Original Article

Objective Measurement of Cosmetic Outcomes of Breast Conserving Therapy Using BCCT.core

Tosol Yu, MD[1], **Keun-Yong Eom,** MD, PhD[1], **Na Young Jang,** MD, PhD[1], **Kyung Su Kim,** MD[1], **Tae Ryool Koo,** MD[1], **Jeanny Kwon,** MD[1], **Byoung Hyuck Kim,** MD[1], **Eunyoung Kang,** MD, PhD[2], **Sung-Won Kim,** MD, PhD[2], **Jae-Sung Kim,** MD, PhD[1], **In Ah Kim,** MD, PhD[1]

Departments of [1]Radiation Oncology and [2]Surgery, Seoul National University Bundang Hospital, Seongnam, Korea

Supplementary Data

Supplementary Table 1. Cosmetic outcome by BCCT.core

	Definition	Excellent or good (n=42)	Fair (n=9)
BRA (cm)	$\sqrt{(X_1-X_2)^2+(Y_1-Y_2)^2}$	1.8 (0-4.6)	3.2 (0.7-5.7)
LBC (cm)	$|(Y_1+NI_1)-(Y_2+NI_2)|$	0.9 (0-2.7)	2.1 (0.2-3.9)
UNR (cm)	$|Y_1-Y_2|$	1.5 (0-4.3)	2.3 (0.4-5.4)
BCE (cm)	$|NI_1-NI_2|$	0.95 (0-3.5)	1.4 (0.1-3.6)
BCD (cm)	$|C_{right}-C_{left}|$	1.75 (0.1-3.9)	3.3 (0.1-7.2)
BAD (cm^2)	$|A_{right}-A_{left}|$	15.0 (0-41.5)	22.3 (1.3-70.2)
BOD (cm^2)	$|O_{right}-O_{left}|$	30.8 (12-60.5)	44.6 (24.5-72.6)

BRA, breast retraction assessment; LBC, lower breast contour; UNR, upward nipple retraction; BCE, breast compliance evaluation; BCD, breast contour difference; BAD, breast area difference; BOD, breast overlap difference; C, breast contour; A, breast area; O, breast overlapping area.