Box A. Pilot survey administered online November and December 2015

Q1. Did you have confidence and trust in the GP you saw or spoke to at your last appointment? Response options: Yes, definitely, Yes, to some extent, No, not at all, Don't know / can't say

Q2. When using primary care have you ever felt concerned that your health might be worsened, or actually was made worse, because of a mistake or a problem that could have been prevented? Response options: Yes, No- *qo* to *Q10*, Do not understand the question- *qo* to *Q10*, Don't know /

can't remember- go to Q10

Q3. How long ago did the mistake or preventable problem happen?

Response options: Within the last 12 months, More than 12 months ago- *go to Q10*, Can't remember- *go to Q10*

Q4. In your opinion did this experience

<u>Response options:</u> Make your health worse, Not certain but it might have made your health worse, Could have made your health worse if you had not noticed the problem, Delayed your treatment but had no effect on your health, Not affect you, or your health, Other, please explain

Q5. Which primary care service were you using when the mistake or preventable problem occurred?

<u>Response options:</u> GP surgery, Out of hours care, Walk in clinic, Dental, Pharmacy, Community or district nursing, Ambulance, Opticians, Other- please specify

Q6. Briefly describe the mistake or problem and how it happened

Response options: free text

Q7. Could the mistake or problem have been avoided? If so how?

Response options: free text

Q8. Were you able to talk about the mistake or problem with anybody working in the primary care service?

<u>Response options:</u> Yes, Yes had the opportunity but did not feel comfortable to discuss the mistake or problem, No I could not find anybody with whom I could discuss the mistake or problem, No I was not concerned about the problem, No I did not notice the mistake or problem at the time, I was too distressed to discuss the mistake or problem, Other or don't know - please describe

Q9. If you discussed the mistake or problem with somebody working in primary care please describe their job or role

Response options: free text

Q10. In the list below are some examples of preventable problems that might happen when using primary care. Has anything similar happened to you in the last 12 months? Please check as many as applicable or "NONE OF BELOW"

NONE OF BELOW

Wrong or late diagnosis

Not referred for further investigation when needed

Test results being lost or mixed up

Receiving the wrong medicine or wrong dose

Should not be prescribed the medicine because of another health problem

Should not be prescribed the medicine because of another medication already taking

Poor communication leading to misunderstanding of diagnosis or treatment

Not referred to a specialist when needed

Unclear instructions about treatment

Not offering of prevention or screening programmes eg CVD/stroke prevention clinics

Failure to recognise or act on vulnerable people's needs eg child abuse, suicide risk or mental health problems

Mistake with a procedure eg dental treatment, injection, ear syringing, physiotherapy

Failure to notify about recommended vaccinations eg flu, HPV

Poor hygiene

Unsafe building or premises

Any other preventable problem in the last 12 months (in your opinion)

Other, please explain below

Q11. Are you male or female? Response options: Male, Female, prefer not to say

Q12. How old are you?

Response options: under 16, 16 to 24, 25 to 34, 45 to 54, 55 to 64, 65 to 74, 75 to 84, 85 or older

Q13. When was your last contact with primary care?

Response options: Last week, Last month, Last 12 months, Over 12 months ago

Q14. What best describes your usual pattern of use of primary care? Response options: Once per week, Once per 2 weeks, Once per month, Once per 6 months, Once per 12 months or less often

Q15. Are you registered with a GP practice?

Response options: Yes, No, I only use walk in centres, Don't know

Q16. Do you work or volunteer in healthcare or healthcare research as a professional, patient, carer or member of the public? (if you are retired answer for your occupation before retirement)

Response options: Yes, No

Q17. We are still trying to improve this questionnaire so would be grateful for any feedback about how easy you found the questionnaire to complete? How can it be improved?

Response options: free text

Box B. List of public and patient involvement groups used to distribute the pilot survey

Associate Research User Group of the Greater Manchester Primary Care Patient Safety Translational Research Centre http://research.bmh.manchester.ac.uk/primary-care-patient-safety/GetInvolved/

The Primary Care Research in Manchester Engagement Resource http://research.bmh.manchester.ac.uk/PRIMER/about/

HelpBeatDiabetes https://www.researchforthefuture.org/diabetes/

The Nowgen Centre https://research.cmft.nhs.uk/getting-involved/involvement

The Citizen Scientist project http://www.citizenscientist.org.uk/

North West People in Research Forum https://www.northwestpeopleinresearchforum.org/

Table A. Coding of patient-reported potentially-unsafe scenarios in primary care

1. Errors in the process of the healthcare delivery system	n
Makeham 2002, Dovey 2002	Common threads reported in this study
1.1. Errors in the process of conducting an	A1. Administrative problem not otherwise
administrative task	specified
1.1.1. Information filed in wrong place or wrong time	
1.1.2. Unavailability of information that should have	A2. Incorrect notes/inadequate notes/notes
been in patients charts	not kept up to date
1.1.2.1. Entire chart or part of chart could not be	
accessed when needed	
1.1.2.2. Care provided was not documented	
1.1.2.3. Item(s) of information missing from chart	
1.1.3. Errors in patient's movement through the	A3. Intended referral was not sent or delayed
healthcare delivery system	A4. Patient not reminded, informed or
	assisted to attend regular check-ups or other
	necessary routine treatments
1.1.4. Errors in the taking and distributing of messages	
1.1.5. Errors in managing appointments for healthcare	A5. Unable to get an appointment/other
	problems with making appointment
	A6. Ambulance delayed or did not arrive
1.2. Errors in the process of investigating a patient's cor	idition
1.2.1. Laboratory errors	
1.2.1.1. Wrong test ordered or test not ordered	
when appropriate	
1.2.1.2. Errors in the process of obtaining or	
processing a laboratory specimen	B1. Test results lost or other problem with
1.2.1.3. Error in the process of physician receiving accurate laboratory results in a timely fashion	investigation paperwork
1.2.1.4. Inappropriate response to an abnormal	B2. Incorrect interpretation of tests or other
laboratory result	investigation results
1.2.3. Errors in the processes of other investigations	B3. Clinician did not consider patient history
1.2.3.1. Wrong test ordered or test not ordered	sufficiently/did not use patient's notes
when appropriate	adequately
1.2.3.2. Errors in the process of obtaining or	B4. Investigation not thorough enough
processing of other diagnostic investigation	B5. Not referred when patient felt was
1.2.3.3. Error in the process of physician receiving	needed
accurate test results of other investigation in a timely	
fashion	
1.2.3.4. Inappropriate response to an abnormal	
result of other investigation	
1.3. Errors in the process of treating a patient's condition	n
1.3.1. Errors in the process of treating with medications	
1.3.1.1. Wrong medication or wrong dose of	
medication ordered or medication not ordered by	C1. Medication problem
physician when appropriate	
1.3.1.2. Error in the process of delivering a	C2. Not provided with medical devices
medication order or inappropriate medication order	needed to manage long term conditions
by a provider working under physician supervision	
1.3.1.3. Error in the process of dispensing medication	
as ordered	

1.3.2. Errors in other treatments	C3. Problem with dental treatment or	
	diagnosis	
1.4. Errors in the process of communication		
1.4.1. Errors in communication between primary	D1. Clinician seemed to lack interest in the	
healthcare provider and patients	patient's health problem or did not listen	
	carefully enough	
	D2. Information about the patient's health	
	had not been passed on to the patient who	
	felt it should have been	
	D3. Communication problem between patient	
	and primary care staff	
1.4.2. Errors in communication between healthcare	D4. Problem with communication between	
providers	primary care and other types of care including	
	secondary care	
	D5. Disagreement between 2 clinicians	
2. Errors arising from lack of clinical knowledge or skills		
2.1. Errors in the execution of a clinical task	E1. Administrative staff seemed to make	
2.1.1. Non-clinical staff made the wrong clinical	clinical decisions	
decision	E2. Procedure was not carried out correctly	
2.1.2. Failed to follow standard practice	E3. Incorrect advice/no advice given by	
2.1.3. Lacked needed experience or expertise in a	clinician	
clinical task		
2.2. Errors in diagnosis	F1. Wrong/late/missed/delayed diagnosis	
2.2.1. Wrong or delayed diagnosis		
2.3. Wrong treatment decision	G1. Wrong treatment decision	
	H. Other	
	X. Not a problem/ insufficient	
	information/refused/don't know	

Table B. Level 4 coding of patient-reported potentially-unsafe medication scenarios

Common threads reported in this study grouped as described by Makeham 2002, Dovey 2002		
C1 Medication error not otherwise specified /other problem		
• 1.3.1.1. Ordering medications (prescribing)		
C1.1.1 Prescribed wrong or inappropriate drug		
C1.1.2 Started new prescription or changed prescription without sufficient discussion, follow up or		
checks		
C1.1.3 Long term or continued prescribing without review or consideration of long term or side effects		
C1.1.4 Prescribed drug when should have known contra-indicated e.g. patient had informed clinician of		
allergy, adverse reaction or it was in the records		
C1.1.5 Repeat prescription unintentionally changed		
C1.1.6 Out of date repeat prescription mistakenly re-issued		
• 1.3.1.2./1.3.1.3. Implementing or receiving medications (dispensing or issuing)		
C1.2.1 Medication not dispensed or administered as intended or prescribed		
• 1.3.1.1/1.3.1.2./1.3.1.3. Ordering, implementing or receiving medications		
C1.3.1 Wrong dose or drug or delivery method		
C1.3.2 Being given another patient's drugs or prescription		
C1.3.3 Wrong or inadequate advice about drug effects or how to use		
C1.3.4 Delay or failure in prescription processing		

Table C. Demographics of clinicians and members of the public reviewing the patient-reported problems and estimating the likelihood the scenarios describes a potentially-harmful preventableproblem occurring in primary care

Demographics of GP and dentist coders	frequency n=6	
Gender		
Female	3	
Male	3	
Years working as a GP or dentist		
Less than 15 years	1	
15 to 25 years	2	
Over 25 years	3	
Current position		
Partner	4	
Retired within last 12 months	2	
Demographics of the members of the public	frequency n=7	
Gender	maquency in y	
Female	6	
Male	1	
Age		
30 to 39 years	2	
40 to 49 years	1	
50 to 59 years	2	
60 to 69 years	2	
Ethnicity		
White British	5	
British Indian	2	
Years of PPI experience		
None	2	
Less than 1 year	1	
1 to 5 years	2	
Over 5 years	2	
Further background information		

PPI reviewer 1. Currently working freelance on education and PPI projects; previously worked in a pastoral role at a college; a lay representative for courses training healthcare scientists.

PPI reviewer 2. Retired primary school teacher with several long term health conditions; single parent; was a young carer for a parent with a long term condition.

PPI reviewer 3. Former higher education administrator; current university tutor; patient partner on varied research projects; carer for family members aged 0-100 with physical and/or mental health long term conditions.

PPI reviewer 4. Currently working as a civil servant and has several long term health conditions.

PPI reviewer 5. Full-time parent of school age children; previously ten years working in a medical school in an administrative role and 5 years working in the drug and alcohol sector

PPI reviewer 6. Lay representative for several healthcare-related professional bodies and involved in health research at several universities; family-carer for over 35 years; has had over 6 years of involvement with a mental and community health as a carer

PPI reviewer 7. Retired university administrator; a parent and carer for elderly parents.

Table D. Scoring for likelihood that the patient-reported scenario is potentially-harmful preventable-problem

Score	How likely do you think it is the patient was correct in thinking that their health might be worsened,
	or actually was made worse, because of a mistake or a problem in primary care that could have
	been prevented? Choose from the options below.
5	Very likely or certain (75-100% confident is a potentially-harmful preventable-problem)
4	Probably (50-74% confident is a potentially-harmful preventable-problem)
3	Possibly (25-49% confident is a potentially-harmful preventable-problem)
2	Unlikely (bottom 25% confident is a potentially-harmful preventable-problem)
1	Definitely not a potentially unsafe event (0% chance is a potentially-harmful preventable-problem)
-	Insufficient information
-	Don't know
-	Other - add text at end of row

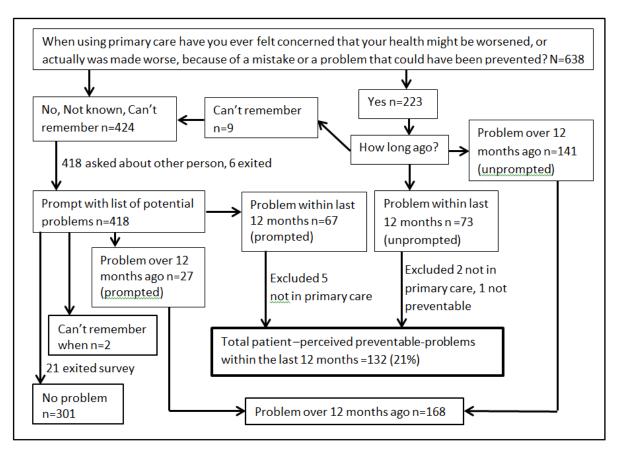


Figure A. Flow chart of participants who reported a potentially-unsafe preventable-problem in primary care through the online pilot survey

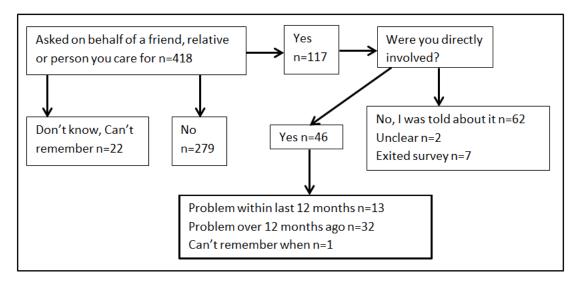


Figure B. Flow chart of participants who reported a potentially-unsafe preventable-problem in primary care on behalf of another person through the online pilot survey

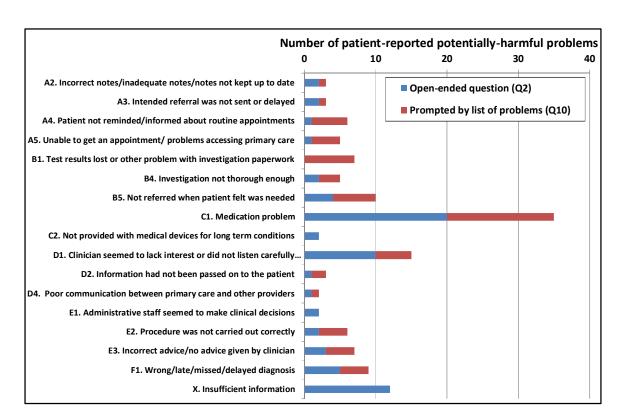


Fig C. Numbers of patient-perceived problems occurring in the last 12 months categorised according to the patient's description (see Table 2) and route through survey *i.e.* originated from open-ended question (Q2) or prompted by list of potential safety problems (Q10)

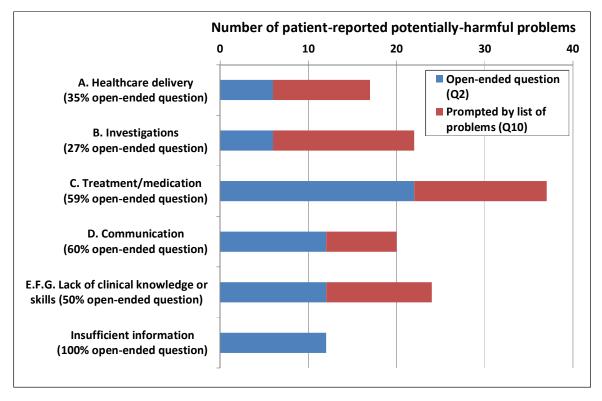


Fig D. Numbers of patient-perceived problems occurring in the last 12 months categorised according to the patient's description coded at a higher level (see Table 2) and route through survey *i.e.* originated from open-ended question (Q2) or prompted by list of potential safety problems (Q10)