

Figure S1 Imaging features of intramural hematoma (IMH). The measurement of maximal aortic diameter (MAD) and maximal hematoma thickness (MHT) (A and B). The Stanford type of intramural hematoma: Stanford A (C) and Stanford B (D). An ulcer-like projection is indicated by the white arrow (E). The blood pool is indicated by a black arrow (F). The involvement of the left subclavian artery (G; white arrow).



Figure S2 The computed tomography angiography of a patient with aortic intramural hematoma patient (A). The aorta and the hematoma were labeled as Label1 (B; red). The aortic lumen was covered by Label2 based on Label1 (C; green). The overlap area of Label1 and Label2 was removed, and only the hematoma outside the aortic lumen was preserved. The 3D reconstruction of an intramural hematoma (D).



Figure S3 The evolution of an intramural hematoma to dissection over a 110-day period. (A and D) show the acute phase; initial computed tomography showed characteristic crescent wall thickening in the descending aorta (red and white arrows). A follow-up study 39 days later showed an obvious resolution of the hematoma (B and E). The follow-up study 110 days later revealed a typical dissection (C and F). Asterisks show the false lumens; the red arrow shows the complete resolution of the hematoma. The patient was treated with surgery. The follow-up computed tomography after the surgery (G).