





Correlation between bone parameters and PIS (ITV)

First author (Year)





Correlation
Coefficient [95% CI]

Bone density (HU)



Location of the measure

Schnitman (2011)	Inside implant		0.72 [0.57, 0.82]
Arisan (2012)	Inside implant		0.11 [-0.08, 0.29]
Arisan (2012)	Surrounding implant		0.25 [0.06, 0.42]
Hakim (2019)	Cancellous bone		0.30 [0.18, 0.40]
RE model for HU (Q = 24.09, p < .01; I ² = 92.2%, τ ² = 0.10)			0.37 [0.06, 0.61]

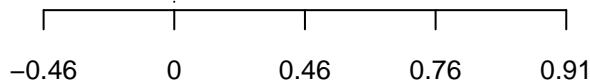
Bone density (GV)

Arisan (2012)	Surrounding implant		0.21 [0.02, 0.38]
Cortes (2015)	Inside implant		0.18 [-0.19, 0.50]
Hakim (2019)	Cancellous bone		0.33 [0.22, 0.43]
Triches (2019)	Overall		0.68 [0.48, 0.81]
RE model for GV (Q = 11.95, p < .01; I ² = 82.6%, τ ² = 0.06)			0.37 [0.12, 0.57]

Cortical thickness (CT)

Cortes (2015)	Crestal bone		0.61 [0.32, 0.79]
Bruno (2018)	Crestal bone		0.20 [0.08, 0.31]
RE model for CT (Q = 6.56, p = 0.01; I ² = 84.7%, τ ² = 0.11)			0.40 [-0.07, 0.72]

Overall multivariate model with RVE (only intercept) (Q = 61.74, p < .01; σ ^{2.1} = 0.05; σ ^{2.2} = 0.03; p(est) < .001)			0.42 [0.21, 0.59]
Multivariate model with RVE (bone parameter) (Q = 61.53, p < .01; σ ^{2.1} = 0.18; σ ^{2.2} = 0.00; p(est) = 0.069)			0.33 [-0.04, 0.62]
Multivariate model with RVE (implants per patient) (Q = 58.01, p < .01; σ ^{2.1} = 0.07; σ ^{2.2} = 0.03; p(est) = 0.238)			0.53 [-0.09, 0.86]



Correlation Coefficient