## A. PBA questionnaire for clinical supervisors

Thank you for using PBAs in your surgical sessions as part of the Surgical Skills Study. Please can you now complete this short survey to give us feedback on your experience of using this assessment form.

1. How many times had you assessed trainees with PBAs prior to this study? (please circle)

Never 1–5 times 6–15 times > 15 times

2. How often did you give feedback from PBAs at the time? (please circle)

Not applicable	Never	Sometimes	Always
applicable			

3. Please indicate the extent to which you disagree or agree with the following statements about PBAs: (please tick appropriate box)

		1	2	3	4	5
		Strongly disagree	Disagree	Neither agree or disagree	Agree	Strongly agree
a.	PBAs are a useful tool for providing debriefing (feedback) after an operation					
b.	PBAs are a valuable tool in formative assessment ie. to show progress in training					
C.	PBAs are a valuable tool in summative assessment ie. to show a level of competency has been achieved					
d.	PBAs are a useful tool to support reflective practice or to provide insight					

Too little  Just right  Too much										
5. What training have you undertaken? (please circle more than one as appropriate that the second se	riate)									
ISCP web guidance  Training workshop  Written information from research team  Face-to-face discussion with research team										
Where do you normally conduct PBA debrief sessions? (please circle more than one as appropriate)										
Operating theatre Coffee room Office Other										
If other, please specify location: (please enter text)										
7. How useful do you think your trainees found the feedback given by you in the sessions? (please circle a number on the scale)	se									
0 1 2 3 4 5 6 7 8 9 1										
Please give details if you wish: (please enter text)										
8. To what extent do you think PBAs enhanced your ability to assess your trainees? (please circle)										
0 1 2 3 4 5 6 7 8 9 1	10 I									
Not at all Very muc	ch									

4. The amount of training I have undertaken to use PBAs is (please circle):

Plea	se give d	letails if	you wi	sh (plea	ise add t	ext)				
	o you thi	nk train	ees pei	formed	differen	tly as a	result of	being a	ssessed	? (please
			Yes		N	0				
Plea	se give d	letails a	nd/or e	xample	s (please	e add te	xt)			
	How com						ording o	n the Pi	 3A that y	ou have
	1 l uncomfo		3 l	4 	5 	6 	7 	8 l	-	10 I omfortable
Plea	se give d	letails if	you wi	sh: (plea	ase add	text)				
	How impo			nink PB	  As are in	surgica	al educat	ion? (pl	ease circ	 
	number o		ŕ	4	5	6	7	Q	9	10
ļ	l evant						, 			I mportant
Plea	se give d	letails if	you wi	sh: (plea	ase add	text)				

2. Have ye	ou used P	BAs out	side of	the stud	y since	the study	begar	n? (pleas	e circle)
		Yes		No					
3. If yes, i enter te	n what co	ntext ha	ve you	used PB	As out	side the st	tudy? (	please	
	 o Q.12, wh s appropri		the reas	son for n	ot usin	 g PBAs? (	 (Please	e circle m	ore than
	No tra		pr	o index ocedure erformed		Lack of time		Other	
other, ple	ease give 	reason: 	(please	e enter te	ext)				
	ire now pa ould you b								
.1	2			5	6	7	8	9	10
 ery unlike	 ely							Very	I likely
	e make an e enter te:		r comm	ents reg	arding	PBAs or t	his stu	dy: 	

## B. PBA questionnaire for surgical trainees

Thank you for using PBAs in your surgical sessions as part of the Surgical Skills Study. Please can you now complete this short survey to give us feedback on your experience of using this assessment tool.

2.	How many times had you been assessed with PBAs prior to this study? (please
	circle)

Never 1–5 times 6–15 times > 15 times

2. How often did you receive feedback from PBAs at the time? (please circle)

Not	Never	Sometimes	Always
applicable			

4. Please indicate the extent to which you disagree or agree with the following statements about PBAs: (please tick appropriate box):

		1	2	3	4	5
		Strongly disagree	Disagree	Neither agree or disagree	Agree	Strongly agree
a.	PBAs are a useful tool for providing debriefing after an operation					
b.	PBAs are a valuable tool in formative assessment ie. to show progress in training					
C.	PBAs are a valuable tool in summative assessment ie. to show a level of competency has been achieved					
d.	PBAs are a useful tool to support reflective practice or to provide insight					

		Too little		Just right		I	Γοο much		
5. \	What training	have you un	dertaker	n? (please	e circle mo	ore tha	n one a	s appr	opriate)
	ISCP web guidance	Trainii works		Writter inform from reteam		dis wi	ace-to-fa scussior th resea am	1	None
	Where are you		ief sessio	ons norm	ally condu	ucted?	(please	circle	more
		Operating theatre	Co	offee	Office		Oth	er	
	other, please								
	How useful hathese session						ervising	consu	Itant in
	1 2 l	2 3						9	10
	at all useful				-  -		=	ery us	-
Plea	ase give deta	ils if you wish	n: (please	e enter te	xt)				
	To what exte		nk PBAs	enhance	d your trai	iner's a	ability to	asses	s you?
)	1 2 ll-	2 3 l	4 	5 	6 7 - l-		8 -	9 -l	10 l
	at all	•	•	•	. '			/ery m	nuch

4. The amount of training I have undertaken to use PBAs is (please circle):

Pl	Please give details if you wish: (please add text)										
9.	Do you think you	ou perform	ed diffe	rently as		It of beir	g asses	sed? (ple	ease		
Pl:	Please give details and/or examples (please add text)										
10	). How comforta that they have							ng on th	e PBA		
0	1 2	3	4	5	6	7	8	9	10		
	ll ery uncomfortab								l omfortable		
Pl:	ease give detail	s if you wis	sh: (plea	ase add	text)						
11	. How importar number on the		nink PB	As are ir	n surgica	al educa	tion? (pl	ease circ	cle a		
	1 2 	3 l	4 	5 	6 l	7 l			10 I mportant		
Pl	ease give detail	s if you wis	sh: (plea	ase add	text)						
12		ed PBAs ou	utside o	f the stu	dy since	the stu	dy begar	า? (pleas	se circle)		
		Yes		No							

3. If yes, ir enter te		ntext ha	ve you	used PBA	s ou	tside the st	udy? (	please	
	Q.12, wł appropri		he rea	son for not	usin	g PBAs? (	Please	e circle m	ore tha
	No in proce	dures		onsultant nwilling		Lack of time		Other	
other, plea	ase give	reason:	(please	e enter text	t) 				
						 um, but if g			
1	2	3	4	5	6	ase circle a	8	9	10
l ery unlikel								l Very	
	make an		comm	ents regar	ding	PBAs or th	nis stud	dy:	

## C. OSATS questionnaire for clinical supervisors

Thank you for using OSATS and PBA (procedure-based assessment) forms in your surgical sessions as part of the Surgical Skills Study. Please could you complete this short survey to give us feedback on your experience of using these assessment forms.

PΔ	APT	1.	USA.	ZΣ	Assessments
r	١٦٨		USA	וסו	Assessments

1. H	ow long have you b	Sinc	ce 01/08/07	1–2 years	surgical skills?  2 years		
	study	(launch of	new curriculum)				
2. W	When using OSATS forms <i>outside of this study</i> , how frequently have you given trainees feedback on their surgical skills?						
	Not	Never	Sometimes	Mostly	Always		
	applicable						
3. P	lease indicate the			agree with th	e following		

		1 Strongly disagree	2 Disagree	3 Neither agree or disagree	4 Agree	5 Strongly agree
a.	OSATS are a useful tool for providing feedback after an operation/procedure					
b.	OSATS are a valuable formative assessment method, i.e. an aid to learning					
C.	OSATS are a valuable summative assessment method, i.e. to show a satisfactory level of competency has been acheived					
d.	OSATS are a useful tool to support reflective practice or to provide insight					

			OSATS tool (please or disagreement w				
Stron	□gly disagree D		either agree Agrer disagree	ee Strongly agree			
Give	details if you wis	h (enter text):					
5. What training	ng have you und	ertaken? (plea	ase select more tha	n one as appropria	ite)		
None	RCOG web guidance	Training workshop	Written information from research team	Face-to-face discussion with research team	Other		
	If you selected 'o	other' box, ple	ase give details:				
6. Using OSATS adds too much time to my operating list (please select appropriate box to indicate the extent of your agreement or disagreement with this statement)  Strongly disagree Disagree Neither agree Agree Strongly or disagree agree							
Give	details if you wis	h:					
helped you ide			assess the surgical hs and areas for de				
1 □ Not at	2 3 	[	6 7 ] erately	8 9 DVery m	10 [] nuch		
(	Give details if you	u wish:					
	ur level of <i>overal</i> and providing fee		vith the OSATS tool	for assessing train	nees		
1 □ No sa	2 3 		6 7 ][]- erately sfied	8 9 ⊡⊡ Highly satis	10 □ sfied		
Pleas	se give details if	you wish:					

9. OSATS are now part of the new specialty curriculum, but if given the choice, would you continue to use the OSATS tool to assess trainees' surgical skills?

	Never	Sometim	es	Always	Not sure		
	Please give details if you wish:						
10. Ha	ve you any suggestic	ons to improv	e the c	urrent OSATS tool?			
	Ύє	es ]		No.			
	If yes, please give details:						
wit				es with the OSATS yo OSATS assessments			
	Yes			No			
	If yes, please give of	details:					
PART :	2: PBA Assessments	3					
1. Plea				gree or agree with the lect appropriate box)	efollowing		

		1 Strongly disagree	2 Disagree	3 Neither agree or disagree	4 Agree	5 Strongly agree
a.	PBAs are a useful tool for providing feedback after an operation/procedure					
b.	PBAs are a valuable formative assessment method, i.e. an aid to learning					
C.	PBAs are a valuable summative assessment method, i.e. to show a satisfactory level of competency has been achieved					
d.	PBAs are a useful tool to support reflective practice or to provide insight					

2.	I have had sufficient training	g in using the	e PBA tool (please s	elect appropria	te box)
	<u> </u>		Neither agree or disagree	Agree S	 Strongly agree
	Give details if you wisl	n (enter text):	:		
3.	What training have you und	lertaken? (ple	ease select more tha	an one as appr	opriate)
	None ISCP web guidance	Training workshop	Written information from research team	Face-to-face discussion we research tea	rith
	If you selected 'o'	ther' box, ple	ase give details:		
4.	Using PBAs added too mucindicate the extent of your a				
			Neither agree or disagree	Agree S	
	Give details if you wisl	า:			
5.	Do you think PBAs have he (please select a numb			skills of trainees	s?
	1 2 3 			]	9 10  ery much
	Give details if you	wish:			
	What is your level of <i>overall</i> rgical skills and providing fe		with the PBA tool fo	r assessing trai	inees'
	1 2 3  No satisfaction	] M	5 6 7  loderately atisfied	8 9 	10 ] Highly satisfied
	Please give details if	you wish:			

traine	es' surgi	cal skills	and pro	ovide feedb	ack, wl	nich tool (	do you	prefer?		
		OSATS			PBA			No pref	erence	
(b)	If you do	have a p	oreferer	nce for one	of the t	ools, plea	ase exp	lain why	:	
8. Have	e you any	y sugges	tions to	improve th	e PBA	tool?				
			Yes					No		
		If yes, pl	ease gi	ve details:						
PART	Γ3: Gene	eral ques	tions							
2. I usu (Ple	(Ple Operation ( ually give ase select greemen	If other, OSATS t approp	please /PBA fe oriate bo s stater	rainees feed nose appropriate room specify located back in a cox to indicate ment ) Disagree	ation (pa suitable the the e	Office  Dlease entitle (i.e. co	ter text) onfident your ago	Other  : ial) place	e.	□ □
	Please	give deta	ails if yo	ou wish:		J			J	
	helpful o			nees find th scale)	e feedl	oack you	give in	these se	essions?	
	1	2	_				7 	8	9 	10 □ helpfu
	Please	give deta	ails if yo	u wish:						

7 (a). Comparing your experience of using the OSATS and PBA forms to assess

4. How comfortable do you feel about for you have concerns about a trainee's sur			he OSAT	S/PBA for	m that	
1 2 3 4Uncomfortable	5 ⊡ Neutral	[	7 {	8 9  Comfo	10  rtable	
Please give details if you wish	n:					
5. Has the completion of an OSATS/PBA a trainee's surgical competence?	\ form res	sulted in yo	u raising	concerns a	about	
Yes			No			
If yes, please provide general co confidentiality:  6. Do you have any suggestions for the calternative methods of assessing the sur	developm	ent of a ne	w assess	sment tool,	or for	
Yes			No			
If yes, please give details	<b>S</b> :					
7. Have you any further comments or concerns regarding OSATS/PBA assessments or this research study?						
Yes		N	lo _			
If yes, please give details:						

D	OSAT	rs (	nuestion	nnaire	for	trainees
┏.	OOA.		uu <del>c</del> suoi	IIIaii <del>C</del>	ıvı	แลแระร

Thank you for using OSATS in your surgical sessions. Please can you now complete this short survey to give us feedback on OSATS.

1. How long have skills? (please sele			forms in th	ne assess	sment of your	surgical	
Not before study			Since 01/08/07 n of new curriculum)		ars > 2 year	'S	
2. How many times had you been assessed with OSATS <i>prior to this study</i> ?							
Neve	r 1–5	times	6–15 t	imes	>15 times		
3. How often did yo	ou receive feed	dback from	OSATS (o	utside this	s study) at the	time?	
Not applicab	Never le	Som	netimes	Mostly	Always		
4. I have had suffice box)	cient training in	using the	OSATS too	l (please	select approp	riate	
	 isagree Disagnee e details if you	10	either agree disagree	 e Agre	e Strong		
5. What training ha	ave you undert	aken? (plea	ase select r	more than	one as appro	priate)	
None	RCOG web guidance	Traini worksh	_	Vritten ormation ☐	Face-to-face discussion	Other	
If you	u selected 'othe	er' box, ple	ase give de	etails:			
6. My trainers appear to have had sufficient training in using the OSATS tool:							
Strong	□ly disagree □	Disagree	Neither a		•	rongly agree	
Please giv	e details if you	wish:					

statements about OSATS: (please tick appropriate box) 1 2 3 Strongly Strongly Disagree Neither Agree agree disagree agree or disagree OSATS are a useful tool for a. providing debriefing (feedback) after an operation OSATS are a valuable tool b. in formative assessment, i.e. to help learning and show progress in training OSATS are a valuable tool in summative assessment. i.e. to show a level of competency has been achieved d. OSATS are a useful tool to support reflective practice or to provide insight 8. Where do you usually receive your OSATS feedback? (Please select all those appropriate) Operating theatre Coffee room Office Other If other, please specify location (please enter text): 9. I usually receive OSATS feedback in a suitable (i.e. confidential) place. Strongly Disagree Neither agree Agree Strongly disagree or disagree agree Please give details if you wish: 10. How helpful have you found the feedback given by your supervising consultant in these sessions? (please select a number on the scale) Very helpful No help Some help Please give details if you wish:

7. Please indicate the extent to which you disagree or agree with the following

<ol> <li>The helpfulness of feedbade</li> <li>depends on the trainer</li> </ol>			OSATS asse	essment
Π				
Strongly disagree	Disagree	Neither agree or disagree	Agree	Strongly agree
Please give details if y	ou wish:			
12. To what extent do you your surgical skill?  1 2 3   Not at all	4 [][	S enhanced your  5 6  derately	r trainer's abi 7 8 ⊡⊡-	lity to assess  9 10  Very much
Please give details	if you wish:			
13. The scores in past OSA representation of my surgion			an accurate	
Π				
Strongly disagree	Disagree	Neither agree or disagree	Agree	Strongly agree
Please give details if	you wish:			
14. How comfortable do yo OSATS form that they have				
1 2 3 	4   No	5 6  eutral	7 8	9 10  Comfortable
Please give details	if you wish:			
15. How important do you t	hink OSATS	S are in surgical e	education?	
1 2 3 □□□ Not at all	4 [ Mod	5 6  erately	7 8	9 10  Very much
Please give details it	f you wish:			

feedback				<b>.</b>				
1 2 3 □□□ Not at all	4 5 	6   ely	7 8 	9 10  Very much				
Please give details if y	ou wish:							
	17. OSATS are part of the new specialty curriculum, but, if given the choice, would you continue to use OSATS as an assessment of your surgical skills?							
Never	Sometimes	Alway	S	Not sure				
Please give details if y			1					
18. What is your level of o and feedback on your surg		with the OSA	ATS tool for a	assessment				
1 2 3								
Please give details if y	ou wish:							
19. Comparing your exper and PBA, which tool do yo		ent and feed	back using th	ne OSATS				
OSATS	PE	SA ]	No pre	eference				
If you have a preferen	ce, please explai	n why:						
20. Have you any suggest	ions to improve tl	ne current OS	SATS tool?					
Yes			No					
If yes, please of	give details:							
21. Do you have any sugg for assessing surgical com		evelopment o	f a new asse	ssment tool				

16. Do you think OSATS have improved your surgical training? i.e. helped you build on strengths and improve areas for development that were identified during

	Yes		No 🗆					
	If yes, please give details:							
22. Do you feel your surgical performance in this study was affected by assessment?								
	Yes		No 🗌					
	If yes, please give details:							
23. Do you think there has been any difference in the OSATS performed within this study compared to the usual OSATS assessments in your training?								
	Not applicable	Υe	es ]	No				
	If yes, please give details:							
24. Have you any further comments regarding OSATS assessment or this study?								
	Yes		No					
	If yes, please give details:							

## E. NOTSS questionnaire for anaesthetists and scrub nurses

Thank you for using NOTSS forms in your theatre sessions. Please could you now complete this short survey to give us feedback on your experience of using these forms.

1. Please indicate the extent to which you disagree or agree with the following statements about NOTSS: (please select appropriate box)

		1	2	3	4	5
		Strongly Disagree	Disagree	Neither agree or disagree	Agree	Strongly agree
a.	NOTSS provides a common language to discuss non-technical skills					
b.	It was easy to rate cognitive skills (e.g. decision making) situation awareness,					
C.	It was easy to rate interpersonal skills (e.g.communication and teamwork, leadership)					
d.	Using NOTSS forms added too much time to my operating list					
e.	NOTSS may be a useful tool to support reflective practice or provide insight for surgeons in training					
f.	NOTTS is a valuable adjunct to the available assessment tools for surgeons in training					
g.	Routine use of the NOTSS system will enhance safety in the operating theatre					
h.	NOTSS may be a useful tool for providing a trainee with feedback after an operation					

2.	I have had sufficient training in using the NOTSS tool (please select appropriate box to indicate the extent to which you agree or disagree with this statement)							
	Strongly disagree Disagree Neither agree Agree Strongly agree or disagree							
	Give details	if you wish (	enter text):					
3.	What trainir	ng have you	undertaken? (¡	olease select	more tha	an one as	appropri	ate)
	None	NOTSS Booklet	NOTSS video	•		Face-to-face discussion with research team		Other
	If you selec	ted 'other' bo	ox, please give	details:				
4.	Did you wor appropriate		gory level, ele	ment level, or	both? (p	olease sele	ect	
		Category	Ele	ment		Both		
5.	Which of the four NOTSS categories did you focus on? (Please select more than one box as appropriate)							
	Situation a	wareness	Decision mak	ecision making   Communi		n Teamwork/leaders		rship
6.	If you did no	ot use all the	categories, co	uld you expla	in why (p	olease ent	er text):	
<ol><li>How easy did you find it to rate the non-technical behaviours of surgeons using NOTSS forms? (please select a number on the scale)</li></ol>								ı
1 U Ve	2  ry difficult	3	4 5 -□□	6 	7 	8 	9 	10 □ asy
	If you had difficulties rating behaviours using NOTSS please explain why:							

8. How important do you think it is *within surgical education* to rate the non-technical skills of surgeons in training? (please select a number on the scale)

No imp	2 [] ortance	3 ⊡	4 5 -⊡⊡- Of mode importa		6 7 □[	′ 8 □□	9 ] Very im	10  nportant	
	Give details if you wish:								
9. What is your level of <i>overall satisfaction</i> with the NOTSS tool for assessing the non-technical skills of surgeons in training? (please select a number on the scale)									
1 — No satis	2 [] sfaction	3	4 5 Moder satisf	ately	6 [	7 8 	9 ] Highly s	10  satisfied	
	Please g	ive details	if you wish:						
10. Would you be prepared to use NOTSS in your theatre sessions again? (please select appropriate box)									
	Never Sometimes		es	Always		Not s	Not sure		
	Please give details if you wish:								
11. Have you any comments or suggestions to improve the NOTSS tool <i>or</i> for alternative methods of rating non technical skills?									
	Yes				No				
If yes, please give details:									
12. Have you any further comments or concerns regarding NOTSS or this research study?									
	Yes				No 🖂				
	If yes, please give details:								