American College of Radiology ACR Appropriateness Criteria®

Breast Implant Evaluation

Variant 1: Adult of any age. Female or transfeminine. Evaluation of saline breast implants. Asymptomatic. Initial imaging.

	Appropria	nteness	207							F	inal	Tabu	latio	ns		
Procedure	Catego	ory	SOE	Adults RRI	Peds RRI	Rating	Median	1	2	3	4	5	6	7	8	9
Mammography screening	Usually appropr		Limited	�� 0.1-1mS	Sv	1	1	12	0	1	0	0	0	1	0	1
			References		Stu	dy Quality										
			15 (34794604)			4										
			14 (29101979)			4										
MRI breast without IV contrast	Usually appropr		Limited	O 0 mSv	O 0 mSv [ped]	1	1	13	1	0	1	0	0	0	0	0
			References		Stu	dy Quality										
			16 (24792659)			4										
MRI breast without and with IV contrast	Usually appropr		Limited	O 0 mSv	O 0 mSv [ped]	1	1	13	0	0	1	0	0	0	0	1
			References		Stu	dy Quality		•	•	•	•	•				
	Γ		16 (24792659)			4										
US breast	Usually appropr		Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	12	1	0	0	0	0	0	0	0
Digital breast tomosynthesis screening	Usually appropr		Limited	�� 0.1-1mS	Sv	1	1	11	0	2	1	0	0	0	0	1
			References		Stu	dy Quality		_								
			15 (34794604)			4										
			14 (29101979)			4										

Variant 2: Adult younger than 30 years of age. Female or transfeminine. Evaluation of saline breast implants. Clinical examination equivocal for implant rupture. Initial imaging.

D .	Appropri	ateness	COF	4 1 14 BBF			D (1	37.11			F	inal	Tabu	latio	ns		
Procedure	Categ	ory	SOE	Adults RRI		Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
US breast	Usua approp	lly riate	Limited	O 0 mSv		O 0 mSv [ped]	8	8	0	1	0	1	1	0	2	4	6
			References		•	Study	Quality		•	•	•	•	•	•			
			18 (28186859)				4				_	_	_				
Mammography diagnostic	Usually approp		Limited	�� 0.1-1mS	Sv		3	3	7	0	4	0	3	0	0	0	1
			References		·	Study	Quality										
			16 (24792659)				4										
			17 (16579024)				4										
MRI breast without IV contrast	Usually approp		Limited	O 0 mSv		O 0 mSv [ped]	1	1	13	0	0	0	2	0	0	0	0
			References			Study	Quality										
			16 (24792659)				4										
MRI breast without and with IV contrast	Usually approp		Limited	O 0 mSv		O 0 mSv [ped]	1	1	13	0	0	0	2	0	0	0	0
			References			Study	Quality										
			16 (24792659)				4										
Digital breast tomosynthesis diagnostic	Usually approp		Limited	�� 0.1-1mS	Sv		1	1	9	0	3	0	1	0	0	0	0
			References			Study	Quality										
			References 16 (24792659)				4										
			16 (24792659) 17 (16579024)				4										

Variant 3: Adult 30 to 39 years of age. Female or transfeminine. Evaluation of saline breast implants. Clinical examination equivocal for implant rupture. Initial imaging.

	Appropria	teness	COF		_	D 1 DD1	- ·	3.5.11			F	'inal '	Tabu	latio	ns		
Procedure	Catego		SOE	Adults RR	L	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
US breast	Usual appropr		Limited	O 0 mSv		O 0 mSv [ped]	8	8	0	1	0	0	2	0	3	4	5
			References			Study	Quality		•	•	•		•				
			18 (28186859)				4										
Mammography diagnostic	May bappropr (Disagree	iate	Expert Opinion	�� 0.1-1m	Sv		5	5	0	0	2	0	3	2	0	6	0
			References			Study	Quality										
		16 (24792659) 17 (16579024)					4										
		17 (16579024)					4										
Digital breast tomosynthesis diagnostic	May t appropr (Disagree	riate	Expert Opinion	�� 0.1-1m	Sv		5	5	0	0	2	0	3	2	0	6	0
			References			Study	Quality										
			16 (24792659)				4										
			17 (16579024)				4		_								
MRI breast without IV contrast	Usually appropr		Limited	O 0 mSv		O 0 mSv [ped]	1	1	12	0	1	0	2	0	0	0	0
			References		•	Study	Quality								•		
			16 (24792659)				4										
MRI breast without and with IV contrast	Usually appropr		Limited	O 0 mSv		O 0 mSv [ped]	1	1	13	0	0	0	2	0	0	0	0
		References			Study	Quality											
		16 (24792659)				4											

Variant 4: Adult age 40 years or older. Female or transfeminine. Evaluation of saline breast implants. Clinical examination equivocal for implant rupture. Initial imaging.

, n	Appropri	iateness	COE	4 1 14 DD	_	D I DDI	D 4	N. 11			F	inal '	Tabu	latio	ns		
Procedure	Categ		SOE	Adults RR	L	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
Mammography diagnostic	Usua approp		Limited	�� 0.1-1m	ıSv		8	8	0	0	1	0	0	1	1	6	4
			References			Study	Quality										
			16 (24792659)				4										
			17 (16579024)				4										
Digital breast tomosynthesis diagnostic	Usua approp		Limited	�� 0.1-1m	ıSv		8	8	0	0	1	0	0	0	1	7	4
			References			Study	Quality									•	
			16 (24792659)				4										
	_		17 (16579024)				4		_								
US breast	May approp		Expert Consensus	O 0 mSv	,	O 0 mSv [ped]	6	6	0	0	0	0	4	3	0	5	1
MRI breast without IV contrast	Usually approp		Limited	O 0 mSv	,	O 0 mSv [ped]	1	1	13	0	0	0	2	0	0	0	0
			References			Study	Quality										
,			16 (24792659)				4										
MRI breast without and with IV contrast	Usually approp		Limited	O 0 mSv	,	O 0 mSv [ped]	1	1	13	0	0	0	2	0	0	0	0
			References			Study	Quality		•								
			16 (24792659)				4										

Variant 5: Adult of any age. Female or transfeminine. Evaluation of silicone breast implants. Asymptomatic. Less than 5 years after implant placement. Initial imaging.

ъ 1	Appropriateness	COF	ALL DDI	D I DDI	D 41	37.11			F	inal [Fabu	latio	ns		
Procedure	Category	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
Mammography diagnostic	Usually not appropriate	Limited	�� 0.1-1mS\		1	1	12	0	0	0	0	1	0	0	0
		References		Study	Ouality		-								

		20 (23928244)			4										
		19 (15900139)			4										
		18 (28186859)			4										
		15 (34794604)			4										
		14 (29101979)			4										
MRI breast without IV contrast	Usually not appropriate	Limited	O 0 mSv	O 0 mSv [ped]	1	1	12	0	1	0	0	0	0	0	0
		References		Study	Quality										
		1 (-3195188)		-	4										
MRI breast without and with IV contrast	Usually not appropriate	Expert Consensus O 0 mSv		O 0 mSv [ped]	1	1	13	0	0	0	0	0	0	0	0
US breast	Usually not appropriate	Limited	O 0 mSv [ped]	1	1	11	0	1	0	0	0	0	1	0	
		References		Study	Quality										
		1 (-3195188)		-	4										
Digital breast tomosynthesis diagnostic	Usually not appropriate	Limited	Sv	1	1	12	0	0	0	0	0	1	0	0	
		References		Study	Quality										
		20 (23928244)		4											
		19 (15900139)		4											
				4											
		18 (28186859) 15 (34794604)			4										
		15 (34794604) 14 (29101979)			4										
		, , , , ,													

Variant 6: Adult of any age. Female or transfeminine. Evaluation of silicone breast implants. Asymptomatic. Initial imaging at 5 to 6 years after implant placement and follow-up imaging every 2 to 3 years after initial negative imaging.

ъ .	Appropriateness	COF	A L L DDI	D I DDI	D 41	3.7.11			F	inal '	Tabu	latio	ns		
Procedure	Category	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
MRI breast without IV contrast	Usually appropriate	Strong	O 0 mSv	O 0 mSv [ped]	9	9	1	0	0	0	1	1	0	1	9

ъ.	Appropriateness	COF	4.1.1/ DD7	D I DET	D 4	3.5.11			Fi	nal T	[abu]	latio	ns		
Procedure	Category	SOE	Adults RRL	Peds RRL	Rating	Median	1	2 3						8	9
								·							
		References		Study	Quality										
		28 (15664285)			2										
		27 (25028829)			3										
		26 (15257358)			2										
		25 (22751081)			1										
		24 (16874191)			3										
		23 (17051096)			3										
		22 (17898620)			2										
		21 (18349629)			4										
		16 (24792659)			4										
		1 (-3195188)			4									_	_
US breast	Usually appropriate	Strong	O 0 mSv	O 0 mSv [ped]	7	7	0	0	0	0	3	2	3	2	3
		References		Study	Quality										
		34 (19054000)			3										
		33 (23668948)			3										
		32 (22328687)			2										
		31 (21427311)			4										
		30 (23623260)			4										
		29 (18090814)			4										
		27 (25028829)			3										
		26 (15257358)			2										
		18 (28186859)			4										
		1 (-3195188)			4										
		14 (29101979)			4										
		15 (34794604)		4											

Mammography diagnostic	Usuall approp		Limited	�� 0.1-1mS	Sv	1	1	12	0	0	0	0	1	0	0	0
	•		References		Study	y Quality										
			20 (23928244)			4										
			19 (15900139)			4										
			18 (28186859)			4										
			15 (34794604)			4										
			14 (29101979)			4										
MRI breast without and with IV contrast	Usuall approp		Limited	O 0 mSv	O 0 mSv [ped]	1	1	13	0	0	0	0	0	0	0	0
	•		References		Study	y Quality										
			1 (-3195188)			4										
			14 (29101979)			4										
			15 (34794604)			4										
Digital breast tomosynthesis diagnostic	Usuall approp	y not oriate	Limited	�� 0.1-1mS	Sv	1	1	12	0	0	0	0	0	1	0	0
			References		Study	y Quality										
			20 (23928244)			4										
			20 (23928244) 19 (15900139)			4										
			19 (15900139) 18 (28186859)			4										
			15 (34794604)			4										
			14 (29101979)		4											

Variant 7: Adult younger than 30 years of age. Female or transfeminine. Evaluation of silicone breast implants. Suspected implant complication. Initial imaging.

D 1	Appropriateness	COF	A L IV DDI	D I DDI	D 41	34.11			F	inal '	Гаbu	latio	ns		
Procedure	Category	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
MRI breast without IV contrast	Usually appropriate	Strong	O 0 mSv	O 0 mSv [ped]	9	9	1	0	0	0	1	1	0	4	8
		References		Study	Quality		•								

16 (24792659)	4
38 (22430679)	3
29 (18090814)	4
31 (21427311)	4
32 (22328687)	2
27 (25028829)	3
26 (15257358)	2
28 (15664285)	2
37 (21364405)	M
35 (23622796)	4
1 (-3195188)	4
1	

US breast	May be appropriate (Disagreement)	Expert Opinion	O 0 mSv	O 0 mSv [ped]	5	5	1	1	0	1	7	1	1	1	1
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References	Study Quality
29 (18090814)	4
30 (23623260)	4
31 (21427311)	4
32 (22328687)	2
33 (23668948)	3
34 (19054000)	3
27 (25028829)	3
26 (15257358)	2
20 (23928244)	4
35 (23622796)	4
39 (34063687)	2
18 (28186859)	4
36 (-3112870)	4
15 (34794604)	4
14 (29101979)	4
1 (-3195188)	4

Mammography diagnostic	Usually appropr	not riate	Limited	�� 0.1-1mS	5V		1	1	12	0	1	0	0	0	0	0	0
			References			Study	Quality										
			29 (18090814)				4										
			31 (21427311)				4										
			20 (23928244)				4										
			35 (23622796)				4										
			19 (15900139)				4										
			36 (-3112870)				4										
			15 (34794604)				4										
			14 (29101979)				4										
			1 (-3195188)				4										
MRI breast without and with IV contrast	Usually appropr	not riate	Limited		O 0 mSv [ped]	1	1	11	1	1	0	0	0	0	0	0	
			References		Study	Quality											
			36 (-3112870)			4											
			15 (34794604)			4											
			14 (29101979)				4										
			1 (-3195188)				4			,	,						
Digital breast tomosynthesis diagnostic	Usually appropr	not riate	Limited	�� 0.1-1mS	5v		1	1	12	0	1	0	0	0	0	0	0
			References			Study	Quality										
			29 (18090814)				4										
			31 (21427311)				4										
			20 (23928244)				4										
			35 (23622796)				4										
			35 (23622796) 19 (15900139)				4										
			1 (-3195188)				4										
			36 (-3112870)				4										
			15 (34794604)				4										
			14 (29101979)				4										

Variant 8: Adult 30 to 39 years of age. Female or transfeminine. Evaluation of silicone breast implants. Suspected implant complication. Initial imaging.

	Appropriateness]	inal	Tabu	latio	ns		
Procedure	Category	SOE	Adults RRI	L	Peds RRL	Rating	Median	1	2	3	4	5	6		8	9
MRI breast without IV contrast	Usually appropriate	Strong	O 0 mSv		O 0 mSv [ped]	8	8	1	0	0	0	2	0	1	5	6
		References		•	Study	Quality		•								
		16 (24792659)				4										
		38 (22430679)	ı			3										
		29 (18090814)	ı			4										
		31 (21427311)	ı			4										
		32 (22328687)	ı			2										
		37 (21364405)	ı			M										
		35 (23622796)	ı			4										
		28 (15664285)	ı			2										
		27 (25028829)				3										
		26 (15257358)				2										
		1 (-3195188)				4						_				
Mammography diagnostic	May be appropriate (Disagreement)	Expert Opinion	�� 0.1-1m\$	Sv		5	5	2	0	2	1	4	1	1	1	1
		References			Study	Quality										
		29 (18090814)				4										
		31 (21427311)	1			4										
		20 (23928244)	1			4										
		35 (23622796)				4										
		19 (15900139)				4										
		1 (-3195188)				4										
		14 (29101979)				4										
		15 (34794604)				4										

		36 (-3112870)			4									
US breast	May be appropriate	Strong	O 0 mSv	O 0 mSv [ped]	5	5	0	1	0	1	7	1 2	2 2	0
		References		Study	y Quality	•				•			•	
		29 (18090814)			4									
		30 (23623260))		4									
		31 (21427311))		4									
		32 (22328687))		2									
		33 (23668948))		3									
		34 (19054000))		3									
		27 (25028829))		3									
		26 (15257358))		2									
		20 (23928244))		4									
		35 (23622796))		4									
		39 (34063687))		2									
		18 (28186859))		4									
		36 (-3112870)			4									
		15 (34794604))		4									
		14 (29101979))		4									
		1 (-3195188)		1	4									
Digital breast tomosynthesis diagnostic	May be appropriate (Disagreement)	Expert Opinion	�� 0.1-1mS	Sv	5	5	2	0	2	1	4	1 1	1	1
		References		Study	y Quality									
		19 (15900139)			4									
		1 (-3195188)			4									
		14 (29101979))		4									
		15 (34794604))		4									
		36 (-3112870)			4									
MRI breast without and with IV contrast	Usually not appropriate	Limited	O 0 mSv	O 0 mSv [ped]	1	1	12	0	1	0	1	0 1	0	0
		References		Study	y Quality									

1 (-3195188)	4
14 (29101979)	4
15 (34794604)	4
36 (-3112870)	4

Variant 9: Adult age 40 years or older. Female or transfeminine. Evaluation of silicone breast implants. Suspected implant complication. Initial imaging.

	Appropriateness	70D	4 1 14 BB1	- D 1 DD1	D	3.6.11				Final	Tabu	ılatio	ns		
Procedure	Category	SOE	Adults RRI	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
MRI breast without IV contrast	Usually appropriate	Strong	O 0 mSv	O 0 mSv [ped]	9	9	1	0	0	0	1	0	1	4	8
		References		Study	y Quality										
		16 (24792659)			4										
		38 (22430679)			3										
		29 (18090814)			4										
		31 (21427311)			4										
		32 (22328687)			2										
		37 (21364405)			M										
		35 (23622796)			4										
		28 (15664285)			2										
		27 (25028829)			3										
		26 (15257358)			2										
		1 (-3195188)			4										
Mammography diagnostic	May be appropriate (Disagreement)	Expert Opinion	�� 0.1-1mS	Sv	5	5	2	0	1	1	2	1	3	1	2
		References		Study	y Quality										
		29 (18090814)			4										
		30 (23623260)			4										
		31 (21427311)			4										
		20 (23928244)			4										

			1													
		35 (23622796)				4										
		19 (15900139)				4										
		36 (-3112870)				4										
		15 (34794604)				4										
		14 (29101979)				4										
		1 (-3195188)				4										
US breast	May be appropriate	Strong	O 0 mSv		O 0 mSv [ped]	5	5	0	1	0	1	7	1	2	2	0
		References		•	Study	Quality		•								
		29 (18090814)			_	4										
		30 (23623260)				4										
		31 (21427311)				4										
		32 (22328687)				2										
		33 (23668948)				3										
		34 (19054000)				3										
		27 (25028829)				3										
		26 (15257358)				2										
		20 (23928244)				4										
		35 (23622796)				4										
		39 (34063687)				2										
		36 (-3112870)				4										
		15 (34794604)				4										
		14 (29101979)				4										
		1 (-3195188)				4										
Digital breast tomosynthesis diagnostic	May be appropriate (Disagreement)	Expert Opinion	�� 0.1-1m\$	Sv		5	5	2	0	1	1	2	1	3	1	2
		References			Study	Quality		_								
		29 (18090814)				4										
		30 (23623260)				4										
		31 (21427311)				4										
		20 (23928244)				4										

			35 (23622796)				4										
			19 (15900139)				4										
			36 (-3112870)				4										
			15 (34794604)				4										
			14 (29101979)				4										
			1 (-3195188)				4										
MRI breast without and with IV contrast	Usually approp	y not oriate	Limited	O 0 mSv	,	O 0 mSv [ped]	1	1	12	0	1	0	1	0	1	0	0
			References			Study	Quality										
			36 (-3112870)				4										
			15 (34794604)				4										
			14 (29101979)				4										
			1 (-3195188)				4										

Variant 10: Adult younger than 30 years of age. Female or transfeminine. Evaluation of unexplained axillary adenopathy. Silicone breast implants (current or prior). Initial imaging.

D 1	Appropriateness	COF	A L L DDI	D I DDI	D 41	3.6.11			F	inal '	Tabu	latio	ns		
Procedure	Category	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
US breast	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	9	9	0	1	0	0	1	0	1	2	10
		References		Study	Quality		-								
		30 (23623260)			4										
Digital breast tomosynthesis diagnostic	Usually not appropriate	Expert Consensus	�� 0.1-1mSv		2	2	7	3	1	2	1	0	0	0	1
Mammography diagnostic	Usually not appropriate	Expert Consensus	�� 0.1-1mSv		1	1	8	2	1	2	2	0	0	0	0
MRI breast without IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	10	2	1	0	0	0	0	0	0

MRI breast without and with IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	10	1	1	0	1	0	0	0	0	
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Variant 11: Adult 30 to 39 years of age. Female or transfeminine. Evaluation of unexplained axillary adenopathy. Silicone breast implants (current or prior). Initial imaging.

Donalous	Appropria	iteness	COE	A 114- DD1	т	D. J. DDI	D - 41	Madia			F	inal '	Гаbu	latio	ns		
Procedure	Catego		SOE	Adults RR	L	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
US breast	Usuall appropri	.*	Limited	O 0 mSv		O 0 mSv [ped]	9	9	0	1	0	0	1	0	2	3	8
			References			Study	Quality										
			30 (23623260)	623260)			4										
			39 (34063687)	87)			2					_					
Mammography diagnostic	Usuall appropri	.*	Expert Consensus	�� 0.1-1m	Sv		8	8	0	0	0	0	0	0	3	6	4
Digital breast tomosynthesis diagnostic	Usuall appropri	.*	Expert Consensus	�� 0.1-1mSv �� 0.1-1mSv			8	8	0	0	0	0	0	0	3	6	4
MRI breast without IV contrast	Usually appropri		Expert Consensus	O 0 mSv		O 0 mSv [ped]	2	2	5	6	1	0	0	0	1	0	0
MRI breast without and with IV contrast	Usually appropri		Expert Consensus	O 0 mSv		O 0 mSv [ped]	1	1	7	4	0	1	1	0	0	0	0

Variant 12: Adult age 40 years or older. Female or transfeminine. Evaluation of unexplained axillary adenopathy. Silicone breast implants (current or prior). Initial imaging.

D 1	Appropriateness	GOT.	A L L DDY	D I DDI	- ·	3.6.11			F	inal [Гаbu	latio	ns		
Procedure	Category	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
Mammography diagnostic	Usually appropriate	Expert Consensus	�� 0.1-1mSv		9	9	0	0	0	0	0	0	3	2	8
US breast	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	9	9	0	1	0	0	2	0	2	2	8

References	Study Quality
30 (23623260)	4
39 (34063687)	2

Digital breast tomosynthesis diagnostic	Usually appropriate	Expert Consensus	�� 0.1-1mSv		9	9	0	0	0	0	0	0	3	2	8
MRI breast without and with IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	2	2	6	4	0	1	2	0	0	0	0
MRI breast without IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	7	4	1	0	0	0	1	0	0

Variant 13: Adult of any age. Female or transfeminine. Suspected breast implant-associated anaplastic large cell lymphoma (BIA-ALCL) (delayed seroma, swelling, mass, pain, but no erythema, warmth, or skin changes that would raise concern for inflammatory breast cancer or mastitis). Breast implant of any type. Initial imaging.

Procedure	Appropriateness	COE	A L L DDI	dults RRL Peds RRL Rating	Rating Median	3.6.19		Final Tabulations										
	Category	SOE	Adults RRL			Median	1	2	3	4	5	6	7	8	9			
US breast	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	9	9	0	1	0	0	0	0	1	2	11			

References	Study	Quality	
11 (25073777)		3	
49 (26598546)		3	
48 (25490539)		4	
47 (28402426)		4	
46 (26936251)		4	
45 (-3195205)		4	
44 (21441845)		4	
43 (33554880)		4	
13 (32302264)		4	
9 (33234792)		4	
8 (28184418)		4	
4 (28918365)		4	

Mammography diagnostic	May be appropriate	Limited �� 0.1-1mS		v	5	5	0	0	0	1	8	2	2	0	0
		References		Study Quality											
		11 (25073777)			3										
		13 (32302264)			4										
		41 (33222158)		4											
MRI breast without IV contrast	May be appropriate (Disagreement)	Expert Opinion O 0 mSv		O 0 mSv [ped]	5	5	6	2	2	1	0	0	1	0	1
		References		Study Quality											
		13 (32302264)		4											
MRI breast without and with IV contrast	May be appropriate (Disagreement)	Expert Opinion	O 0 mSv	O 0 mSv [ped]	5	5	2	2	0	0	4	4	1	0	0
		References		Study Quality											
		9 (33234792)		4											
		42 (33989039)	ı		4										
		43 (33554880)		4											
		11 (25073777)		3											
Digital breast tomosynthesis diagnostic	May be appropriate	Limited	�� 0.1-1mS	v	5	5	0	0	0	1	8	2	2	0	0
		References		Study Quality											
		11 (25073777)		3											
		13 (32302264)			4										
		41 (33222158)			4										

Appendix Key

A more complete discussion of the items presented below can be found by accessing the supporting documents at the designated hyperlinks.

Appropriateness Category: The panel's recommendation for a procedure based on the assessment of the risks and benefits of performing the procedure for the specified clinical scenario.

SOE: Strength of Evidence. The assessment of the amount and quality of evidence found in the peer reviewed medical literature for an appropriateness recommendation.

- **References:** The citation number and PMID for the reference(s) associated with the recommendation.
- Study Quality: The assessment of the quality of an individual reference based on the number of study quality elements described in the reference.

RRL: Relative Radiation Level. A population based assessment of the amount of radiation a typical patient may be exposed to during the specified procedure.

Rating: The final rating (1-9 scale) for the procedure as determined by the panel during rating rounds.

Median: The median rating (1-9 scale) for the procedure as determined by the panel during rating rounds.

Final tabulations: A histogram showing the number of panel members who rated the procedure as noted in the column heading (ie, 1, 2, 3, etc.).

Additional supporting documents about the AC methodology and processes can be found at www.acr.org/ac.