

## Supplementary material

**Table i.** The corresponding grading according to Moran's criteria in all the groups at different time points ( $\bar{X} \pm S$ )

Groups	n	Moran's criteria	
		12 weeks after surgery	24 weeks after surgery
Control	6	3.35±0.21 <sup>#△</sup>	3.89±0.22 <sup>#△</sup>
BA	6	3.85±0.21 <sup>*△</sup>	4.45±0.22 <sup>*△</sup>
CBA	6	4.36±0.22 <sup>*#</sup>	4.98±0.23 <sup>*#</sup>
Auto	6	4.48±0.23 <sup>*#</sup>	5.12±0.22 <sup>*#</sup>

Analysis of variance (ANOVA) analysis and least-significant differences (LSD) test. Compared with control group, \* $p < 0.05$ ; compared with BA group, # $p < 0.05$ , compared with CBA group, + $p < 0.05$ .

**Table ii.** Results of Wakitani histological scoring ( $\bar{X} \pm S$ )

Groups	n	Wakitani histological scoring	
		12 weeks after surgery	24 weeks after surgery
Control	6	7.08±0.33 <sup>#△</sup>	6.12±0.31 <sup>#△</sup>
BA	6	6.26±0.32 <sup>*△</sup>	5.37±0.33 <sup>*△</sup>
CBA	6	5.12±0.29 <sup>*#</sup>	4.41±0.32 <sup>*#</sup>
Auto	6	4.97±0.31 <sup>*#</sup>	4.26±0.29 <sup>*#</sup>

Analysis of variance (ANOVA) analysis and least-significant differences (LSD) test. Compared with control group, \* $p < 0.05$ ; compared with BA group, # $p < 0.05$ , compared with CBA group, + $p < 0.05$ .