

Beaumont Health

Beaumont Health Scholarly Works and Archives

Conference Presentation Abstracts

Internal Medicine

5-13-2022

Hepatoid Adenocarcinoma of Lung: A Rare and Challenging Tumor

Bipin Ghimire

Ashbina Pokharel

Samiksha Pandey

Ujjwal Jung Karki

Can Wang

See next page for additional authors

Follow this and additional works at: https://scholarlyworks.beaumont.org/internal_medicine_confabstract



Part of the [Hematology Commons](#), [Internal Medicine Commons](#), and the [Oncology Commons](#)

Authors

Bipin Ghimire, Ashbina Pokharel, Samiksha Pandey, Ujjwal Jung Karki, Can Wang, and Michael Stender

ACP Michigan Chapter Meeting 2022

Oral# 5

Category: Clinical Vignette

Program: Beaumont Hospital - Royal Oak

Program Director: Sandor Shoichet, MD, FACP

Presenter: Bipin Ghimire

Additional Authors: Ashbina Pokharel, MBBS; Samiksha Pandey, MBBS; Ujjwal Jung Karki, MBBS; Can Wang, MB; Michael Stender, MD

Hepatoid Adenocarcinoma of Lung: A Rare and Challenging Tumor

Hepatoid adenocarcinoma (HAC) is an extremely rare extra-hepatic malignant tumor having hepatic features on pathology. Stomach is the most common site, and hepatoid adenocarcinoma of lung (HAL) accounts for 2.3 – 5% of all HACs. Less than 100 cases of HAL have been reported worldwide since its concept was put forward in 1990.

A 63-year-old female presented to the ED with back pain. Initial evaluation revealed anemia (hemoglobin 6.7), hypercalcemia (12.1 mg/dl), GFR 54 mL/min. X-ray thoracic spine and chest showed two vertebral compression deformities and lytic lesions on multiple ribs. Initially, multiple myeloma was considered likely but further evaluation only showed IgA lambda monoclonal gammopathy of 0.2g/dl. MRI thoracic spine done for further characterization of the vertebral deformities showed multiple abnormally enhancing lesions concerning for metastatic disease. CT chest/abdomen/pelvis revealed left perihilar lung mass measuring 5.1cm, numerous mediastinal and supraclavicular lymph nodes, and diffuse osseous and adrenal metastases. She then underwent bone marrow showing <10 % plasma cells, favoring MGUS, and evidence of metastatic carcinoma. Concurrently done supraclavicular lymph node biopsy exhibited evidence of poorly differentiated carcinoma. Immunohistochemistry was positive for Hep-par-1 suggesting hepatic origin but was negative for arginase, glypican-3, and WT1 arguing against primary hepatocellular malignancy. With large lung mass, lack of liver lesions, presence of adrenal metastases, and immunohistochemistry results, diagnosis of HAL was made. Serum AFP level however was normal. With advanced disease, the patient declined treatment and was enrolled in hospice.

HAL is extremely rare, and tumor characteristics, prognosis, treatment strategies have been proposed based only on a few retrospective studies. It is diagnosed with presence of both adenoid and hepatocyte-like differentiation either on pathology or immunohistochemistry. Its diagnosis can be challenging based on morphology alone, especially if poorly differentiated as in our patient. So, immunohistochemistry is the cornerstone for accurate diagnosis. Elevated serum AFP is seen in a majority of cases and is a poor prognostic indicator, but as in our case, it is not required for diagnosis. It is a rapidly growing carcinoma with a poor prognosis, so early intervention is essential to reduce the tumor burden and complications of enlarging lung mass.