**Supplemental Figures:** MR Regression Scatter Plots

Chart

Description automatically generated

**1. MFA Whole Body aBMD (sex combined)**

**Chart, scatter chart

Description automatically generated**

**2. MFA Lumbar Spine aBMD (sex combined)**

**Chart

Description automatically generated**

**3. MFA Femoral Neck aBMD (sex combined)**

**Chart

Description automatically generated**

**4. MFA Forearm aBMD (sex combined)**

**Chart, scatter chart

Description automatically generated**

**5. MFA Lumbar Spine aBMD (females)**

**Chart, scatter chart

Description automatically generated**

**6. MFA Femoral Neck aBMD (females)**

**Chart

Description automatically generated**

**7. MFA Lumbar Spine aBMD (males)**

**Chart, scatter chart

Description automatically generated**

**8. MFA Femoral Neck aBMD (males)**

**Chart

Description automatically generated**

**9. MFA Whole Body aBMD (60 + years)**

**Chart

Description automatically generated**

**10. MFA Whole Body aBMD (45-60years)**

**Chart, box and whisker chart

Description automatically generated**

**11. MFA Whole Body aBMD (30-45 years)**

**Chart, scatter chart

Description automatically generated**

**12. MFA Whole Body aBMD (15-30 years)**

**Chart

Description automatically generated**

**13. MFA Whole Body aBMD (< 15 years)**

**Chart, scatter chart

Description automatically generated**

**14. Percent Body Fat Whole Body aBMD (sex combined)**

**Chart, scatter chart

Description automatically generated**

**15. Percent Body Fat Lumbar Spine aBMD (sex combined)**

**Chart, scatter chart

Description automatically generated**

**16. Percent Body Fat Femoral Neck aBMD (sex combined)**

**Chart, scatter chart

Description automatically generated**

**17. Percent Body Fat Forearm aBMD (sex combined)**

**Chart, scatter chart

Description automatically generated**

**18. Percent Body Fat Lumbar Spine aBMD (females)**

**Chart, scatter chart

Description automatically generated**

**19. Percent Body Fat Femoral Neck aBMD (females)**

**Chart, scatter chart

Description automatically generated**

**20. Percent Body Fat Lumbar Spine aBMD (males)**

**Chart, scatter chart

Description automatically generated**

**21. Percent Body Fat Femoral Neck aBMD (males)**

**Chart, scatter chart

Description automatically generated**

**22. Percent Body Fat Whole Body aBMD (60 + years)**

**Chart, scatter chart

Description automatically generated**

**23. Percent Body Fat Whole Body aBMD (45-60years)**

**Chart, scatter chart

Description automatically generated**

**24. Percent Body Fat Whole Body aBMD (30-45 years)**

**Chart, scatter chart

Description automatically generated**

**25. Percent Body Fat Whole Body aBMD (15-30 years)**

**Chart, scatter chart

Description automatically generated**

**26. Percent Body Fat Whole Body aBMD (< 15 years)**