

Abstract Presentations

4. Nik Sherina Hanafi, Malaysia

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Chronic respiratory disease (CRD) surveys in low- and middle-income countries (LMICs): A systematic scoping review of methodologies and outcomes

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Introduction

- CRDs the leading causes of morbidity worldwide.
- Little robust data on true prevalence of asthma and COPD in LMICs
- Low rates of diagnosis
 - awareness
 - access to health care
 - diagnostic capabilities
 - questionnaire-based tools
 - spirometry











Background

- RESPIRE Group
- Four Country ChrOnic Respiratory Disease (4CCORD) study to estimate CRD burden in adults in LMICs
- Bangladesh, India, Malaysia and Pakistan
- Scoping review
- Aim: To identify strategies (definitions; questionnaires; study tools) used to conduct surveys for CRDs in LMICs.











Methods

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	Criterion	Inclusion criteria	Exclusion criteria
 Search strategy Chronic respiratory diseases 	Population	 General population Adults (typically ≥18 years) 	 People with known CRDs
 Prevalence LMICs	Disease definitions	 Asthma, COPD or 	 Acute respiratory
Arksey and O'Malley's ¹ six-step framework.		other CRD • 'chronic'	conditions
Databases: OVID Medline, EMBASE, ISI WoS, Global Health and WHO Global Index Medicus databases.		respiratory symptoms > three months or recurred in 'attacks'	
Limits: 1995 to 2018	Study design	 Population or community 	RCTsCase control
1. Arksey H, O'Malley L. Int Jof Soc Res Methodology. 2005 Feb 1;8(1):19-32		surveys	studiesSystematic reviews







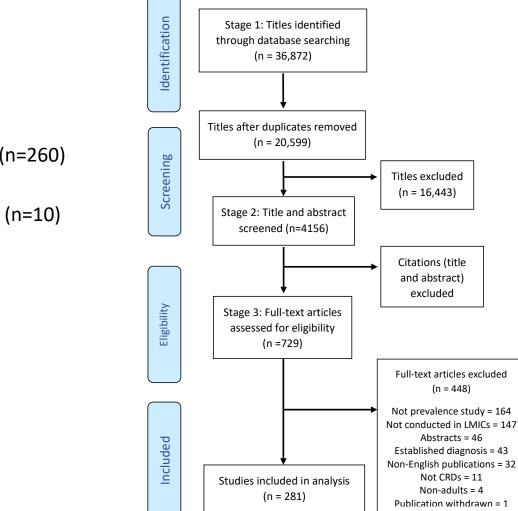


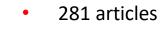




Results

Figure 1: Study selection process





 Study design: cross-sectional surveys (n=260) cohort studies (n=11) secondary data analysis (n=10)







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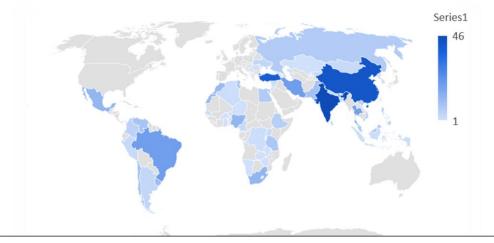


Diagramme 1: Distribution of CRD Prevalence Studies in LMICs

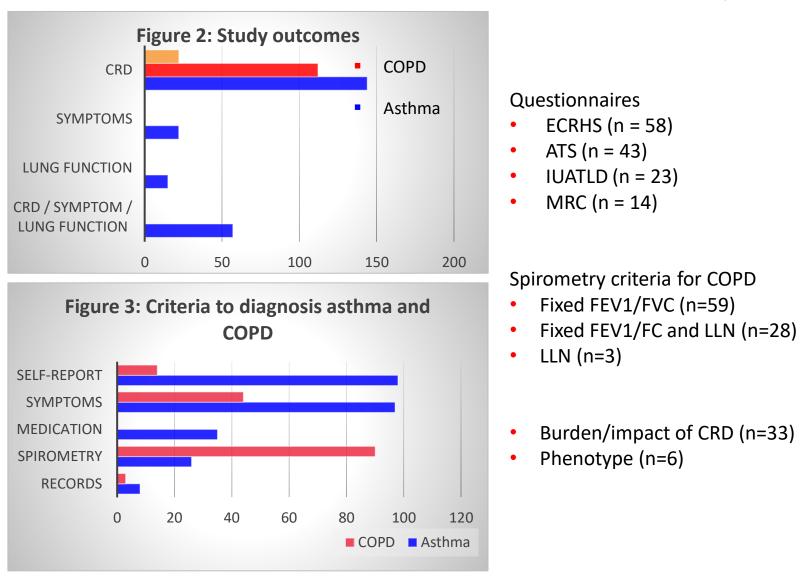
- 70 countries
- 132 from Asia; China, India and Turkey
- Respondents: 50 to 512,891
- Ten publications reported sample sizes of 100,000 or more.
- Survey settings
 - house-to-house or community surveys (n=178)
 - worksites (n=48)
 - health care facilities (n=20)
 - telephone (n=7)
 - postal surveys (n=3)











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Conclusion:

- There is substantial heterogeneity across the definitions, methodologies, instruments and types of outcomes in CRD prevalence studies
- The impact of CRD on individuals/society was rarely reported, highlighting a major gap in understanding the burden of CRD.

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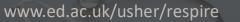






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Thank you!

Any questions?



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