



Delee e Chernley

Given modes of failure of several component

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|---------------------------------|---|
| I Pistoning | A stem in cement
B stem cement within bone |
| II Medial stem pivot | 1, 7, 3, 4, 5 |
| III Calcaneal pivot | 3, 4, 5 |
| IV Bending cantilever (fatigue) | 1 7
2 6 |