

Article title: Regional changes in density and microarchitecture in the ultradistal tibia of female recruits after U.S. Army Basic Combat Training

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Supplementary Table 1 Absolute change, percentage change, and significance of change of density and microarchitectural parameters in the lateral sector. Each absolute change is presented as a mean difference (with the 95% confidence interval [CI] in parentheses). Each percentage change is presented as a mean (with one standard error [SE] of the mean in parentheses).

	Absolute change (95% CI)	% change (SE)	p-value
<i>Volumetric bone mineral density (mgHA/cm³)</i>			
Tt.vBMD	1.95 (0.67, 3.23)	0.92 (0.31)	0.0033
Tb.vBMD	1.35 (0.18, 2.52)	0.82 (0.37)	0.0239
Ct.vBMD	-2.21 (-6.51, 2.08)	-0.21 (0.26)	0.3092
<i>Trabecular microarchitectural parameters</i>			
Tb.BV/TV	0.002 (0.000, 0.003)	0.70 (0.37)	0.0524
Tb.N (1/mm)	0.016 (-0.002, 0.033)	1.01 (0.51)	0.0722
Tb.Th (mm)	0.001 (0.000, 0.045)	0.53 (0.21)	0.0201
Tb.Sp (mm)	-0.004 (-0.009, -0.001)	-0.74 (0.40)	0.0459
<i>Cortical microarchitectural parameters</i>			
Ct.Po (%)	0.002 (0.001, 0.003)	0.17 (0.08)	0.0319
Ct.Th (mm)	0.005 (-0.006, 0.016)	0.97 (0.70)	0.3491

Supplementary Table 2 Absolute change, percentage change, and significance of change of density and microarchitectural parameters in the posterior sector. Each absolute change is presented as a mean difference (with the 95% confidence interval [CI] in parentheses). Each percentage change is presented as a mean (with one standard error [SE] of the mean in parentheses).

	Absolute change (95% CI)	% change (SE)	p-value
<i>Volumetric bone mineral density (mgHA/cm³)</i>			
Tt.vBMD	4.54 (3.97, 5.32)	1.87 (0.27)	<0.0001
Tb.vBMD	1.96 (1.01, 2.91)	1.09 (0.27)	<0.0001
Ct.vBMD	3.82 (-0.32, 7.97)	0.51 (0.27)	0.0707
<i>Trabecular microarchitectural parameters</i>			
Tb.BV/TV	0.003 (0.001, 0.004)	1.16 (0.29)	<0.0001
Tb.N (1/mm)	0.012 (-0.006, 0.030)	0.81 (0.50)	0.1803
Tb.Th (mm)	0.002 (0.001, 0.003)	0.75 (0.21)	0.0009
Tb.Sp (mm)	-0.003 (-0.007, 0.001)	-0.51 (0.39)	0.1141
<i>Cortical microarchitectural parameters</i>			
Ct.Po (%)	0.001 (0.000, 0.002)	0.06 (0.08)	0.4744
Ct.Th (mm)	0.026 (0.019, 0.033)	4.01 (0.54)	<0.0001

Supplementary Table 3 Absolute change, percentage change, and significance of change of density and microarchitectural parameters in the medial sector. Each absolute change is presented as a mean difference (with the 95% confidence interval [CI] in parentheses). Each percentage change is presented as a mean (with one standard error [SE] of the mean in parentheses).

	Absolute change (95% CI)	% change (SE)	p-value
<i>Volumetric bone mineral density (mgHA/cm³)</i>			
Tt.vBMD	5.54 (2.04, 9.05)	2.66 (0.63)	0.0017
Tb.vBMD	3.58 (0.40, 6.75)	2.26 (0.67)	0.0275
Ct.vBMD	6.99 (3.39, 10.61)	0.88 (0.23)	0.0002
<i>Trabecular microarchitectural parameters</i>			
Tb.BV/TV	0.005 (0.000, 0.009)	2.22 (0.66)	0.0383
Tb.N (1/mm)	0.005 (-0.010, 0.020)	0.37 (0.43)	0.4967
Tb.Th (mm)	0.004 (0.002, 0.006)	1.76 (0.42)	0.0004
Tb.Sp (mm)	-0.002 (-0.006, 0.002)	-0.19 (0.43)	0.4520
<i>Cortical microarchitectural parameters</i>			
Ct.Po (%)	-0.000 (-0.002, 0.001)	-0.03 (0.09)	0.7290
Ct.Th (mm)	0.021 (0.013, 0.030)	4.10 (0.80)	<0.0001

Supplementary Table 4 Absolute change, percentage change, and significance of change of density and microarchitectural parameters in the anterior sector. Each absolute change is presented as a mean difference (with the 95% confidence interval [CI] in parentheses). Each percentage change is presented as a mean (with one standard error [SE] of the mean in parentheses).

	Absolute change (95% CI)	% change (SE)	p-value
<i>Volumetric bone mineral density (mgHA/cm³)</i>			
Tt.vBMD	2.74 (0.74, 4.73)	1.60 (0.46)	0.0075
Tb.vBMD	2.04 (0.33, 3.74)	1.64 (0.48)	0.0195
Ct.vBMD	-0.84 (-4.79, 3.12)	-0.05 (0.25)	0.6755
<i>Trabecular microarchitectural parameters</i>			
Tb.BV/TV	0.002 (0.000, 0.005)	1.30 (0.48)	0.0817
Tb.N (1/mm)	0.008 (-0.005, 0.021)	0.56 (0.40)	0.2254
Tb.Th (mm)	0.002 (0.001, 0.002)	0.97 (0.23)	0.0002
Tb.Sp (mm)	-0.003 (-0.006, 0.001)	-0.37 (0.36)	0.1902
<i>Cortical microarchitectural parameters</i>			
Ct.Po (%)	0.002 (0.000, 0.004)	0.18 (0.12)	0.1489
Ct.Th (mm)	0.005 (-0.004, 0.014)	1.00 (0.69)	0.2643

Supplementary Table 5 Absolute change, percentage change, and significance of change of density and microarchitectural parameters in the cross section. Each absolute change is presented as a mean difference (with the 95% confidence interval [CI] in parentheses). Each percentage change is presented as a mean (with one standard error [SE] of the mean in parentheses).

	Absolute change (95% CI)	% change (SE)	p-value
<i>Volumetric bone mineral density (mgHA/cm³)</i>			
Tt.vBMD	3.97 (2.20, 5.75)	1.88 (0.37)	<0.0001
Tb.vBMD	2.52 (1.04, 4.00)	1.58 (0.38)	0.0011
Ct.vBMD	0.96 (-1.75, 3.64)	0.14 (0.16)	0.4804
<i>Trabecular microarchitectural parameters</i>			
Tb.BV/TV	0.003 (0.001, 0.006)	1.50 (0.38)	0.0024
Tb.N (1/mm)	0.011 (-0.003, 0.024)	0.70 (0.41)	0.1302
Tb.Th (mm)	0.002 (0.000, 0.003)	1.08 (0.25)	0.0002
Tb.Sp (mm)	-0.003 (-0.006, 0.000)	-0.52 (0.32)	0.0540
<i>Cortical microarchitectural parameters</i>			
Ct.Po (%)	0.000 (-0.000, 0.001)	0.03 (0.02)	0.1417
Ct.Th (mm)	0.013 (0.006, 0.020)	2.02 (0.49)	0.0003