

TABLE E-1 Ten-year Follow-up Reports on Cementless Stems

Author –Year	Stem	Avg. Follow-up	Hips	Thigh Pain	Aseptic Loosening	Survival Analysis
†Engh et al. <sup>1</sup> 1997	AML <sup>c</sup>	11 years	174	13 (8%)	3 (2%)	97% at 12 years.*
McLaughlin and Lee <sup>24</sup> 1997	Taperloc <sup>t</sup>	10 years	114	6 (5%)	4 (4%)	96% at 11 years.**
Burt et al. <sup>22</sup> 1998	Tri-Lock <sup>c</sup>	10 years	66	4 (6%)	2 (3%)	93% at 10 years.*
†Xenos et al. <sup>9</sup> 1999	PCA <sup>c</sup>	11.6 years	77	9 (12%)	5 (6%)	97% at 10 years.*
†Kim et al. <sup>6</sup> 1999	AML	11.3 years	52	13 (25%)	3 (6%)	94% at 11 years.*
†Sakalkale et al. <sup>8</sup> 1999	Tri-Lock	11.5 years	71	1 (1%)	3 (4%)	Not reported.
Hellman et al. <sup>20</sup> 1999	Omnifit <sup>c</sup>	10 years	76	3 (4%)	2 (3%)	96% at 10 years.**
Clohisy and Harris <sup>23</sup> 1999	Harris-Galante <sup>t</sup>	10.5 years	77	Not reported.	19 (25%)	82% at 10 years.**
McLaughlin and Lee <sup>25</sup> 2000	Taperloc	10.2 years	100	2 (2%)	0 (0%)	98% at 12 years.**
†Keisu et al. <sup>5</sup> 2001	Lord <sup>c</sup>	12.8 years	81	Not reported.	4 (5%)	94% at 13 years.**
Nercessian et al. <sup>26</sup> 2001	AML	10.5 years	52	4 (8%)	0 (0%)	Not reported.
†Kawamura et al. <sup>4</sup> 2001	PCA	12 years	156	56 (36%)	15 (10%)	95% at 10 years.**
Archibeck et al. <sup>21</sup> 2001	Anatomic <sup>t</sup>	10 years	78	7 (9%)	0 (0%)	100% at 10 years.*
†Mallory et al. <sup>7</sup> 2001	Mallory-Head <sup>t</sup>	12 years	120	8 (7%)	3 (3%)	Not reported.
†Grubl et al. <sup>2</sup> 2002	Zweymuller <sup>t</sup>	12 years	133	4 (3%)	0 (0%)	99% at 10 years.**
†Healy et al. <sup>3</sup> 2002	PCA	12.3 years	39	10 (26%)	4 of cohort 53 (8%)	87% at 13 years.**
†Present Report	Bi-Metric <sup>t</sup>	10.4 years	105	2 (2%)	0 (0%)	100% at 10 years.*

\* = Failure defined as aseptic loosening.

\*\* = Failure defined as component revision.

† = Minimum ten-year follow-up.

c = Cobalt-chrome. t = Titanium alloy (Ti 6Al 4V).