

Review Article

Mesenchymal Hamartoma: A Review of Literature

Saccomanni Bernardino*

Department: Orthopaedic and Trauma Surgery, Bari Viale Regina Margherita, Altamura (Bari), Italy

Abstract

Mesenchymal Hamartoma is a rare, benign osseous tumor that typically involves the rib cage and presents during the first year of life. There is a case of this tumor originating in the cervical spine, described in literature. I document a brief literature review. In this review, there are not figures and outcomes.

Keywords: Mesenchymal hamartoma; Spine

Introduction

Mesenchymal hamartomas are rare, benign osseous tumors that typically involve the rib cage and present during the first year of life [1-9]. Aggressive growth is not part of the natural history, and surgical excision is generally curative. Fewer than fifty cases have been reported in literature to date. To my knowledge, there have been a case report of this tumor originating in the spine. The lesion appears expansile on radiographs and often causes deformity of the chest wall and ribs. It may be lobulated, is primarily cartilaginous, and may contain bone trabeculae.

Although most of these lesions are benign, malignant transformation has been reported [5]. Epidemiology, Pathologic findings, biopsy, treatment. Mesenchymal hamartoma is a rare tumor that has not previously been described as originating from the spine and more specifically, from the cervical spine in an adult.

Mesenchymal hamartoma most commonly presents as a chest-wall deformity, respiratory compromise, or pneumothorax in an infant or as an incidental finding on a chest radiograph. There have been reports of this tumor being detected in utero [6]. The features of this tumor are usually those of an aggressive, expansile lesion that most commonly originates from a rib.

*Corresponding author: Saccomanni Bernardino, Department: Orthopaedic and Trauma Surgery, Bari Viale Regina Margherita, Altamura (Bari), Italy, Tel: +39 3208007854; E-mail: bernasacco@yahoo.it

Citation: Bernardino S (2021) Mesenchymal Hamartoma: A Review of Literature. J Clin Stud Med Case Rep 8: 0122.

Received: August 24, 2021; **Accepted:** September 06, 2021; **Published:** September 13, 2021

Copyright: © 2021 Bernardino S, et al. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Fine-needle aspiration has assisted in the diagnosis of these tumors [6,9]. Surgical resection is the optimal treatment and has been associated with a low rate of recurrence [3,5]. One case of malignant transformation has been reported [5]. There is a case of mesenchymal hamartoma originating from the spinal column. In the case of this patient, the clinical and imaging findings suggested compression as opposed to invasion of the caudal roots of the brachial plexus. Standard principles of oncological care suggested that a biopsy should be performed prior to excision, but it was the consensus opinion, at an oncology conference that an excisional biopsy would minimize the risks of recurrence and would not compromise the patient's care.

Given the age of the patient, the location of tumour, and expansile nature of the lesion, the initial differential diagnosis focused on benign primary tumors of the spine, specifically, aneurysmal bone cyst and giant-cell tumor. The surgical pathological diagnosis of mesenchymal hamartoma was unsuspected.

In conclusion, this unusual tumor should be added to the differential diagnosis of posterior element primary spinal tumors. These tumors may encroach upon adjacent neural and vascular structures, causing symptoms in addition to local pain. Wide surgical resection appears to have resulted in successful treatment in the case of the cervical spine.

References

1. Ayala AG, Ro JY, Bolio-Solis A, Hernandez-Batres F, Edeiken J (1993) Mesenchymal Hamartoma of the chest wall in infants and children: a clinicopathological study of five patients. *Skeletal Radiol* 22: 569-576.
2. Brand T, Hatch EI, Schaller RT, Stevenson JK, Arensman RM, et al. (1986) Surgical management of the infant with mesenchymal hamartoma of the chest wall. *J Pediatr Surg* 21: 556-558.
3. Cohen MC, Drut R, Garcia C, Kaschula RO (1992) Mesenchymal Hamartoma of the chest wall: a cooperation study with review of the literature. *Pediatr Pathol* 12: 525-534.
4. Donahoo JS, Miller JA, Lal B, Rosario PG (1996) Chest wall hamartoma in an adult: an unusual chest wall tumor. *Thor Cardiovasc Surg* 44: 110-111.
5. Dounies R, Chwals WJ, Lally KP, Isaacs H Jr, Senac MO, et al. (1994) Hamartomas of the chest wall in infants. *Ann Thorac Surg*; 57: 868-875.
6. Jung AL, Johnson DG, Condon VR, Pysher TJ, Reppucci P (1994) Congenital chest wall mesenchymal hamartoma. *J Perinatol* 14: 487-491.
7. Kim JK, Jung WH, Yoon CS, Kim MJ, Kim HG, et al. (2000) Mesenchymal Hamartomas of the chest wall in infancy: radiologic and pathologic correlation. *Yonsei Med J* 41: 615-622.
8. Lisle DA, Ault DJ, Earwaker JW (2003) Mesenchymal Hamartoma of the chest wall in infants: Report of three cases and literature review. *Australas Radiol* 47: 78-82.
9. Nicholson SA, Hill DA, Faster KW, McAlister WH, Davila RM, et al. (2000) Fine-needle aspiration cytology of mesenchymal hamartoma of the chest wall. *Diagn Cytopathol* 22: 33-38.



- Advances In Industrial Biotechnology | ISSN: 2639-5665
- Advances In Microbiology Research | ISSN: 2689-694X
- Archives Of Surgery And Surgical Education | ISSN: 2689-3126
- Archives Of Urology
- Archives Of Zoological Studies | ISSN: 2640-7779
- Current Trends Medical And Biological Engineering
- International Journal Of Case Reports And Therapeutic Studies | ISSN: 2689-310X
- Journal Of Addiction & Addictive Disorders | ISSN: 2578-7276
- Journal Of Agronomy & Agricultural Science | ISSN: 2689-8292
- Journal Of AIDS Clinical Research & STDs | ISSN: 2572-7370
- Journal Of Alcoholism Drug Abuse & Substance Dependence | ISSN: 2572-9594
- Journal Of Allergy Disorders & Therapy | ISSN: 2470-749X
- Journal Of Alternative Complementary & Integrative Medicine | ISSN: 2470-7562
- Journal Of Alzheimers & Neurodegenerative Diseases | ISSN: 2572-9608
- Journal Of Anesthesia & Clinical Care | ISSN: 2378-8879
- Journal Of Angiology & Vascular Surgery | ISSN: 2572-7397
- Journal Of Animal Research & Veterinary Science | ISSN: 2639-3751
- Journal Of Aquaculture & Fisheries | ISSN: 2576-5523
- Journal Of Atmospheric & Earth Sciences | ISSN: 2689-8780
- Journal Of Biotech Research & Biochemistry
- Journal Of Brain & Neuroscience Research
- Journal Of Cancer Biology & Treatment | ISSN: 2470-7546
- Journal Of Cardiology Study & Research | ISSN: 2640-768X
- Journal Of Cell Biology & Cell Metabolism | ISSN: 2381-1943
- Journal Of Clinical Dermatology & Therapy | ISSN: 2378-8771
- Journal Of Clinical Immunology & Immunotherapy | ISSN: 2378-8844
- Journal Of Clinical Studies & Medical Case Reports | ISSN: 2378-8801
- Journal Of Community Medicine & Public Health Care | ISSN: 2381-1978
- Journal Of Cytology & Tissue Biology | ISSN: 2378-9107
- Journal Of Dairy Research & Technology | ISSN: 2688-9315
- Journal Of Dentistry Oral Health & Cosmesis | ISSN: 2473-6783
- Journal Of Diabetes & Metabolic Disorders | ISSN: 2381-201X
- Journal Of Emergency Medicine Trauma & Surgical Care | ISSN: 2378-8798
- Journal Of Environmental Science Current Research | ISSN: 2643-5020
- Journal Of Food Science & Nutrition | ISSN: 2470-1076
- Journal Of Forensic Legal & Investigative Sciences | ISSN: 2473-733X
- Journal Of Gastroenterology & Hepatology Research | ISSN: 2574-2566
- Journal Of Genetics & Genomic Sciences | ISSN: 2574-2485
- Journal Of Gerontology & Geriatric Medicine | ISSN: 2381-8662
- Journal Of Hematology Blood Transfusion & Disorders | ISSN: 2572-2999
- Journal Of Hospice & Palliative Medical Care
- Journal Of Human Endocrinology | ISSN: 2572-9640
- Journal Of Infectious & Non Infectious Diseases | ISSN: 2381-8654
- Journal Of Internal Medicine & Primary Healthcare | ISSN: 2574-2493
- Journal Of Light & Laser Current Trends
- Journal Of Medicine Study & Research | ISSN: 2639-5657
- Journal Of Modern Chemical Sciences
- Journal Of Nanotechnology Nanomedicine & Nanobiotechnology | ISSN: 2381-2044
- Journal Of Neonatology & Clinical Pediatrics | ISSN: 2378-878X
- Journal Of Nephrology & Renal Therapy | ISSN: 2473-7313
- Journal Of Non Invasive Vascular Investigation | ISSN: 2572-7400
- Journal Of Nuclear Medicine Radiology & Radiation Therapy | ISSN: 2572-7419
- Journal Of Obesity & Weight Loss | ISSN: 2473-7372
- Journal Of Ophthalmology & Clinical Research | ISSN: 2378-8887
- Journal Of Orthopedic Research & Physiotherapy | ISSN: 2381-2052
- Journal Of Otolaryngology Head & Neck Surgery | ISSN: 2573-010X
- Journal Of Pathology Clinical & Medical Research
- Journal Of Pharmacology Pharmaceutics & Pharmacovigilance | ISSN: 2639-5649
- Journal Of Physical Medicine Rehabilitation & Disabilities | ISSN: 2381-8670
- Journal Of Plant Science Current Research | ISSN: 2639-3743
- Journal Of Practical & Professional Nursing | ISSN: 2639-5681
- Journal Of Protein Research & Bioinformatics
- Journal Of Psychiatry Depression & Anxiety | ISSN: 2573-0150
- Journal Of Pulmonary Medicine & Respiratory Research | ISSN: 2573-0177
- Journal Of Reproductive Medicine Gynaecology & Obstetrics | ISSN: 2574-2574
- Journal Of Stem Cells Research Development & Therapy | ISSN: 2381-2060
- Journal Of Surgery Current Trends & Innovations | ISSN: 2578-7284
- Journal Of Toxicology Current Research | ISSN: 2639-3735
- Journal Of Translational Science And Research
- Journal Of Vaccines Research & Vaccination | ISSN: 2573-0193
- Journal Of Virology & Antivirals
- Sports Medicine And Injury Care Journal | ISSN: 2689-8829
- Trends In Anatomy & Physiology | ISSN: 2640-7752

Submit Your Manuscript: <https://www.heraldopenaccess.us/submit-manuscript>