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**Figure S1:** Sample patient illustration with abnormal anatomy. Left column show coronal section of CT (a) and sCT (d). Center column PET (b) and sPET (e) and right column MIP PET (c) and MIP sPET (f). Good recovery is achieved in the upper thorax/lung region including spine and aorta. The abdominal area is more challenging, note the air pocket placed in the patient right side (arrow).