**CT and MRI scanning of cetaceans for blast injury and Anatomy studies.**

Diagnostic Health Imaging Center

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24” bore diameter MRI

**Alaska Innovative Imaging**

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| 2110 East Northern Lights Boulevard  Anchorage, AK 99508  [(907) 561-7318](tel:%28907%29%20561-7318)  Carrie said they have some some studies for them…. |

**CT imaging**

Dorsal fin may present an object to scanning. Fin can be taped down or removed by cutting.

Imaging protocol multi slice scanner:

Best case image capture is 0.5mm slices through entire body (tip to tail). However, if this is not feasible:

0.5mm slice thickness through each individual ear, axial scan mode, bone reconstruction algorithm only

0.5- 3 mm slice thickness through the entire head and 0.5-3mm slices thickness through the thorax and abdomen using soft tissue and bone reconstruction algorithms. Helical scan mode can be used (pitch equivalent to single slice pitch of 1.4-1.7)

Imaging protocol single slice scanner:

1 mm slices through entire body (tip to tail). However, if this is not feasible:

1 mm slice thickness through each individual ear (if possible) or both ears simultaneously, bone reconstruction algorithm only

1-3mm slice thickness through the head and1- 3mm slice thickness through the thorax and abdomen using soft tissue and bone reconstruction algorithms. Helical scan mode can be used with pitch 1.4-1.7

**MR Imaging –GE  3T (?)**

Images acquired in the axial (human coronal) plane. T2 weighted images

Do all three directions in 2D (if  time feasible)

Imaging protocol parameters: slice thickness = 0.7 mm, slice interleave (interval) = 0 mm, Time to repetition (TR) = 3000 ms, Time to echo (TE) = 13 ms, field of view = 150 mm, matrix = 256 × 256 pixels.

Alternative (whole body)3-D FSPGR protocol: TR-8.1; TE 3.2; Bandwidth 31.3; Inversion time 600 1mm slices with 0 space interval; Field of View 28 x 22; Matrix 256 x 256

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