**Multiplatform comparison study lung trajectories**

The files are in the format:

trajectory

x y z s

x y z s

.

.

.

Where x - LR (positive = left)

y - SI ( positive = superior)

z - AP (positive = posterior)

s - surrogate 1D motion

The timestep between data lines is 0.02s (50Hz)

The original Calypso data is in IEC coordinates. ‘left’ is the patient left in HFS position

The original trajectories were estimated by a Cyberknife Synchrony system (Accuray Inc., Sunnyvale, CA) at Georgetown University Hospital, during stereotactic body radiotherapy.

Suh Y, Dieterich S, Cho B, et al. An analysis of thoracic and abdominal tumour motion for stereotactic body radiotherapy patients. Phys Med Biol 2008;53:3623–3640.

The original trajectories were extended by repetition of the trajectories which were then truncated to 30 minutes. The trajectories were then smoothed using a 1Hz butterworth filter.

Plots (.png) of both original and extended trajectories are supplied.

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