Discovering Multiple Myeloma Early in Ambulatory Patients With Chest Pain

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Multiple myeloma (MM) is a systemic malignancy of plasma cells often characterized by sternal, rib, or back pain. This article describes how a patient who had chest pain for more than one month was mistakenly diagnosed with reflux esophagitis. Healthcare providers should be mindful of MM when determining the source of unidentified chest pain in patients.

Mr. C, a 69-year-old man, presented with chest pain for more than one month and was treated for reflux esophagitis before finally being diagnosed with MM. Cardiovascular issues, thyroid, kidney, and lymph nodes. The digestive tract, thyroid, heart, testis, ovary, and skin also may be involved (Wang et al., 2008). The incidence of MM is about five cases per 100,000 people per year (Landgren & Weiss, 2009). The median age of onset is 65–70 years, with one study reporting an increase of median age at diagnosis from 70–74 years since 1960 (Turesson, Velez, Kristinsson, & Landgren, 2010).

Case Study

Mr. C, a 69-year-old man, presented with more than one month’s history of chest pain. He had experienced chest pain previously following chest block drainage for a pneumothorax. Mr. C has had hypertension for 12 years and had a pneumothorax twice. The current pain was described as continuous, dull, invade other tissues and organs, such as the liver, lung, spleen, pancreas, kidney, and lymph nodes. The digestive tract, thyroid, heart, testis, ovary, and skin also may be involved (Wang et al., 2008). The incidence of MM is about five cases per 100,000 people per year (Landgren & Weiss, 2009). The median age of onset is 65–70 years, with one study reporting an increase of median age at diagnosis from 70–74 years since 1960 (Turesson, Velez, Kristinsson, & Landgren, 2010).

Background

MM is a rare postgerminal center B-cell malignancy tumor and represents almost 1% of all malignancies (Lim, Ando, Nishiya, & Padival, 2011; Talamo, Barochia, Zangari, & Loughran, 2010). MM is a cancer of the bone marrow, also known as plasma cell myeloma or Kahler disease after Otto Kahler, MD, who first described it in 1889. This disease is clinically characterized by bone pain with lytic bone lesions and/or severe osteopenia, anemia, hypercalcemia, renal function impairment, recurrent infections, and the presence of extramedullary involvement (Moriuchi et al., 2010). Its common clinical manifestations are summarized by the acronym CRAB (hyperCalcemia, Renal insufficiency, Anemia, and Bone lesions) (International Myeloma Working Group, 2003).

Primary MM mainly is located in the bone marrow, but neoplastic cells may