***Femur Cartilage Cap Volume p(Gender)=<0.0001; p(Age)=<0.0001; p(Age\*Gender)= 0.0066;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 9.40[8.67-10.13], 121 12.84[12.14-13.54], 133 -3.44[-4.45--2.43] <0.0001\* | | | | |
| 1 9.65[6.56-12.73], 6 12.37[8.01-16.73], 3 -2.72[-8.06-2.62] 0.32 | | | | |
| 2 6.83[2.47-11.19], 3 9.14[6.62-11.66], 9 -2.31[-7.35-2.72] 0.37 | | | | |
| 3 9.83[7.31-12.35], 9 10.17[6.40-13.95], 4 -0.35[-4.88-4.19] 0.88 | | | | |
| 4 11.80[8.03-15.58], 4 12.64[10.26-15.03], 10 -0.84[-5.31-3.62] 0.71 | | | | |
| 5 9.49[7.10-11.87], 10 11.32[8.80-13.84], 9 -1.83[-5.30-1.64] 0.30 | | | | |
| 6 8.63[6.11-11.15], 9 13.23[10.84-15.62], 10 -4.60[-8.07--1.13] 0.0096\* | | | | |
| 7 10.77[8.10-13.44], 8 15.73[13.35-18.12], 10 -4.96[-8.54--1.38] 0.0068\* | | | | |
| 8 14.27[11.60-16.93], 8 14.45[12.07-16.84], 10 -0.19[-3.77-3.39] 0.92 | | | | |
| 9 9.15[6.30-12.01], 7 18.55[16.03-21.07], 9 -9.40[-13.2--5.59] <0.0001\* | | | | |
| 10 12.07[9.68-14.45], 10 16.91[14.52-19.29], 10 -4.84[-8.22--1.46] 0.0051\* | | | | |
| 11 12.76[10.25-15.28], 9 16.60[13.93-19.27], 8 -3.84[-7.50--0.17] 0.0405\* | | | | |
| 12 9.84[7.46-12.23], 10 13.41[11.02-15.80], 10 -3.56[-6.94--0.19] 0.0386\* | | | | |
| 13 8.26[5.74-10.78], 9 17.32[15.04-19.59], 11 -9.06[-12.4--5.66] <0.0001\* | | | | |
| 14 4.15[1.76-6.54], 10 5.31[2.92-7.70], 10 -1.16[-4.53-2.22] 0.50 | | | | |
| 15 3.54[1.03-6.06], 9 5.50[3.11-7.89], 10 -1.96[-5.42-1.51] 0.27 | | | | |

***Femur Cartilage Cap Width p(Gender)=<0.0001; p(Age)=<0.0001; p(Age\*Gender)=<0.0001;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 61.01[60.06-61.95], 121 66.22[65.31-67.13], 133 -5.21[-6.53--3.90] <0.0001\* | | | | |
| 1 44.93[40.93-48.93], 6 45.87[40.22-51.53], 3 -0.94[-7.87-5.99] 0.79 | | | | |
| 2 50.87[45.21-56.52], 3 45.92[42.66-49.19], 9 4.95[-1.59-11.48] 0.14 | | | | |
| 3 51.28[48.02-54.55], 9 55.23[50.34-60.13], 4 -3.95[-9.84-1.94] 0.19 | | | | |
| 4 56.38[51.48-61.28], 4 57.99[54.90-61.09], 10 -1.61[-7.41-4.19] 0.58 | | | | |
| 5 56.95[53.85-60.05], 10 59.63[56.37-62.90], 9 -2.68[-7.19-1.82] 0.24 | | | | |
| 6 58.71[55.44-61.98], 9 63.17[60.07-66.27], 10 -4.46[-8.96-0.04] 0.052 | | | | |
| 7 65.26[61.80-68.72], 8 68.04[64.94-71.13], 10 -2.78[-7.42-1.87] 0.24 | | | | |
| 8 67.18[63.72-70.65], 8 69.04[65.94-72.14], 10 -1.86[-6.50-2.79] 0.43 | | | | |
| 9 63.44[59.74-67.15], 7 75.76[72.49-79.02], 9 -12.3[-17.3--7.38] <0.0001\* | | | | |
| 10 67.22[64.12-70.32], 10 72.34[69.24-75.44], 10 -5.12[-9.50--0.74] 0.0222\* | | | | |
| 11 69.71[66.44-72.97], 9 75.71[72.25-79.18], 8 -6.00[-10.8--1.24] 0.0137\* | | | | |
| 12 65.03[61.93-68.13], 10 75.12[72.02-78.21], 10 -10.1[-14.5--5.71] <0.0001\* | | | | |
| 13 66.43[63.16-69.69], 9 81.41[78.45-84.36], 11 -15.0[-19.4--10.6] <0.0001\* | | | | |
| 14 67.11[64.01-70.21], 10 73.85[70.75-76.95], 10 -6.74[-11.1--2.36] 0.0027\* | | | | |
| 15 64.58[61.31-67.84], 9 74.21[71.11-77.31], 10 -9.64[-14.1--5.13] <0.0001\* | | | | |

***Femur Cartilage Cap width to Epiphysis width Ratio p(Gender)=<0.0001; p(Age)=<0.0001; p(Age\*Gender)=<0.0001;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 1.15[1.12-1.18], 121 1.25[1.22-1.28], 133 -0.11[-0.15--0.07] <0.0001\* | | | | |
| 1 2.12[1.99-2.24], 6 2.19[2.01-2.37], 3 -0.07[-0.29-0.15] 0.52 | | | | |
| 2 1.34[1.16-1.52], 3 2.08[1.98-2.18], 9 -0.74[-0.94--0.54] <0.0001\* | | | | |
| 3 1.33[1.23-1.43], 9 1.43[1.27-1.58], 4 -0.10[-0.28-0.09] 0.30 | | | | |
| 4 1.18[1.02-1.33], 4 1.29[1.19-1.38], 10 -0.11[-0.29-0.07] 0.23 | | | | |
| 5 1.15[1.05-1.25], 10 1.22[1.12-1.32], 9 -0.07[-0.21-0.07] 0.36 | | | | |
| 6 1.12[1.02-1.22], 9 1.17[1.07-1.26], 10 -0.05[-0.19-0.10] 0.53 | | | | |
| 7 1.13[1.02-1.23], 8 1.15[1.05-1.24], 10 -0.02[-0.16-0.13] 0.80 | | | | |
| 8 1.08[0.97-1.18], 8 1.13[1.03-1.22], 10 -0.05[-0.20-0.09] 0.49 | | | | |
| 9 1.04[0.92-1.15], 7 1.09[0.99-1.19], 9 -0.05[-0.21-0.10] 0.48 | | | | |
| 10 1.03[0.93-1.13], 10 1.08[0.98-1.17], 10 -0.05[-0.18-0.09] 0.51 | | | | |
| 11 1.00[0.90-1.10], 9 1.03[0.93-1.14], 8 -0.03[-0.18-0.11] 0.65 | | | | |
| 12 0.93[0.84-1.03], 10 1.07[0.97-1.17], 10 -0.13[-0.27-0.00] 0.054 | | | | |
| 13 0.91[0.81-1.01], 9 1.04[0.95-1.13], 11 -0.13[-0.26-0.01] 0.070 | | | | |
| 14 0.93[0.83-1.02], 10 0.91[0.82-1.01], 10 0.01[-0.12-0.15] 0.84 | | | | |
| 15 0.90[0.80-1.00], 9 0.92[0.83-1.02], 10 -0.02[-0.16-0.12] 0.75 | | | | |

***Width of Femur Epiphysis***

***p(Gender)= 0.0852; p(Age)=<0.0001; p(Age\*Gender)=<0.0001;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 57.04[56.00-58.09], 121 58.31[57.31-59.31], 133 -1.27[-2.72-0.18] 0.085 | | | | |
| 1 24.79[20.38-29.21], 6 21.43[15.19-27.67], 3 3.37[-4.27-11.01] 0.39 | | | | |
| 2 37.99[31.75-44.23], 3 23.17[19.57-26.78], 9 14.81[7.61-22.02] <0.0001\* | | | | |
| 3 38.95[35.34-42.55], 9 39.27[33.87-44.67], 4 -0.32[-6.82-6.17] 0.92 | | | | |
| 4 47.93[42.53-53.34], 4 45.35[41.94-48.77], 10 2.58[-3.81-8.97] 0.43 | | | | |
| 5 49.51[46.09-52.93], 10 49.07[45.47-52.67], 9 0.44[-4.52-5.41] 0.86 | | | | |
| 6 52.72[49.11-56.32], 9 54.12[50.70-57.53], 10 -1.40[-6.36-3.57] 0.58 | | | | |
| 7 57.90[54.08-61.72], 8 59.56[56.14-62.98], 10 -1.66[-6.78-3.47] 0.52 | | | | |
| 8 62.55[58.73-66.37], 8 61.32[57.91-64.74], 10 1.23[-3.90-6.35] 0.64 | | | | |
| 9 61.26[57.17-65.34], 7 69.64[66.03-73.24], 9 -8.38[-13.8--2.93] 0.0027\* | | | | |
| 10 65.30[61.89-68.72], 10 67.49[64.07-70.91], 10 -2.19[-7.02-2.65] 0.37 | | | | |
| 11 69.69[66.09-73.30], 9 73.98[70.16-77.80], 8 -4.29[-9.54-0.97] 0.11 | | | | |
| 12 69.62[66.20-73.04], 10 70.57[67.15-73.98], 10 -0.95[-5.78-3.88] 0.70 | | | | |
| 13 73.20[69.60-76.81], 9 78.46[75.20-81.72], 11 -5.26[-10.1--0.40] 0.0341\* | | | | |
| 14 72.40[68.99-75.82], 10 80.93[77.52-84.35], 10 -8.53[-13.4--3.70] 0.0006\* | | | | |
| 15 71.80[68.20-75.41], 9 80.31[76.89-83.72], 10 -8.50[-13.5--3.54] 0.0009\* | | | | |

***Femur Medial to Lateral Epiphysis Ratio p(Gender)= 0.3820; p(Age)= 0.0321; p(Age\*Gender)= 0.9139;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 1.05[1.02-1.07], 121 1.03[1.01-1.06], 133 0.02[-0.02-0.05] 0.38 | | | | |
| 1 0.90[0.79-1.01], 6 0.83[0.68-0.98], 3 0.08[-0.11-0.26] 0.42 | | | | |
| 2 1.03[0.88-1.18], 3 1.10[1.01-1.18], 9 -0.06[-0.24-0.11] 0.48 | | | | |
| 3 1.10[1.02-1.19], 9 1.02[0.89-1.15], 4 0.08[-0.08-0.24] 0.31 | | | | |
| 4 1.03[0.90-1.16], 4 1.02[0.94-1.10], 10 0.01[-0.15-0.16] 0.93 | | | | |
| 5 1.06[0.98-1.15], 10 1.01[0.92-1.09], 9 0.06[-0.06-0.18] 0.35 | | | | |
| 6 1.01[0.92-1.09], 9 1.00[0.91-1.08], 10 0.01[-0.11-0.13] 0.86 | | | | |
| 7 1.05[0.96-1.14], 8 1.03[0.95-1.12], 10 0.01[-0.11-0.14] 0.82 | | | | |
| 8 1.05[0.96-1.14], 8 1.02[0.94-1.10], 10 0.04[-0.09-0.16] 0.57 | | | | |
| 9 1.04[0.94-1.13], 7 1.02[0.93-1.10], 9 0.02[-0.11-0.15] 0.77 | | | | |
| 10 1.04[0.95-1.12], 10 1.09[1.01-1.18], 10 -0.06[-0.17-0.06] 0.32 | | | | |
| 11 1.07[0.99-1.16], 9 1.11[1.02-1.20], 8 -0.04[-0.16-0.09] 0.57 | | | | |
| 12 1.06[0.98-1.14], 10 1.07[0.98-1.15], 10 -0.00[-0.12-0.11] 0.93 | | | | |
| 13 1.13[1.05-1.22], 9 1.03[0.95-1.11], 11 0.11[-0.01-0.22] 0.074 | | | | |
| 14 1.05[0.97-1.14], 10 1.06[0.97-1.14], 10 -0.00[-0.12-0.11] 0.98 | | | | |
| 15 1.09[1.01-1.18], 9 1.10[1.02-1.19], 10 -0.01[-0.13-0.11] 0.86 | | | | |

***Femur Physis to Epiphysis Ratio p(Gender)=<0.0001; p(Age)=<0.0001; p(Age\*Gender)= 0.0070;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 0.19[0.18-0.20], 121 0.23[0.22-0.24], 133 -0.04[-0.06--0.02] <0.0001\* | | | | |
| 1 0.49[0.44-0.54], 6 0.56[0.49-0.64], 3 -0.08[-0.17-0.02] 0.10 | | | | |
| 2 0.37[0.30-0.45], 3 0.61[0.57-0.66], 9 -0.24[-0.33--0.16] <0.0001\* | | | | |
| 3 0.36[0.31-0.40], 9 0.37[0.31-0.44], 4 -0.02[-0.09-0.06] 0.65 | | | | |
| 4 0.23[0.17-0.30], 4 0.27[0.23-0.31], 10 -0.04[-0.11-0.04] 0.35 | | | | |
| 5 0.19[0.15-0.23], 10 0.24[0.19-0.28], 9 -0.05[-0.11-0.01] 0.090 | | | | |
| 6 0.19[0.15-0.23], 9 0.22[0.18-0.26], 10 -0.03[-0.09-0.03] 0.35 | | | | |
| 7 0.17[0.13-0.22], 8 0.19[0.15-0.23], 10 -0.02[-0.08-0.05] 0.63 | | | | |
| 8 0.15[0.11-0.20], 8 0.17[0.13-0.21], 10 -0.02[-0.08-0.05] 0.62 | | | | |
| 9 0.17[0.12-0.21], 7 0.14[0.10-0.18], 9 0.03[-0.04-0.09] 0.38 | | | | |
| 10 0.12[0.08-0.16], 10 0.14[0.10-0.18], 10 -0.02[-0.08-0.03] 0.43 | | | | |
| 11 0.12[0.08-0.16], 9 0.14[0.09-0.18], 8 -0.02[-0.08-0.04] 0.59 | | | | |
| 12 0.10[0.06-0.14], 10 0.13[0.09-0.17], 10 -0.03[-0.09-0.03] 0.30 | | | | |
| 13 0.11[0.06-0.15], 9 0.11[0.07-0.15], 11 -0.01[-0.06-0.05] 0.83 | | | | |
| 14 0.05[0.01-0.09], 10 0.12[0.08-0.16], 10 -0.07[-0.13--0.01] 0.0144\* | | | | |
| 15 0.02[-0.02-0.07], 9 0.05[0.01-0.09], 10 -0.03[-0.09-0.03] 0.32 | | | | |

***Femoral Epiphysis Volume***

***p(Gender)= 0.5230; p(Age)=<0.0001; p(Age\*Gender)= 0.2646;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 25.86[24.11-27.61], 121 26.65[24.97-28.33], 133 -0.79[-3.22-1.64] 0.52 | | | | |
| 1 3.56[-3.85-10.97], 6 2.14[-8.34-12.62], 3 1.42[-11.4-14.26] 0.83 | | | | |
| 2 2.93[-7.55-13.41], 3 2.00[-4.05-8.05], 9 0.93[-11.2-13.03] 0.88 | | | | |
| 3 6.36[0.31-12.41], 9 4.67[-4.40-13.75], 4 1.69[-9.22-12.59] 0.76 | | | | |
| 4 9.89[0.82-18.97], 4 8.17[2.43-13.91], 10 1.72[-9.02-12.46] 0.75 | | | | |
| 5 12.96[7.22-18.70], 10 10.21[4.16-16.26], 9 2.75[-5.59-11.09] 0.52 | | | | |
| 6 12.76[6.71-18.81], 9 13.37[7.63-19.11], 10 -0.61[-8.95-7.73] 0.89 | | | | |
| 7 17.45[11.03-23.87], 8 21.11[15.37-26.85], 10 -3.66[-12.3-4.95] 0.40 | | | | |
| 8 27.70[21.28-34.11], 8 21.24[15.51-26.98], 10 6.45[-2.16-15.06] 0.14 | | | | |
| 9 24.36[17.50-31.22], 7 32.62[26.57-38.67], 9 -8.26[-17.4-0.89] 0.077 | | | | |
| 10 33.45[27.71-39.19], 10 31.64[25.90-37.38], 10 1.80[-6.31-9.92] 0.66 | | | | |
| 11 38.29[32.24-44.34], 9 40.52[34.11-46.94], 8 -2.24[-11.1-6.58] 0.62 | | | | |
| 12 45.12[39.38-50.86], 10 38.85[33.11-44.59], 10 6.27[-1.85-14.39] 0.13 | | | | |
| 13 45.47[39.42-51.52], 9 51.55[46.07-57.02], 11 -6.07[-14.2-2.08] 0.14 | | | | |
| 14 53.86[48.12-59.60], 10 58.65[52.91-64.39], 10 -4.79[-12.9-3.33] 0.25 | | | | |
| 15 53.77[47.72-59.82], 9 63.00[57.26-68.74], 10 -9.23[-17.6--0.89] 0.0302\* | | | | |

***Femoral Physis Volume***

***p(Gender)= 0.0008; p(Age)=<0.0001; p(Age\*Gender)=<0.0001;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 2.94[2.71-3.17], 121 3.49[3.27-3.72], 133 -0.56[-0.88--0.23] 0.0008\* | | | | |
| 1 1.53[0.55-2.51], 6 1.17[-0.22-2.55], 3 0.36[-1.34-2.06] 0.67 | | | | |
| 2 1.01[-0.37-2.40], 3 1.19[0.39-1.99], 9 -0.18[-1.78-1.42] 0.83 | | | | |
| 3 2.21[1.41-3.01], 9 1.64[0.44-2.84], 4 0.58[-0.87-2.02] 0.43 | | | | |
| 4 2.21[1.01-3.41], 4 1.94[1.18-2.70], 10 0.27[-1.15-1.69] 0.71 | | | | |
| 5 2.39[1.63-3.14], 10 2.32[1.52-3.12], 9 0.07[-1.04-1.17] 0.91 | | | | |
| 6 2.29[1.49-3.09], 9 2.86[2.10-3.61], 10 -0.56[-1.67-0.54] 0.32 | | | | |
| 7 2.94[2.09-3.79], 8 3.89[3.13-4.65], 10 -0.95[-2.09-0.19] 0.10 | | | | |
| 8 4.26[3.41-5.11], 8 3.46[2.70-4.22], 10 0.80[-0.34-1.94] 0.17 | | | | |
| 9 3.94[3.03-4.85], 7 4.16[3.36-4.96], 9 -0.22[-1.43-0.99] 0.72 | | | | |
| 10 3.99[3.23-4.75], 10 4.52[3.76-5.28], 10 -0.53[-1.60-0.54] 0.33 | | | | |
| 11 4.40[3.60-5.20], 9 5.45[4.60-6.30], 8 -1.05[-2.22-0.11] 0.077 | | | | |
| 12 4.24[3.48-5.00], 10 4.45[3.69-5.21], 10 -0.21[-1.28-0.86] 0.70 | | | | |
| 13 4.80[4.00-5.60], 9 5.62[4.90-6.34], 11 -0.82[-1.90-0.26] 0.14 | | | | |
| 14 2.57[1.81-3.33], 10 6.33[5.57-7.09], 10 -3.76[-4.83--2.68] <0.0001\* | | | | |
| 15 1.27[0.47-2.07], 9 3.40[2.64-4.16], 10 -2.13[-3.23--1.03] 0.0002\* | | | | |

***Lateral Femoral Epiphysis Volume***

***p(Gender)= 0.4467; p(Age)=<0.0001; p(Age\*Gender)= 0.2354;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 12.55[11.67-13.43], 121 13.02[12.17-13.87], 133 -0.47[-1.70-0.75] 0.45 | | | | |
| 1 1.88[-1.85-5.61], 6 1.16[-4.11-6.44], 3 0.71[-5.75-7.17] 0.83 | | | | |
| 2 1.44[-3.84-6.71], 3 0.98[-2.06-4.03], 9 0.46[-5.63-6.55] 0.88 | | | | |
| 3 3.04[-0.00-6.09], 9 2.30[-2.27-6.87], 4 0.74[-4.75-6.23] 0.79 | | | | |
| 4 4.90[0.33-9.47], 4 4.09[1.20-6.98], 10 0.81[-4.60-6.21] 0.77 | | | | |
| 5 6.28[3.39-9.17], 10 5.12[2.08-8.17], 9 1.15[-3.04-5.35] 0.59 | | | | |
| 6 6.38[3.33-9.42], 9 6.68[3.79-9.57], 10 -0.30[-4.50-3.90] 0.89 | | | | |
| 7 8.53[5.30-11.76], 8 10.55[7.66-13.44], 10 -2.03[-6.36-2.31] 0.36 | | | | |
| 8 13.49[10.26-16.72], 8 10.54[7.65-13.43], 10 2.95[-1.38-7.28] 0.18 | | | | |
| 9 12.03[8.57-15.48], 7 16.30[13.25-19.34], 9 -4.27[-8.87-0.33] 0.069 | | | | |
| 10 16.48[13.59-19.37], 10 15.30[12.41-18.19], 10 1.18[-2.91-5.26] 0.57 | | | | |
| 11 18.58[15.53-21.62], 9 19.35[16.12-22.58], 8 -0.77[-5.21-3.67] 0.73 | | | | |
| 12 21.92[19.03-24.81], 10 18.82[15.93-21.71], 10 3.10[-0.99-7.18] 0.14 | | | | |
| 13 21.24[18.20-24.29], 9 25.49[22.73-28.24], 11 -4.24[-8.35--0.14] 0.0429\* | | | | |
| 14 26.30[23.41-29.19], 10 28.60[25.71-31.49], 10 -2.30[-6.39-1.78] 0.27 | | | | |
| 15 25.74[22.70-28.79], 9 30.03[27.14-32.92], 10 -4.28[-8.48--0.09] 0.0456\* | | | | |

***Lateral tibia epiphyseal volume***

***p(Gender)= 0.5578; p(Age)=<0.0001; p(Age\*Gender)= 0.0031;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 7.34[6.85-7.84], 121 7.55[7.07-8.03], 133 -0.20[-0.89-0.48] 0.56 | | | | |
| 1 1.22[-0.88-3.32], 6 0.72[-2.24-3.69], 3 0.50[-3.14-4.13] 0.79 | | | | |
| 2 0.84[-2.13-3.81], 3 0.89[-0.83-2.60], 9 -0.05[-3.48-3.38] 0.98 | | | | |
| 3 1.69[-0.02-3.41], 9 1.55[-1.02-4.12], 4 0.15[-2.94-3.24] 0.93 | | | | |
| 4 2.66[0.09-5.23], 4 2.25[0.62-3.88], 10 0.41[-2.63-3.45] 0.79 | | | | |
| 5 3.19[1.56-4.81], 10 2.70[0.99-4.41], 9 0.49[-1.87-2.85] 0.68 | | | | |
| 6 3.31[1.59-5.02], 9 3.46[1.83-5.08], 10 -0.15[-2.51-2.21] 0.90 | | | | |
| 7 4.58[2.76-6.40], 8 5.71[4.08-7.33], 10 -1.13[-3.57-1.31] 0.36 | | | | |
| 8 7.56[5.74-9.38], 8 5.69[4.06-7.31], 10 1.87[-0.56-4.31] 0.13 | | | | |
| 9 7.34[5.40-9.28], 7 9.12[7.40-10.83], 9 -1.78[-4.37-0.81] 0.18 | | | | |
| 10 9.49[7.86-11.11], 10 8.18[6.55-9.80], 10 1.31[-0.99-3.61] 0.26 | | | | |
| 11 11.35[9.64-13.06], 9 10.70[8.88-12.52], 8 0.65[-1.85-3.15] 0.61 | | | | |
| 12 13.51[11.88-15.13], 10 10.63[9.00-12.25], 10 2.88[0.58-5.18] 0.0142\* | | | | |
| 13 13.76[12.04-15.47], 9 14.75[13.20-16.30], 11 -0.99[-3.30-1.32] 0.40 | | | | |
| 14 14.04[12.42-15.67], 10 18.89[17.26-20.51], 10 -4.85[-7.15--2.55] <0.0001\* | | | | |
| 15 15.62[13.90-17.33], 9 18.02[16.40-19.65], 10 -2.40[-4.77--0.04] 0.0460\* | | | | |

***Medial Femoral Epiphysis Volume***

***p(Gender)= 0.6157; p(Age)=<0.0001; p(Age\*Gender)= 0.2964;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 13.31[12.42-14.21], 121 13.63[12.77-14.49], 133 -0.32[-1.55-0.92] 0.62 | | | | |
| 1 1.69[-2.09-5.46], 6 0.98[-4.36-6.31], 3 0.71[-5.83-7.25] 0.83 | | | | |
| 2 1.49[-3.85-6.83], 3 1.01[-2.07-4.10], 9 0.48[-5.69-6.64] 0.88 | | | | |
| 3 3.31[0.23-6.40], 9 2.37[-2.25-6.99], 4 0.94[-4.61-6.50] 0.74 | | | | |
| 4 5.00[0.37-9.62], 4 4.09[1.16-7.01], 10 0.91[-4.56-6.38] 0.74 | | | | |
| 5 6.68[3.76-9.61], 10 5.09[2.01-8.17], 9 1.60[-2.65-5.84] 0.46 | | | | |
| 6 6.38[3.30-9.46], 9 6.69[3.77-9.61], 10 -0.31[-4.56-3.94] 0.89 | | | | |
| 7 8.92[5.65-12.19], 8 10.56[7.63-13.48], 10 -1.64[-6.02-2.75] 0.46 | | | | |
| 8 14.21[10.94-17.48], 8 10.71[7.78-13.63], 10 3.50[-0.88-7.89] 0.12 | | | | |
| 9 12.33[8.84-15.83], 7 16.32[13.24-19.41], 9 -3.99[-8.65-0.67] 0.093 | | | | |
| 10 16.97[14.05-19.89], 10 16.34[13.42-19.27], 10 0.62[-3.51-4.76] 0.77 | | | | |
| 11 19.71[16.63-22.79], 9 21.18[17.91-24.45], 8 -1.47[-5.96-3.02] 0.52 | | | | |
| 12 23.20[20.28-26.13], 10 20.03[17.11-22.95], 10 3.17[-0.96-7.31] 0.13 | | | | |
| 13 24.23[21.15-27.31], 9 26.06[23.27-28.85], 11 -1.83[-5.99-2.32] 0.39 | | | | |
| 14 27.56[24.64-30.48], 10 30.05[27.12-32.97], 10 -2.48[-6.62-1.65] 0.24 | | | | |
| 15 28.03[24.95-31.11], 9 32.97[30.05-35.90], 10 -4.95[-9.19--0.70] 0.0227\* | | | | |

***Medial tibial epiphyseal volume***

***p(Gender)= 0.0259; p(Age)=<0.0001; p(Age\*Gender)= 0.0483;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 6.39[5.94-6.84], 121 7.10[6.67-7.53], 133 -0.71[-1.33--0.09] 0.0259\* | | | | |
| 1 0.96[-0.94-2.86], 6 0.74[-1.94-3.43], 3 0.21[-3.08-3.50] 0.90 | | | | |
| 2 0.92[-1.76-3.61], 3 0.86[-0.69-2.41], 9 0.06[-3.04-3.16] 0.97 | | | | |
| 3 1.86[0.31-3.41], 9 1.46[-0.86-3.79], 4 0.40[-2.40-3.19] 0.78 | | | | |
| 4 2.96[0.64-5.29], 4 2.39[0.92-3.86], 10 0.57[-2.18-3.33] 0.68 | | | | |
| 5 3.36[1.89-4.83], 10 2.88[1.33-4.44], 9 0.47[-1.67-2.61] 0.66 | | | | |
| 6 3.39[1.84-4.94], 9 3.65[2.18-5.12], 10 -0.26[-2.40-1.88] 0.81 | | | | |
| 7 4.65[3.01-6.30], 8 5.68[4.21-7.15], 10 -1.03[-3.23-1.18] 0.36 | | | | |
| 8 6.57[4.92-8.21], 8 5.90[4.43-7.37], 10 0.67[-1.54-2.87] 0.55 | | | | |
| 9 5.79[4.04-7.55], 7 8.25[6.70-9.80], 9 -2.46[-4.80--0.11] 0.0399\* | | | | |
| 10 8.30[6.83-9.77], 10 8.53[7.06-10.01], 10 -0.23[-2.32-1.85] 0.82 | | | | |
| 11 9.86[8.31-11.41], 9 11.16[9.52-12.81], 8 -1.30[-3.56-0.96] 0.26 | | | | |
| 12 10.81[9.34-12.28], 10 9.92[8.45-11.39], 10 0.89[-1.19-2.97] 0.40 | | | | |
| 13 11.21[9.66-12.77], 9 12.91[11.50-14.31], 11 -1.69[-3.78-0.40] 0.11 | | | | |
| 14 12.27[10.80-13.74], 10 16.27[14.80-17.74], 10 -4.00[-6.08--1.92] 0.0002\* | | | | |
| 15 12.95[11.40-14.50], 9 15.88[14.41-17.35], 10 -2.93[-5.07--0.79] 0.0075\* | | | | |

***Tibial Cartilage Cap Volume p(Gender)=<0.0001; p(Age)=<0.0001; p(Age\*Gender)= 0.0114;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 6.17[5.67-6.67], 121 8.41[7.93-8.89], 133 -2.24[-2.94--1.55] <0.0001\* | | | | |
| 1 4.24[2.12-6.36], 6 6.73[3.73-9.72], 3 -2.48[-6.15-1.19] 0.18 | | | | |
| 2 4.20[1.20-7.19], 3 5.05[3.32-6.78], 9 -0.85[-4.31-2.61] 0.63 | | | | |
| 3 6.22[4.49-7.95], 9 5.65[3.06-8.25], 4 0.57[-2.55-3.69] 0.72 | | | | |
| 4 7.43[4.83-10.03], 4 7.42[5.77-9.06], 10 0.01[-3.06-3.08] 0.99 | | | | |
| 5 6.64[5.00-8.28], 10 7.08[5.35-8.81], 9 -0.44[-2.82-1.95] 0.72 | | | | |
| 6 6.17[4.44-7.90], 9 8.50[6.86-10.14], 10 -2.33[-4.71-0.06] 0.056 | | | | |
| 7 7.68[5.84-9.51], 8 10.74[9.10-12.38], 10 -3.06[-5.52--0.60] 0.0151\* | | | | |
| 8 9.40[7.56-11.24], 8 9.65[8.01-11.30], 10 -0.25[-2.72-2.21] 0.84 | | | | |
| 9 5.54[3.58-7.51], 7 12.33[10.60-14.06], 9 -6.79[-9.40--4.17] <0.0001\* | | | | |
| 10 7.83[6.19-9.47], 10 10.92[9.28-12.56], 10 -3.09[-5.41--0.77] 0.0093\* | | | | |
| 11 7.50[5.77-9.23], 9 11.62[9.78-13.45], 8 -4.12[-6.64--1.60] 0.0015\* | | | | |
| 12 6.24[4.60-7.88], 10 8.27[6.63-9.91], 10 -2.03[-4.35-0.29] 0.087 | | | | |
| 13 5.84[4.11-7.57], 9 10.40[8.83-11.96], 11 -4.56[-6.89--2.23] 0.0002\* | | | | |
| 14 4.25[2.61-5.89], 10 7.06[5.42-8.70], 10 -2.81[-5.13--0.48] 0.0180\* | | | | |
| 15 3.33[1.60-5.06], 9 4.77[3.13-6.41], 10 -1.44[-3.83-0.94] 0.23 | | | | |

***Tibia Cartilage Cap Width p(Gender)=<0.0001; p(Age)=<0.0001; p(Age\*Gender)= 0.0034;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 57.76[56.71-58.82], 121 62.20[61.19-63.21], 133 -4.44[-5.90--2.98] <0.0001\* | | | | |
| 1 32.76[28.30-37.22], 6 40.76[34.46-47.06], 3 -8.00[-15.7--0.28] 0.0423\* | | | | |
| 2 46.67[40.36-52.97], 3 41.57[37.93-45.21], 9 5.09[-2.18-12.37] 0.17 | | | | |
| 3 46.46[42.82-50.10], 9 49.51[44.05-54.96], 4 -3.04[-9.61-3.52] 0.36 | | | | |
| 4 52.14[46.68-57.60], 4 53.25[49.80-56.71], 10 -1.11[-7.57-5.35] 0.74 | | | | |
| 5 53.41[49.96-56.87], 10 54.67[51.03-58.31], 9 -1.26[-6.27-3.76] 0.62 | | | | |
| 6 54.27[50.63-57.91], 9 58.59[55.14-62.04], 10 -4.32[-9.33-0.70] 0.091 | | | | |
| 7 59.56[55.70-63.42], 8 62.86[59.40-66.31], 10 -3.29[-8.47-1.89] 0.21 | | | | |
| 8 62.63[58.77-66.49], 8 63.61[60.16-67.07], 10 -0.98[-6.16-4.20] 0.71 | | | | |
| 9 60.93[56.80-65.05], 7 70.02[66.38-73.66], 9 -9.10[-14.6--3.60] 0.0013\* | | | | |
| 10 65.76[62.31-69.22], 10 66.83[63.37-70.28], 10 -1.06[-5.94-3.82] 0.67 | | | | |
| 11 68.89[65.25-72.53], 9 72.10[68.24-75.96], 8 -3.21[-8.51-2.10] 0.23 | | | | |
| 12 65.35[61.90-68.80], 10 70.60[67.14-74.05], 10 -5.24[-10.1--0.36] 0.0354\* | | | | |
| 13 67.92[64.28-71.56], 9 78.24[74.95-81.54], 11 -10.3[-15.2--5.42] <0.0001\* | | | | |
| 14 65.37[61.91-68.82], 10 76.86[73.41-80.31], 10 -11.5[-16.4--6.61] <0.0001\* | | | | |
| 15 64.35[60.71-67.99], 9 73.55[70.10-77.01], 10 -9.21[-14.2--4.19] 0.0004\* | | | | |

***Tibia Cartilage Cap width to Epiphysis width Ratio p(Gender)=<0.0001; p(Age)=<0.0001; p(Age\*Gender)= 0.1896;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 1.27[1.22-1.31], 121 1.41[1.37-1.45], 133 -0.14[-0.20--0.08] <0.0001\* | | | | |
| 1 1.90[1.72-2.09], 6 2.41[2.15-2.67], 3 -0.51[-0.83--0.19] 0.0021\* | | | | |
| 2 1.75[1.49-2.02], 3 2.30[2.15-2.45], 9 -0.54[-0.85--0.24] 0.0005\* | | | | |
| 3 1.73[1.58-1.88], 9 1.81[1.59-2.04], 4 -0.08[-0.35-0.19] 0.55 | | | | |
| 4 1.45[1.22-1.67], 4 1.64[1.50-1.79], 10 -0.20[-0.47-0.07] 0.14 | | | | |
| 5 1.29[1.15-1.43], 10 1.50[1.35-1.65], 9 -0.21[-0.42--0.00] 0.0463\* | | | | |
| 6 1.29[1.14-1.44], 9 1.38[1.23-1.52], 10 -0.08[-0.29-0.12] 0.43 | | | | |
| 7 1.21[1.05-1.37], 8 1.29[1.15-1.44], 10 -0.08[-0.30-0.13] 0.45 | | | | |
| 8 1.14[0.98-1.30], 8 1.21[1.07-1.36], 10 -0.08[-0.29-0.14] 0.49 | | | | |
| 9 1.11[0.94-1.29], 7 1.15[1.00-1.31], 9 -0.04[-0.27-0.19] 0.73 | | | | |
| 10 1.10[0.96-1.25], 10 1.14[0.99-1.28], 10 -0.03[-0.24-0.17] 0.74 | | | | |
| 11 1.08[0.93-1.23], 9 1.08[0.92-1.24], 8 0.00[-0.22-0.22] 0.99 | | | | |
| 12 1.00[0.86-1.14], 10 1.09[0.95-1.23], 10 -0.09[-0.29-0.11] 0.38 | | | | |
| 13 1.03[0.88-1.18], 9 1.09[0.96-1.23], 11 -0.06[-0.27-0.14] 0.54 | | | | |
| 14 0.96[0.82-1.11], 10 1.02[0.88-1.16], 10 -0.06[-0.26-0.14] 0.58 | | | | |
| 15 0.95[0.80-1.10], 9 0.98[0.84-1.12], 10 -0.03[-0.24-0.18] 0.78 | | | | |

***Width of Tibial Epiphysis***

***p(Gender)= 0.3394; p(Age)=<0.0001; p(Age\*Gender)=<0.0001;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 49.52[48.58-50.46], 121 50.15[49.25-51.05], 133 -0.63[-1.93-0.67] 0.34 | | | | |
| 1 19.31[15.34-23.28], 6 17.16[11.55-22.77], 3 2.16[-4.72-9.03] 0.54 | | | | |
| 2 26.67[21.06-32.28], 3 19.09[15.85-22.33], 9 7.58[1.10-14.06] 0.0220\* | | | | |
| 3 27.14[23.90-30.38], 9 27.55[22.69-32.41], 4 -0.41[-6.25-5.43] 0.89 | | | | |
| 4 36.11[31.25-40.97], 4 32.83[29.76-35.90], 10 3.28[-2.47-9.03] 0.26 | | | | |
| 5 41.51[38.44-44.58], 10 36.73[33.49-39.97], 9 4.78[0.32-9.25] 0.0359\* | | | | |
| 6 42.54[39.30-45.78], 9 42.56[39.49-45.63], 10 -0.02[-4.49-4.44] 0.99 | | | | |
| 7 49.21[45.77-52.65], 8 49.05[45.98-52.12], 10 0.16[-4.45-4.77] 0.95 | | | | |
| 8 55.17[51.73-58.61], 8 52.44[49.37-55.51], 10 2.73[-1.88-7.34] 0.24 | | | | |
| 9 54.75[51.07-58.42], 7 61.12[57.88-64.36], 9 -6.38[-11.3--1.48] 0.0109\* | | | | |
| 10 59.73[56.66-62.80], 10 58.87[55.80-61.94], 10 0.86[-3.49-5.20] 0.70 | | | | |
| 11 64.02[60.78-67.26], 9 67.80[64.36-71.23], 8 -3.78[-8.50-0.95] 0.12 | | | | |
| 12 65.22[62.15-68.29], 10 65.02[61.95-68.09], 10 0.20[-4.15-4.54] 0.93 | | | | |
| 13 66.11[62.87-69.35], 9 71.75[68.82-74.68], 11 -5.64[-10.0--1.27] 0.0117\* | | | | |
| 14 67.86[64.78-70.93], 10 75.40[72.33-78.48], 10 -7.55[-11.9--3.20] 0.0007\* | | | | |
| 15 67.46[64.22-70.70], 9 74.91[71.84-77.98], 10 -7.45[-11.9--2.98] 0.0012\* | | | | |

***Tibial Medial to Lateral Epiphysis Ratio p(Gender)= 0.0131; p(Age)=<0.0001; p(Age\*Gender)= 0.1378;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 0.94[0.90-0.97], 121 1.00[0.97-1.03], 133 -0.06[-0.11--0.01] 0.0131\* | | | | |
| 1 0.81[0.66-0.96], 6 1.04[0.83-1.25], 3 -0.23[-0.49-0.03] 0.080 | | | | |
| 2 1.10[0.89-1.31], 3 1.05[0.92-1.17], 9 0.05[-0.19-0.29] 0.67 | | | | |
| 3 1.15[1.03-1.27], 9 0.94[0.76-1.12], 4 0.21[-0.01-0.43] 0.062 | | | | |
| 4 1.11[0.93-1.29], 4 1.07[0.95-1.18], 10 0.05[-0.17-0.26] 0.66 | | | | |
| 5 1.05[0.94-1.17], 10 1.09[0.97-1.21], 9 -0.04[-0.21-0.13] 0.65 | | | | |
| 6 1.04[0.91-1.16], 9 1.07[0.95-1.18], 10 -0.03[-0.20-0.13] 0.69 | | | | |
| 7 1.03[0.90-1.16], 8 1.02[0.90-1.13], 10 0.01[-0.16-0.18] 0.91 | | | | |
| 8 0.89[0.76-1.02], 8 1.04[0.93-1.16], 10 -0.15[-0.33-0.02] 0.084 | | | | |
| 9 0.80[0.67-0.94], 7 0.94[0.82-1.07], 9 -0.14[-0.32-0.04] 0.13 | | | | |
| 10 0.89[0.77-1.00], 10 1.10[0.99-1.22], 10 -0.21[-0.38--0.05] 0.0101\* | | | | |
| 11 0.87[0.75-1.00], 9 1.10[0.97-1.22], 8 -0.22[-0.40--0.05] 0.0142\* | | | | |
| 12 0.81[0.69-0.92], 10 0.94[0.82-1.05], 10 -0.13[-0.29-0.03] 0.12 | | | | |
| 13 0.82[0.70-0.94], 9 0.87[0.76-0.98], 11 -0.06[-0.22-0.11] 0.50 | | | | |
| 14 0.87[0.76-0.99], 10 0.86[0.75-0.98], 10 0.01[-0.15-0.18] 0.87 | | | | |
| 15 0.84[0.72-0.96], 9 0.88[0.76-1.00], 10 -0.04[-0.21-0.13] 0.62 | | | | |

***Tibial physis to epiphysis ratio***

***p(Gender)= 0.0327; p(Age)=<0.0001; p(Age\*Gender)=<0.0001;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 0.23[0.22-0.25], 121 0.25[0.24-0.27], 133 -0.02[-0.04--0.00] 0.0327\* | | | | |
| 1 0.50[0.44-0.56], 6 0.58[0.49-0.68], 3 -0.08[-0.20-0.03] 0.14 | | | | |
| 2 0.32[0.23-0.41], 3 0.49[0.44-0.54], 9 -0.17[-0.28--0.07] 0.0012\* | | | | |
| 3 0.45[0.40-0.51], 9 0.25[0.17-0.32], 4 0.21[0.11-0.30] <0.0001\* | | | | |
| 4 0.24[0.16-0.32], 4 0.25[0.20-0.30], 10 -0.01[-0.10-0.08] 0.83 | | | | |
| 5 0.24[0.19-0.29], 10 0.29[0.24-0.35], 9 -0.05[-0.12-0.02] 0.16 | | | | |
| 6 0.26[0.21-0.31], 9 0.27[0.22-0.32], 10 -0.01[-0.08-0.07] 0.86 | | | | |
| 7 0.23[0.18-0.29], 8 0.27[0.22-0.32], 10 -0.04[-0.11-0.04] 0.33 | | | | |
| 8 0.26[0.21-0.32], 8 0.22[0.17-0.27], 10 0.04[-0.03-0.12] 0.27 | | | | |
| 9 0.22[0.16-0.28], 7 0.19[0.14-0.24], 9 0.03[-0.05-0.11] 0.50 | | | | |
| 10 0.20[0.15-0.25], 10 0.20[0.15-0.25], 10 -0.00[-0.07-0.07] 0.93 | | | | |
| 11 0.19[0.14-0.24], 9 0.19[0.13-0.25], 8 -0.00[-0.08-0.07] 0.97 | | | | |
| 12 0.14[0.09-0.19], 10 0.19[0.14-0.24], 10 -0.05[-0.12-0.02] 0.16 | | | | |
| 13 0.15[0.10-0.20], 9 0.18[0.14-0.23], 11 -0.03[-0.10-0.04] 0.35 | | | | |
| 14 0.05[-0.00-0.10], 10 0.16[0.11-0.21], 10 -0.11[-0.18--0.04] 0.0027\* | | | | |
| 15 0.01[-0.04-0.06], 9 0.07[0.02-0.12], 10 -0.06[-0.13-0.01] 0.098 | | | | |

***Tibia Epiphysis Volume***

***p(Gender)= 0.1580; p(Age)=<0.0001; p(Age\*Gender)= 0.0110;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 13.73[12.82-14.65], 121 14.65[13.77-15.53], 133 -0.91[-2.18-0.36] 0.16 | | | | |
| 1 2.18[-1.70-6.05], 6 1.47[-4.01-6.95], 3 0.71[-6.01-7.42] 0.84 | | | | |
| 2 1.76[-3.72-7.24], 3 1.75[-1.42-4.92], 9 0.01[-6.32-6.34] 1.00 | | | | |
| 3 3.56[0.39-6.72], 9 3.01[-1.74-7.76], 4 0.54[-5.16-6.25] 0.85 | | | | |
| 4 5.63[0.88-10.38], 4 4.64[1.64-7.64], 10 0.99[-4.63-6.61] 0.73 | | | | |
| 5 6.55[3.54-9.55], 10 5.59[2.42-8.75], 9 0.96[-3.40-5.32] 0.66 | | | | |
| 6 6.70[3.54-9.87], 9 7.11[4.11-10.11], 10 -0.41[-4.77-3.96] 0.85 | | | | |
| 7 9.23[5.87-12.59], 8 11.39[8.38-14.39], 10 -2.16[-6.66-2.35] 0.35 | | | | |
| 8 14.13[10.77-17.49], 8 11.59[8.58-14.59], 10 2.54[-1.96-7.05] 0.27 | | | | |
| 9 13.13[9.54-16.72], 7 17.37[14.20-20.53], 9 -4.24[-9.02-0.55] 0.082 | | | | |
| 10 17.79[14.79-20.79], 10 16.71[13.71-19.71], 10 1.08[-3.17-5.33] 0.62 | | | | |
| 11 21.21[18.04-24.37], 9 21.86[18.50-25.22], 8 -0.65[-5.27-3.96] 0.78 | | | | |
| 12 24.32[21.32-27.32], 10 20.55[17.54-23.55], 10 3.77[-0.47-8.02] 0.081 | | | | |
| 13 24.97[21.81-28.14], 9 27.65[24.79-30.52], 11 -2.68[-6.95-1.59] 0.22 | | | | |
| 14 26.31[23.30-29.31], 10 35.15[32.15-38.16], 10 -8.85[-13.1--4.60] <0.0001\* | | | | |
| 15 28.57[25.40-31.73], 9 33.90[30.90-36.90], 10 -5.33[-9.70--0.97] 0.0168\* | | | | |

***Tibia physis volume***

***p(Gender)= 0.0007; p(Age)=<0.0001; p(Age\*Gender)=<0.0001;***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Age* | *Estimate[95%CI],N Female* | *Estimate[95%CI],N Male* | *Difference* | *p value* |
| Overall 2.15[1.96-2.34], 121 2.61[2.43-2.79], 133 -0.46[-0.72--0.20] 0.0007\* | | | | |
| 1 1.01[0.21-1.82], 6 0.82[-0.32-1.95], 3 0.19[-1.20-1.59] 0.78 | | | | |
| 2 0.54[-0.60-1.67], 3 0.83[0.18-1.49], 9 -0.30[-1.61-1.02] 0.66 | | | | |
| 3 1.67[1.01-2.32], 9 0.73[-0.26-1.71], 4 0.94[-0.24-2.12] 0.12 | | | | |
| 4 1.31[0.33-2.29], 4 1.09[0.47-1.71], 10 0.22[-0.95-1.38] 0.71 | | | | |
| 5 1.57[0.95-2.19], 10 1.59[0.93-2.25], 9 -0.02[-0.92-0.89] 0.97 | | | | |
| 6 1.70[1.05-2.36], 9 1.91[1.29-2.54], 10 -0.21[-1.12-0.69] 0.64 | | | | |
| 7 2.09[1.40-2.79], 8 2.94[2.32-3.56], 10 -0.85[-1.78-0.09] 0.075 | | | | |
| 8 3.61[2.92-4.31], 8 2.44[1.82-3.06], 10 1.17[0.24-2.10] 0.0142\* | | | | |
| 9 2.77[2.03-3.52], 7 3.11[2.45-3.76], 9 -0.34[-1.33-0.66] 0.51 | | | | |
| 10 3.49[2.86-4.11], 10 3.40[2.78-4.03], 10 0.08[-0.80-0.96] 0.85 | | | | |
| 11 3.86[3.21-4.52], 9 4.18[3.49-4.88], 8 -0.32[-1.27-0.64] 0.51 | | | | |
| 12 3.27[2.65-3.89], 10 3.65[3.03-4.28], 10 -0.38[-1.26-0.50] 0.39 | | | | |
| 13 3.65[2.99-4.31], 9 4.89[4.29-5.48], 11 -1.24[-2.12--0.35] 0.0064\* | | | | |
| 14 1.41[0.79-2.03], 10 5.08[4.45-5.70], 10 -3.66[-4.54--2.78] <0.0001\* | | | | |
| 15 0.33[-0.33-0.98], 9 2.50[1.88-3.12], 10 -2.17[-3.08--1.27] <0.0001\* | | | | |