## Supplementary tables S1 and S2

**Table S1.** Number and percentage of participants responding to post-training questionnaire statements on relevance and helpfulness of the training for anticipating, identifying and management impacted fetal head (IFH).

	Strongly agree	Agree	Somewhat agree	Neither agree nor disagree	Somewhat disagree	Disagree	Strongly disagree
This training was relevant to my clinical practice in relation to managing IFH at caesarean section	45 (79%)	11 (19%)	1 (2%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
The training will help to improve outcomes following IFH at caesarean section	41 (72%)	14 (25%)	1 (2%)	1 (2%)	0 (0%)	0 (0%)	0 (0%)
The training will help maternity staff better manage IFH at caesarean section	48 (84%)	7 (12%)	1 (2%)	0 (0%)	0 (0%)	1 (2%)	0 (2%)
The simulations helped my learning in the management of IFH at caesarean section	49 (86%)	8 (14%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
The use of augmented reality helped my learning in managing IFH at caesarean section	27 (47%)	13 (23%)	11 (19%)	4 (7%)	2 (4%)	0 (0%)	0 (0%)
The animated video helped my learning in managing IFH at caesarean section	42 (74%)	13 (23%)	2 (4%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
The management algorithms will support my clinical practice or participation in managing IFH at caesarean section	29 (51%)	26 (46%)	2 (4%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
This training overall will improve my clinical practice or participation in managing IFH at caesarean section	44 (77%)	12 (21%)	0 (0%)	1 (2%)	0 (0%)	0 (0%)	0 (0%)

**Table S2.** Number and percentage of participants responding to pre-training and post-training questionnaire statements on confidence in knowledge and relating to anticipating, identifying and management impacted fetal head (IFH).

	Strongly agree	Agree	Somewhat agree	Neither agree nor disagree	Somewhat disagree	Disagree	Strongly disagree	Mean*	Post-pre mean*
	l feel confiden	t about performin	g vaginal disimpac	tion ("push-up") (o	bstetricians and	midwives only, n	=46)		
Pre	2 (4%)	18 (39%)	7 (15%)	8 (17%)	4 (9%)	7 (15%)	0 (0%)	4.67	
Post	22 (48%)	22 (48%)	2 (4%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	6.43	+1.76
	l feel confiden	t about diagnosin	g an IFH at caesar	rean section (obste	etricians only, n=	25)			
Pre	10 (40%)	13 (52%)	2 (8%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	6.32	
Post	16 (64%)	9 (36%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	6.64	+0.32
	l feel confiden	t about performin	g reverse breech e	extraction (obstetri	cians only, n=25)	)			
Pre	4 (16%)	11 (44%)	4 (16%)	3 (12%)	2 (8%)	1 (4%)	0 (0%)	5.32	
Post	9 (36%)	14 (56%)	2 (8%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	6.28	+0.96
	l feel confiden	t about how to ma	anage a situation in	n which an IFH at o	caesarean sectio	on is anticipated (	all participants, n=57)	1	
Pre	4 (7%)	22 (39%)	13 (23%)	8 (14%)	2 (4%)	6 (11%)	2 (4%)	4.86	
Post	30 (53%)	25 (44%)	2 (4%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	6.49	+1.63
	l feel confiden	t that everyone in	the clinical team k	nows when an IFI	H at caesarean s	ection has been i	dentified (all participa	ints, n=57)	
Pre	3 (5%)	7 (12%)	14 (25%)	10 (18%)	14 (25%)	8 (14%)	1 (2%)	4.07	
Post	20 (35%)	24 (42%)	11 (19%)	2 (4%)	0 (0%)	0 (0%)	0 (0%)	6.08	+2.01

2

	I feel confident	that everyone in	the clinical team v	will know exactly v	what to do in the e	event of an IFH at	caesarean section (all parti	cipants, n=57)		
Pre	0 (0%)	3 (5%)	15 (26%)	7 (12%)	19 (33%)	11 (19%)	2 (4%)	3.54		
Post	18 (32%)	28 (49%)	8 (14%)	2 (4%)	1 (2%)	0 (0%)	0 (0%)	6.05	+2.51	
	I feel confident about my own role in the management of IFH at caesarean section (all participants, n=57)									
Pre	9 (16%)	21 (37%)	10 (18%)	10 (18%)	4 (7%)	1 (2%)	2 (4%)	5.17		
Post	42 (74%)	14 (25%)	0 (0%)	1 (2%)	0 (0%)	0 (0%)	0 (0%)	6.70	+1.53	
	I feel confident that communication between members of the clinical team during the obstetric emergency of an IFH will be optimal (all participants, n=57)									
	l feel confident	that communicati	ion between mem	bers of the clinica	al team during the	e obstetric emerge	ency of an IFH will be optime	l (all participants	s, n=57)	
Pre	l feel confident 3 (5%)	that communicati 8 (14%)	ion between mem 23 (40%)	bers of the clinica 8 (14%)	al team during the 10 (18%)	e obstetric emerge 4 (7%)	ency of an IFH will be optima 1 (2%)	II (all participants 4.47	s, n=57)	
Pre Post					0	0	,		s, n=57) +1.77	
	3 (5%) 24 (42%)	8 (14%) 25 (44%)	23 (40%) 6 (11%)	8 (14%) 2 (4%)	10 (18%) 0 (0%)	4 (7%) 0 (0%)	1 (2%)	4.47 6.24	,	
	3 (5%) 24 (42%)	8 (14%) 25 (44%)	23 (40%) 6 (11%)	8 (14%) 2 (4%)	10 (18%) 0 (0%)	4 (7%) 0 (0%)	1 (2%) 0 (0%)	4.47 6.24	. ,	

\*Mean calculated based on the following replacements: strongly agree = 7, agree = 6, somewhat agree = 5, neither agree nor disagree = 4, somewhat disagree = 3, disagree = 2, strongly disagree = 1.