Jaime Paulos

Abstract

Hemangiopericitoma is an uncommon tumor, born from the pericytes of blood vessel walls. This origin is disputed and considered to have a fibrous origin. The treatment needs a wide resection combined with radiotherapy or chemotherapy.

Keyword

Malignant vascular bone tumor

Hemangiopericitoma is a malignant tumor derivating from the pericytes, found in the surrounding thin-walled vessels. Actually, it is classified as a solitary fibrous tumor because its origin is fibrous and not pericytic [1]. It is a rare bone tumor and can be found in any bone, mostly in the pelvis, proximal femur, vertebrae or humerus. Most cases are presented in adults, which have few cases in different casuistics. Even though it has a slow growth. It produces metastases.

Imaging

Most cases are lytic and have no specific radiographic appearance; sometimes, they can have a honeycomb appearance.

Histology

The gross features show a firm, red bloody mass.

The tumor is hypercellular composed of round to oval cells with thin walled blood vessels in the tumor. The channels of the vascular ramification are described like “deer antlers.”

A silver stain highlights the reticulin sheath surrounding each cell and confirms that tumor cells are outside the vascular spaces. The fact that tumor cells do not stain positive for actin suggests that the pericytes may have some other cellular origin [2].

Treatment

Block resection is indicated with a wide margin. Amputation can be necessary. Radiotherapy and multiple drug chemotherapy may be employed.

References

1. Crawford EA, Slotcavage RL, King JJ, Lackman RD, Ogilvie CM. Ethanol sclerotherapy reduces pain in symptomatic musculoskeletal hemangiomas. *Clin Orthop Relat Res*. 2009;467(11):2955–61.
2. Bouchet A, Amoretti N, Penel N, Héritier S, Thariat J. Tumeurs vasculaires primitives osseuses 08/08/12[14-799]. [https://doi.org/10.1016/s0246-0521\(12\)59302-2](https://doi.org/10.1016/s0246-0521(12)59302-2).

J. Paulos (✉)
Pontificia Universidad Católica de Chile, Santiago, Chile
e-mail: paulos.jaime@gmail.com