

#BurdenEU webinar

Activities and achievements of the Italian Global Burden of Disease Initiative

Thursday 29 Apr 2021 | 13h00-14h00 CET



The experience of GBD Italian Cardiovascular Diseases Collaborators:

how we can work together to use GBD data efficiently

Paolo A Cortesi, 1,2 PhD and Carla Fornari, 1 PhD

- 1. Centro di Studi e Ricerca sulla Sanità Pubblica (CESP), Università degli Studi Milano-Bicocca, Monza, Italia:
- 2. Unità Value-based Healthcare, IRCS Multimedica, Sesto S. Giovanni, Italia.



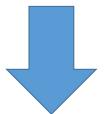
Creation of GBD Italian Cardiovascular Diseases Collaborators group



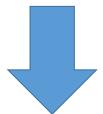
March 2019

GBD Italian collaborators (n=55/60 members)

Call for Collaborator-Led Publications within Italian initiative



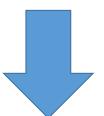
GBD Italian neurological diseases collaborators



GBD Italian tumor collaborators



GBD Italian CVDs collaborators



GBD Italian



Creation of GBD Italian Cardiovascular Diseases Collaborators group



March-April 2019

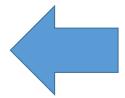
GBD Italian CVDs collaborators

Application to be part of the group open to all members



Selection of leading group (5 members) based on:

Selection of group coordinator



- Experience in CVDs studies,
- Experience in project management,
 - Motivation,
- Possibility of good interaction with other members of the leading group.



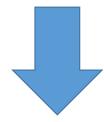
Definition of first project aims



April-may 2019

GBD Italian CVDs collaborators

Review of GBD papers on CVDs and studies on Italian CVDs Burden



For Italy, sparse data are available about the incidence and prevalence of major CVDs despite the long tradition of epidemiological studies in the country.

Even more fragmented is the information for other CVDs, including: abdominal aortic aneurysms, cardiomyopathy, heart failure and atrial-fibrillation.



Definition of first project aims



April-may 2019

GBD Italian CVDs collaborators

Review of GBD paper published on CVDs and study in the CVDs Italian Burden



Aim:

proposed by the leading group and reviewed and validated by all group members

Using the GBD estimates, this study aimed to fill the gap of knowledge on the global Italian estimates of CVD prevalence, mortality and DALYs and their changes from 1990 to 2017.

Furthermore, the CVD DALYs burden during this time frame in Italy was compared to that of the other European countries, using the GBD standardized approach that makes estimates across countries comparable.



Definition of structure and data to include in the paper



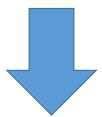
May-June 2019

GBD Italian CVDs collaborators

Review of GBD papers published on CVDs



Definition of structure and data by leading group



Reviewed and approval by all group members



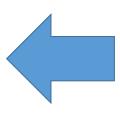
Draft the manuscipt



June-Dec 2019

GBD Italian CVDs collaborators

Review by IHME leading group of CVDs projects



- Selection of target journal
- Task definition and selection of leading group member for each task:
 - Data extraction and review
 - Creation of Figures and tables
 - Draft of methods section
 - Draft of results section
 - Draft of introduction and discussion
 - Fist draft share with all members for first revision
- Revision of the first draft based on comments received and second draft share for revision and final approval.



First achievement by GBD Italian CVDs collaborators





Preventive Cardiology



Full research report

Trends in cardiovascular diseases burden and vascular risk factors in Italy: The Global Burden of Disease study 1990–2017

Paolo A Cortesi¹, Carla Fornari¹, Fabiana Madotto², Sara Conti¹, Mohsen Naghavi³, Boris Bikbov⁴, Paul S Briant⁵, Valeria Caso⁶, Giacomo Crotti¹, Catherine Johnson⁵, Minh Nguyen⁵, Luigi Palmieri⁷, Norberto Perico⁴, Francesco Profili⁸, Giuseppe Remuzzi⁹, Gregory A Roth¹⁰, Eugenio Traini¹¹, Fabio Voller⁸, Simon Yadgir⁵, Giampiero Mazzaglia¹, Lorenzo Monasta¹¹, Simona Giampaoli⁷, Lorenzo G Mantovani^{1,2}, on behalf of the GBD 2017 Italy Cardiovascular Diseases Collaborators European Journal of Preventive Cardiology 0(0) 1–13 © The European Society of Cardiology 2020 Article reuse guidelines: sagepub.com/journals-permissions DOI: 10.1177/2047487320949414 journals.sagepub.com/home/cpr

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All the work done using GBD data for specific Italian paper gave the possibility to review the data more critically and in more details.

This open the possibility to interact with IHME to improve the Italian GBD estimates based on some discrepancy identified compare to other sources (National institutions, other research projects, etc.)





January 2020, Rome

GBD Italian collaborators (n=75/80 members)

Technical Workshop

Italian GBD Initiative: working groups for the evaluation of preliminary regional GBD 2019 estimates





Working groups on main Diseases

- Cancer
- Cardiovascular diseases
- Neuological Diseases
 - Renal Diseases
- Maternal and Child Health

Working groups on Risk factors

- Diabetes
- Cardiovascular diseases
- Occupational Helath
 - Alcohol and smoke
- Nutritional risk factors
- Environmental exposures

GBD Italian collaborators volontarly took part to each groups in relation to expertise.





Technical Workshop (January 2020, Rome)

Italian GBD Initiative: working groups for the evaluation of preliminary regional GBD 2019 estimates

During working groups, members discussed their preliminary evaluation of Regional GBD 2019 estimates and scheduled future work with a common evaluation approach.



Each group shared preliminary results of the evaluation to other groups for discussion. Results were then reported to IHME





CVDs group work

Regional Estimates Comparison

- CVDs Mortality

Estimates for calendar years 2010 and 2019 (all ages, men and women separately, for Italy and its subregions) were compared with the national official statistics provided by the Italian National Institute of Statistics (ISTAT) - years 2010 and 2017, and by the WHO for year 2010.

Comparison was done for all CVD as a whole, stroke and Ischemic Heart Diseases subcategories.

- CVDs Incidence.

No official data on incidence in the time period considered were aviable for comparison. We used studies on CVDs Incidence and official healthcare databases from one Italian region.

Main results for the Stroke subgroup were also shared wth the neurological group.





CVDs group work

Final Report

Discrepancies between regional Italian statistics and GBD estimates were collected in a report.

The report was then sento to IHME.

Issues Discussion

We had an open discussion with IHME members to resolve or understand all issued arised in our report.







Thanks to all GDB Italian CVDs collaborators

Carla Fornari, Simona Giampaoli, Fabiana Madotto, Sara Conti, Luigi Palmieri, Daniela Balzi, Angela Spinelli, Chiara Donfrancesco, Brigid Unim, Francesco Giusti, Giuseppe Remuzzi, Norberto Perico, Boris Bikbov, Massimo Cirillo, Paola Santalucia, Lorenzo Monasta, Ippazio Cosimo Antonazzo, Giampiero Mazzaglia, Lorenzo G. Mantovani, Paolo A. Cortesi.