## Report for IMPRESS DSMB: Prepared December 2010

## Part A: Number of Patients Included and Excluded

There have been 66 patients enrolled in IMPRESS as of Dec 01, 2010. Target enrollment is 160 patients.

Figure 1 presents the overall study status.
Figure 2 shows the cumulative enrollment of patients by month.
Table 1 presents the recruitment in the 28 centers who are participating in IMPRESS, and a month by month picture of the recruitment each center has achieved.

## Part B: Summary of patient randomization

Table 2 presents the number of patients by fracture type and treatment assignment. 35 patients were randomized to Treatment A and 31 to Treatment B. Of the 28 open fractures, 14 were randomized to Treatment A (50\%) and 14 to Treatment B (50\%). Of the 38 closed fractures, 21 were randomized to Treatment A (55.2\%) and 17 to Treatment B (44.7\%).No patients were found to have crossed over from one treatment arm to the other.

## Part C: Patients lost to follow-up, withdrew consent, ineligible

Table 3 shows the patients with early study exits. So far, 12 of the 66 patients enrolled have exited the study early $(18.18 \%)$. 11 patients have been lost to follow-up ( $16.67 \%$ ) and 1 patient died from injuries unrelated to the research study or device ( $1.5 \%$ ). No patients voluntarily withdrew consent. 3 patients were randomized but were not enrolled due to discovery of an ineligible fracture patterns and were removed from the study. 1 subject was not enrolled after randomization as he was mentally impaired.

## Part D: Summary of Adverse Events

Table 4a shows the event rates as of Dec 1, 2010. There have been 12 reported Adverse Events in 10 subjects resulting in a 14.3 percent AE rate in Treatment A , and a 15.8 percent AE rate for Treatment B. Of all 12 events, 4 were definitely not related to the device, 6 were possibly related, and 1 was probably not related and 1 was unknown. 6 of the events were mild, 4 events were moderate, and 2 of the events were considered serious. Of the serious events, 1 was definitely not related to the treatment and the other was probably not related to the treatment.
Table 4b contains the descriptions of the reported Adverse Events
Figure 2: Cumulative enrollment by month:

Table 1: Enrollment by Site. Dec. 2006 through November 2009:

| Site \# | $\begin{aligned} & \text { IRB } \\ & \text { Date } \end{aligned}$ | Dec-06 | Jan-07 | Feb-07 | Mar-07 | Apr-07 | May-07 | Jun-07 | Jul-07 | Aug-07 | Sep-07 | Oct-07 | Nov-07 | Dec-07 | Jan-08 | Feb-08 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 01 | May-07 | X | X | X | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 02 | Dec-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 03 | Oct-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04 | May-07 | X | X | X | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05 | May-07 | X | X | X | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 06 | Nov-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 07 | Mar-07 | X | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08 | Jun-07 | X | X | X | X | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09 | Apr-07 | X | X | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | Nov-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | Mar-08 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 12 | May-08 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 13 | May-08 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 14 | Jul-07 | X | X | X | X | X | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | Dec-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 16 | Feb-07 | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | Dec-06 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 18 | Mar-08 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 19 | May-07 | X | X | X | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | Mar-07 | X | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | May-07 | X | X | X | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | May-07 | X | X | X | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| 23 | Jun-08 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 24 | May-09 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 25 | Jun-07 | X | X | X | X | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | Apr-07 | X | X | X | X | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | Jul-07 | X | X | X | X | X | X | X | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |
| 28 | Nov-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | Jan-09 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 30 | Apr-07 | X | X | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31 | Dec-07 | X | X | X | X | X | X | X | X | X | X | X | X | 0 | 0 | 0 |
| Enrolled Cumulative Total Sites |  | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 4 | 3 | 0 | 1 |
|  |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 4 | 4 | 4 | 8 | 11 | 11 | 12 |
|  |  | 7 | 7 | 7 | 8 | 13 | 18 | 21 | 23 | 23 | 23 | 23 | 23 | 24 | 24 | 24 |

Table 1 continued:

| Site \# | Date | Mar-08 | Apr-08 | May-08 | Jun-08 | Jul-08 | Aug-08 | Sep-08 | Oct-08 | Nov-08 | Dec-08 | Jan-09 | Feb-09 | Mar-09 | Apr-09 | May-09 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 01 | May-07 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 02 | Dec-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 03 | Oct-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04 | May-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05 | May-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 06 | Nov-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07 | Mar-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08 | Jun-07 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09 | Apr-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | Nov-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 11 | Mar-08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | May-08 | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 13 | May-08 | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | Jul-07 | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | Dec-06 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 |
| 16 | Feb-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | Dec-06 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 18 | Mar-08 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 19 | May-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | May-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | May-07 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | May-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | Jun-08 | X | X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 | May-09 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 0 |
| 25 | Jun-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | Apr-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| 27 | Jul-07 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | Nov-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | Jan-09 | X | X | X | X | X | X | X | X | X | X | 0 | 0 | 0 | 0 | 0 |
| 30 | Apr-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31 | Dec-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Enrolled Cumulative Total Sites |  | 2 | 2 | 1 | 5 | 2 | 0 | 2 | 4 | 0 | 2 | 3 | 0 | 2 | 1 | 2 |
|  |  | 14 | 16 | 17 | 22 | 24 | 24 | 26 | 30 | 30 | 32 | 35 | 35 | 37 | 38 | 40 |
|  |  | 27 | 27 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 30 | 30 | 30 | 30 | 31 |

Table 1 Continued

| Site \# | IRB Date | Jun-09 | Jul-09 | Aug-09 | Sep-09 | Oct-09 | Nov-09 | Dec-09 | Jan-10 | Feb-10 | Mar-10 | Apr-10 | May-10 | Jun-10 | Jul-10 | Aug-10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 01 | May-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 02 | Dec-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 03 | Oct-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04 | May-07 | 0 | 0 | 0 | 0 | 0 | 0 | X | X | X | X | x | X | x | X | X |
| 05 | May-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 06 | Nov-06 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 07 | Mar-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08 | Jun-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 09 | Apr-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | X | X | X | X | X | X | X |
| 10 | Nov-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | Mar-08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 12 | May-08 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 |
| 13 | May-08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | X | X | X | X | X | X | X | X |
| 14 | Jul-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | Dec-06 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 16 | Feb-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | Dec-06 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 | Mar-08 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 19 | May-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | Mar-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | May-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
| 22 | May-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | Jun-08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 | May-09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | Jun-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | Apr-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | Jul-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | Nov-06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | Jan-09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 | Apr-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 31 | Dec-07 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Enrolled | 3 | 0 | 0 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 5 |
|  | Cumulative | 43 | 43 | 43 | 45 | 46 | 47 | 49 | 51 | 52 | 54 | 56 | 57 | 58 | 60 | 65 |
|  | Total Sites | 31 | 31 | 31 | 31 | 31 | 31 | 30 | 29 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |

Table 1 Continued

| Site \# | IRB Date | Sep-10 | Oct-10 | Nov-10 |
| :---: | :---: | ---: | ---: | ---: |
| 01 | May-07 | 0 | 0 | 0 |
| 02 | Dec-06 | 0 | 0 | 0 |
| 03 | Oct-06 | 0 | 0 | 0 |
| 04 | May-07 | X | X | X |
| 05 | May-07 | 0 | 0 | 0 |
| 06 | Nov-06 | 0 | 0 | 0 |
| 07 | Mar-07 | 0 | 0 | 0 |
| 08 | Jun-07 | 0 | 0 | 0 |
| 09 | Apr-07 | X | X | X |
| 10 | Nov-06 | 0 | 0 | 0 |
| 11 | Mar-08 | 0 | 0 | 0 |
| 12 | May-08 | 0 | 0 | 0 |
| 13 | May-08 | X | X | X |
| 14 | Jul-07 | 0 | 0 | 0 |
| 15 | Dec-06 | 0 | 0 | 0 |
| 16 | Feb-07 | 0 | 0 | 0 |
| 17 | Dec-06 | 0 | 0 | 0 |
| 18 | Mar-08 | 0 | 0 | 0 |
| 19 | May-07 | 0 | 0 | 0 |
| 20 | Mar-07 | 0 | 0 | 0 |
| 21 | May-07 | 0 | 0 | 0 |
| 22 | May-07 | 0 | 0 | 0 |
| 23 | Jun-08 | 0 | 0 | 0 |
| 24 | May-09 | 0 | 0 | 0 |
| 25 | Jun-07 | 0 | 0 | 0 |
| 26 | Apr-07 | 0 | 0 | 0 |
| 27 | Jul-07 | 0 | 0 | 0 |
| 28 | Nov-06 | 0 | 0 | 0 |
| 29 | Jan-09 | 0 | 0 | 0 |
| 30 | Apr-07 | 0 | 0 | 1 |
| 31 | Dec-07 | 0 | 0 | 0 |
|  | Enrolled | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{1}$ |
|  | Cumulative | $\mathbf{6 5}$ | $\mathbf{6 5}$ | $\mathbf{6 6}$ |
| Total Sites |  |  | 28 | 28 |
| $\mathbf{y}$ | 28 |  |  |  |

Part B: Summary of patient randomization

Table 2: Enrollment by Fracture Type and Treatment Assignment:

|  | Treatment A |  |  | Treatment B |  |  | Total |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Site \# | Open | Closed | Total | Open | Closed | Total | Open | Closed | Total |
| 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 0 | 2 | 2 | 0 | 1 | 1 | 0 | 3 | 3 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 2 | 0 | 2 | 1 | 0 | 1 | 3 | 0 | 3 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 0 | 3 | 3 | 0 | 4 | 4 | 0 | 7 | 7 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| 15 | 3 | 1 | 4 | 4 | 2 | 6 | 7 | 3 | 10 |
| 16 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| 17 | 1 | 4 | 5 | 2 | 4 | 6 | 3 | 8 | 11 |
| 18 | 2 | 1 | 3 | 2 | 2 | 4 | 4 | 3 | 7 |
| 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| 21 | 2 | 2 | 4 | 1 | 0 | 1 | 3 | 2 | 5 |
| 22 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 1 | 2 |
| 23 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 1 | 1 | 2 | 1 | 0 | 1 | 2 | 1 | 3 |
| 27 | 1 | 2 | 3 | 0 | 1 | 1 | 1 | 3 | 4 |
| 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 | 2 | 1 | 3 | 1 | 0 | 1 | 3 | 1 | 4 |
| 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 14 | 21 | 35 | 14 | 17 | 31 | 28 | 38 | 66 |

Table 3: Patients lost to follow-up, withdrew consent, ineligible:

| Site <br> $\#$ | Pt ID | Date of <br> Enrollment | Date of Last <br> Follow-up | Reason |
| :--- | :--- | :--- | :--- | :--- |
| 01 | $1-01$ | $3 / 5 / 2008$ | $5 / 23 / 2008$ | Patient moved away |
| 06 | $6-01$ | $11 / 5 / 2007$ | $1 / 4 / 2008$ | Reason unknown - patient lost to follow-up |
| 10 | $10-01$ | $1 / 5 / 2009$ | no follow-up | Patient is mentally Impaired and has not been able to <br> comply with F/Us |
| 15 | $15-02$ | $6 / 6 / 2008$ | $8 / 5 / 2008$ | Reason unknown - patient lost to follow-up |
| 15 | $15-04$ | $10 / 31 / 2008$ | No follow-up | Reason unknown-patient lost to follow-up. |
| 17 | $17-03$ | $11 / 3 / 2007$ | no follow-up | Patient moved away |
| 18 | $18-03$ | $09 / 21 / 08$ | $01 / 08 / 2009$ | Homeless and unreachable. |
| 20 | $20-01$ | $10 / 23 / 2008$ | - | Patient withdrawn (by study team) |
| 21 | $21-01$ | $7 / 29 / 2008$ | - | Patient withdrawn (by study team) |
| 26 | $26-01$ | $7 / 11 / 2007$ | no follow-up | Reason unknown - patient lost to follow-up |
| 26 | $26-02$ | $1 / 20 / 2009$ | - | Patient withdrawn (by study team) |
| 27 | $27-01$ | $11 / 20 / 2007$ | $1 / 3 / 2008$ | Reason unknown - patient lost to follow-up |
| 27 | $27-02$ | $12 / 28 / 2007$ | no follow-up | Reason unknown - patient lost to follow-up |
| 27 | $27-03$ | $2 / 10 / 2008$ | $6 / 30 / 2008$ | Reason unknown - patient lost to follow-up |
| 27 | $27-04$ | $4 / 6 / 2008$ | no follow-up | Reason unknown - patient lost to follow-up |
| 30 | $30-01$ | $10 / 20 / 2008$ | - | Patient deceased |

Table 4a: Adverse Event rates by treatment and fracture type:

|  | Total Events | Total Patients w/ Events | Enrollment (Adverse Event Rate\%) |
| :---: | :---: | :---: | :---: |
| Treatment A | 8 | 6 | 35 (17.1) |
| Open | 2 | 2 | 14 (14.3) |
| Closed | 6 | 4 | 21 (19) |
| Treatment B | 4 | 4 | 31 (12.9) |
| Open | 2 | 2 | 14(14.3) |
| Closed | 2 | 2 | 17 (11.8) |
| Total | 12 | 10 | 66 (15.15) |
| Open | 4 | 4 | 28 (14.3) |
| Closed | 8 | 6 | 38 (15.8) |

Table 4b: Adverse Event descriptions:

| Site \# | Patient ID | Treatment | Fx Type | AE Date | Related | Severity | Expected | Description |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 01 | 1-01 | A | CLOSED | 5/23/2008 | Possibly | Mod | NO | 30 DEGREE APEX <br> ANTERIOR ANGULATION NOTED ON XRAY - R TIBIA |
| 01 | 1-01 | A | CLOSED | 9/15/2008 | Def Not | Mod | NO | INFECTION - DEEP |
| 01 | 1-01 | A | CLOSED | 6/23/2009 | Def Not | Mod | NO | WOUND BREAKDOWN RIGHT PROXIMAL TIBIA SURGICAL SITE. |
| 17 | 17-01 | A | CLOSED | 11/6/2007 | Possibly | Mild | NO | PAINFUL IMPLANT SCREW |
| 18 | 18-05 | A | OPEN | 04/08/10 | Possibly | Mild | NO | NON-UNION |
| 30 | 30-01 | A | OPEN | 10/28/2008 | Def Not | Sev | NO | MULTITRAUMA/STROKE/I NTRACRANIAL HYPERTENSION |
| 12 | 12-03 | A | CLOSED | 06/24/2010 | Likely | Mild | NO | PAINFUL IMPLANT: SCREW |
| 30 | 30-04 | A | CLOSED | 11/03/2010 | Possibly | Mild | NO | Compartment Syndrome |
| 01 | 1-02 | B | CLOSED | 4/19/2008 | Def Not | Sev | NO | ASPIRATION PNEUMONIA |
| 15 | 15-03 | B | CLOSED | 3/24/2009 | Possibly | Mild | NO | NON-UNION |
| 26 | 26-03 | B | OPEN | 6/3/2009 | Unknown | Mild | NO | INFECTION - SUPERFICIAL |
| 18 | 18-07 | B | OPEN | 09/07/2010 | Possibly | Mod | NO | Wound healing difficulty |

