

Thrombocytosis: an early marker of cancer in primary care?

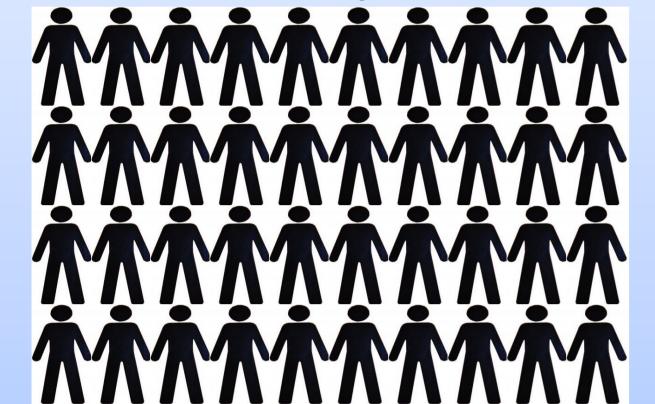
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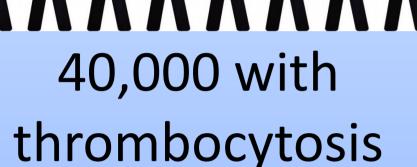
What was the aim of this project?

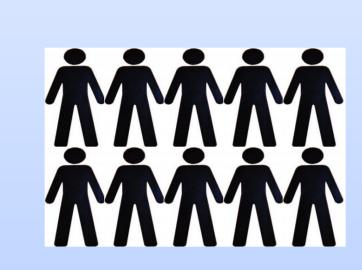
• This project aimed to investigate if thrombocytosis is an early marker of cancer, in patients in primary care (attending their GP surgery). What is thrombocytosis?
Raised platelet count, in the blood.
Normal platelet count: 150-400x10⁹/L.
Thrombocytosis: platelet count over 400x10⁹/L.

How did we investigate that?

We used anonymous electronic GP records from the CPRD (Clinical Practice Research Datalink), for two patient groups:







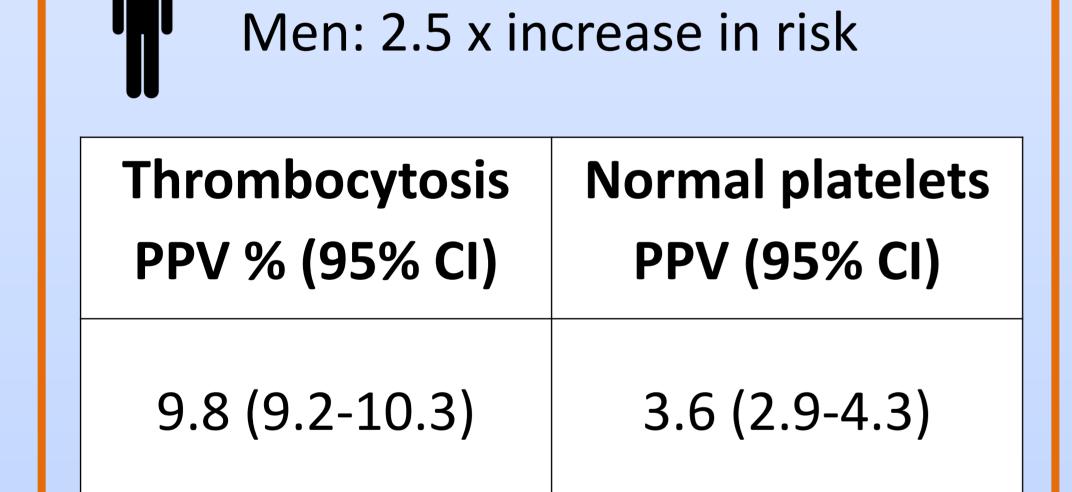
10,000 with normal platelet counts

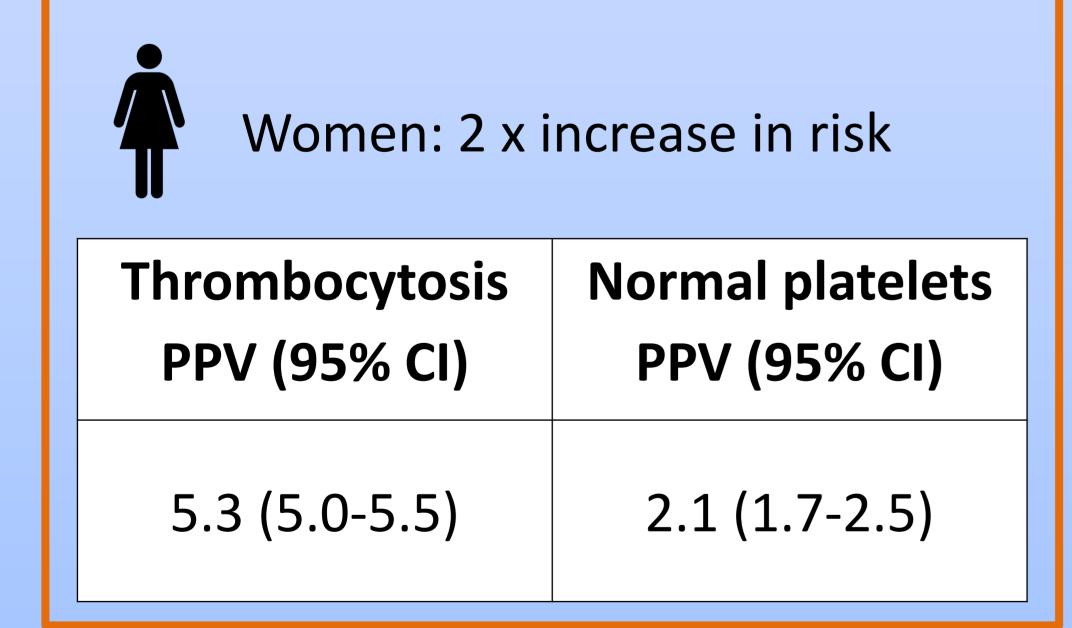
We followed them up for two years from the date of their blood test showing thrombocytosis...

Cancer?

... and compared cancer outcomes in the two groups

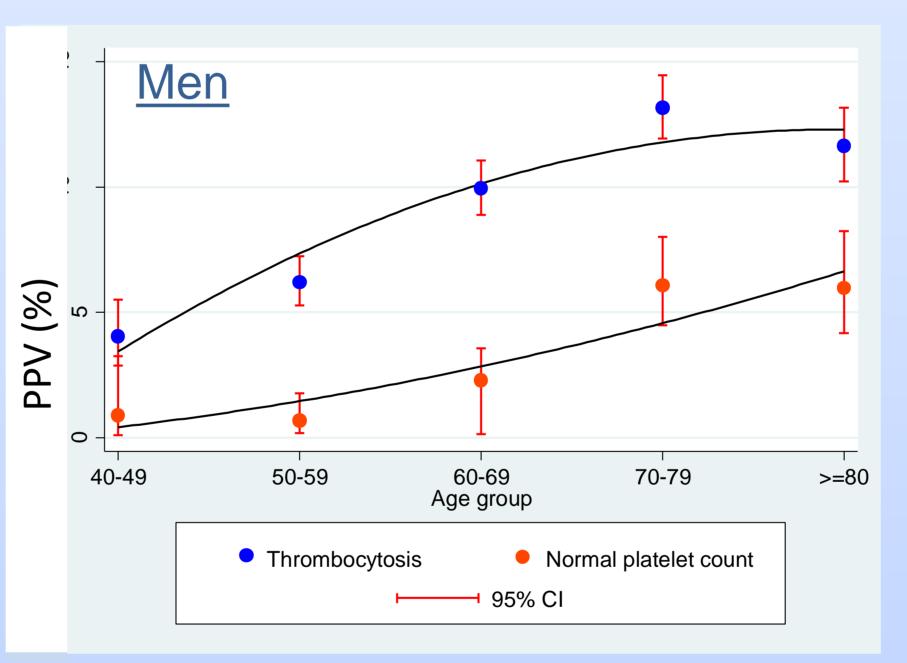
Patients with thrombocytosis had an increased risk of harbouring cancer, compared to those with normal platelet counts.

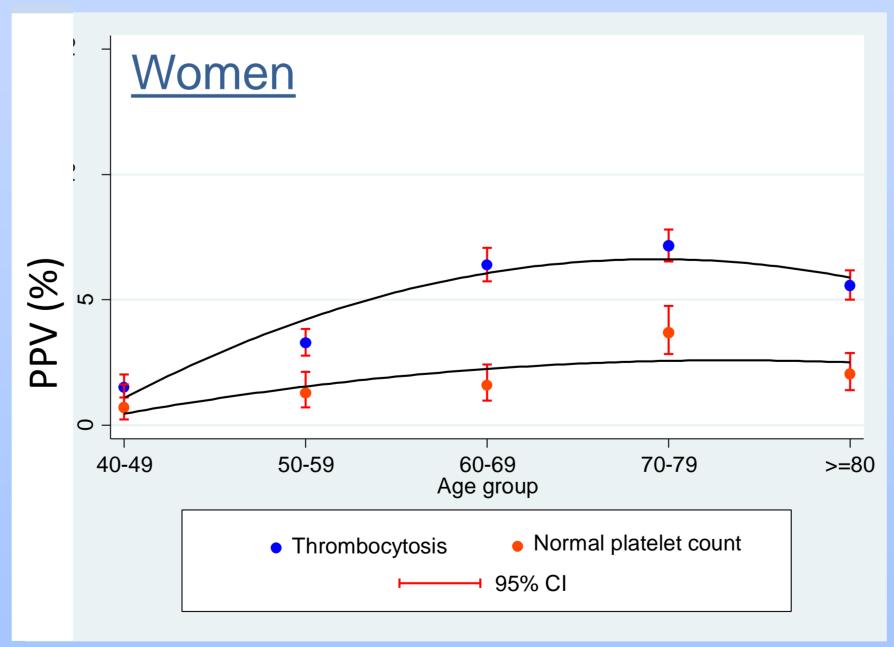




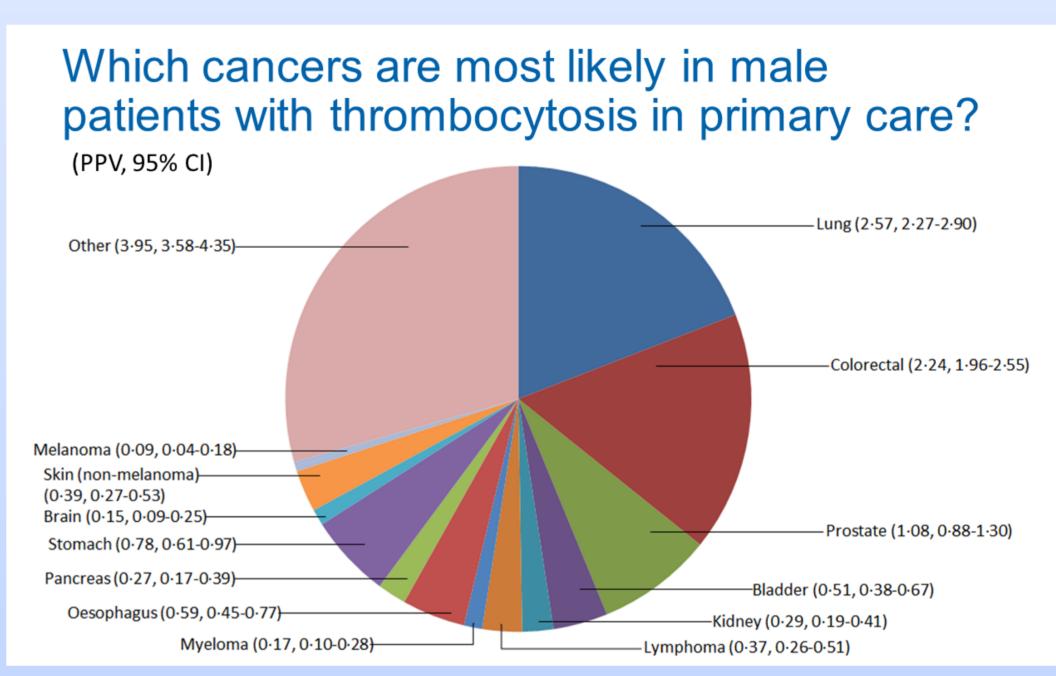
What did we find out?

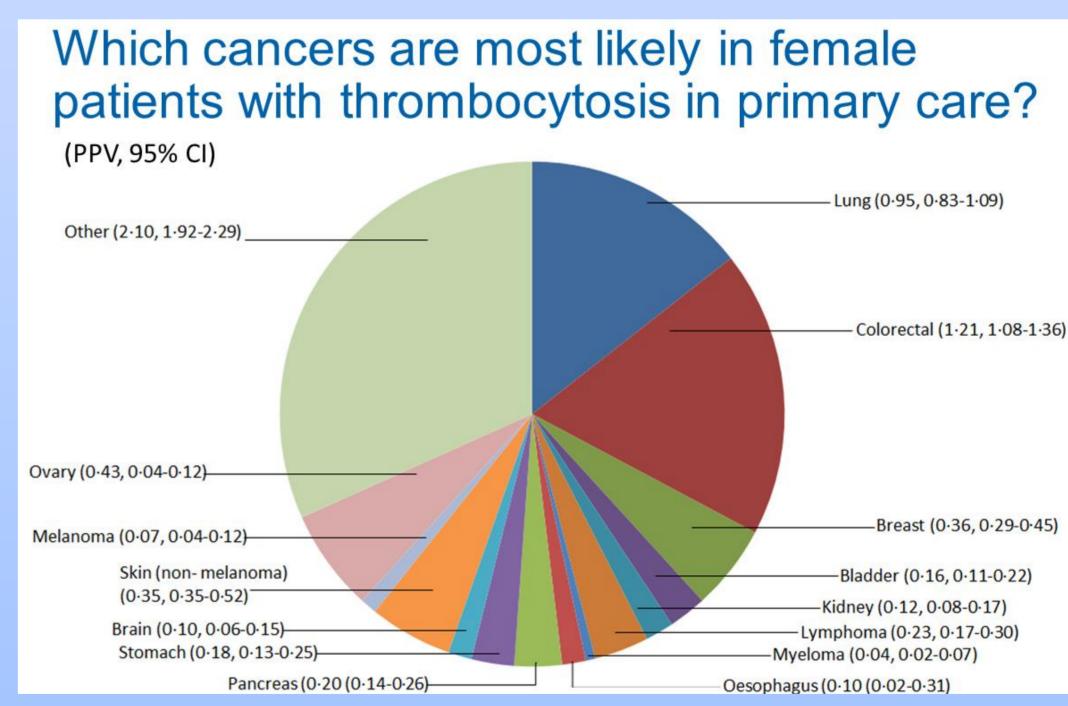
The risk of cancer increases with age, with the greatest difference between those aged 60-69.





Some cancer sites have a stronger association with thrombocytosis than others...





What next?

- Further analysis to see how consistently raised platelets affects cancer risk.
- Raise awareness of this marker amongst GPs though dissemination and publication.
- There is the potential to develop an alert system to 'flag up' patients with blood test results showing thrombocytosis, and therefore increased cancer risk, to GPs.

The Policy Research Unit in Cancer Awareness, Screening and Early Diagnosis receives funding for a research programme from the Department of Health Policy Research Programme. It is collaboration between researchers from seven institutions (Queen Mary University of London, UCL, King's College London, London School of Hygiene and Tropical Medicine, Hull York Medical School, Durham University and University of Exeter).

