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n=911 GP practices randomised (within 99 geographical areas)

Areas excluded because of zero cell within cluster:
- Not approached, recruiting centre closed: 1 area: 5
- No consented intervention arm practices: 2 areas: 9
- No consented control arm practices: 3 areas: 12

Practices randomised to intervention group n= 440 (93 areas)
Practices excluded: 42
- Involved in other prostate cancer study: 10
- Ceased to exist: 6
- Consent but out of time: 13
- Atypical population/unable to produce list: 8
- Randomised in error: 5

Practices eligible for the intervention group n= 398 (93 areas)
Refused: 127
- Explicit refusal: 42
- Implicit refusal: 85

Practices participating in intervention group n= 271
Median list size 6,300 (IQR: 4,150, 9,107)
Men 50-69 years in intervention arm practices n= 197,938

Ineligible men excluded from intervention:
- Death pre-randomisation n=176
- Prostate cancer pre-randomisation n=1,433
- Failed to trace at NHS digital n=160
- No record of registration with NHS digital n=257

Men eligible in intervention group n= 195,912
Median list size 695 (IQR: 407, 968)

Men excluded from primary analysis:
- NHS digital type-2 opt outs n=2
- No consent for flagging n=198
- Event date on randomisation date n=8
- Did not wish to participate n=6311
- Date of birth missing n=7

Men analysed in intervention group n= 189,386
Median list size 663 (IQR: 385, 938)

Areas excluded because of zero cell within cluster:
- Not approached, recruiting centre closed: 1 area: 5
- No consented intervention arm practices: 2 areas: 9
- No consented control arm practices: 3 areas: 12

Practices randomised to control group n= 419 (93 areas)
Practices excluded: 32
- Involved in other prostate cancer study involving screening: 13
- Ceased to exist: 19

Practices eligible for the control group n= 387 (93 areas)
Refused: 85
- Explicit refusal: 40
- Implicit refusal: 45

Practices participating in control group n= 302
Median list size 6,300 (IQR: 3,793, 9,000)
Men 50-69 years in control arm practices n= 221,644

Ineligible men excluded from control:
- Death pre-randomisation n=286
- Prostate cancer pre-randomisation n=1,688
- Failed to trace at NHS digital n=95
- No record of registration with NHS digital n=127
- Refused n=3

Men eligible in control group n= 219,445
Median list size 626 (IQR: 376, 971)

Men excluded from primary analysis:
- NHS digital type-2 opt outs n=1
- Event on randomisation date n=5

Men analysed in control group n= 219,439
Median list size 626 (IQR: 376, 971)