

Bibliometric Analysis of Scholarly Output on Cardiovascular Disease-**Related Research in Qatar: A Preliminary Analysis** Undergraduate Students, Health and

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Background

Biomedical sciencies

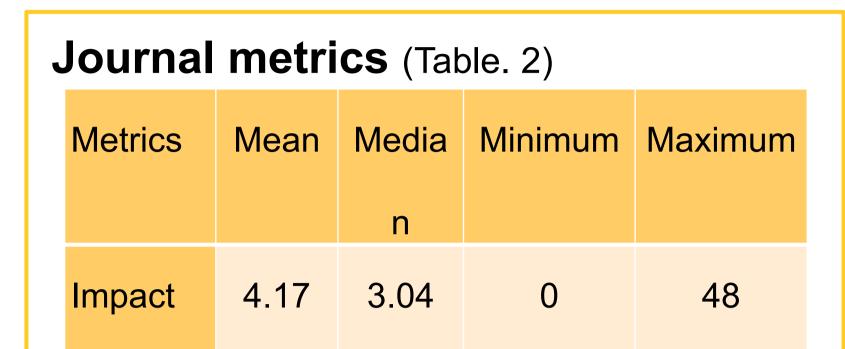
- Cardiovascular diseases (CVDs) are the leading cause of death from noncommunicable diseases in Qatar
- Qatar National Research Funds (QNRF), Qatar University (QU), and other institutions have identified CVD-related research as a **priority** research area

Publications Related Parameters

Number of publications per year (Figure.1)

- There is a noticeable **upward trend** over the 3 years with an increase of more than 40% from 2018 to 2020
- Average of 178 publications/year

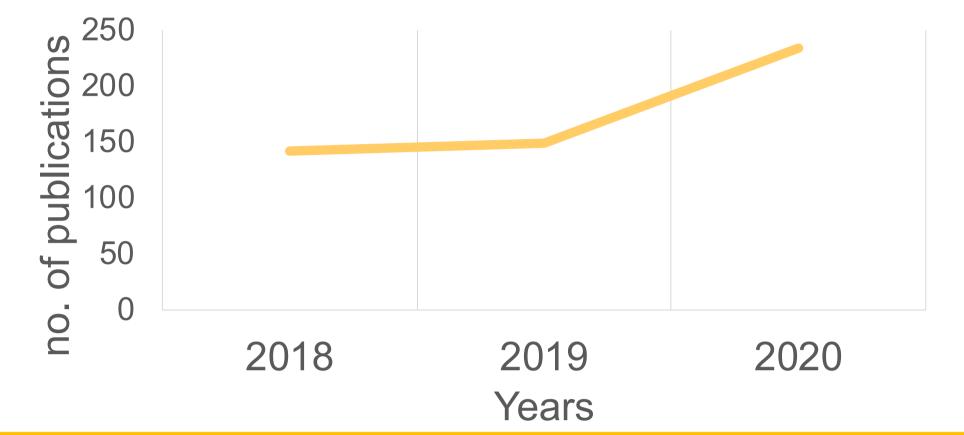
Journal Related Parameters



- Qatar allocates a huge amount of funding and **investment** for CVD-related research
- No enough data in the literature about CVD research activity and productivity in Qatar

Study Objective

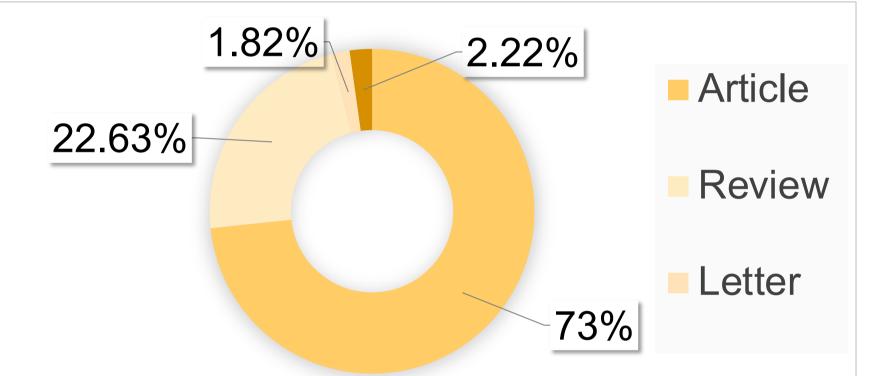
The objective of this study was to evaluate the quantity and quality of CVD-related research in Qatar over the last 20 years.



Types of publication (Figure.2)

- 4 types identified: Original research articles, reviews, editorials, and letters
- The majority were **original articles**, followed by

review articles



| Factor | | | | |
|-----------|--------|------|------|-------|
| H-index | 101.54 | 68 | 0 | 1159 |
| SJR | 1.52 | 0.94 | 0.09 | 19.80 |
| Citations | 7.99 | 4 | 0 | 162 |

Journal's quartiles (Figure. 5)

- 48% of the publications were published in the top 25% journals (Q1)
- 29.5% in Q2
- 4.8% of the publications were published in Q4

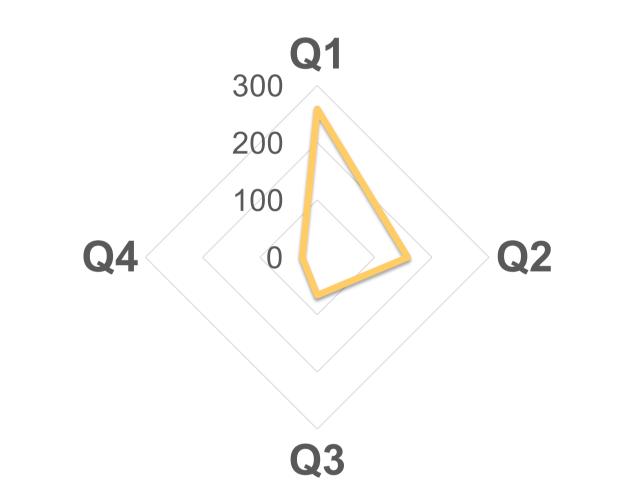


Table. 1

Methods

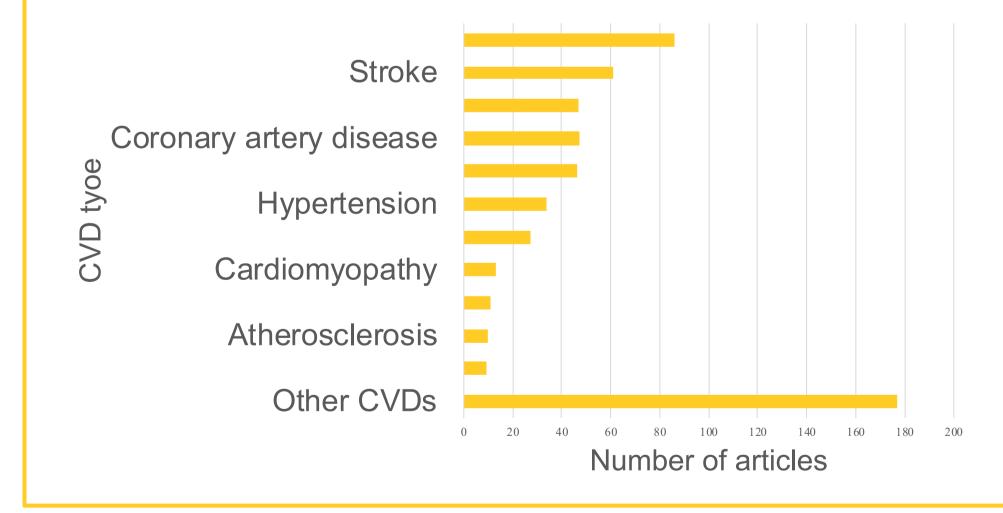
| Study Design | Bibliometric analysis |
|-----------------------|--|
| Databases | Scopus, Web of Science, PubMed, Cochrane Library |
| Inclusion Criteria | CVD-related papers published in online journals Between 2000 - 2020 |
| Data extracted | Publication-related parameters Journal metrics |
| Data analysis | Microsoft ExcelSPSS version 26 |

Interim Results

- 20 years (2000-2020): 1385 CVD-related publications identified
- 3 years (2018-2020): **534** CVD-related

CVD types (Figure.3)

- "CVDs in general" were the most common covered topic. It included disease burden, epidemiology, treatment approaches, and animal models.
- This was followed by **stroke**, arrhythmia, coronary artery disease, and thrombosis, respectively.



Main funding institutions in Qatar (Figure. 4)

201 documents were funded

Limitations

• Due to the limited time and large number of publications, only 3-year results were analyzed

• Although 4 databases were searched, some literature may have been missed such as grey literature

Conclusion

• This study is an initial indicator that CVDsrelated research in Qatar is of high quality

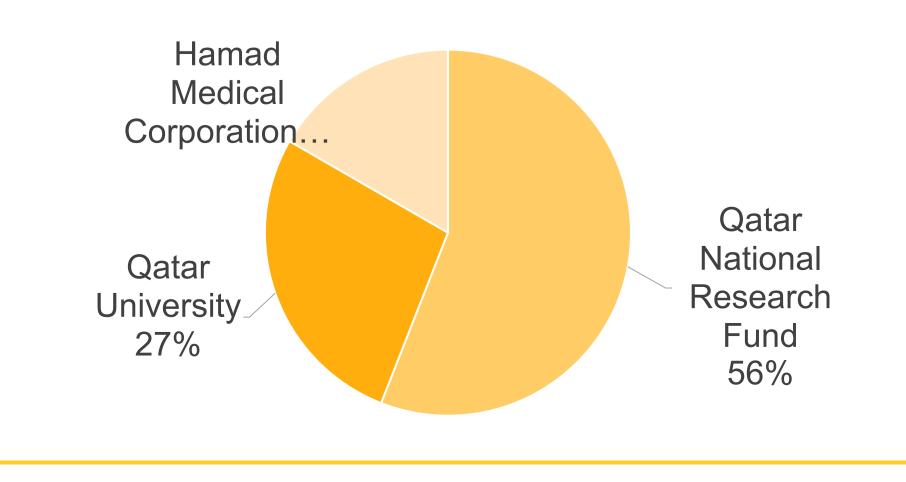
- This study will serve as a tool for funding
 - institutions in the country for a better allocation of grants and funding
- Upon the completion of the study, we will be

publications identified

- 85% of the publications were **applied** research, while 15% were **basic** research publications
- 83% of publications were indexed in **Scopus**, while 90% of publications were indexed in Web of Science

- 41.79% were funded by Qatari funding institutions.
- **QNRF** was the main funding institution
- 44.5% had the main author from a Qatari affiliation,

mainly Hamad Medical Corporation



able to visualize more clearly and make a

conclusion about CVD-related research in

Qatar

Acknowledgement: We acknowledge with thanks the research grant provided by Qatar University [grant number: QUST-1-CPH-2021-1] **References:** Cardiovascular Diseases in Qatar [Internet]. moph.gov.qa. [cited 2021 Jan 29]. Available from: https://phs.moph. gov.qa/data/cardiovascular-diseases/ Qatar National Research Strategy [Internet]. Available from: https://www.qnrf.org/portals/0/qnrs_2012.pdf