

Participant Information Sheet

Developing and testing a Clinical Decision Support application to prompt blood-borne virus testing, Part 1

PURPOSE OF THE STUDY

The aim of the project is to investigate what type of electronic patient record (EPR) alert, indicating that a patient attending a GP surgery is at higher risk of blood-borne virus (BBV) infection, is most effective in prompting clinicians to order BBV tests. The 3 BBVs are HIV, hepatitis B and hepatitis C. Significant proportions of patients with these infections are undiagnosed and present late with higher morbidity and mortality. BBV_TP1 is a software application designed to identify patients at higher risk of BBV infections who have not been tested for BBVs.

WHAT DO I NEED TO DO?

You will be asked to fill in an online survey in SurveyMonkey. This will take between 15-20 minutes and will provide 10 short patient scenarios after which you will be asked whether you would test the patient for BBVs. You will also be asked to answer a few further questions on BBV testing.

ARE THERE ANY RISKS IN PARTICIPATING?

It is expected that participating in this project will not cause any significant stress or emotional discomfort. This project and questionnaire have been reviewed by the Teesside University ethics committee.

CONFIDENTIALITY

Participation will be anonymous. You will not be asked to record your name for the purpose of the study; however, we will ask for information on your age, gender, profession and place of work

FREEDOM TO REFUSE OR WITHDRAW

Participation in all aspects of this project is entirely voluntary. You may withdraw from the study at any point whilst or after completing the questionnaires, and you can withdraw the information you provide within four weeks after taking part. If you wish to withdraw from the study, please contact either of the lead researchers (Professor Paul van Schaik or Dr David Chadwick).

WHO DO I CONTACT IF I HAVE ANY QUESTIONS?

If you have any questions relating to the project, please contact either of the

lead researchers for this project:

Professor Paul van Schaik, Professor of Psychology, School of Social Sciences, Business and Law, Teesside University. P.Van-Schaik@tees.ac.uk

Dr David Chadwick, Consultant in Infectious Diseases, The James Cook University Hospital, Middlesbrough TS4 3BW. Davidr.chadwick@nhs.net.

Personal data including special category data obtained for the purposes of this research project is processed lawfully in the necessary performance of scientific or historical research or for statistical purposes carried out in the public interest. Processing of personal data including special category data is proportionate to the aims pursued, respects the essence of data protection and provides suitable and specific measures to safeguard the rights and interests of the data subject in full compliance with the General Data Protection Regulation and the Data Protection Act 2018.



Improving blood-borne virus (BBV) testing in primary care

Consent to the Survey

Developing and testing a Clinical Decision Support application to prompt blood-borne virus testing, Part 1

- 1. I have read and understood the 'Information Page' for this study.
- 2. The nature and possible effects of the study have been explained to me.
- 3. I understand that the study involves the following procedures: Completion of survey on BBV testing.
- 4. I understand that my participation is entirely voluntary and that I can withdraw from the study at any time, without prejudice.
- 5. I understand that all research data will be securely stored on Teesside University premises for a period of 2 years and then destroyed.
- 6. Any questions that I have asked have been answered to my satisfaction.
- 7. I agree that research data gathered for the study may be published provided that I cannot be identified as a participant.
- 8. I understand that my identity will be kept confidential and that any information I supply to the researcher(s) will be used only for the purposes of the research.
- 9. I agree to participate in this investigation and understand that I may withdraw my information within four weeks after taking part. If you wish to withdraw from the study, please contact either of the lead researchers Professor Paul van Schaik (P.Van-Schaik@tees.ac.uk) or Dr David Chadwick (Davidr.chadwick@nhs.net)

, 5	to the above terms? By clicking Yes, you consent that you are willing to answer the the survey. You must click Yes in order to take the survey.
Yes	
O No	
NHS	Improving blood-borne virus (BBV) testing in primary care

- 1. Please answer the demographic questions on the next page
- 2. During the survey, where we are exploring different scenarios, please assume that all hypothetical patients that will be presented are patients from your practice
- 3. Please note an answer to all questions are mandatory and once answered you cannot return to a previous page
- 4. To enable you to view the images clearly, please set your magnification/zooming to 133% if using Firefox and 125% if using Chrome, Internet Explorer or Edge



Instructions for participants

Improving blood-borne virus (BBV) testing in primary care

Thank you for participating in our survey. Your feedback is important

Demographic Questions

Ger	nder	
	Male	
\bigcirc	Female	
	Other (please specify)	
Age		
Cur	rrent job role as a healthcare worker	

Number of years in current role	
	J
Total of number of years as a healthcare worker (current role and a	ny previous roles)
	-1
Name of General Practice	

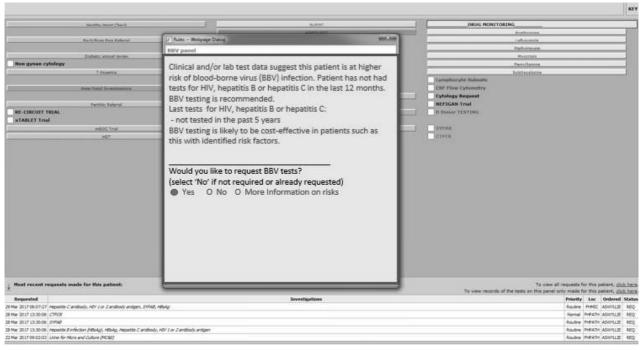
NHS

Improving blood-borne virus (BBV) testing in primary care

Patient 1

Steven is a 30 year old sales executive with a history of well-controlled asthma. He's come today for a review of his asthma and is generally fit and healthy.

The following alert appears on SystmOne. How would you respond to the alert?

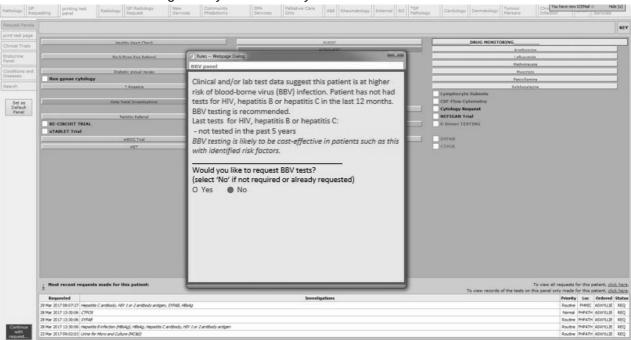


() Yes

O No

More Information on risks (this provides further information at the bottom of the alert)

Steven is a 30 year old sales executive with a history of well-controlled asthma. He's come today for a review of his asthma and is generally fit and healthy



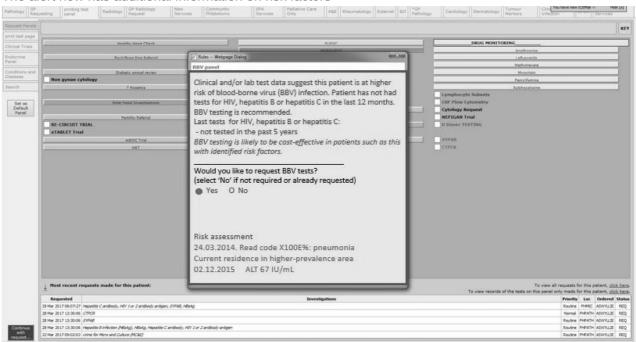
Give reasons for not requesting BBV tests

\bigcirc	Patient declined tests
	Patient has been tested for BBV's elsewhere
\bigcirc	Patient doesn't have capacity to consent for testing
	Identified risks are insufficient to justify testing
	Other (please specify)

NHS

Steven is a 30 year old sales executive with a history of well-controlled asthma. He's come today for a review of his asthma and is generally fit and healthy

The alert now has additional information on risk factors

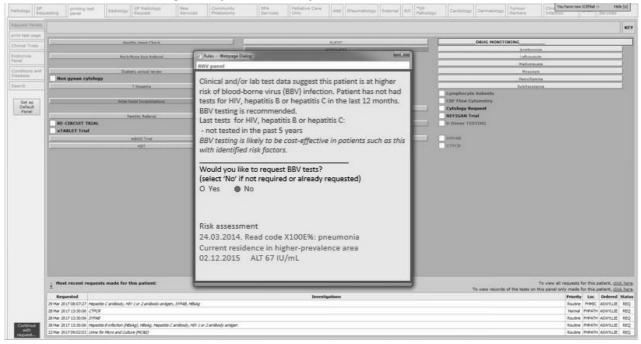


() Yes

O No



Steven is a 30 year old sales executive with a history of well-controlled asthma. He's come today for a review of his asthma and is generally fit and healthy



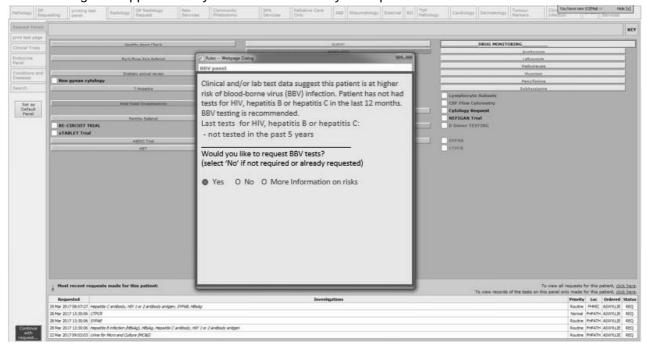
Give reasons for not requesting BBV tests

	Patient declined tests
\bigcirc	Patient has been tested for BBV's elsewhere
	Patient doesn't have capacity to consent for testing
\bigcirc	Identified risks are insufficient to justify testing
	Other (please specify)



Melanie is a 47 year old nurse, generally in good health, who has come today complaining of worsening migraines

The following alert appears on SystmOne. How would you respond to the alert?



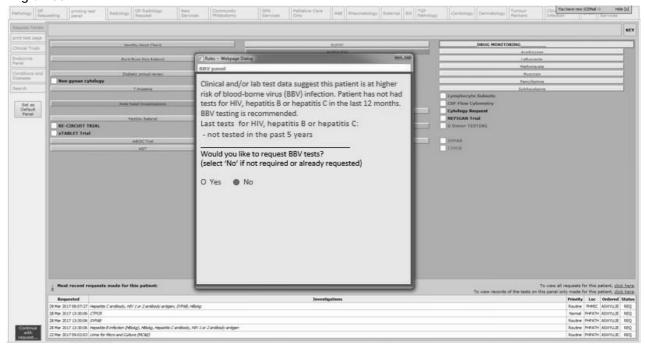
		Yes
1	- /	100

/	1	NI.
	- 1	Nα

More information on risks (this provides more information at the bottom of the alert)



Melanie is a 47 year old nurse, generally in good health, who has come today complaining of worsening migraines



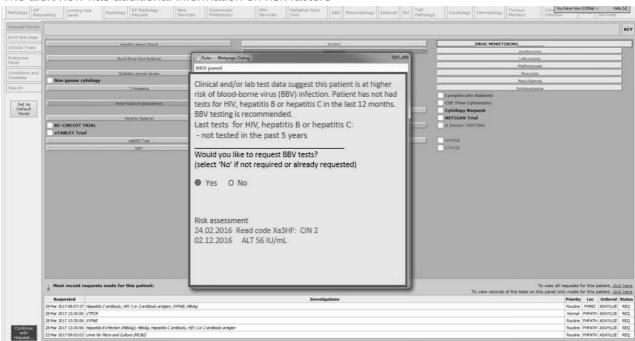
Give reasons for not requesting BBV tests

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\bigcirc	Patient has been tested for BBV's elsewhere
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\bigcirc	Identified risks are insufficient to justify testing
	Other (please specify)

NHS

Melanie is a 47 year old nurse, generally in good health, who has come today complaining of worsening migraines

The alert now has additional information on risk factors

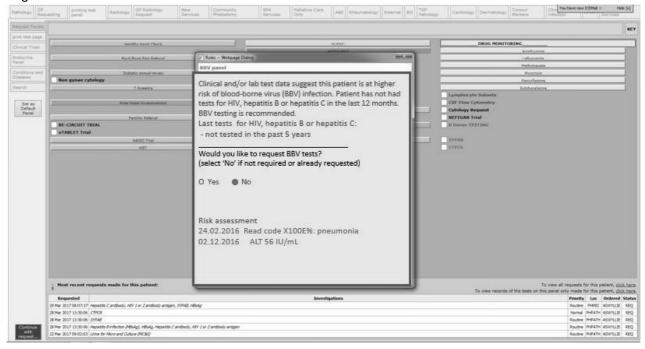


() Yes

O No



Melanie is a 47 year old nurse, generally in good health, who has come today complaining of worsening migraines



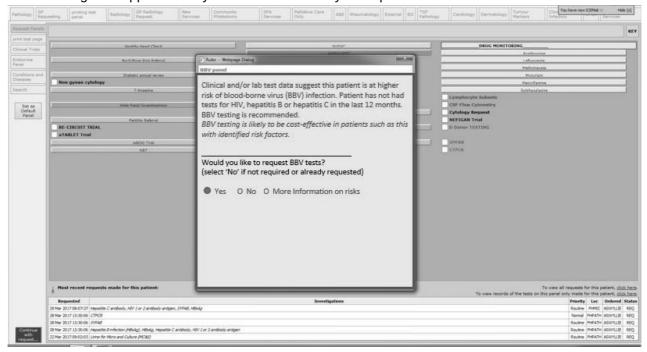
Give reasons for not requesting BBV tests

	Patient declined tests
\bigcirc	Patient has been tested for BBV's elsewhere
	Patient doesn't have capacity to consent for testing
	Identified risks are insufficient to justify testing
	Other (please specify)



George is a 74 year old retired factory worker with COPD and type 2 diabetes. He's come today as he has a cough and worsening shortness of breath

The following alert appears on SystmOne. How would you respond to the alert?



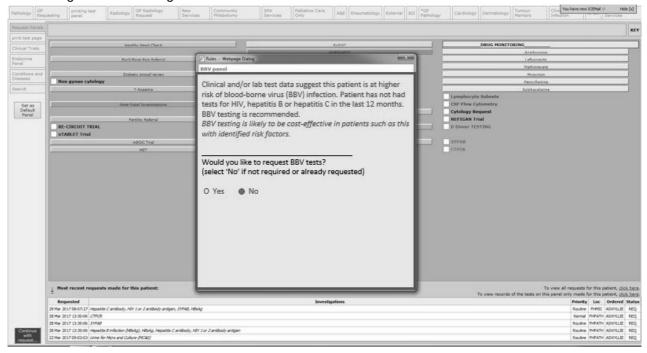
()	Yes

O No

More information on risks (this provides more information at the bottom of the alert)



George is a 74 year old retired factory worker with COPD and type 2 diabetes. He's come today as he has a cough and worsening shortness of breath

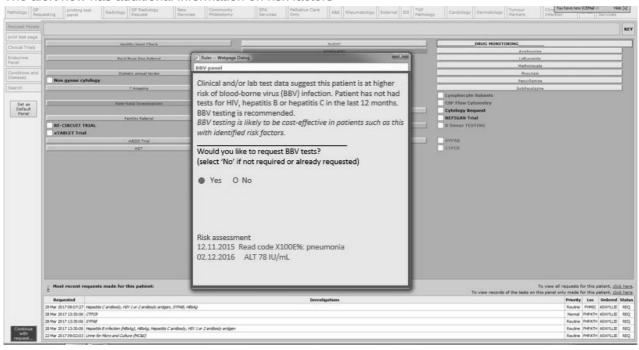


	Patient declined tests
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	Patient doesn't have capacity to consent for testing
	Identified risks are insufficient to justify testing
\bigcirc	Other (please specify)



George is a 74 year old retired factory worker with COPD and type 2 diabetes. He's come today as he has a cough and worsening shortness of breath

The alert now has additional information on risk factors



Yes

O No



George is a 74 year old retired factory worker with COPD and type 2 diabetes. He's come today as he has a cough and worsening shortness of breath



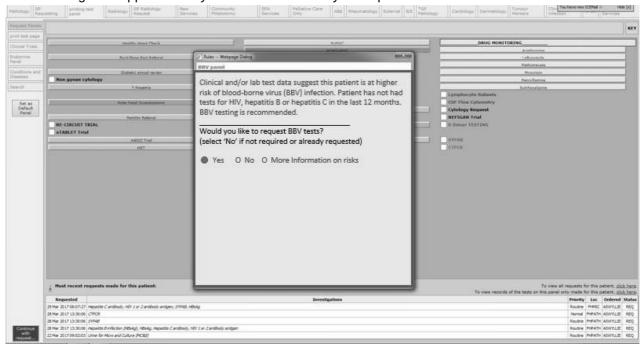
Give reasons for not requesting BBV tests

	Patient declined tests
\bigcirc	Patient has been tested for BBV's elsewhere
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	Identified risks are insufficient to justify testing
	Other (please specify)



Sandra is a 38 year old stay-at-home mum who suffers from IBS and menorrhagia. She's come today because of worsening menorrhagia

The following alert appears on SystmOne. How would you respond to the alert?



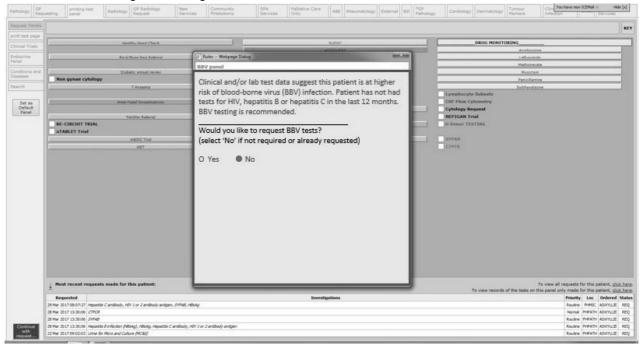
	Yes

O No

More information on risks (this provides more information at the bottom of the alert)



Sandra is a 38 year old stay-at-home mum who suffers from IBS and fibromyalgia. She's come today because of worsening menorrhagia



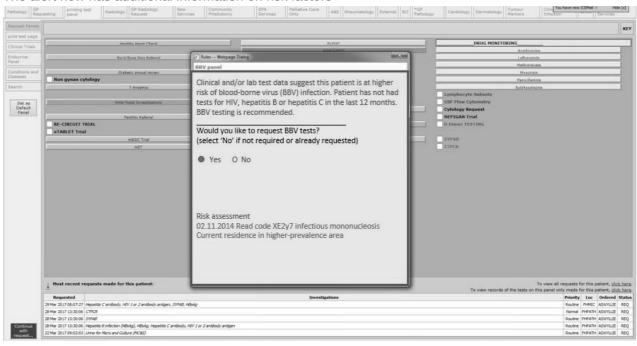
Give reasons for not requesting BBV tests

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\bigcirc	Patient doesn't have capacity to consent for testing
\bigcirc	Identified risks are insufficient to justify testing
\bigcirc	Other (please specify)



Sandra is a 38 year old stay-at-home mum who suffers from IBS and fibromyalgia. She's come today because of worsening menorrhagia

The alert now has additional information on risk factors

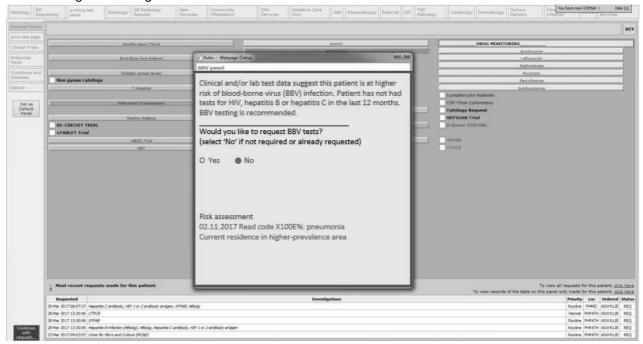


O Yes

O No



Sandra is a 38 year old stay-at-home mum who suffers from IBS and fibromyalgia. She's come because of worsening menorrhagia



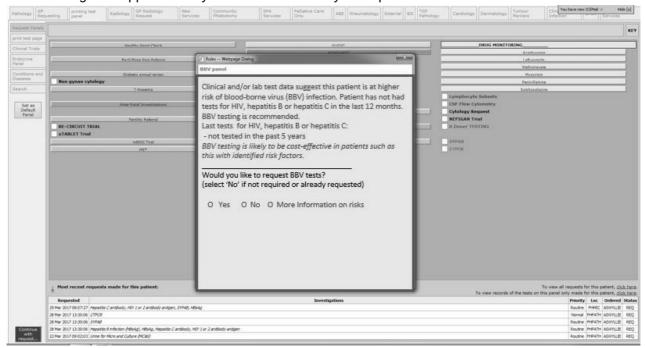
Give reasons for not requesting BBV tests

\bigcirc	Patient declined tests
	Patient has been tested for BBV's elsewhere
\bigcirc	Patient doesn't have capacity to consent for testing
	Identified risks are insufficient to justify testing
\bigcirc	Other (please specify)



Gerry is a 59 year old office worker with hypertension who has come today as he's not tolerating his new antihypertensive medications well

The following alert appears on SystmOne. How would you respond to the alert?



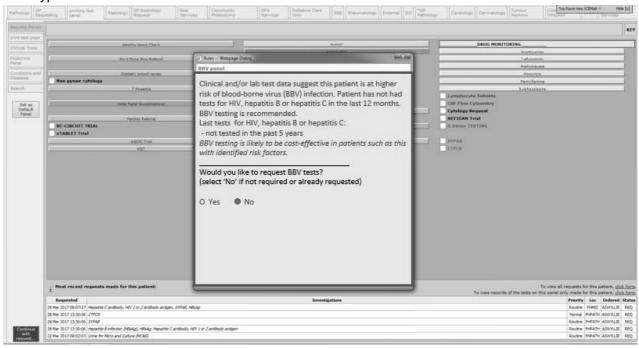
		Yes
()	163

O No

More information on risks (this provides more information at the bottom of the alert)



Gerry is a 59 year old office worker with hypertension who has come today as he's not tolerating his new hypertensive medications well



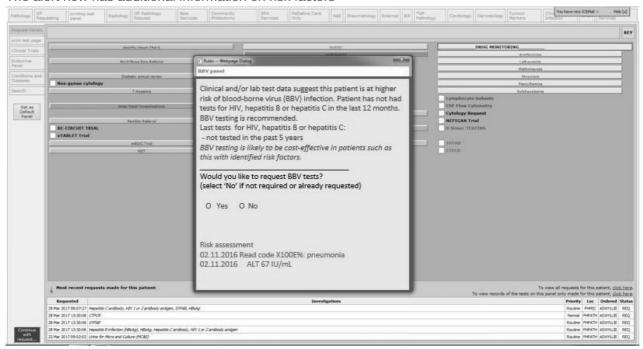
Give reasons for not requesting BBV tests

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\bigcirc	Identified risks are insufficient to justify testing
	Other (please specify)

NHS

Gerry is a 59 year old office worker with hypertension who has come today as he's not tolerating his new hypertensive medications well

The alert now has additional information on risk factors

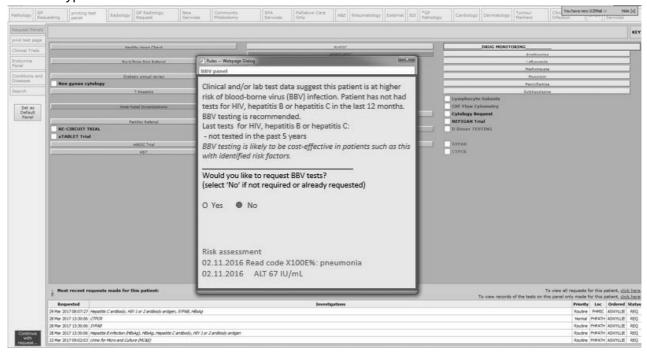


Yes

O No



Gerry is a 59 year old office worker with hypertension who has come today as he's not tolerating his new antihypertensive medications well



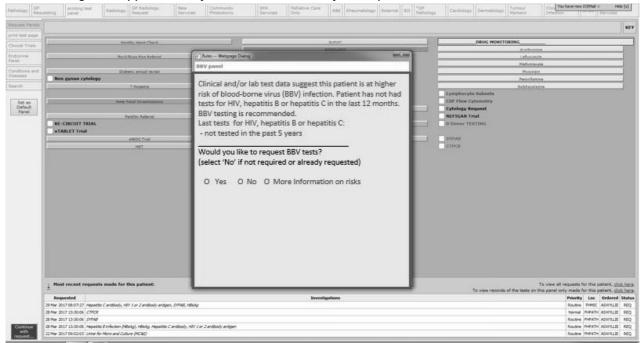
Give reasons for not requesting BBV tests

Patient declined tests
Patient has been tested for BBV's elsewhere
Patient doesn't have capacity to consent for testing
Identified risks are insufficient to justify testing
Other (please specify)



Audrey is a 72 year old woman who rarely visits her GP and has little significant past history. She's come today as she's feeling more depressed than normal

The following alert appears on SystmOne. How would you respond to the alert?



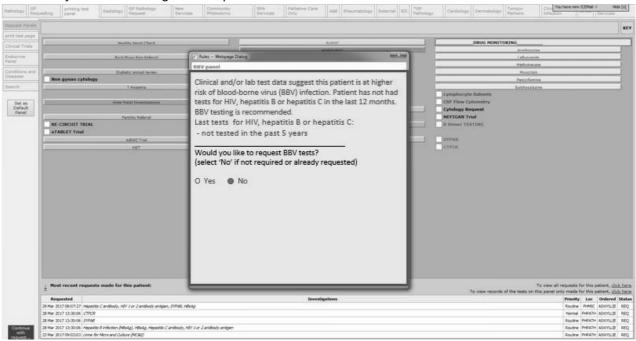
Yes

O No

More information on risks (this provides more information at the bottom of the alert)



Audrey is a 72 year old woman who rarely visits her GP and has little significant past history. She's come today as she's feeling more depressed than usual



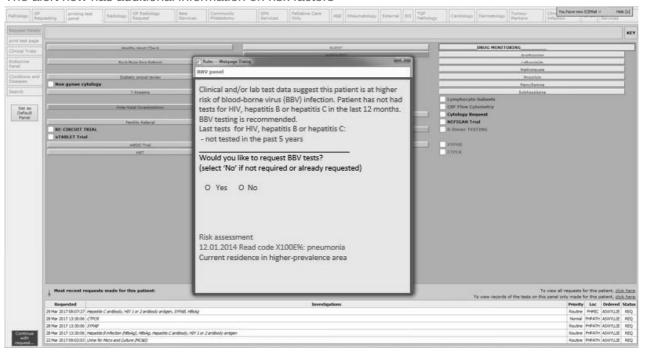
Give reasons for not requesting BBV tests

\bigcirc	Patient declined tests
	Patient has been tested for BBV's elsewhere
	Patient doesn't have capacity to consent for testing
	Identified risks are insufficient to justify testing
\bigcirc	Other (please specify)



Audrey is a 72 year old woman who rarely visits her GP and has little significant past history. She's come today as she's feeling more depressed than usual

The alert now has additional information on risk factors

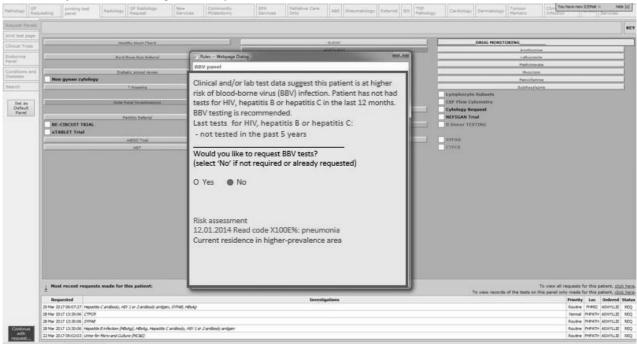


() Yes

○ No



Audrey is a 72 year old woman who rarely visits her GP and has little significant past history. She's come today as she's feeling more depressed than normal



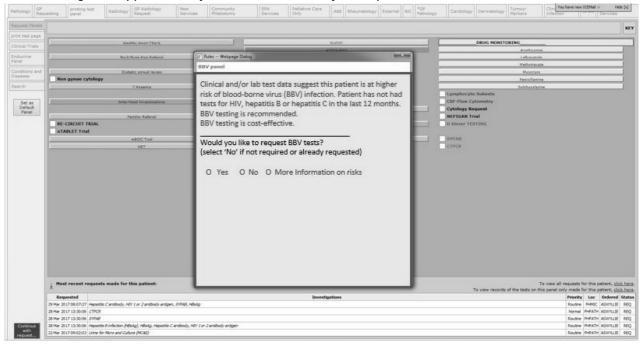
Give reasons for not requesting BBV tests

Patient declined tests	
Patient has been tested for BBV's elsewhere	
Patient doesn't have capacity to consent for testing	
Identified risks are insufficient to justify testing	
Other (please specify)	

NHS

Magda is a 33 year old woman originally from Poland who is a hotel receptionist and rarely attends the practice. She has come seeking contraceptive advice

The following alert appears on SystmOne. How would you respond to the alert?



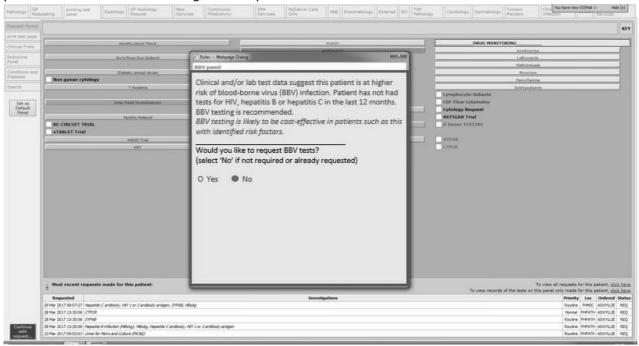
Yes

No

More information on risks (this provides more information at the bottom of the alert)



Magda is a 33 year old woman originally from Poland who is a hotel receptionist and rarely attends the practice. She has come seeking contraceptive advice



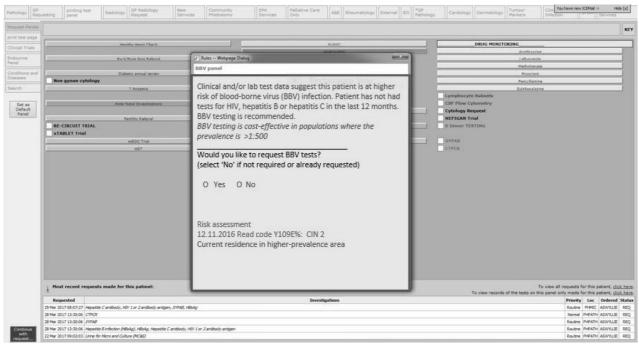
Give reasons for not requesting BBV tests

Patient declined tests
Patient has been tested for BBV's elsewhere
Patient doesn't have capacity to consent for testing
Identified risks are insufficient to justify testing
Other (please specify)

NHS

Magda is a 33 year old woman originally from Poland who is a hotel receptionist and rarely attends the practice. She has come seeking contraceptive advice

The alert now has additional information on risk factos

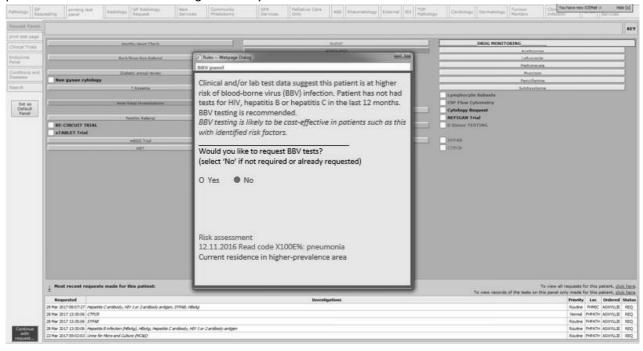


Yes

○ No



Magda is a 33 year old woman originally from Poland who is a hotel receptionist and rarely attends the practice. She has come seeking contraceptive advice



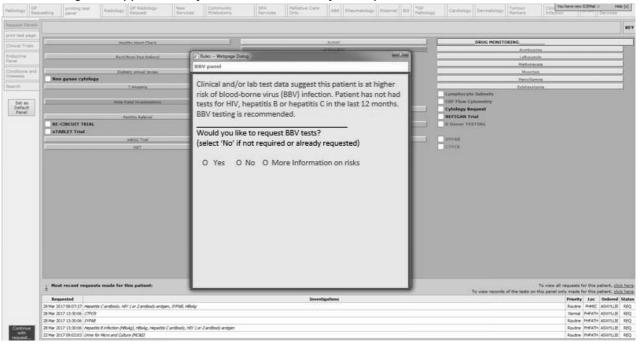
Give reasons for not requesting BBV tests

	Patient declined tests
\bigcirc	Patient has been tested for BBV's elsewhere
	Patient doesn't have capacity to consent for testing
\bigcirc	Identified risks are insufficient to justify testing
	Other (please specify)

NHS

Stuart is a 63 year old engineer with little significant past medical history. He has attended due to urinary frequency

The following alert appears on SystmOne. How would you respond to the alert?



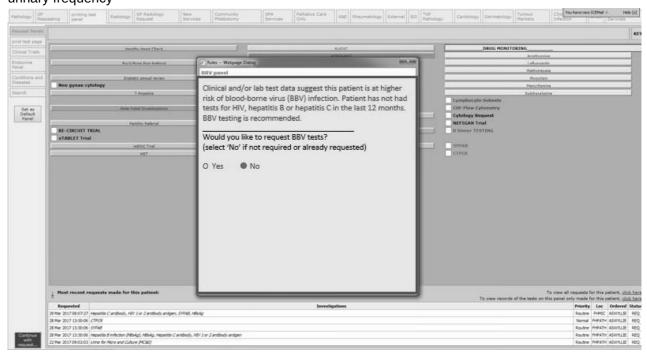
Yes

O No

More information on risks (this provides more information at the bottom of the alert)



Patient 8 Stuart is a 63 year old engineer with little significant past medical history. He has attended due to urinary frequency



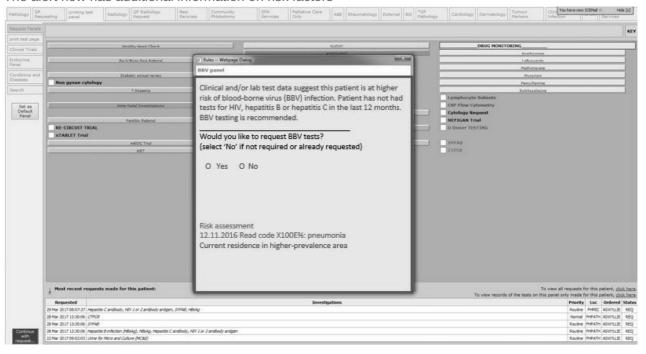
Give reasons for not requesting BBV tests

Patient declined tests
Patient has been tested for BBV's elsewhere
Patient doesn't have capacity to consent for testing
Identified risks are insuffient to justify testing
Other (please specify)



Stuart is a 63 year old engineer with little significant past medical history. He has attended due to urinary frequency

The alert now has additional information on risk factors

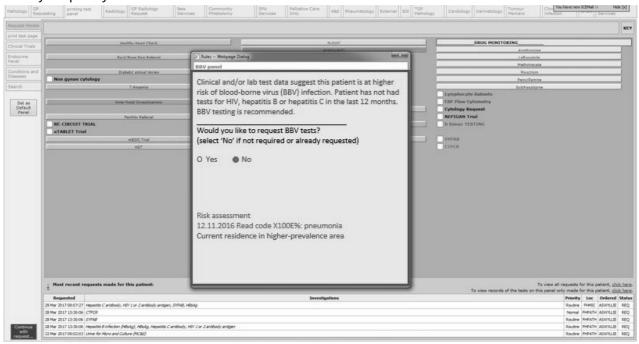


() Yes

No



Stuart is a 63 year old engineer with little significant past medical history. He has attended due to urinary frequency



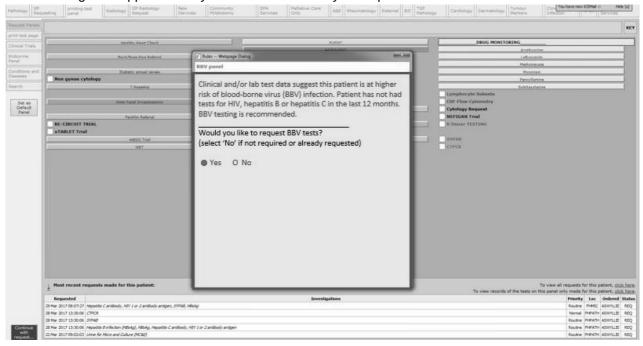
Give reasons for not requesting BBV tests

Patient declined tests
Patient has been tested for BBV's elsewhere
Patient doesn't have capacity to consent for testing
Identified risks are insufficient to justify testing
Other (please specify)



Hayley is a 19 year old college student with a history of asthma. She's come today as she's feeling tired all the time

The following alert appears on SystmOne. How would you respond to the alert?



() Yes

O No



Hayley is a 19 year old college student with a history of asthma. She's come today as she's feeling tired all the time

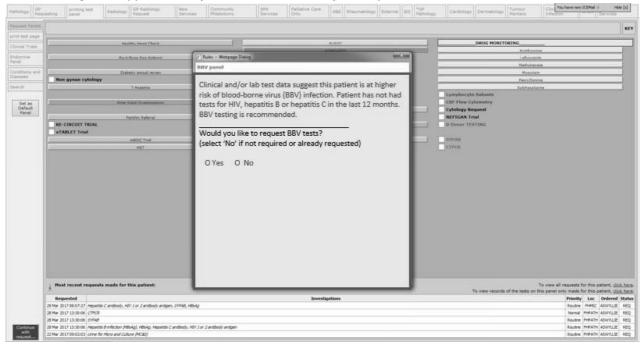


Give reasons for not requesting BBV tests

	Patient declined tests
\bigcirc	Patient has been tested for BBV's elsewhere
	Patient doesn't have capacity to consent for testing
\bigcirc	Identified risks are insufficient to justify testing
	Other (please specify)

NHS

John is a 44 year old HGV driver with type 2 diabetes. He's come today for his annual diabetes review The following alert appears on SystmOne. How would you respond to the alert?



Yes

O No



Patient 10

John is a 44 year old HGV driver with type 2 diabetes. He's come today for his annual diabetes review



Give reasons for not requesting BBV tests

Patient declined tests
Patient has been tested for BBV's elsewhere
Patient doesn't have capacity to consent for testing
Identified risks are insufficient to justify testing
Other (please specify)



Improving blood-borne virus (BBV) testing in primary care

Additional Questions

One question that has arisen is why this alert always recommends testing for all the BBVs. Another option to testing for all 3 BBVs is that there are several different alert recommendations. For example in a patient who only has risks for HIV, only an HIV test would be recommended, or in a patient who only has risks for viral hepatitis that only hepatitis B and C tests are recommended. Potential advantages of this system are reduced numbers of tests ordered and potentially less anxiety if HIV tests are not recommended. Disadvantages are that often patients have overlapping risks for all 3 viruses and only testing for one or two may mean missing some infections; also, this would make the system more complex with multiple different alert recommendations, with the potential for confusion amongst users.

Which alert recommend	dation would you pre	efer?		
Single test (for all BBV'	s)			
Multiple tests (i.e. seve	ral different alerts with dif	fferent combinations of tes	sts recommended)	
Do you have any comn	nents or suggestions	in relation to this iss	ue?	
Another consideration	or this system is the	notential for the aler	t to add significant	time pressure to
consultations, given the	-	•	t to add orgrimodine	amo procedio te
On average, how much	•		consultation? (plea	se indicate below in
minutes; for 30 second	s piease irisert 0.5 e			
I predict i would use the	e automated prompti	ng for blood-borne vi	rus-testing during r	my consultations with
patients if such a prom	oting facility was intr	oduced in my work		
Strongly disagree	Disagree	Neutral	Agree	Strongly agree
I oppose a potential chatesting during consultate Strongly disagree	•	• .		
Strongly disagree	Disagree	Neutral	Agree	Strongly agree
NHS Improvin	g blood-borne viru	ıs (BBV) testing in	primary care	
_				
Which of the following	orompt options do yo	ou prefer		
'A hard prompt': you ha	ve to answer the prompt	regarding BBV testing bef	ore you can continue u	sing ICE or SystmOne
'A soft prompt': you can	answer the prompt rega	rding BBV testing or other	wise ignore and contin	ue using ICE or SystmmOn
NHS Improvin	g blood-borne virt	us (BBV) testing in	primary care	
unpressing Devest Al	outo			
uppressing Repeat Al	ens			

Another anticipated consideration for this alert is its potential to keep on being triggered, even when a clinician has decided not to test or the patient has refused a test. On the other hand it is possible the patient may develop additional risk factors subsequently which make testing a higher priority. In order to ensure the alert doesn't keep on being triggered inappropriately please answer the following two questions.

	When a clinician has decided not to order the test, for how long afterwards should the alert be suppressed?
	6 months
	1 year
	2 years
	5 years
	Permanently
	When a patient has refused the test, for how long afterwards should the alert be suppressed?
	6 months
	1 year
	2 years
	5 years
	Permanently
	NHS Improving blood-borne virus (BBV) testing in primary care
Re	gistration
	ar participant, please answer the following questions for registration purposes. This ormation is needed, so you can be reimbursed for your time completing the study.
	What is your first name (e.g. John)?
	What is your second name (e.g. Smith)?
	What is the name of your General Practice?



End of survey - thank you for completing the study

The data from your responses will be used for analysis and all information provided by you will be treated in strict confidence.

You can withdraw the information you provide within four weeks after taking part. If you wish to withdraw from the study, please contact either of the lead researchers:

Professor Paul van Schaik, Professor of Psychology, School of Social Sciences, Humanities and Law, Teesside University. P.Van-Schaik@tees.ac.uk

Dr David Chadwick, Consultant in Infectious Diseases, The James Cook University Hospital, Middlesbrough TS4 3BW. Davidr.chadwick@nhs.net

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