

Clear cell chondrosarcoma

Clear cell chondrosarcoma is a rare variant of chondrosarcoma, behaving as a low grade malignant bone tumor and characterized by a proliferation of tumor cells with clear cytoplasm.

Clear cell chondrosarcomas account for around 2% of all chondrosarcomas. They have been described in most bones of the body but usually affect the proximal epiphysis of the humerus or femur.



The treatment of choice for clear cell chondrosarcoma is wide surgical excision. However, marginal or intralesional excisions are sometimes performed, leading to a high rate of local recurrence. Metastases - usually to the lungs or other bones - may develop even many years after primary treatment. Dedifferentiation to high-grade sarcomas has been reported in three cases.

Given the low incidence of clear cell chondrosarcomas, published studies report only on small cohorts of patients treated in single institutions. A multiinstitutional analysis of a larger series would provide valuable information regarding the natural disease course and help determine possible prognostic factors.

We would therefore like to ask you to contribute your cases to an EMSOS-wide study.

Goals:

We hope to include a total of at least 100 patients with clear cell chondrosarcoma treated between 1990 and 2016 with the aim to:

1. collect data regarding clinical characteristics, treatment, and outcome from multiple centers
2. evaluate the probability of local recurrence, metastasis and dedifferentiation
3. determine possible prognostic factors

Inclusion criteria:

- histologically proven clear cell chondrosarcoma of bone
- first surgical or other treatment at your center between 1990 and 2016

When including patients in the database:

1. Please be as thorough as possible, don't hesitate to contact us should you have any questions.
2. As the combined dataset will not include personal hospital identifiers from each institution please label your patients as 1,2,3 etc. Please keep a personal record of which number corresponds to which personal hospital identifier.
3. Further instructions and definitions regarding the spreadsheet are included in the appendix.

Data collection is planned from November 2017 to October 2018.

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We thank you for your help and participation.



Appendix:

A: **Patient Hospital:** your hospital's name - it is sufficient to state this for the first patient only

C: **DOB:** date of patient's birth - month and year are specific enough, this format is chosen for reasons of data protection

K: **soft tissue extension in imaging or pathology:** specify yes, if the tumor infiltrated the soft tissue in imaging and/or pathology

L: **tumor size in cross-sectional imaging:** leave blanc, if no data are available

M: **Histology - Date of diagnostic biopsy:** if several biopsies/surgical treatments of the primary tumor were performed, please insert here the date of the first intervention which provided the histological diagnosis of clear cell chondrosarcoma

N: **external biopsy:** specify yes, if the patients had their diagnostic biopsy at a different center than the one which performed the tumor resection

T: **surgical treatment:** if the surgical treatment that was performed is not included in our list, please state other and specify in column V

V: **tumor size in histology:** leave blanc, if no data are available or in case that only a curettage was performed

Y: **reconstruction after surgical treatment:** if the reconstruction method that was performed is not included in our list, please state other and specify in column AC

AA: **adjuvant therapy:** if an adjuvant radiotherapy and/or chemotherapy was performed, please state the reasons for this treatment (if possible) in column AC

AJ: **secondary metastasis:** if the site of metastasis is not included in our liste, please state other and specify in column AN

AL: **treatment of metastases:** if the treatment that was performed is not included in our list, please state other and specify in column AN

AO: **status:** status of the patient at the date of last contact. NED = no evidence of disease, AWD = alive with disease, DOD = dead of disease, DOOD = dead of other disease