcription–polymerase chain reaction test result.

† Attendance at the March 10 practice and clinically compatible symptoms as defined by the Council of State and Territorial Epidemiologists, Interim-20-ID-01: Standardized surveillance case definition and national notification for 2019 novel coronavirus disease (COVID-19). https://cdn.ymaws.com/www.cste.org/resource/resmgr/2020ps/interim-20-id-01_covid-19.pdf.

After choir practice with one symptomatic person, 87% of group developed COVID-19



● Index case ● 32 confirmed and 20 probable cases ● unaffected person

COVID-19 spreads easily

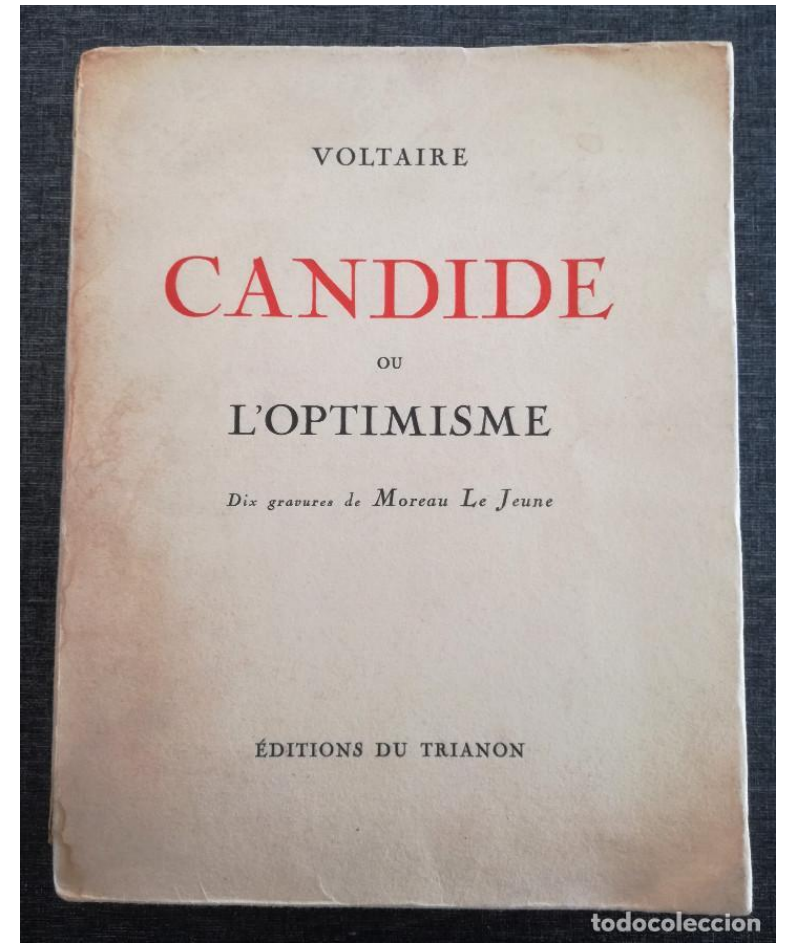
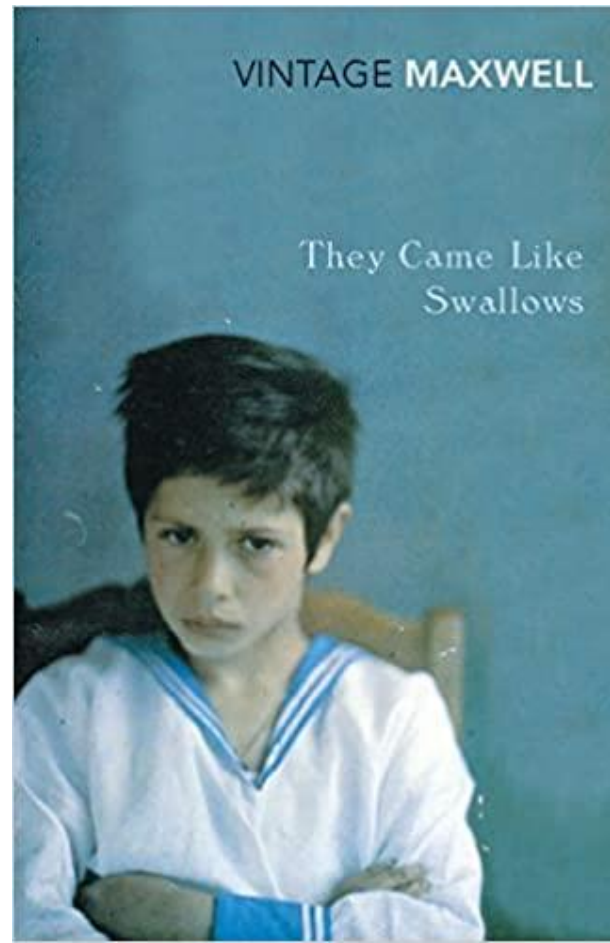
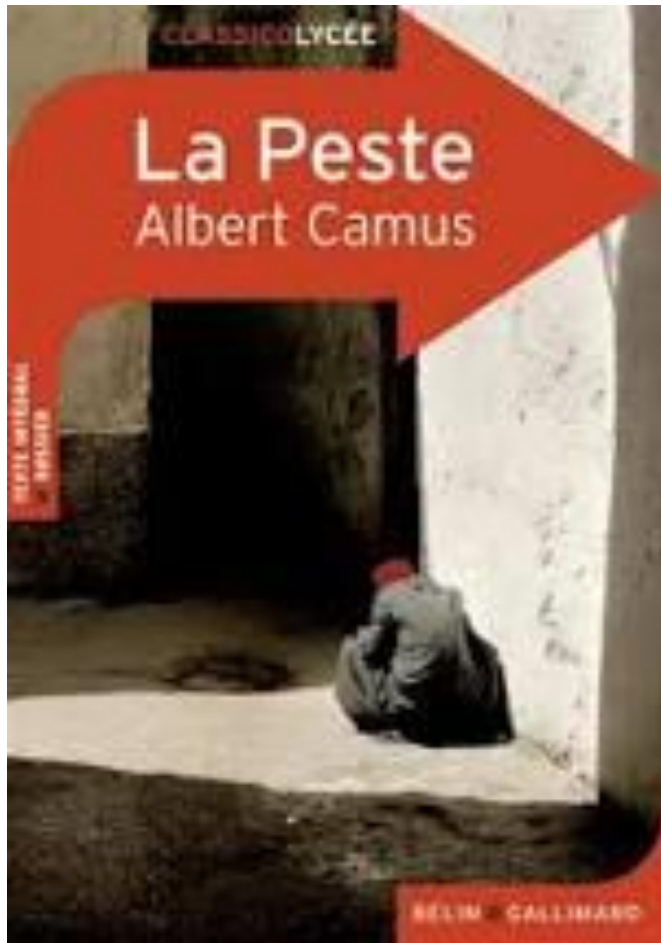
- Avoid groups
- Stay at least 6 feet apart
- Wear face coverings

CDC.GOV

bit.ly/MMWR51220

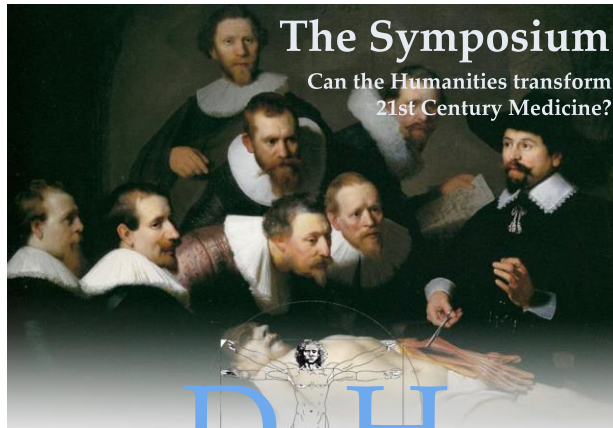
MMWR

Hamner L, et al. MMWR 2020.



The **Violin Concerto** in D Major Opus 35 by Pyotr Ilyich **Tchaikovsky**, 1878
<https://www.youtube.com/watch?v=CZMDIUXcw-k> by Itzhak Perlman

The Doctor as A Humanist



The Doctor as a Humanist
13-14 October 2017
Royal Academy of Medicine & Caixa Forum | Palma

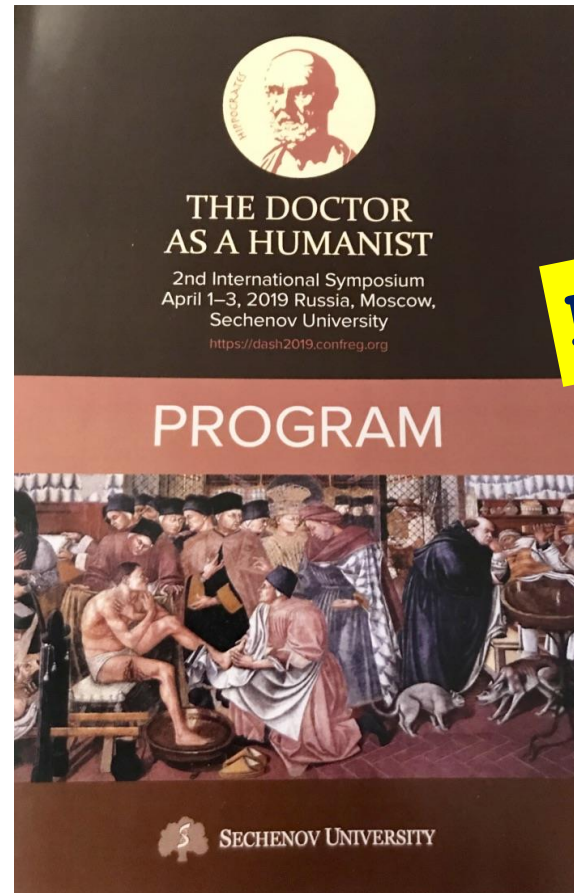
Scientific Foundation



Medical Council, Balearic Islands



[/dohumanities](#) [/sechenovhumanities](#) [doctorashumanist.wordpress.com](#)



3rd International Symposium
March 25-28, 2021 Mexico

March 24-27, 2021



José de Letamendi y Manjarrés

(Barcelona, 1828-Madrid, 1897)

***"El médico que sólo sabe Medicina,
ni de Medicina sabe"***



D. JOSÉ DE LETAMENDI.

1869.



Conclusions

- Universities face a huge challenge during the ongoing COVID-19 pandemic
- We disagree with the quote: “One million tragedies”
- Arts (and other forms of Humanism) can help to restore balance now, but especially afterwards



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