# Supplementary tables and figures

**Supplementary Table 1.** Scores by the two independent observers for arterial, venous, and fat suppression of the 3D CRANI sequence. Suppression was scored using a 3-point Likert scale (0: unsuppressed and nondiagnostic; 1: moderately suppressed but diagnostic; 2: excellent suppression). A nerve scoring system using a 5-point Likert scale was adopted from Fuji et al. (4: excellent; 3: good; 2: fair; 1: poor; 0: none).

| Case number | Sex | Age | Observer 1 | | | | | | | | Observer 2 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Arterial suppression | Venous suppression | Fat suppression | Overall nerve visualization | Inferior alveolar nerve | Lingual nerve | Facial nerve | Greater occipital nerve | Arterial suppression | Venous suppression | Fat suppression | Overall nerve visualization | Inferior alveolar nerve | Lingual nerve | Facial nerve | Greater occipital nerve |
| 1 | Female | 25 | 2 | 1 | 2 | 1 | 3 | 3 | 3 | 4 | 2 | 1 | 2 | 1 | 3 | 3 | 3 | 4 |
| 2 | Male | 28 | 2 | 2 | 1 | 2 | 4 | 4 | 1 | 4 | 2 | 2 | 2 | 2 | 4 | 4 | 1 | 4 |
| 3 | Male | 25 | 2 | 1 | 2 | 1 | 3 | 3 | 3 | 3 | 2 | 1 | 2 | 1 | 3 | 3 | 2 | 3 |
| 4 | Male | 23 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 |
| 5 | Female | 48 | 2 | 2 | 1 | 2 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 |
| 6 | Female | 44 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 |

**Supplementary Figure 1.** Pseudo-steady state (PSS) sweep curves indicating the minimum, middle, and maximum angles. After reaching the minimum angle, non-linear interpolation is used to calculate an optimum sweep, while trying to keep the signal constant.
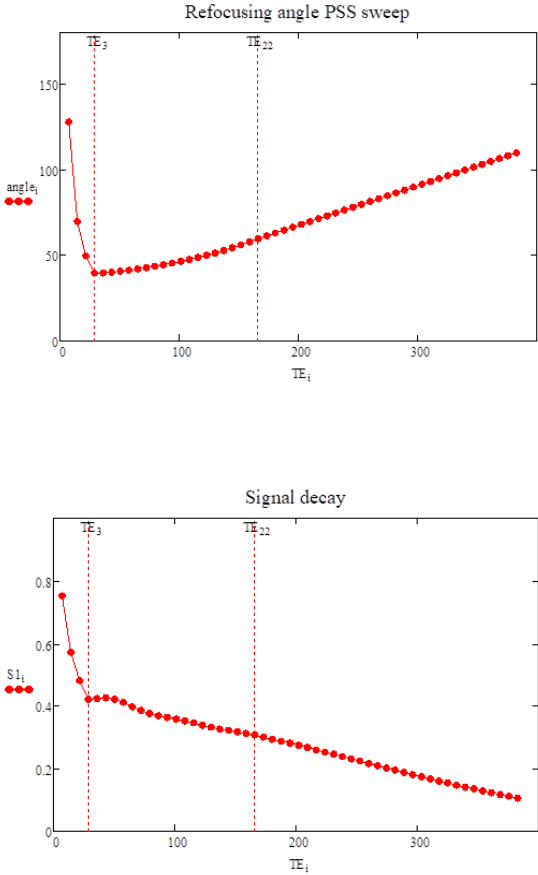
**Supplementary Figure 2.** Comparison of some contemporary magnetic resonance sequences and the newly introduced 3D CRANI sequence in a subject with titanium osteosynthesis material in the left mandible. Notice the artifact reduction when the 3D CRANI sequence is applied. The inferior alveolar nerve is indicated (white arrow). A: 3D CRANI sequence. B: 3D PSIF (reverse fast imaging with steady-state free precession). C: 3D Brainview (Philips, Best, The Netherlands). D: 3D THRIVE (T1 high-resolution isotropic volume excitation).