

**Supplementary Figure 3.** An example of adjusting the image density on the DIBH-CT scan (A) based on the heart position in the CBCT scan (B) at the same coronal level of the same patient. The heart position in the DIBH-CT scan and CBCT scan is contoured in red and green, respectively. When calculating the dose of the heart outline corresponding to the CBCT scan on the DIBH-CT scan, the yellow region of the DIBH-CT scan, originally representing the lung density, is modified to the heart density.

