

Supplemental Table 1. Outcome comparison by treatment

Year	Outcome	<i>CF-WBI</i>		<i>HF-WBI</i>		P
		N	Mean (95 CI)	N	Mean (95 CI)	
0	BCTOS cosmetic	144	1.51 (1.44-1.58)	133	1.55 (1.47-1.63)	0.48
	BCTOS functional	148	1.21 (1.15-1.27)	135	1.29 (1.21-1.37)	0.15
	BCTOS pain	148	1.66 (1.56-1.76)	134	1.53 (1.44-1.62)	0.07
	FACT-B SWB	149	24.36 (23.65-25.07)	138	25.12 (24.35-25.89)	0.16
	FACT-B EWB	148	20.42 (19.98-20.86)	138	20.46 (19.9-21.02)	0.92
	FACT-B TOI	148	74.03 (72.23-75.83)	138	74.51 (72.56-76.46)	0.72
	Body Image Scale	140	3.21 (2.56-3.86)	133	3.22 (2.50-3.94)	0.98
	MD cosmesis	149	1.54 (1.43-1.65)	138	1.50 (1.40-1.60)	0.63
0.5	BCTOS cosmetic	141	1.79 (1.69-1.89)	126	1.76 (1.67-1.85)	0.58
	BCTOS functional	142	1.40 (1.30-1.50)	128	1.29 (1.21-1.37)	0.10
	BCTOS pain	142	1.74 (1.63-1.85)	127	1.72 (1.60-1.84)	0.78
	FACT-B SWB	140	24.64 (23.91-25.37)	129	24.83 (24.04-25.62)	0.73
	FACT-B EWB	140	21.1 (20.58-21.62)	129	21.28 (20.78-21.78)	0.63
	FACT-B TOI	139	76.68 (75.01-78.35)	129	78.34 (76.61-80.07)	0.18

1	Body Image Scale	135	2.62 (1.96-3.28)	126	2.94 (2.21-3.67)	0.53
	MD cosmesis	142	1.76 (1.64-1.88)	130	1.86 (1.73-1.99)	0.26
	BCTOS cosmetic	133	1.78 (1.69-1.87)	121	1.77 (1.68-1.86)	0.84
	BCTOS functional	138	1.26 (1.18-1.34)	119	1.24 (1.17-1.31)	0.63
	BCTOS pain	138	1.64 (1.54-1.74)	120	1.59 (1.48-1.70)	0.52
	FACT-B SWB	137	24.07 (23.21-24.93)	122	24.99 (24.15-25.83)	0.14
	FACT-B EWB	138	21.3 (20.76-21.84)	122	21.49 (21.02-21.96)	0.60
	FACT-B TOI	137	78.02 (76.37-79.67)	122	78.23 (76.58-79.88)	0.87
	Body Image Scale	132	2.46 (1.83-3.09)	119	3.33 (2.46-4.20)	0.11
	MD cosmesis	139	1.76 (1.64-1.88)	120	1.93 (1.79-2.07)	0.08
2	BCTOS cosmetic	129	1.79 (1.70-1.88)	113	1.71 (1.61-1.81)	0.24
	BCTOS functional	130	1.27 (1.19-1.35)	114	1.25 (1.16-1.34)	0.70
	BCTOS pain	130	1.64 (1.54-1.74)	114	1.56 (1.44-1.68)	0.37
	FACT-B SWB	132	24.09 (23.16-25.02)	116	24.78 (23.91-25.65)	0.29
	FACT-B EWB	132	21.38 (20.91-21.85)	116	21.33 (20.72-21.94)	0.89
	FACT-B TOI	132	76.33 (74.38-78.28)	116	79.32 (77.53-81.11)	0.029
	Body Image Scale	127	3.52 (2.76-4.28)	113	2.95 (2.12-3.78)	0.32

	MD cosmesis	128	1.91 (1.78-2.04)	112	1.87 (1.72-2.02)	0.63
3	BCTOS cosmetic	112	1.8 (1.69-1.91)	99	1.73 (1.62-1.84)	0.36
	BCTOS functional	113	1.25 (1.17-1.33)	102	1.23 (1.16-1.30)	0.71
	BCTOS pain	113	1.64 (1.52-1.76)	102	1.58 (1.46-1.70)	0.51
	FACT-B SWB	113	23.52 (22.53-24.51)	102	24.07 (22.94-25.20)	0.47
	FACT-B EWB	113	21.58 (21.11-22.05)	102	20.66 (20.05-21.27)	0.018
	FACT-B TOI	113	77.66 (75.88-79.44)	102	77.89 (76.02-79.76)	0.87
	Body Image Scale	108	2.78 (2.09-3.47)	99	3.23 (2.35-4.11)	0.42
	MD cosmesis	111	1.86 (1.71-2.01)	98	1.92 (1.74-2.10)	0.59
4	BCTOS cosmetic	107	1.79 (1.67-1.91)	94	1.74 (1.63-1.85)	0.63
	BCTOS functional	107	1.24 (1.15-1.33)	93	1.28 (1.18-1.38)	0.59
	BCTOS pain	107	1.59 (1.46-1.72)	94	1.56 (1.45-1.67)	0.72
	FACT-B SWB	109	23.32 (22.14-24.5)	93	24.84 (23.95-25.73)	0.05
	FACT-B EWB	109	20.79 (20.21-21.37)	93	21.42 (20.88-21.96)	0.13
	FACT-B TOI	109	77.43 (75.53-79.33)	93	79.35 (77.55-81.15)	0.16

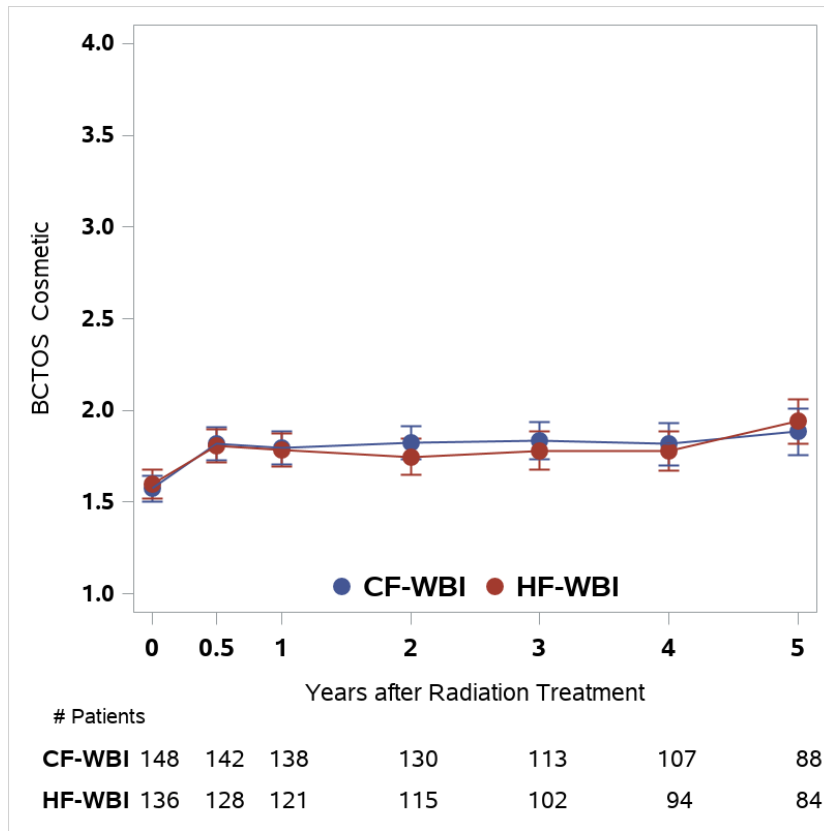
5	Body Image Scale	106	2.94 (2.17-3.71)	91	2.85 (2.04-3.66)	0.86
	MD cosmesis	108	1.94 (1.77-2.11)	92	2.08 (1.88-2.28)	0.32
	BCTOS cosmetic	88	1.86 (1.73-1.99)	83	1.90 (1.77-2.03)	0.69
	BCTOS functional	88	1.30 (1.19-1.41)	84	1.26 (1.16-1.36)	0.67
	BCTOS pain	88	1.62 (1.46-1.78)	84	1.59 (1.45-1.73)	0.75
	FACT-B SWB	89	23.98 (22.89-25.07)	84	24.39 (23.16-25.62)	0.62
	FACT-B EWB	89	21.35 (20.73-21.97)	84	21.39 (20.75-22.03)	0.92
	FACT-B TOI	89	78.93 (77.03-80.83)	84	78.94 (76.69-81.19)	1.0
	Body Image Scale	85	2.91 (2.2-3.62)	82	2.94 (2.14-3.74)	0.95
MD cosmesis	82	2.00 (1.80-2.20)	81	2.19 (1.98-2.40)	0.20	

CF-WBI = conventionally fractionated whole breast irradiation, HF-WBI = hypofractionated whole breast irradiation, CI = confidence interval, BCTOS = Breast Cancer Treatment Outcome Scale, FACT-B = Functional Assessment of Cancer Therapy-Breast, SWB = social well-being, EWB = emotional well-being, TOI = Trial Outcome Index, MD cosmesis = physician-rated cosmesis.

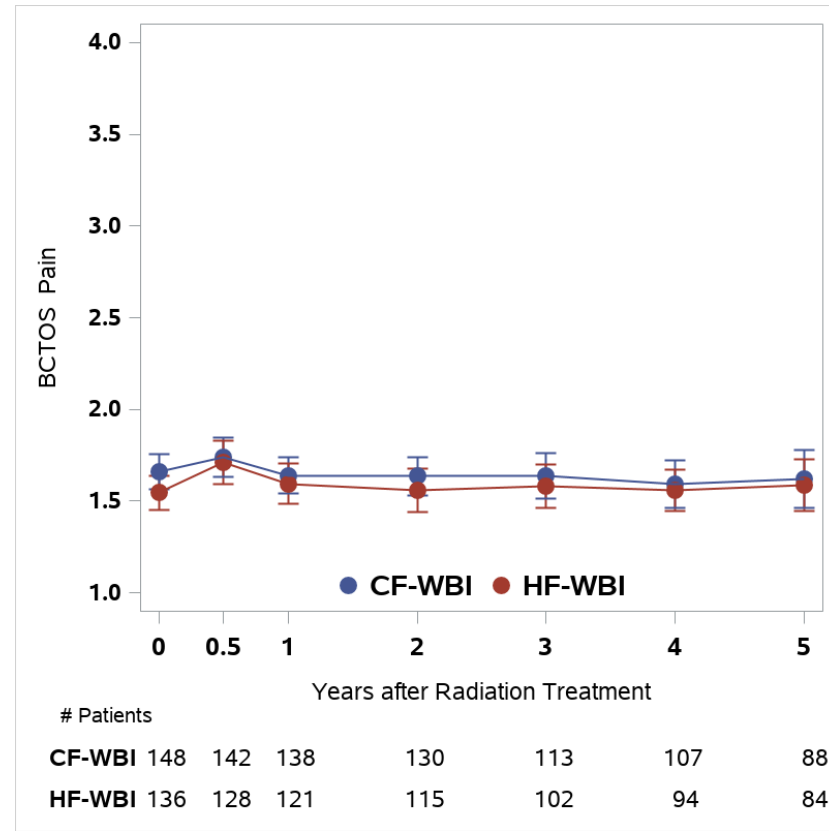


# Supplemental Figure 1. Outcomes Over Time

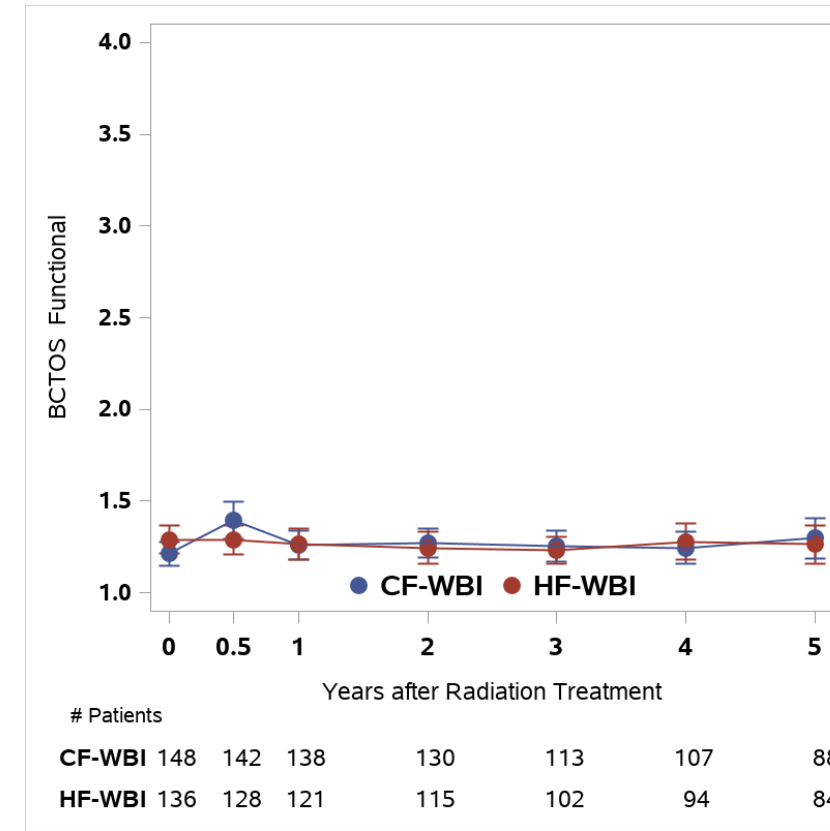
**A**



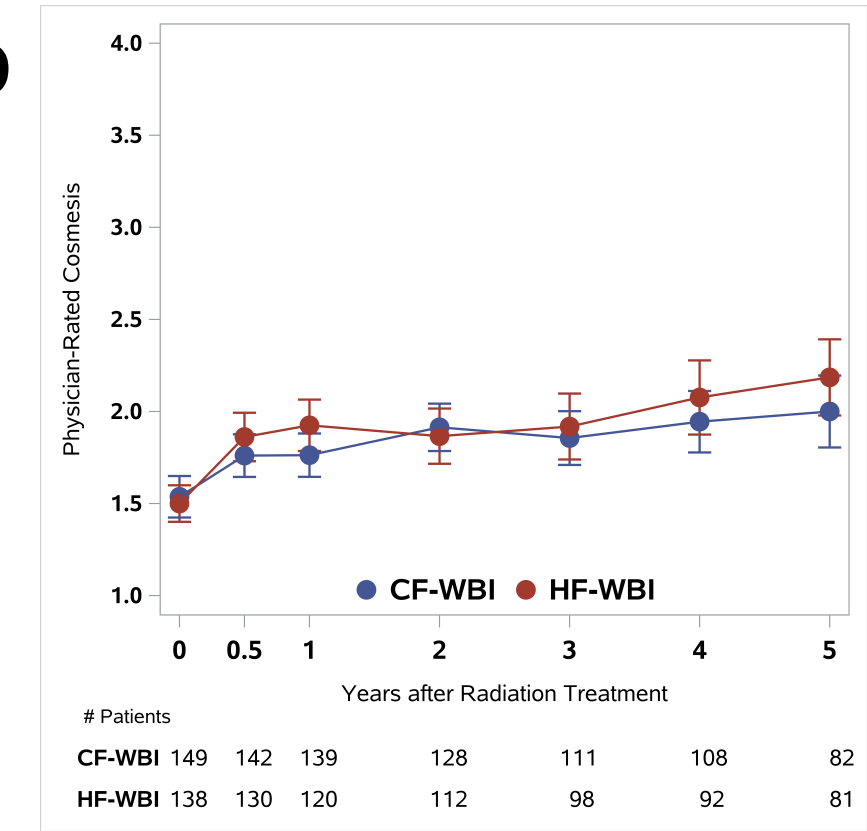
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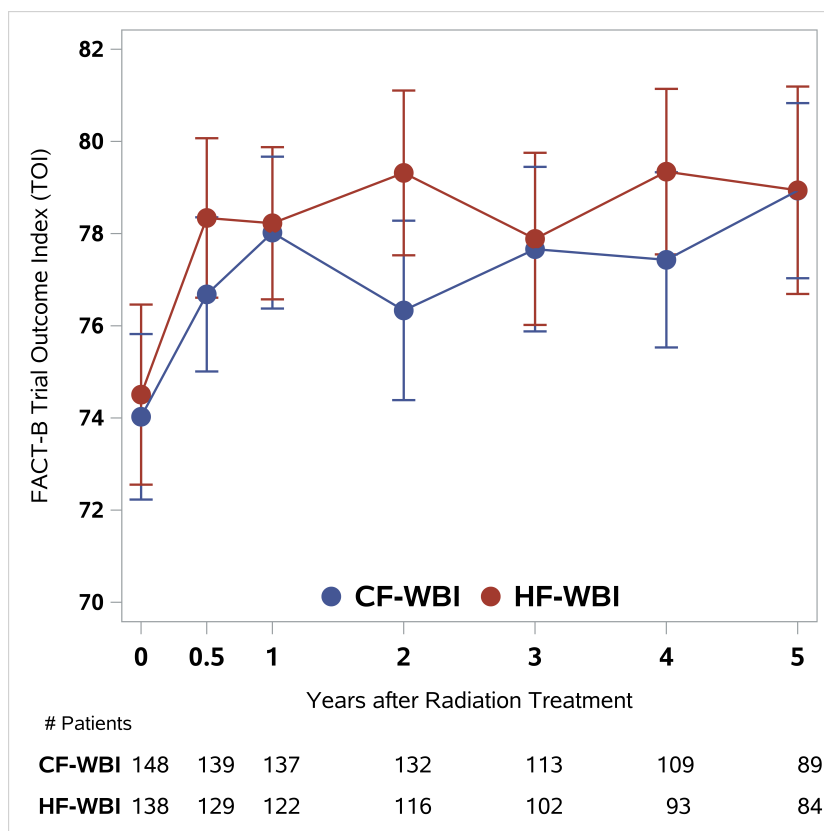
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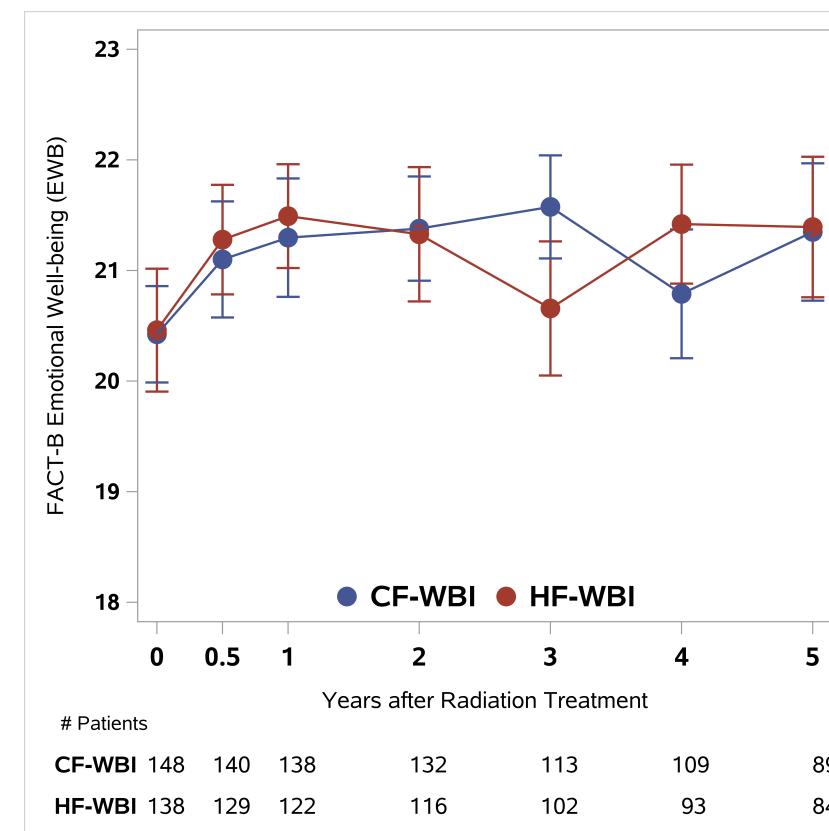
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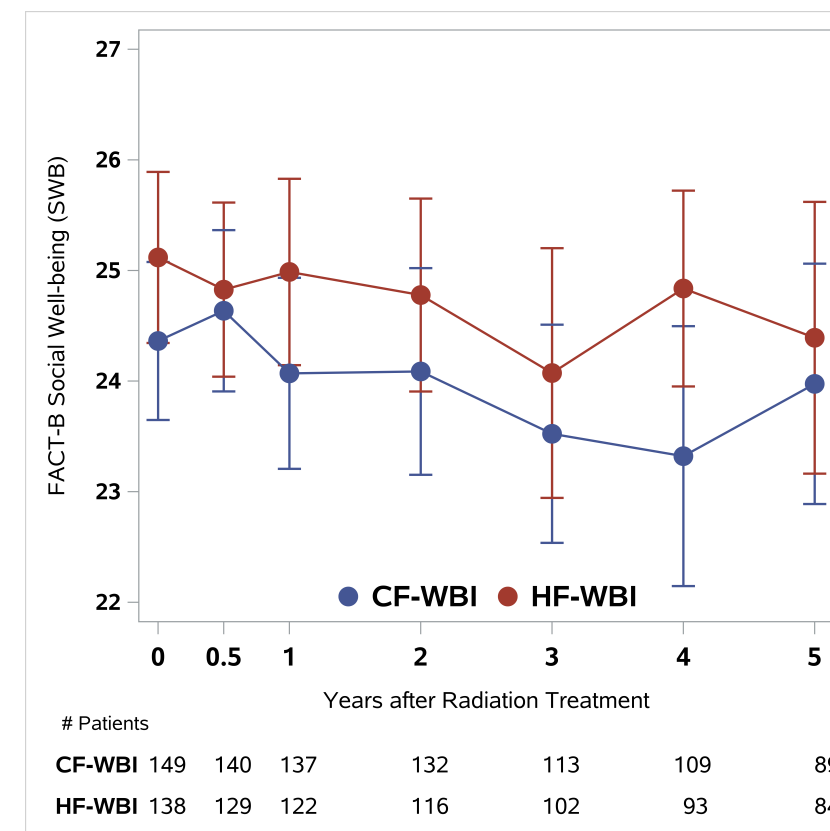
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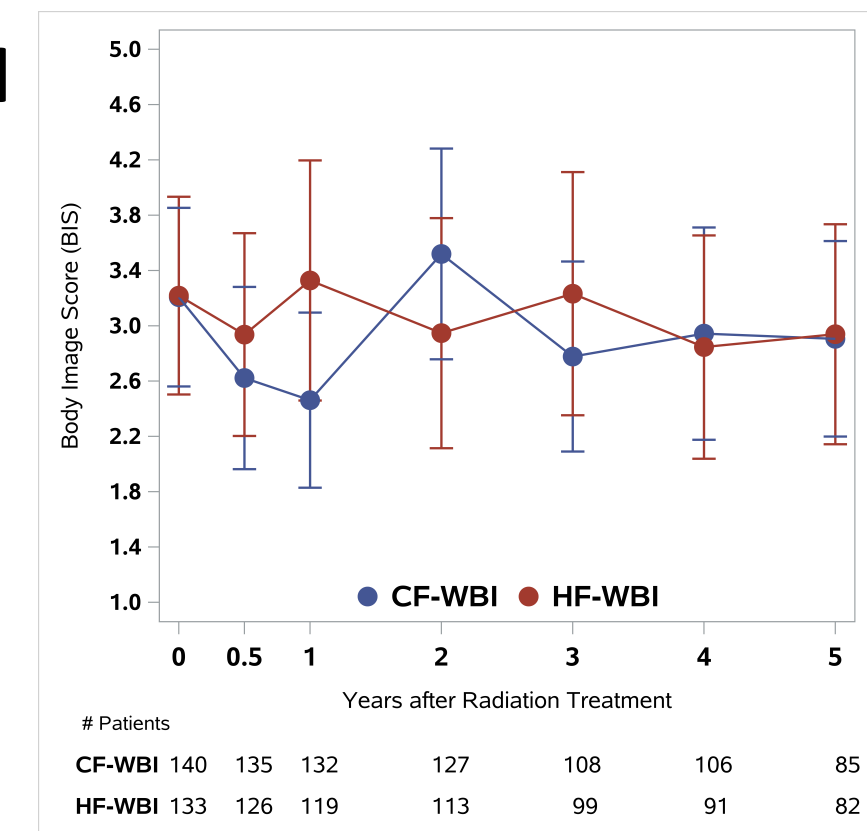
**F**



**G**



**H**



- A. Breast Cancer Treatment Outcome Scale (BCTOS) measure of cosmetic status. Lower scores indicate better outcome.
- B. BCTOS measure of breast pain. Lower scores indicate better outcome.
- C. BCTOS measure of functional status. Lower scores indicate better outcome.
- D. Physician-rated cosmesis. Lower scores indicate better outcome.
- E. Functional Assessment of Cancer Therapy-Breast (FACT-B) Trial Outcome Index. A higher score indicates a better outcome.
- F. FACT-B Emotional Well-being. A higher score indicates a better outcome.
- G. FACT-B Social Well-being. A higher score indicates a better outcome.
- H. Body Image Scale measure of body image status. Lower scores indicate better outcome.

Mean scores with 95% confidence intervals at baseline; 6 months; and 1, 2, 3, 4, and 5 years.  
 CF-WBI = conventionally fractionated whole-breast irradiation, HF-WBI = hypofractionated whole-breast irradiation.