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Vould you put all these drs in that baseball cap? Dr

Dr Sucharit Bhakdi Dr Roger Hodkinson **Dr Reiner Fuellmich** Dr Pierre Kory (in NY during first wave) Dr John Ioannidis (the most cited epidemiologist) Dr Knut Wittowski Dr Luc Montagnier (Nobel prize winner for HIV identification) Dr Wolfgang Wodarg Dr Robert Malone (one of the inventors of mRNA technology) Dr Peter McCullough Dr Astrid Stuckelberger Dr Vernon Coleman Dr Michael Roizen Dr Kary Mullis (nobel prize winner inventor of the PCR) Dr Joseph Mercola Dr Thomas Cowan Dr Sherri Tenpenny Dr Heiko Schoning Dr Rashid Buttar

Dr Kary Mullis

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Tools

X 🤳 🔍



About 278 000 results (0,56 seconds)

https://www.reuters.com > article *

Inventor of method used to test for COVID-19 didn't say - Reuters

13 Nov 2020 - The post begins with the words "COVID-19 TEST a FRAUD?", then introduces he alleged quote from Mullis, who invented the PCR method in 1985 and ...

https://www.nationalgeographic.com/.sc

ionco article The eccentric scientist behind the 'gold standard' COVID-19 test

19 Feb 2021 — Bombastic biochemist Kary Mullis invented PCR, a tool that redefined genetic science, while driving in 1983. That was only the beginning.

https://www.nobelprize.org > prizes > chemistry > facts *

Kary B. Mullis - Facts - Nobel Prize

In 1985, Kary Mullis invented the process known as polymerase chain reaction (PCR), in which a small amount of DNA can be copied in large quantities over a ...

Prize motivation: "for his invention of the pol... Born: 28 December 1944, Lenoir, NC, USA Died: 7 August 2019, Newport Beach, CA, USA

https://fullfact.org > Health > Coronavirus *

The inventor of PCR never said it wasn't designed - Full Fact

23 Oct 2020 - Kary B Mullis invented the PCR test that's being used as the Covid-19 test. He

Kary Mullis American biochemist



Kary Banks Mullis was an American biochemist. In recognition of his invention of the polymerase chain reaction technique, he shared the 1993 Nobel Prize in Chemistry with Michael Smith and was awarded the Japan Prize in the same year. Wikipedia

Born: 28 December 1944, Lenoir, North Carolina,

anned States

Died: 7 August 2019, Newport Beach, California, United States

Shouse: Nancy Cosgrove Mullis

Fields: Molecular biology

Parents: Cecil Banks Mullis, Bernice Barker Mullis





Library Symposium Open data: what we learnt from the pandemic 12 October 2021 Kanshukan Rajaratnam School for Data Science and Computational Thinking

FORWARD

TOGETHER

MASIYE PHAMBILI

SAAM

VORENTOF



Introduction

•2020 was a tumultuous year

•The pandemic saw:

- proliferation of fake news
- proliferation of irresponsible science, and
- rise of Youtube-qualified scientists

Pandemic of disinformation

Role of open-data and the impact on libraries / institutions



Open data

•Open data

- freely available
- without copyright or control
- freely shared and used
- Requires attribution (from the user side)
- Fulfills regulatory requirements (POPI, GDPR, LGPD, etc)
 - Privacy preserving
- •Same ethos as open access software, open science, etc



Benefits

- Researchers and activists
 - accessibility of data
 - no need to replicate research
 - foster greater collaborations

Government

- greater transparency
- potential for grassroots activists to form their own strategy
- communities take ownership



NPOs and NGOs

focus on core-business



My frustration with data

AKTUEEL

Covid-19: Reëls om 2de vlaag te vermy



AKTUEEL

Covid-data: Lyk of SA in rigting van kuddeimmuniteit beweeg





(05 Okt. 2020

AKTUEEL

Data in die tyd van Covid-19: Sterftesyfer steeds hoog





AKTUEEL

Meer kritieke data nodig om pandemie te bestuur



AKTUEEL

Data in die tyd van Covid-19: Groeptoetse dalk sleutel

(16 Jul. 2020



AKTUEEL

Data in die tyd van Covid-19: Hou vas, die kruin is op pad

(02 Jul. 2020

AKTUEEL

Data in die tyd van Covid-19: Ouderdom maak saak





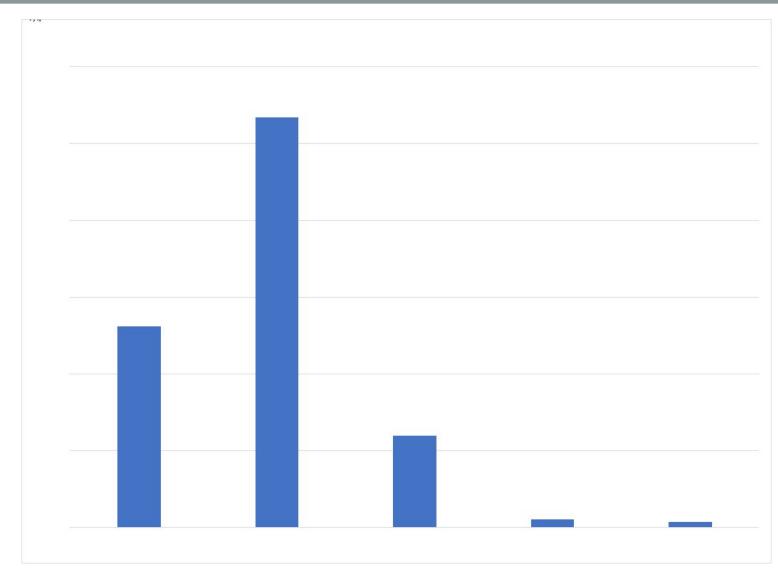
AKTUEEL

Data in die tyd van Covid-19: Bestuur ander toestande



5

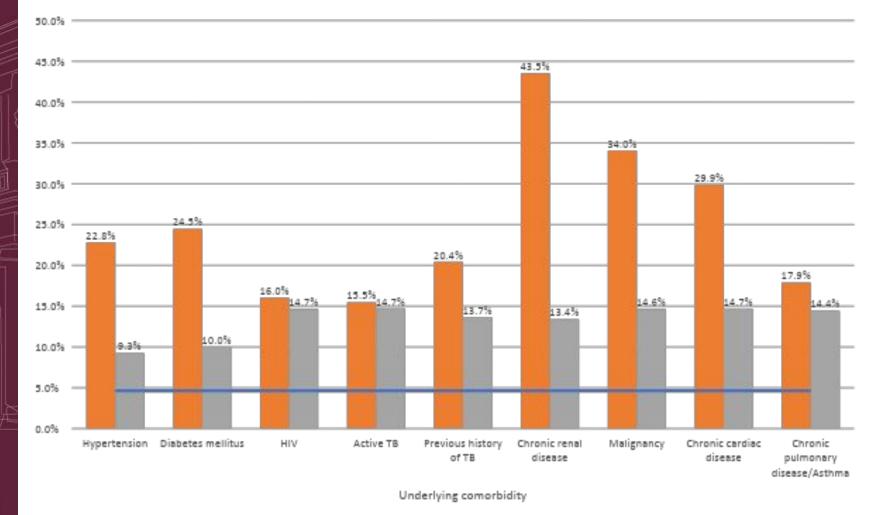
Prevalence of disease in South Africa



Data source: Data sourced from various public sites

Case Fatality Rates by comorbidities

Case Fatality Rate for various comorbid conditions

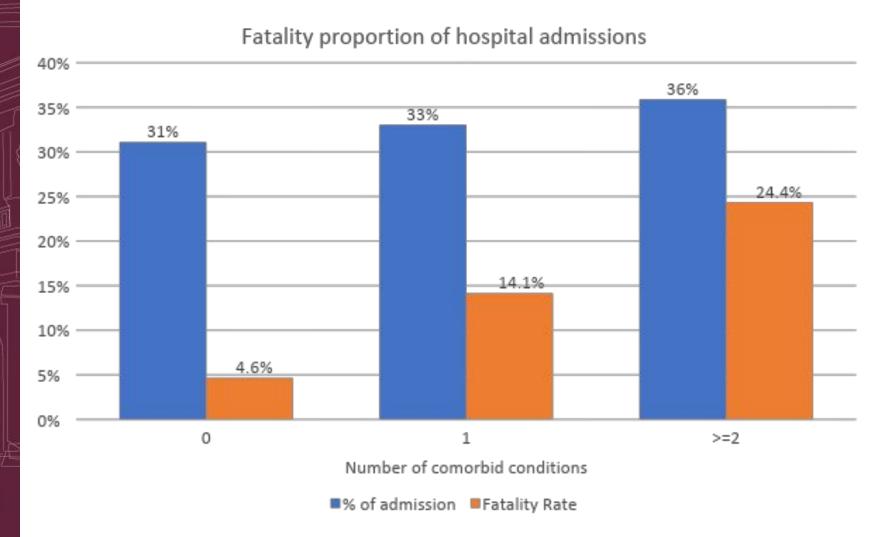


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Presence of underlying condition

Data source: National Institute of Communicable Diseases of South Africa

Hospitalisation and fatality rates by nr of comorbidities





Data source: National Institute of Communicable Diseases of South Africa



Impact of combination of comorbidities

• Privacy protected open data



• Call for primary health insurance funds to open all health data

Ensure privacy preserving

Greater innovations and solutions in this space



Africa as a source of data-but not science

NEWS 18 April 2018

African scientists call for more control of their continent's genomic data

Voluntary guidelines aim to combat 'helicopter' science and ensure that studies benefit African citizens and scientists.

Linda Nordling



• Infrastructure to handle large datasets (storage and computation)



• Ethical clearance from local partners





Infrastructure

•Education

Collaboration



•Leverage



FAIR/O

• Findable

Accessible

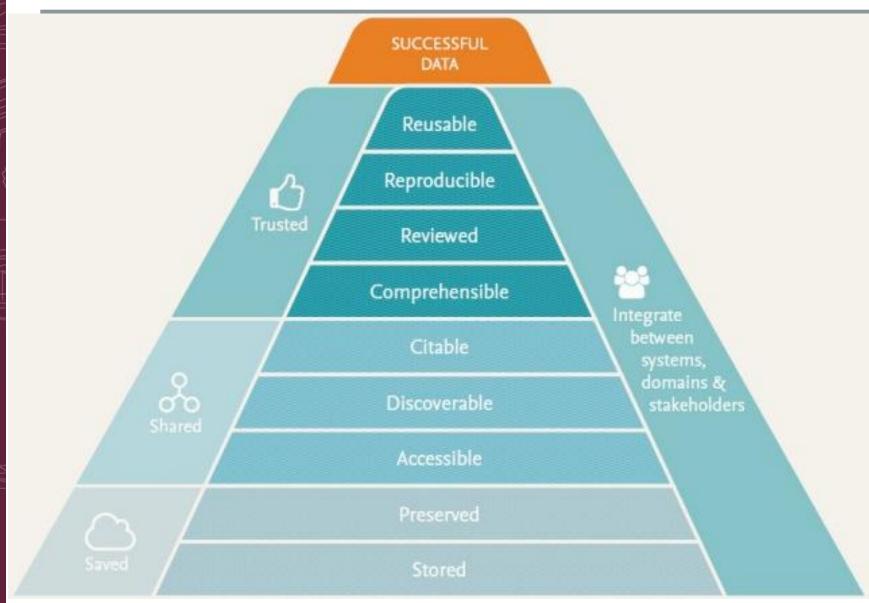
•Interoperable

•Reusable

•Open License

DataSearch - Elsevier

S 100



DataSearch Elsevier



DataSearch - Elsevier

C 🔒 data.mendeley.com/research-data/

Mendeley Data

Find research data

Advanced search help

Filter Results

29039075 results

DATA TYPES

Encl. of Letter No.-227_Solapur Environmental Assessment Report1

Dataset (8668115) Haris

~

Image (7022829)

- Document (6338592)
- 🔲 Tabular Data (6184433)
- Other (2468033)
- Physical Object (1312165)
- Software/Code (387308)
- Collection (315084)
- Text (184400)
- File Set (178079)
- Video (149036)
- 🗌 Audio (24266)
- Interactive Resource (23705)

Harish Gupta

Published 10 October 2021 | Mendeley Data

Encl. of Letter No.-227_Solapur Environmental Assessment Report1

✓ Preview

Dataset Document

Export: APA BibTeX DataCite RIS

Rajasthan_Report_EIA_WB

Harish Gupta Published 10 October 2021 | Mendeley Data

Rajasthan_Report_EIA_WB



Challenges

Cost

- Infrastructure
- implementation

Requires change in mindset

- Letting go
- Attribution

- Regulatory requirements
- •Whose data should be open?

•Exploitation of data and participants by richer countries

Cost of collecting, cleaning and storing data

Private entities using open data to generate revenues





Does open data produce more research and innovation? -Astronomy

- Sloan Digital Sky Survey (SDSS) and the Hubble Space Telescope (HST) have data open to the public (shorturl.at/abxSY).
- By the end of January 2021, 5600 published papers based on the SDSS open data.
- Prof. Chris Lintott at Oxford University used this data for the Galaxy Zoo project.
- Citizen science projects



Private industry

Does open data produce more research and innovation? – Health and Medicine

- Genetic sequence of the Novel Coronavirus makeup was published online within days
 - (shorturl.at/muyCR March 2020)
- NGS produces large amounts of data
- NextStrain
 - Genomic surveillance
- Greater number of pre-prints
- https://www.worldometers.info/coronavirus/



Cape Town Open Data Portal

• Accessible data from demography to transportation

- Hope to fuel investments, economic development and improve efficiencies in the system
- Enable cooperation
- Public good

• Data that has be

a Policy of the City

Latest data sets (date uploaded) Electricity Load Profiles - 2021/09/09 Waste sources emissions inventory -2020/06/29 Stationary sources emissions inventory - 2020/06/29 Transportation sources emissions inventory - 2020/06/29 IPPU emissions inventory - 2020/06/25

- EU Commission (2012) included libraries in their recommendation for accessing and preserving scientific information
- Libraries, repositories and data centre (OECD report)
 - researchers, government ministries, funding agencies, universities and public research institutes, private non-profit organisations and foundations, private scientific publishers, businesses and supra-national entities







Advocating and raising awareness

Giving support to the infrastructure

• Research data management (RDM)



• Training and supporting researchers



- Advise (data management and preserving research outputs)
- Support researchers
- Data mining
- Develop metadata schema,



Advise on discipline/subject standards and practices



Partnership is key

• Within universities

Governments

NGOs and NPOs

• Private entities

• Data Schools



- Launched in July 2019 with a vision to be a world-class institution for Data Science and Computational Thinking in and for Africa
- 10 researchers and 10 postdocs (growing to 14 researchers and 13 postdocs by 2022)

Three professors

- Brian Ganson (Africa Centre for Dispute Settlement)
- Bruce Watson (Chair of Computational Thinking)
- Tulio de Oliveira (Centre for Epidemic Response and Innovation)



Conflict Barometer

- Applications of tools of data science to conflict systems analysis
- Requires conflict data at a small geographical level
- Designing a system for data storage and sharing
- Designed for usability
- Partnership with a private entity but ensuring low cost of usage for computation (not data)
- Various levels of access



CERI

• Greater sharing of genomic data within Africa

• Resulting in identifying new variants

• Results in greater research collaborations and world-class outputs

• Data generation skills sharing with dozens of African countries



Final Remarks

- Open data for emergent issues
- Library services and HEI's should be on the forefront of African Open Data initiatives
- Includes storage, computation and data curation
- Given the resource gap in Africa, partnerships and collaborations in important
- Partnership between governments, researchers, HEIs (libraries) and private entities for African Open Data Initiatives
- Help grassroot organisations in accessing and ingesting data and to

