



Fig. E-1

Phantom model for experimental cup positions. **Fig. E-1A** Phantom model constructed to scale to represent an anatomic pelvis with markers for the anterior superior iliac spines and pubic symphysis (arrows). **Fig. E-1B** The acetabular cups mounted on two Plexiglas bases with fixed inclination of 35° in one and 50° in the other. The protractor angles were used to vary the anteversion. A block with 5° steps was used to tilt the phantom model to simulate tilt.