Supplementary

Appendix 1

Supplementary Result S1

The SPSS software results of R2 and SEE of the linear regression between the VNCa slopes and QCT-BMD of the vertebrae. SEE, standard error of estimate; VNCa, virtual non-calcium; QCT, quantitative computed tomography; BMD, bone mineral density

1. The results of linear regression between $\lambda 1$ and QCT-BMD

Variables Entered/Removed					
Model Variables Entered Variables Removed Method					
1	λ1		Enter		

		Model Summary		
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	0.957	0.916	0.916	11.91368

			ANOVA			
Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1024513.767	1	1024513.767	7218.156	0.000
	Residual	94245.275	665	141.936		
	Total	1118759.042	666			

	Coefficients						
	adal	Unstandardize	ed Coefficients Standardized Coefficients			Ci~	
IVI	odel	В	Std. Error	Beta	τ	Sig.	
1	(Constant)	-7.324	1.578		-4.642	.000	
	λ1	19.743	0.232	0.957	84.960	.000	

2. The results of linear regression between $\lambda 2$ and QCT-BMD

Variables Entered/Removed						
Model	Variables Entered Variables Removed Method					
1	λ2		Enter			

		Model Summary		
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	0.957	0.916	0.916	11.91257

			ANOVA			
Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1024531.174	1	1024531.174	7219.613	0.000
	Residual	94227.868	665	141.909		
	Total	1118759.042	666			

	Coefficients							
Madal		Unstandardiz	Unstandardized Coefficients Standardized Coefficients		_	0:		
Model	_	В	Std. Error	Beta	τ	Sig.		
1	(Constant)	-7.326	1.578		-4.643	0.000		
	λ2	34.161	0.402	0.957	84.968	0.000		

3. The results of linear regression between $\lambda 3$ and QCT-BMD

Variables Entered/Removed					
Model	Variables Entered	Variables Removed	Method		
1	λЗ	·	Enter		

		Model Summary		
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	0.957	0.916	0.916	11.91042

			ANOVA			
Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1024565.268	1	1024565.268	7222.466	0.000
	Residual	94193.774	665	141.858		
	Total	1118759.042	666			

	Coefficients							
Model —		Unstandardiz	Unstandardized Coefficients Standardized Coefficients			Ci-		
IVIOC	jei	В	Std. Error	Beta	τ	Sig.		
1	(Constant)	-7.330	1.577		-4.647	.000		
	λЗ	62.846	0.739	0.957	84.985	.000		

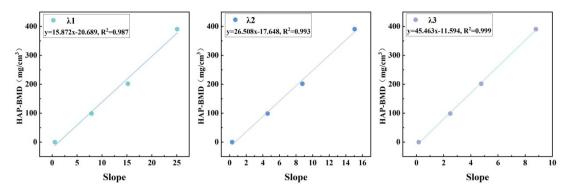


Figure S1 Scatter plots and linear regression equations of slopes ($\lambda 1$, $\lambda 2$, and $\lambda 3$) vs. HAP-BMD of the inserts. HAP, hydroxyapatite; BMD, bone mineral density.