

**Table E1. Results of the 2AFC Detection Experiment Showing the Number of Detected Lesions for Each Reader, Reconstruction Algorithm, and Radiation Dose Level**

Reader and Reconstruction Algorithm	Radiation Dose						All
	12.5%	25%	37.5%	50%	75%	100%	
1							
FBP	62/105 (59)	65/105 (62)	71/105 (68)	76/105 (72)	69/105 (66)	72/105 (69)	415/630 (66)
SAFIRE5	64/105 (61)	62/105 (59)	62/105 (59)	72/105 (69)	64/105 (61)	75/105 (71)	399/630 (63)
2							
FBP	62/105 (59)	66/105 (63)	63/105 (60)	70/105 (67)	62/105 (59)	75/105 (71)	398/630 (63)
SAFIRE5	62/105 (59)	67/105 (64)	67/105 (64)	68/105 (65)	77/105 (73)	80/105 (76)	421/630 (67)
3							
FBP	64/105 (61)	73/105 (70)	76/105 (72)	80/105 (76)	74/105 (70)	80/105 (76)	447/630 (71)
SAFIRE5	70/105 (67)	71/105 (68)	73/105 (70)	78/105 (74)	81/105 (77)	79/105 (75)	452/630 (72)
4							
FBP	75/105 (71)	81/105 (77)	88/105 (84)	88/105 (84)	96/105 (91)	98/105 (93)	526/630 (83)
SAFIRE5	75/105 (71)	90/105 (86)	91/105 (87)	91/105 (87)	98/105 (93)	99/105 (94)	544/630 (86)
5							
FBP	61/105 (58)	78/105 (74)	75/105 (71)	78/105 (74)	90/105 (86)	85/105 (81)	467/630 (74)
SAFIRE5	61/105 (58)	65/105 (62)	76/105 (72)	68/105 (65)	81/105 (77)	81/105 (77)	432/630 (69)
6							
FBP	74/105 (70)	79/105 (75)	83/105 (79)	83/105 (79)	94/105 (90)	87/105 (83)	500/630 (79)
SAFIRE5	75/105 (71)	86/105 (82)	86/105 (82)	89/105 (85)	94/105 (90)	91/105 (87)	521/630 (83)
7							
FBP	65/105 (62)	84/105 (80)	85/105 (81)	85/105 (81)	86/105 (82)	80/105 (76)	485/630 (77)
SAFIRE5	70/105 (67)	74/105 (70)	77/105 (73)	82/105 (78)	88/105 (84)	90/105 (86)	481/630 (76)
8							
FBP	64/105 (61)	77/105 (73)	84/105 (80)	82/105 (78)	93/105 (89)	92/105 (88)	492/630 (78)
SAFIRE5	72/105 (69)	82/105 (78)	81/105 (77)	83/105 (79)	91/105 (87)	99/105 (94)	508/630 (81)
9							
FBP	59/105 (56)	65/105 (62)	67/105 (64)	66/105 (63)	66/105 (63)	64/105 (61)	387/630 (61)

SAFIRE5	66/105 (63)	68/105 (65)	73/105 (70)	73/105 (70)	79/105 (75)	68/105 (65)	427/630 (68)
10							
FBP	74/105 (70)	64/105 (61)	72/105 (69)	71/105 (68)	76/105 (72)	69/105 (66)	426/630 (68)
SAFIRE5	56/105 (53)	64/105 (61)	65/105 (62)	72/105 (69)	68/105 (65)	75/105 (71)	400/630 (63)
11							
FBP	69/105 (66)	72/105 (69)	78/105 (74)	87/105 (83)	84/105 (80)	84/105 (80)	474/630 (75)
SAFIRE5	72/105 (69)	83/105 (79)	86/105 (82)	79/105 (75)	92/105 (88)	91/105 (87)	503/630 (80)
12							
FBP	70/105 (67)	86/105 (82)	81/105 (77)	79/105 (75)	90/105 (86)	90/105 (86)	496/630 (79)
SAFIRE5	71/105 (68)	84/105 (80)	92/105 (88)	93/105 (89)	95/105 (90)	93/105 (89)	528/630 (84)
13							
FBP	66/105 (63)	77/105 (73)	79/105 (75)	92/105 (88)	92/105 (88)	93/105 (89)	499/630 (79)
SAFIRE5	81/105 (77)	70/105 (67)	82/105 (78)	80/105 (76)	88/105 (84)	94/105 (90)	495/630 (79)
14							
FBP	69/105 (66)	68/105 (65)	66/105 (63)	77/105 (73)	77/105 (73)	80/105 (76)	437/630 (69)
SAFIRE5	77/105 (73)	79/105 (75)	81/105 (77)	69/105 (66)	78/105 (74)	86/105 (82)	470/630 (75)
15							
FBP	78/105 (74)	75/105 (71)	86/105 (82)	79/105 (75)	88/105 (84)	93/105 (89)	499/630 (79)
SAFIRE5	76/105 (72)	80/105 (76)	82/105 (78)	85/105 (81)	84/105 (80)	94/105 (90)	501/630 (80)
16							
FBP	72/105 (69)	67/105 (64)	65/105 (62)	84/105 (80)	76/105 (72)	79/105 (75)	443/630 (70)
SAFIRE5	64/105 (61)	66/105 (63)	65/105 (62)	69/105 (66)	85/105 (81)	84/105 (80)	433/630 (69)
All							
FBP	1084/1680 (65)	1177/1680 (70)	1219/1680 (73)	1277/1680 (76)	1313/1680 (78)	1321/1680 (79)	7391/10080 (73)
SAFIRE5	1112/1680 (66)	1191/1680 (71)	1239/1680 (74)	1251/1680 (74)	1343/1680 (80)	1379/1680 (82)	7515/10080 (75)

Note.—Data are raw data, with percentages in parentheses.

