

Figs. E1-A through E1-F Guidewire alignment jigs and experimental apparatus. **Fig. E-1A** Lateral Pin Jig 1 (LP1). **Fig. E-1B** Lateral Pin Jig 2 (LP2). **Fig. E-1C** Neck Centering Jig 1 (NC1). **Fig. E-1D** Neck Centering Jig 2 (NC2). **Fig. E-1E** Head Planing Jig (HP); **Fig. E-1F** Foam model of left hip with cadaver femur shown.

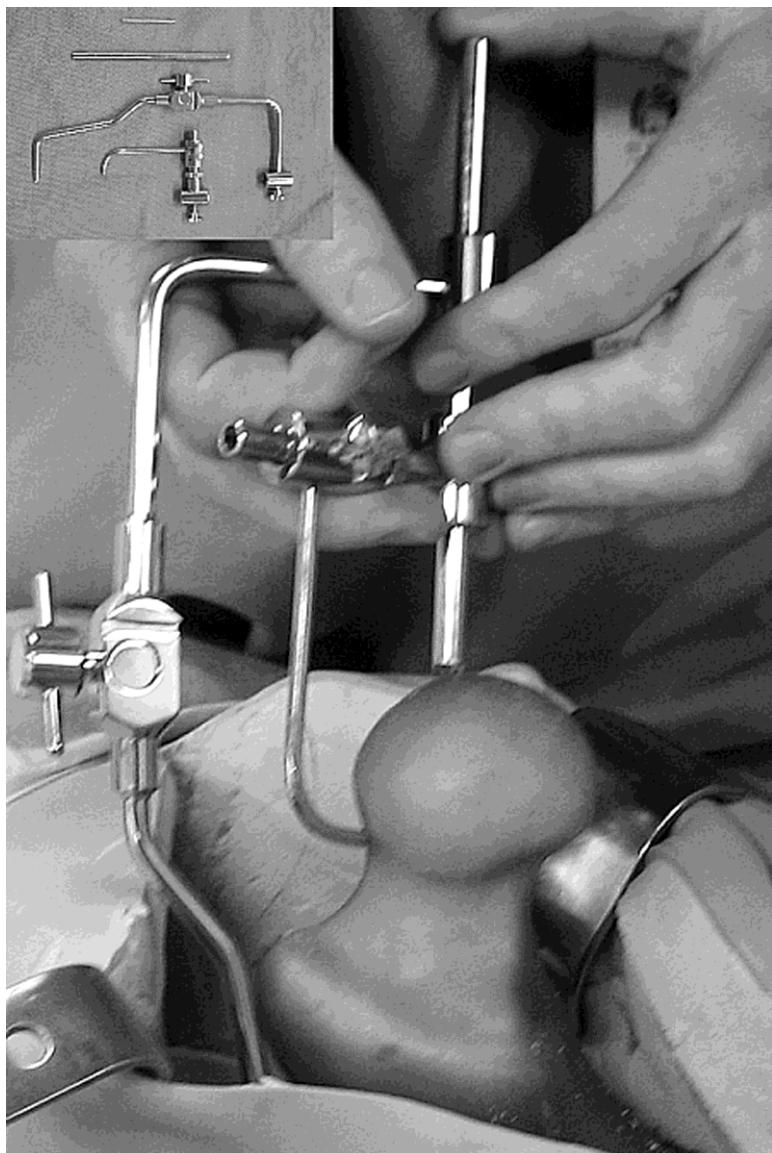


Fig. E-1A

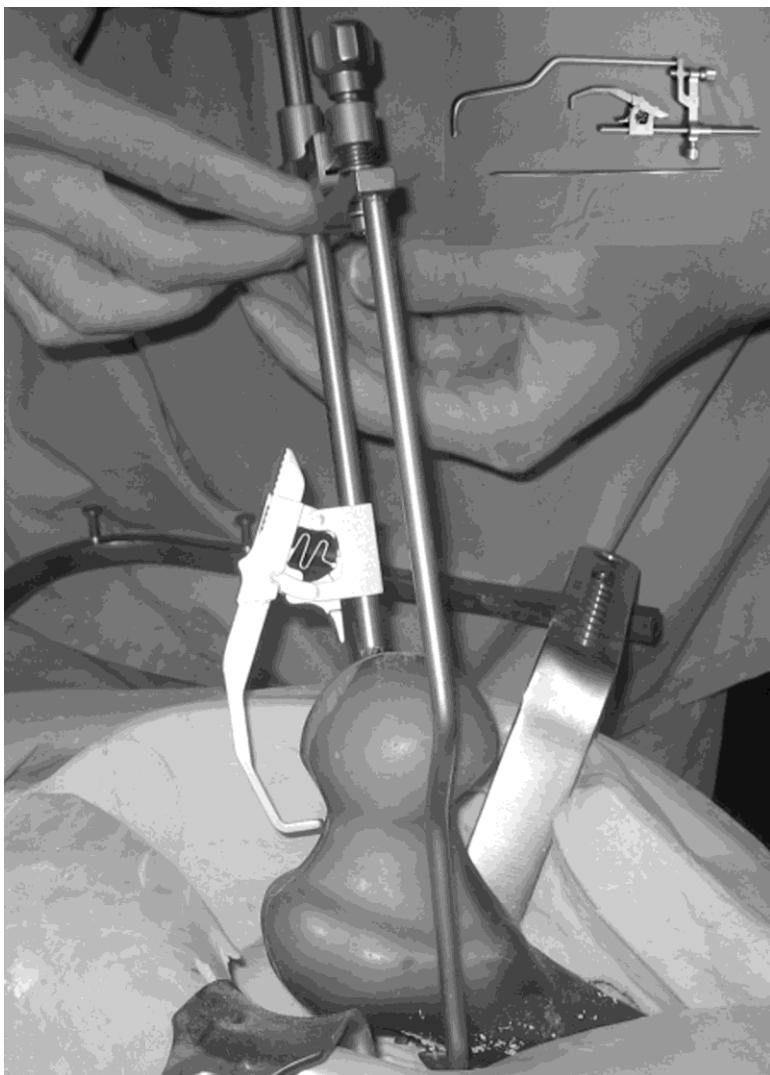


Fig. E-1B

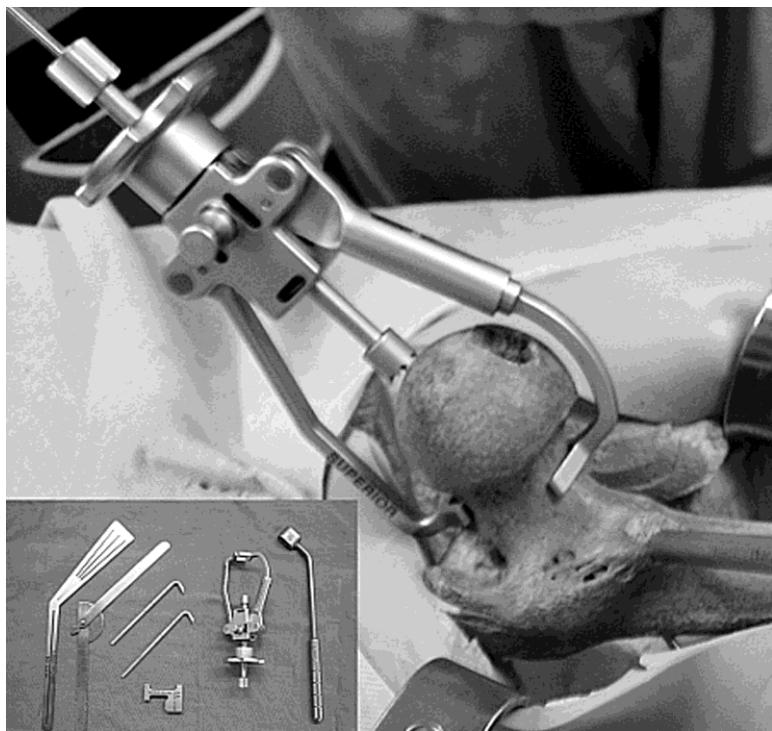


Fig. E-1C

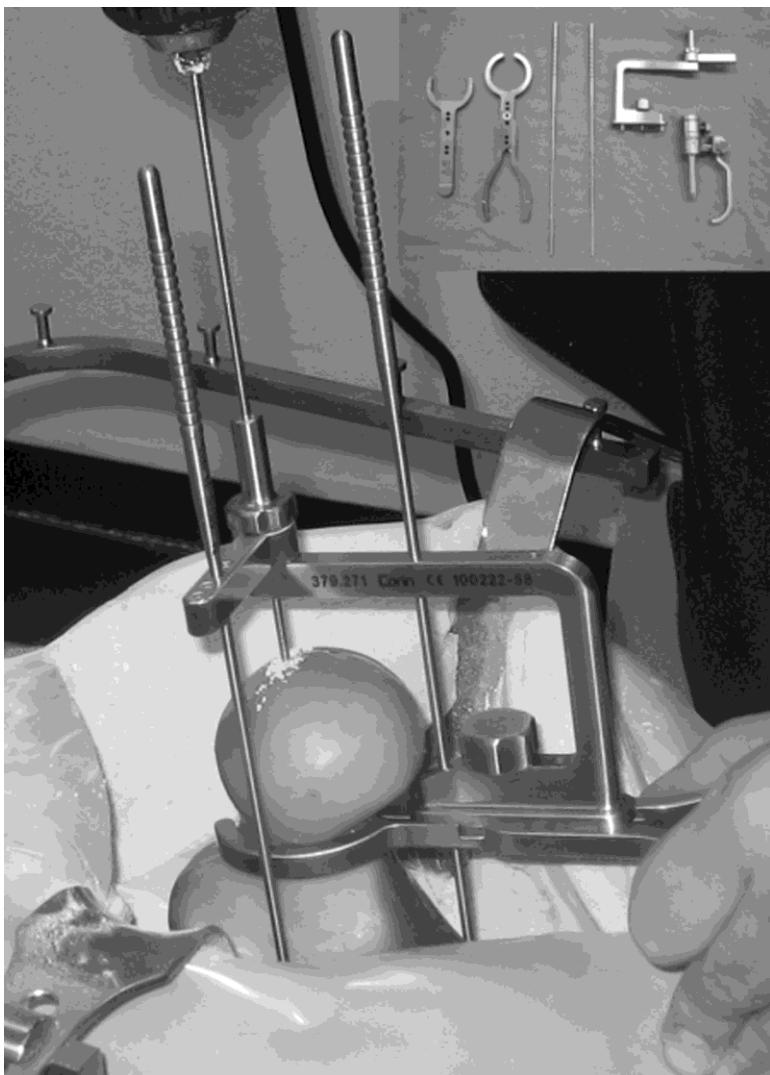


Fig. E-1D



Fig. E-1E

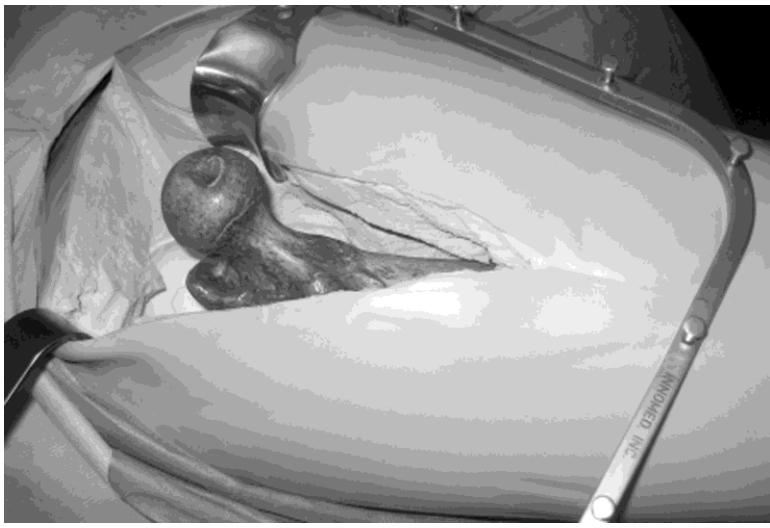


Fig. E-1F

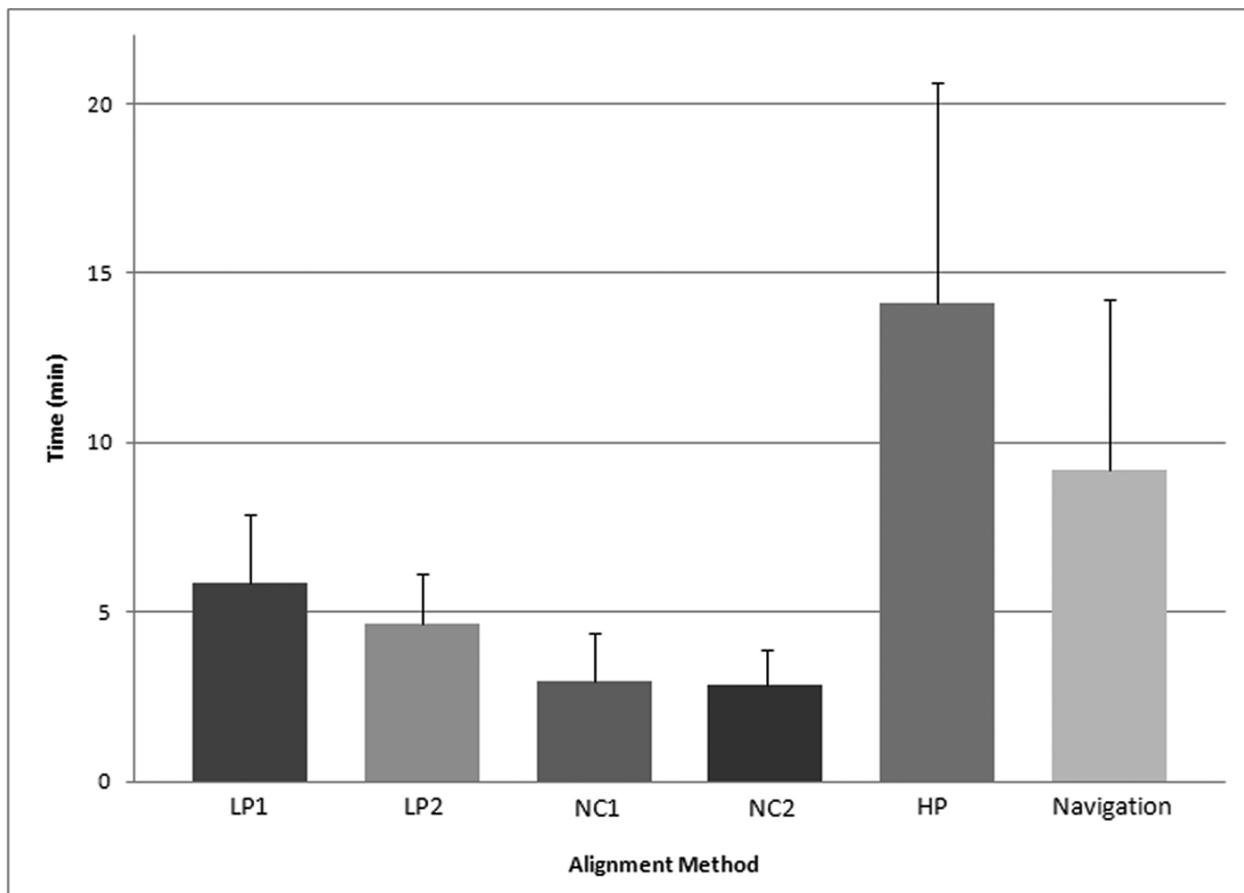


Fig. E-2

Bar graph illustrating the mean guidewire insertion times (and standard deviation) according to each alignment method. LP1 = Lateral Pin Jig 1, LP2 = Lateral Pin Jig 2, NC1 = Neck Centering Jig 1, NC2 = Neck Centering Jig 2, and HP = Head Planing Jig.