Appendix A

Figure A1: Intermittent Iso-pressure Breath Hold (IIBH) ventilator hardware triggering circuit.
Appendix B

Figure B1: Group 1 / Mouse 1, RECIST tumor size (mm) versus time for each nodule.
Figure B2: Group 1 / Mouse 1, WHO tumor size (mm) versus time for each nodule.
Figure B3: Group 1 / Mouse 1, Ortho tumor size (mm) versus time for each nodule.
Figure B4: Group 1 / Mouse 1, tumor volume (μl) versus time for each nodule.
Figure B5: Group 1 / Mouse 1, average CT Hounsfield (HU) value within tumor volume versus time for each nodule.
Figure B6: Group 1 / Mouse 2, RECIST tumor size (mm) versus time for each nodule.
Figure B7: Group 1 / Mouse 2, WHO tumor size (mm) versus time for each nodule.
Figure B8: Group 1 / Mouse 2, Ortho tumor size (mm) versus time for each nodule.
Figure B9: Group 1 / Mouse 2, tumor volume (µl) versus time for each nodule.
Figure B10: Group 1 / Mouse 2, average CT Hounsfield (HU) value within tumor volume versus time for each nodule.
Figure B11: Group 1 / Mouse 3, RECIST tumor size (mm) versus time for each nodule.
Figure B12: Group 1 / Mouse 3, WHO tumor size (mm) versus time for each nodule.
Figure B13: Group 1 / Mouse 3, Ortho tumor size (mm) versus time for each nodule.
Figure B14: Group 1 / Mouse 3, tumor volume (µl) versus time for each nodule.
Figure B15: Group 1 / Mouse 3, average CT Hounsfield (HU) value within tumor volume versus time for each nodule.
Figure B16: Group 2 / Mouse 1, RECIST tumor size (mm) versus time for each nodule.
Figure B17: Group 2 / Mouse 1, WHO tumor size (mm) versus time for each nodule.
Figure B18: Group 2 / Mouse 1, Ortho tumor size (mm) versus time for each nodule.
Figure B19: Group 2 / Mouse 1, tumor volume (μl) versus time for each nodule.
Figure B20: Group 2 / Mouse 1, average CT Hounsfield (HU) value within tumor volume versus time for each nodule.
Figure B21: Group 2 / Mouse 2, RECIST tumor size (mm) versus time for each nodule.
Figure B22: Group 2 / Mouse 2, WHO tumor size (mm) versus time for each nodule.
Figure B23: Group 2 / Mouse 2, Ortho tumor size (mm) versus time for each nodule.
Figure B24: Group 2 / Mouse 2, tumor volume (μl) versus time for each nodule.
Figure B25: Group 2 / Mouse 2, average CT Hounsfield (HU) value within tumor volume versus time for each nodule.
Figure B26: Group 2 / Mouse 3, RECIST tumor size (mm) versus time for each nodule.
Figure B27: Group 2 / Mouse 3, WHO tumor size (mm) versus time for each nodule.
Figure B28: Group 2 / Mouse 3, Ortho tumor size (mm) versus time for each nodule.
Figure B29: Group 2 / Mouse 3, tumor volume (μl) versus time for each nodule.
Figure B30: Group 2 / Mouse 3, average CT Hounsfield (HU) value within tumor volume versus time for each nodule.
Figure B31: Group 3 / Mouse 1, RECIST tumor size (mm) versus time for each nodule.
Figure B32: Group 3 / Mouse 1, WHO tumor size (mm) versus time for each nodule.
Figure B33: Group 3 / Mouse 1, Ortho tumor size (mm) versus time for each nodule.
Figure B34: Group 3 / Mouse 1, tumor volume (µl) versus time for each nodule.
Figure B35: Group 3 / Mouse 1, average CT Hounsfield (HU) value within tumor volume versus time for each nodule.
Figure B36: Group 3 / Mouse 2, RECIST tumor size (mm) versus time for each nodule.
Figure B37: Group 3 / Mouse 2, WHO tumor size (mm) versus time for each nodule.
Figure B38: Group 3 / Mouse 2, Ortho tumor size (mm) versus time for each nodule.
Figure B39: Group 3 / Mouse 2, tumor volume (μl) versus time for each nodule.
Figure B40: Group 3 / Mouse 2, average CT Hounsfield (HU) value within tumor volume versus time for each nodule.
Figure B41: Group 3 / Mouse 3, RECIST tumor size (mm) versus time for each nodule.
Figure B42: Group 3 / Mouse 3, WHO tumor size (mm) versus time for each nodule.
Figure B43: Group 3 / Mouse 3, Ortho tumor size (mm) versus time for each nodule.
Figure B44: Group 3 / Mouse 3, tumor volume (µl) versus time for each nodule.
Figure B45: Group 3 / Mouse 3, average CT Hounsfield (HU) value within tumor volume versus time for each nodule.
Appendix C

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Yours sincerely,

Eman Namati
Appendix D

Supplemental Data CD

Supplemental data also available at http://www.namati.com/phd/
“All material phenomena are subject to nature. All material organisms are captives of nature. None of them can deviate in the slightest from the law of nature. This earth, these great mountains, the animals with their wonderful powers and instincts cannot go beyond natural limitations. All things are captives of nature except man. Man is the sovereign of nature; he breaks nature’s laws. Though an animal fitted by nature to live upon the surface of the earth he flies in the air like a bird, sails upon the ocean and dives deep beneath its waves in submarines. Man is gifted with a power whereby he penetrates and discovers the laws of nature, brings them forth from the world of invisibility into the plane of visibility. Electricity was once a latent force of nature. According to nature’s laws it should remain a hidden secret, but the spirit of man discovered it, brought it forth from its secret depository and made its phenomena visible.”

-Abu’l-Bahá