Appendix:

Table A1: Reasons for Exclusion

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| **Reasons for Exclusion** | **Number of Patients N=376** | **Number of Patients Excluded Due to Randomization Errors** | | | | |
| **CS**  **N=43** | **SHS**  **N=43** | **Vitamin D**  **N=45** | **Placebo**  **N=41** | **Total**  **N=86** |
| **Inclusion Criteria** | | | | |  |  |
| The patient is not between the ages of 18 and 60 years | 21 (5.6) | 1 (2.3) | 0 (0.0) | 0 (0.0) | 1 (2.5) | 1 (1.2) |
| The patient does not have a femoral neck fracture | 1 (0.3) | 0 (0.0) | 1 (2.3) | 0 (0.0) | 1 (2.5) | 1 (1.2) |
| The fracture is not amenable to both surgical treatments (SHS and CS) | 113 (30.1)\* | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| Operative treatment will not take place within 7 days of injury | 16 (4.3) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| Exclusion Criteria | | | | |  |  |
| The patient has previously been diagnosed with osteoporosis | 7 (1.9) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| The patient has a fracture-dislocation of the femoral neck and hip joint | 2 (0.5) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| The patient has planned antegrade nailing of an ipsilateral femoral shaft fracture (if present) | 2 (0.5) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| The patient has an infection around the hip (i.e. soft tissue or bone) | 1 (0.3) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| The patient has a stress fracture of the femoral neck | 9 (2.4) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| This is a pathological fracture secondary to neoplasm or other bone lesion | 6 (1.6) | 1 (2.3) | 0 (0.0) | 0 (0.0) | 1 (2.5) | 1 (1.2) |
| The patient has a known or likely undiagnosed disorder of bone metabolism such as Paget’s disease, osteomalacia, osteopetrosis, osteogenesis imperfect, etc | 7 (1.9) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| The patient is currently taking an over counter drug and/or food supplement that contains vitamin D and is unable or unwilling to discontinue its use for this trial | 11 (2.9) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| There are likely problems, in the judgement of the attending surgeon, with maintaining follow-up (e.g. patients with no fixed address, plans to move out of town). This may include patients with severe mental disorders and drug addictions without adequate support | 25 (6.6) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| The patient is pregnant | 1 (0.3) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| The patient is incarcerated | 1 (0.3) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| The patient is not expected to survive their injuries | 4 (1.1) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| The patient or substitute decision maker has not provided informed consent | 24 (6.4) | 0 (0.0) | 2 (4.7) | 1 (2.2) | 1 (2.5) | 2 (2.3) |
| The patient is eligible, but was not randomized due to error | 34 (9.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |

CS=Cancellous screws; SHS=Sliding hip screw