



ELSEVIER

Contents lists available at ScienceDirect

Data in Brief

journal homepage: www.elsevier.com/locate/dib



Data Article

Infodemiological data concerning silicosis in the USA in the period 2004–2010 correlating with real-world statistical data



Nicola Luigi Bragazzi^{a,*}, Guglielmo Dini^b,
Alessandra Toletone^c, Francesco Brigo^{d,e}, Paolo Durando^{b,f}

^a School of Public Health, Department of Health Sciences (DISSAL), University of Genoa, Via Antonio Pastore 1, Genoa 16132, Italy

^b Department of Health Sciences, Postgraduate School in Occupational Medicine, University of Genoa and Occupational Medicine Unit, I.R.C.C.S. University Hospital San Martino - IST National Institute for Cancer Research, Genoa, Italy

^c Department of Health Sciences, Postgraduate School in Occupational Medicine, University of Genoa, Genoa, Italy

^d Department of Neurology, Franz Tappeiner Hospital, Merano, Italy

^e Department of Neurological, Biomedical, and Movement Sciences, University of Verona, Italy

^f Unità operativa Medicina del lavoro, IRCCS AOU San Martino-IST, Genoa, Italy

ARTICLE INFO

Article history:

Received 21 August 2016

Received in revised form

25 October 2016

Accepted 3 November 2016

Available online 13 November 2016

Keywords:

Infodemiology and infoveillance

Internet

Occupational medicine and hygiene

Web 2.0

Work-related diseases

ABSTRACT

This article reports data concerning silicosis-related web-activities using Google Trends (GT) capturing the Internet behavior in the USA for the period 2004–2010. GT-generated data were then compared with the most recent available epidemiological data of silicosis mortality obtained from the Centers for Disease Control and Prevention for the same study period. Statistically significant correlations with epidemiological data of silicosis ($r=0.805$, p -value <0.05) and other related web searches were found. The temporal trend well correlated with the epidemiological data, as well as the geospatial distribution of the web-activities with the geographic epidemiology of silicosis.

© 2016 The Authors. Published by Elsevier Inc. This is an open access article under the CC BY license

(<http://creativecommons.org/licenses/by/4.0/>).

* Corresponding author.

E-mail address: robertobragazzi@gmail.com (N.L. Bragazzi).

Specifications Table

Subject area	Medicine
More specific sub- ject area	Occupational medicine
Type of data	Figure, tables
How data was acquired	Outsourcing of Google Trends site and the Centers for Disease Control and Prevention (CDC) site
Data format	Raw, analyzed
Experimental factors	Google Trends search volumes were obtained through graphs and heat-maps
Experimental features	Validation of Google Trends-based data with “real-world” data taken from the CDC site was performed by means of correlational analysis
Data source location	USA
Data accessibility	Data are within this article

Value of the data

- Google Trends (GT)-based data (*infodemiological* data) could be useful for scientific community, researchers and occupational physicians in that they show good correlation with “real world” data obtained from the Centers for Disease Control and Prevention site, thus proving to be reliable.
- These data could be further statistically processed, analyzed, refined and validated in such a way to complement traditional surveillance of silicosis, providing data quicker and in real time.
- These data could be used to understand occupational diseases-related web activities.
- To our knowledge, this is the first analysis of web search behavior related to an occupational disease, namely silicosis, carried out both in quantitative and qualitative terms.

1. Data

This article contains infodemiological data on silicosis searched in the USA in the study period 2004–2010, obtained from Google Trends (GT) (Fig. 1). These data well correlated with “real-world” data obtained from the Centers for Disease Control and Prevention (CDC) site for the same study period (Tables 1–3).

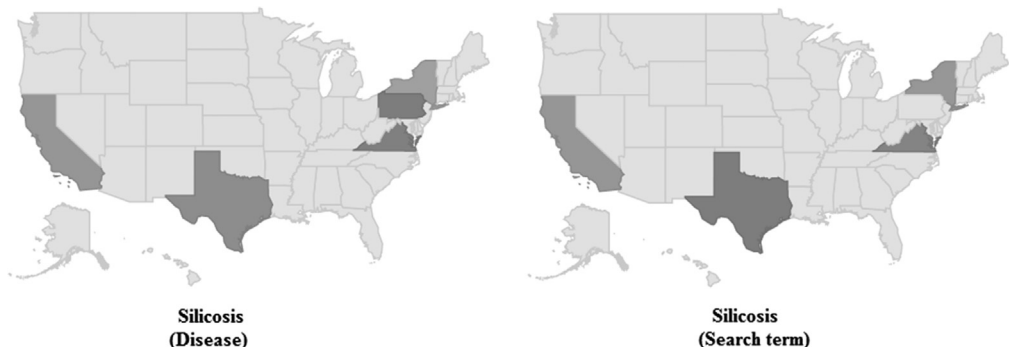


Fig. 1. Google Trends-generated heat-map showing the regional interest for silicosis in the USA. In particular, it can be noticed that silicosis-related web searches are concentrated in some counties (namely, California, Texas, New York, Pennsylvania, and Virginia).

Download English Version:

<https://daneshyari.com/en/article/4765307>

Download Persian Version:

<https://daneshyari.com/article/4765307>

[Daneshyari.com](https://daneshyari.com)