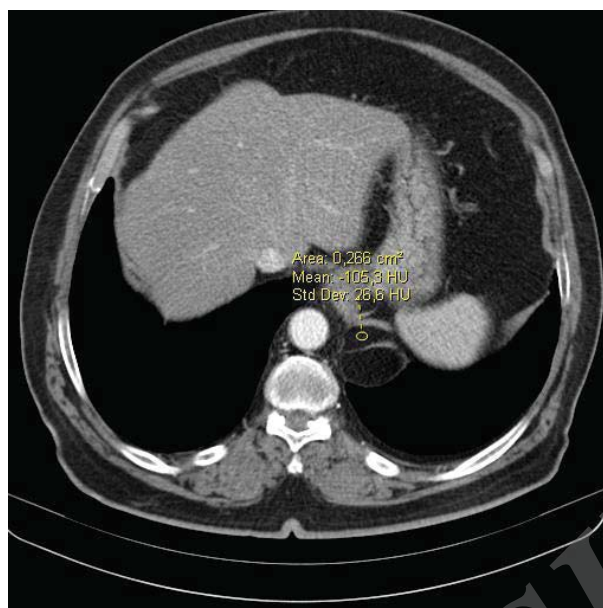
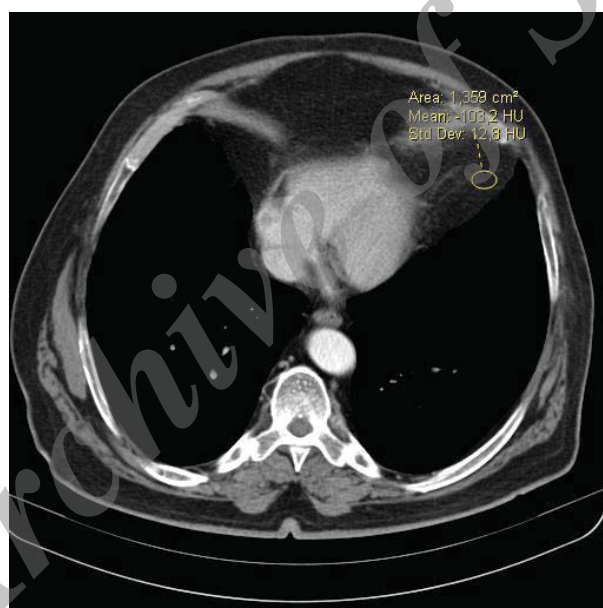


## Photoclinic



**Figure 1.** Left diaphragmatic crura showed a smooth, rounded small hypodense mass that measured approximately -105 HU, which was consistent with adipose tissue.



**Figure 2.** Enormous pericardial fat pad area that measured approximately -103 HU which was consistent with adipose tissue.

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A 72-year-old male presented to our outpatient clinic with a history of long term dyspnea. During a high resolution thoracic computed tomography (CT) scan, the left diaphragmatic crura showed

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a smooth, rounded small hypodense mass and an enormous pericardial mass. The diameter of the hypodense mass was 41 mm; the pericardial mass diameter was approximately 192 mm. Both had similar densities that measured approximately -105 HU, which was consistent with adipose tissue. Scans above and below this region showed that the diaphragmatic crura had a normal thickness, shape and density. Laboratory tests were normal. The patient did not consent to surgery.

**What is your diagnosis?  
See the next page for diagnosis.**

## Photoclinic Diagnosis:

## Primary Lipoma of the Diaphragm and Enormous Pericardial Fat Pad Presenting with Long-term Dyspnea

**Photoclinic Diagnosis:** Lipomas are common, however they are rarely located in the diaphragm.<sup>1</sup> Primary diaphragmatic lipomas are usually incidental findings.<sup>2</sup> Diaphragmatic lipomas are encapsulated, soft fatty tumors frequently occurring in obese patients. They are equally common in men and women, reported twice as often on the left side, and are primarily in a posterolateral location.<sup>2,3</sup> On occasion, they may be bilateral.<sup>4</sup> Diaphragmatic crus lipomas are sometimes mistaken for Bochdalek hernias.<sup>1,4-6</sup> Most of Bochdalek hernias are round-oval masses located in the posteromedial aspect of the hemidiaphragm and they also contain fat, so they may erroneously be interpreted as diaphragmatic lipoma. Because the diaphragmatic muscle is interrupted in a hernia, it is intact in a lipoma.<sup>7</sup> The continuity of the diaphragm caudally also differentiates a lipoma from retroperitoneal adipose tissue. Pericardial fat deposition is common in multiple conditions. Although it can be found in any location, however it is most common over the anterior portion of the heart.<sup>8</sup> Excessive fat accumulation is most common in older, obese, diabetic patients, usually women, and may be observed in patients with exogenous or endogenous steroid excess.<sup>9</sup>

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A sunrise view in Taleqan - Alborz Province - Iran. (photo by M.H.Azizi MD)