**Use of electromagnetic navigation bronchoscopy in virtual-assisted lung mapping: the effect of on-site adjustment**

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**Supplementary Figure 1. Preparation for ENB VAL-MAP using workstations. (a)** The lung map is designed using the mapping mode of Synapse Vincent®. The locational information of each planned marking is transferred to **(b)** the ENB system (superDimension™) and **(c)** a readily accessible radiology workstation (ZioCube®). In ENB, the root to reach the planned location of each marking is selected (the pink and blue line superimposed on the computed tomography images in (b)) for later real-time navigation of the bronchoscope. In the radiology workstation, the three-dimensional images are reconstructed from the DICOM data and the three-dimensional information of the marking locations. This three-dimensional image is finalized after ENB lung mapping. DICOM, digital imaging and communications in medicine; ENB, electromagnetic navigation bronchoscopy; VAL-MAP, virtual-assisted lung mapping.

**Supplementary video 1.** The video clip shows the procedure of ENB VAL-MAP followed by on-site adjustment and surgery.