American College of Radiology ACR Appropriateness Criteria®

Breast Imaging During Pregnancy

Variant 1: Pregnant female. Age 40 years or older. Breast cancer screening. Any risk.

	Appropriateness	207							F	inal	Tabu	latio	ns		
Procedure	Category	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
Mammography screening	Usually appropriate	Limited	�� 0.1-1mS	v	9	9	0	0	0	0	0	0	1	3	11
		References		Study	y Quality										
		2 (32755376)			4										
		17 (34903436)			4										
Digital breast tomosynthesis screening	Usually appropriate	Limited	�� 0.1-1mS	v	9	9	0	0	0	0	0	0	2	2	11
		References		Study	y Quality										
		8 (30392595)			4										
		3 (37708073)			4										
		2 (32755376)			4										
US breast	May be appropriate	Limited	O 0 mSv	O 0 mSv [ped]	5	5	0	1	0	2	12	0	0	0	0
		References		Study	y Quality										
		2 (32755376)			4										
		21 (23116728)			2										
		20 (25329763)			3			_			_				
Mammography with IV contrast	Usually not appropriate	Limited	�� 0.1-1mS	v	2	2	7	4	1	1	1	0	0	0	1
		References			y Quality										

	_	11 (-3188535)				4										
MRI breast without IV contrast	Usuall approp	Expert Consensus	O 0 mSv	,	O 0 mSv [ped]	1	1	13	1	1	0	0	0	0	0	0
MRI breast without and with IV contrast	Usuall approp	Limited	O 0 mSv	/	O 0 mSv [ped]	1	1	12	2	0	0	0	0	0	0	1
		References			Study	Quality										
		11 (-3188535)				4										
		7 (23345353)				4										
		3 (37708073)				4										
Sestamibi MBI	Usuall approp	Limited	��⊕ 1-10 mSv	0		1	1	13	1	0	0	0	0	0	0	1
		References			Study	Quality										
		18 (-3197536)				4										
		19 (35523526)				4										
MRI breast without and with IV contrast abbreviated	Usuall approp	Limited	O 0 mSv	,	O 0 mSv [ped]	1	1	13	1	0	0	0	0	0	0	1
		References			Study	Quality										
		3 (37708073)				4										
		7 (23345353)				4										
		11 (-3188535)				4										
MRI breast without IV contrast abbreviated	Usuall approp	Expert Consensus	O 0 mSv	,	O 0 mSv [ped]	1	1	13	1	1	0	0	0	0	0	0

Variant 2: Pregnant female. Age less than 25 years. Breast cancer screening. Higher-than-average risk.

D 1	Appropriateness	300	4 1 14 BBY	. D. I. DDI	D 41	3.5 11			F	inal [Гabu	latio	ns		
Procedure	Category	SOE	Adults RRI	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
US breast	May be appropriate	Limited	O 0 mSv	O 0 mSv [ped]	5	5	0	1	2	1	11	0	0	0	0
		References		Study	Quality										

		2 (32755376)			4										
		20 (25329763))		3										
		21 (23116728)			2										
Mammography screening	Usually not appropriate	Expert Consensus	�� 0.1-1mSv		1	1	11	3	1	0	0	0	0	0	0
MRI breast without IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	12	1	0	0	0	0	1	0	1
MRI breast without and with IV contrast	Usually not appropriate	Limited	O 0 mSv	O 0 mSv [ped]	1	1	13	1	0	0	1	0	0	0	0
		References		Study	y Quality										
		3 (37708073)			4										
		7 (23345353)			4										
		11 (-3188535)			4										
Digital breast tomosynthesis screening	Usually not appropriate	Expert Consensus	�� 0.1-1mSv		1	1	11	3	1	0	0	0	0	0	0
Sestamibi MBI	Usually not appropriate	Limited	��� 1-10 mSv		1	1	14	0	0	0	0	1	0	0	0
		References		Study	y Quality		•	•			•	!			
		18 (-3197536)			4										
		19 (35523526))		4										
Mammography with IV contrast	Usually not appropriate	Limited	�� 0.1-1mSv		1	1	12	3	0	0	0	0	0	0	0
		References		Study	y Quality		-								
		11 (-3188535)			4										
MRI breast without and with IV contrast abbreviated	Usually not appropriate	Limited	O 0 mSv	O 0 mSv [ped]	1	1	12	2	0	0	1	0	0	0	0
		References		Study	y Quality										
		3 (37708073)			4										
		7 (23345353)			4										
		11 (-3188535)			4										

MRI breast without IV contrast abbreviated	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	12	1	0	0	0	0	1	0	1	
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Variant 3: Pregnant female. Age 25 years or older. Breast cancer screening. Higher-than-average risk.

Decordes	Appropria	ateness	COE	_	D. J. DDI	D - 45	M. 3.			F	inal '	Tabu	latio	ns			
Procedure	Catego	ory	SOE	Adults RRI	L	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
Mammography screening	Usual appropr		Limited	�� 0.1-1m\$	Sv		8	8	0	0	0	1	1	0	2	5	6
			References			Study	Quality										
			2 (32755376)				4		_							_	
Digital breast tomosynthesis screening	Usual appropr		Limited	�� 0.1-1m\$	Sv		8	8	0	0	0	1	1	0	2	5	6
			References			Study	Quality										
			2 (32755376)		4												
			3 (37708073)		4												
			8 (30392595)		4			1	1								
US breast	May bappropr	oe riate	Limited	O 0 mSv		O 0 mSv [ped]	5	5	0	1	0	2	10	2	0	0	0
			References			Study	Quality		•								
			2 (32755376)				4										
			20 (25329763)				3										
			21 (23116728)				2										
MRI breast without IV contrast	Usually appropr		Expert Consensus	O 0 mSv		O 0 mSv [ped]	1	1	12	0	0	1	0	0	1	0	1
MRI breast without and with IV contrast	Usually appropr		Consensus Limited O 0 mSv			O 0 mSv [ped]	1	1	13	1	0	0	0	1	0	0	0
			References			Study	Quality										
			7 (23345353)				4										
			11 (-3188535)				4										

Sestamibi MBI	Usuall approp	Limited	��� 1-1 mSv	0		1	1	13	1	0	0	0	1	0	0	0
		References			Study	Quality										
		18 (-3197536)				4										
,		19 (35523526)				4		_								
Mammography with IV contrast	Usuall approp	Expert Consensus	�� 0.1-1m	nSv		1	1	8	2	2	2	1	0	0	0	0
MRI breast without and with IV contrast abbreviated	Usuall approp	Limited	O 0 mSv	,	O 0 mSv [ped]	1	1	13	1	0	0	0	0	1	0	0
		References			Study	Quality										
		3 (37708073)				4										
		7 (23345353)				4										
		11 (-3188535)				4										
MRI breast without IV contrast abbreviated	Usuall approp	Expert Consensus	O 0 mSv	/	O 0 mSv [ped]	1	1	13	1	1	0	0	0	0	0	0

Variant 4: Pregnant female. Age less than 30 years. Focal pain or palpable breast mass. Initial imaging.

ъ .	Appropri	ateness	COL	4 1 14 DE		D I DDI	.	3.5 31			F	inal '	Tabu	latio	ns		
Procedure	Categ	ory	SOE	Adults RR	KL .	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
US breast	Usua approp		Limited	O 0 mSv	/	O 0 mSv [ped]	9	9	0	0	0	0	0	0	1	0	14
			References 2 (32755376)			Study	Quality										
			2 (32755376)			4											
			2 (32755376) 7 (23345353)				4										
			24 (21343518)				3		_						_		
Mammography diagnostic	Usually approp		Limited & 0.1-1mSv		nSv		1	1	8	4	1	0	1	1	0	0	0
			References			Study	Quality										
			2 (32755376)				4										

		10 (26341843)			4										
		22 (37236740))		4					ı					
MRI breast without IV contrast	Usually nappropria	ot Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	13	0	0	0	0	0	1	0	1
MRI breast without and with IV contrast	Usually nappropria	ot Limited	O 0 mSv	O 0 mSv [ped]	1	1	13	1	0	0	1	0	0	0	0
		References		Study	Quality										
		3 (37708073)			4										
		7 (23345353)													
		11 (-3188535)													
Digital breast tomosynthesis diagnostic	Usually nappropria		& 0.1-1mSv	,	1	1	8	4	1	0	2	0	0	0	0
		References		Study	Quality										
		23 (34798561))		4										
		22 (37236740))		4										
		8 (30392595)			4										
		3 (37708073)			4										
		2 (32755376)			4										
Sestamibi MBI	Usually nappropria		��� 1-10 mSv		1	1	13	1	0	1	0	0	0	0	0
		References		Study	Quality										
		18 (-3197536)			4										
		19 (35523526))		4										
Mammography with IV contrast	Usually nappropria		& 0.1-1mSv	,	1	1	11	2	0	1	1	0	0	0	0
		References		Study	Quality										
		11 (-3188535))		4										

Variant 5: Pregnant female. Age 30 years or older. Focal pain or palpable breast mass. Initial imaging.

	Appropriateness	GOT		Its RRL Peds RRL Rating Medi					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	0	1	0	0	2	2	0	10
		References		Study	y Quality										
		2 (32755376)			4										
		7 (23345353)			4										
		10 (26341843)			4										
		22 (37236740)			4										
Mammography diagnostic	Usually appropriate	Limited	�� 0.1-1mSv		8	8	0	0	0	0	0	4	2	3	6
		References		Study	y Quality										
		2 (32755376)			4										
		22 (37236740)			4										
Digital breast tomosynthesis diagnostic	Usually appropriate	Limited	�� 0.1-1mSv		8	8	0	0	0	0	0	4	2	4	5
		References		Study	y Quality										
		23 (34798561)			4										
		22 (37236740)			4										
		8 (30392595)			4										
		3 (37708073)			4										
		2 (32755376)			4										
MRI breast without IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	13	0	0	0	0	1	0	0	1
MRI breast without and with IV contrast	Usually not appropriate	Limited	O 0 mSv	O 0 mSv [ped]	1	1	13	1	0	0	0	1	0	0	0
		References	Study	y Quality											
		3 (37708073)		4											
		7 (23345353)		4											
		11 (-3188535)			4										

Sestamibi MBI	Usuall approp	Limited	≎≎≎ 1-1 mSv	0		1	1	14	0	0	0	1	0	0	0	0
		References			Study	Quality										
		18 (-3197536)				4										
		19 (35523526)				4										
Mammography with IV contrast	Usuall approp	Limited	�� 0.1-1m	nSv		1	1	10	2	1	1	1	0	0	0	0
		References			Study	Quality										
		11 (-3188535)				4										

Variant 6: Pregnant female. Age less than 30 years. Clinically suspicious nipple discharge. Initial imaging.

.	Appropr	iateness	go r	4 1 14 DD		D 1 DD1	D (1	3.6.31			F	inal '	Tabu	latio	ns		
Procedure	Categ	gory	SOE	Adults RR	KL .	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
US breast	Usua approp		Limited	O 0 mSv	/	O 0 mSv [ped]	9	9	0	0	0	0	0	0	1	2	12
	•		References			Study	Quality										
			2 (32755376)				4										
	_		7 (23345353) Limited				4									_	
Mammography diagnostic	Usuall approp		Limited	�� 0.1-1m	nSv		1	1	9	2	2	0	0	2	0	0	0
			References			Study	Quality										
			2 (32755376)				4										
			10 (26341843)				4										
			22 (37236740)				4		_								
MRI breast without IV contrast	Usuall approp		Expert Consensus	O 0 mSv	/	O 0 mSv [ped]	1	1	13	0	0	1	0	0	0	0	1
MRI breast without and with IV contrast	Usuall approp		Limited	O 0 mSv	/	O 0 mSv [ped]	1	1	13	1	0	0	0	0	1	0	0
			References			Study	Quality									•	

			3 (37708073)				4										
			7 (23345353)				4										
			11 (-3188535)				4										
Digital breast tomosynthesis diagnostic	Usually approp		Limited	�� 0.1-1m	ıSv		1	1	9	2	2	0	0	2	0	0	0
			References			Study	Quality										
			2 (32755376) 3 (37708073) 8 (30392595)				4										
			3 (37708073) 8 (30392595)				4										
			8 (30392595)				4										
			22 (37236740)				4										
			23 (34798561)				4										
Sestamibi MBI	Usually approp	y not riate	Limited	ॐॐ ≎ 1-10 mSv)		1	1	14	0	0	1	0	0	0	0	0
			References			Study	Quality										
			18 (-3197536)				4										
			19 (35523526)				4										
Mammography with IV contrast	Usually approp		Limited	�� 0.1-1m	Sv		1	1	10	2	1	1	0	1	0	0	0
			References			Study	Quality									·	
			11 (-3188535)				4										

Variant 7: Pregnant female. Age 30 years or older. Clinically suspicious nipple discharge. Initial imaging.

D 1	Appropria	ateness	COF	414 DD	, D 1 DD1	D 4	N. 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]	9	9	0	0	0	0	1	1	2	1	10
			Dafaranaaa		Ctud	Onalita										

References	Study Quality
2 (32755376)	4
7 (23345353)	4

Mammography diagnostic	Usually appropriate	Limited	�� 0.1-1mSv		8	8	0	0	0	0	0	1	3	4	7
		References		Study	y Quality		•					•			
		2 (32755376)			4										
		25 (36436958)			4										
Digital breast tomosynthesis diagnostic	Usually appropriate	Limited	�� 0.1-1mSv		8	8	0	0	0	0	0	1	3	4	7
		References		Study	y Quality		•			•		•			
		2 (32755376)			4										
		25 (36436958)	1		4										
		3 (37708073)			4										
		8 (30392595)			4										
		23 (34798561)	(4										
MRI breast without IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	13	0	0	0	1	0	0	0	1
MRI breast without and with IV contrast	Usually not appropriate	Limited	O 0 mSv	O 0 mSv [ped]	1	1	13	1	0	0	0	0	0	1	0
		References		Study	y Quality		•								
		3 (37708073)			4										
		7 (23345353)			4										
		11 (-3188535)			4										
Sestamibi MBI	Usually not appropriate	Limited	≎≎≎ 1-10 mSv		1	1	14	0	0	0	1	0	0	0	0
		References		Study	y Quality										
		18 (-3197536)			4										
		19 (35523526)	ļ.		4										
Mammography with IV contrast	Usually not appropriate	Limited	�� 0.1-1mSv		1	1	10	2	0	2	0	0	1	0	0
		References		Study	y Quality										
		11 (-3188535)			4										

Variant 8: Pregnant female. Newly diagnosed breast cancer. Locoregional staging.

	Appropriateness	go .		D 1 DD1		3.5.11			F	inal '	Tabu	latio	ns		
Procedure	Category	SOE	Adults RRL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
Mammography diagnostic	Usually appropriate	Limited	�� 0.1-1mSv	v	9	9	0	0	0	0	0	0	1	3	11
		References		Study	Quality										
		2 (32755376)			4										
US breast	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	9	9	0	0	0	0	2	1	1	3	8
		References		Study	Quality										
		2 (32755376)			4										
		3 (37708073)			4										
		7 (23345353)			4										
		8 (30392595)			4										
Digital breast tomosynthesis diagnostic	Usually appropriate	Limited	�� 0.1-1mSv	v	9	9	0	0	0	0	0	0	0	4	11
		References		Study	Quality										
		2 (32755376)			4										
		3 (37708073)			4										
		8 (30392595)			4										
		23 (34798561)			4		_								
US axilla	Usually appropriate	Limited	O 0 mSv	O 0 mSv [ped]	9	9	1	0	0	0	0	0	1	5	8
		References		Study	Quality										
		26 (34469221)			4										
		27 (31714846)			4										
MRI breast without IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	12	0	1	0	0	1	0	0	1

MRI breast without and with IV contrast	Usuall approp	y not oriate	Limited	O 0 mSv	O 0 mSv [ped]	1	1	13	1	0	0	0	0	0	0	1
			References		Study	Quality										
			3 (37708073)			4										
			7 (23345353)			4										
			11 (-3188535)			4										
Sestamibi MBI	Usuall approp		Limited	��� 1-10 mSv		1	1	13	0	1	0	1	0	0	0	0
			References		Study	Quality										
			18 (-3197536)			4										
			19 (35523526)			4		_								
Mammography with IV contrast	Usuall approp		19 (35523526) Limited			1	1	9	2	0	1	1	1	0	1	0
			References		Study	Quality										
			11 (-3188535)		<u> </u>	4										

Variant 9: Pregnant female. Breast infection or abscess suspected. Initial imaging.

ъ .	Appropri	ateness	COL	4 1 14 DE		n i nni	D (1	3.6.11			I	inal '	Tabu	latio	ns		
Procedure	Categ	gory	SOE	Adults RF	KL	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
US breast	Usua approp		Limited	O 0 mSv	/	O 0 mSv [ped]	9	9	0	0	0	0	0	0	1	0	14
			References			Study	Quality		•								
			2 (32755376)				4										
	•		7 (23345353)				4										
Mammography diagnostic	May approp	be oriate	Limited	�� 0.1-1n	nSv		6	6	0	0	1	1	4	7	0	1	1
	•		References			Study	Quality		•								
			2 (32755376)				4										

Digital breast tomosynthesis diagnostic	May approp		Limited	�� 0.1-1m§	Sv	6	6	0	0	1	1	4	7	0	1	1
			References		Study	Quality										
			2 (32755376)			4										
MRI breast without IV contrast	Usuall approp		Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	12	1	0	0	1	0	0	0	1
MRI breast without and with IV contrast	Usuall approp	y not oriate	Limited	O 0 mSv	O 0 mSv [ped]	1	1	12	2	0	0	0	0	1	0	0
			References		Study	Quality										
			3 (37708073)			4										
			7 (23345353)			4										
			11 (-3188535)			4										
Sestamibi MBI	Usuall approp		Limited	��� 1-10 mSv		1	1	12	2	0	0	1	0	0	0	0
			References		Study	Quality										
			18 (-3197536)			4										
			19 (35523526)			4										
Mammography with IV contrast	Usuall approp		Limited	�� 0.1-1m§	Sv	1	1	10	4	0	0	0	1	0	0	0
			References		Study	Quality										
			11 (-3188535)			4										

Variant 10: Pregnant female. Palpable breast mass. US findings are probably benign. Next imaging study.

December 1	Appropriate	teness	SOF	A J14- DD1		D. J. DDI	D - 45	M - 1!			·	inal '	Гаbu	latio	ns		
Procedure	Categor		SOE	Adults RR	L	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
US breast	Usually appropria		Limited	O 0 mSv		O 0 mSv [ped]	9	9	0	0	1	0	0	1	2	1	10
			References			Study	Quality										
			2 (32755376)				4										

		7 (23345353)			4										
		28 (32816258)			4										
Image-guided core biopsy breast	Usually not appropriate	Limited	Varies	Varies	2	2	7	5	1	0	1	1	0	0	0
		References		Study	y Quality					•					
		2 (32755376)			4										
Mammography diagnostic	Usually not appropriate	Limited	�� 0.1-1mSv	v	2	2	7	3	2	1	0	2	0	0	0
		References		Study	y Quality										
		2 (32755376)			4										
Image-guided fine needle aspiration breast	Usually not appropriate	Limited	Varies	Varies	1	1	8	4	1	1	1	0	0	0	0
		References		Study	y Quality										
		3 (37708073)			4										
MRI breast without IV contrast	Usually not appropriate	Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	13	0	0	0	1	0	0	0	1
MRI breast without and with IV contrast	Usually not appropriate	Limited	O 0 mSv	O 0 mSv [ped]	1	1	13	1	0	0	0	0	1	0	0
		References		Study	y Quality		<u> </u>				•	•			
		3 (37708073)			4										
		7 (23345353)			4										
		11 (-3188535)			4			1							
Digital breast tomosynthesis diagnostic	Usually not appropriate	Limited	�� 0.1-1mSv	v	1	1	8	2	2	1	0	2	0	0	0
		References		Study	y Quality										
		2 (32755376)			4										
		3 (37708073)			4										
		8 (30392595)			4										
		23 (34798561)			4										

US axilla	Usually approp	Expert Consensus	O 0 mSv	/	O 0 mSv [ped]	1	1	13	1	0	0	1	0	0	0	0
Sestamibi MBI	Usually approp	Limited	��� 1-1 mSv	0		1	1	14	0	0	0	1	0	0	0	0
		References			Study	Quality										
		18 (-3197536)				4										
		19 (35523526)				4										
Mammography with IV contrast	Usually approp	Limited	�� 0.1-1m	ıSv		1	1	10	2	2	0	0	0	1	0	0
		References			Study	Quality										
		11 (-3188535)				4										

Variant 11: Pregnant female. Palpable breast mass. US findings are suspicious or highly suggestive of malignancy. Next imaging study.

, , ,	Appropriateness	COL	, , , , , , , , , , , , , , , , , , ,	_	D I DDI	D	3.6.11			F	inal	Tabu	latio	ns		
Procedure	Category	SOE	Adults RRI	L	Peds RRL	Rating	Median	1	2	3	4	5	6	7	8	9
Image-guided core biopsy breast	Usually appropriate	Limited	Varies		Varies	9	9	0	0	0	0	0	0	1	2	12
		References			Study	Quality										
		2 (32755376)				4										
Mammography diagnostic	Usually appropriate	Limited	�� 0.1-1m\$	Sv		9	9	0	0	0	0	0	2	1	3	9
		References			Study	Quality										
		2 (32755376)				4		_								
Digital breast tomosynthesis diagnostic	Usually appropriate	Limited	�� 0.1-1m\$	Sv		9	9	0	0	0	0	0	1	1	3	10
		References			Study	Quality										
		2 (32755376)				4										
		3 (37708073)				4										
		8 (30392595)				4										

		23 (34798561)			4											
US axilla	Usual appropr		Expert Consensus	O 0 mSv	O 0 mSv [ped]	9	9	0	0	0	0	0	2	2	3	8
US breast	Usually appropriate		Limited	O 0 mSv	O 0 mSv [ped]	8	8	1	0	0	0	3	1	1	2	7
		References			Study Quality											
			2 (32755376)		4											
		7 (23345353)			4					1			1			
Image-guided fine needle aspiration breast	May l appropr		Limited	Varies	Varies	5	5	1	0	0	4	9	0	1	0	0
			References		Study Quality											
		3 (37708073)			4											
MRI breast without IV contrast	Usually appropr		Expert Consensus	O 0 mSv	O 0 mSv [ped]	1	1	12	0	1	0	1	0	0	0	1
MRI breast without and with IV contrast	Usually appropr		Limited	O 0 mSv	O 0 mSv [ped]	1	1	13	1	0	0	0	0	0	0	1
		References			Study Quality											
		3 (37708073)			4											
		7 (23345353)			4											
		11 (-3188535)			4					1						
Sestamibi MBI	Usually appropr		Limited	≎≎≎ 1-10 mSv		1	1	14	0	0	0	1	0	0	0	0
		References			Study Quality											
		18 (-3197536)			4											
		19 (35523526)			4											
Mammography with IV contrast	Usually appropr		Limited	⊕⊕ 0.1-1mS	Sv	1	1	10	2	0	0	2	1	0	0	0
		References 11 (-3188535)			Study Quality											
					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.