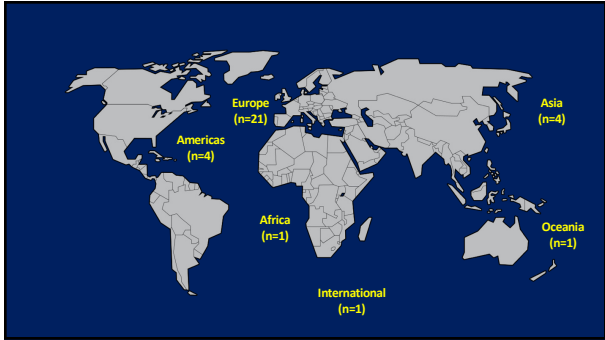
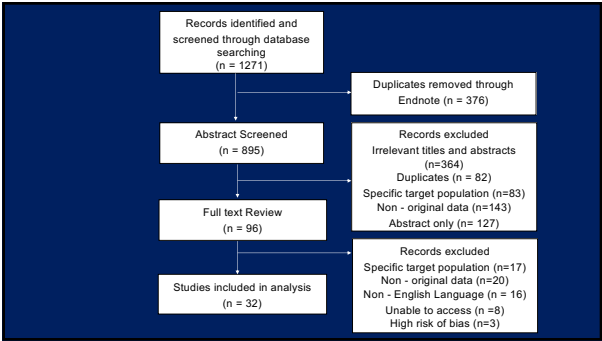


Methods

- Systematic review (1946-present), OVID and EMBASE
- Random effects meta-analysis
- Meta XL- Pooled Prevalence

<p style="text-align: center;"><u>Inclusion</u></p> <ul style="list-style-type: none"> • Original, primary data • English Language • Adult population • General population 	<p style="text-align: center;"><u>Exclusion</u></p> <ul style="list-style-type: none"> • Full- text inaccessible • Specific target populations
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Results

- 32 studies – 1966 - 2015
- 339,505 - 67% female
- Average age 37.6 – 79.93 years

Results

- 32 studies – 1966 - 2015
- 339,505 - 67% female
- Average age 37.6 – 79.93 years
- 19 questionnaires
 - 2 self - reported
 - 17 administered
 - 3 no clinical assessment
- 6 DUS evaluations
- 4 electronic medical records
 - ICD 10 codes

Prevalence and Incidence

- C0 – 9%
- C1 – 26%
- C2 – 19%
- C3 – 8%
- C4 – 5%
- C5 – 1%
- C6 – 0.42%

Prevalence and Incidence

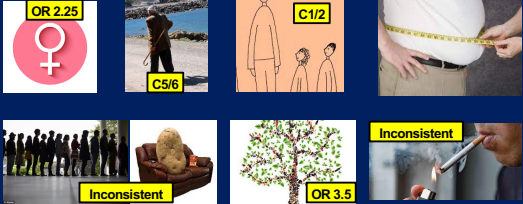
- C0 – 9%
- C1 – 26%
- **C2 – 19%**
- C3 – 8%
- C4 – 5%
- C5 – 1%
- C6 – 0.42%



- Europe – 21%
- Asia (Middle and Far East) 17%
- Africa – 5.5%
- North America – 23%
- South America – 22%
- Pacific Islands – 19%

- Incidence C2 0.22 – 2.3%
- Incidence C5/6
 - 0.018 – 0.122%
 - 0.3 – 1.2% older adults


Factors associated with CVD



- OR 2.25
- C5/6
- C1/2
- Inconsistent
- OR 3.5
- Inconsistent


Progression

- 31.9% at mean follow up of 13.4 years
- Average time for venous stasis to progress to VLU – 5 y
- Varicose veins with truncal incompetence progressed more rapidly than other veins (22% over 6y)



Limitations

- Female gender – detection bias
- European vs other studies – inclusion bias (language)
- C2 only comparison available across geographical regions
- Questionnaire data with no clinical assessment
- Insufficient data on progression in most studies



Conclusion

- CVD affects a considerable proportion of the global population
- Estimates are heterogeneous due to differential study design
- Important to characterize the global burden of CVD to optimize service provision and permit workforce planning

Imperial College London

Thank you



