A 48-year-old man presented with a left thoracic mass, shaped like a dumbbell, on computed tomography (CT) imaging (Fig. 1).

The entire mass was successfully removed en bloc along with the sixth and seventh costal bones (Fig. 2).

The bland histological feature was consistent with the diagnosis of a lipoma.

Fig. 1. Computed tomography reveals a large dumbbell-shaped mass.

Fig. 2. Macroscopic appearance of the well-encapsulated lipoma measuring 15 cm × 13 cm × 10 cm and weighing 760 g.