



The 65th ASH Annual Meeting Abstracts

ONLINE PUBLICATION ONLY

634.MYELOPROLIFERATIVE SYNDROMES: CLINICAL AND EPIDEMIOLOGICAL

The Clinical Complexity of Langerhans Cell Histiocytosis in Adult Patients: Experience of the Institute of Hematology of Bologna

Alessandro Broccoli, MD¹, Gianmarco Bagnato², Lisa Argnani², Martina Cantelli³, Beatrice Casadei, MD PhD⁴, Cinzia Pellegrini⁵, Sabrina Zoli³, Emanuele Sutto³, Paolo Elia Coppola³, Marianna Gentilini, MD³, Alice Morigi³, Matteo Carella², Gabriele Gugliotta, MD⁶, Laura Nanni⁷, Vittorio Stefoni³, Pier Luigi Zinzani, MD PhD⁸

¹Istituto di Ematologia "Seragnoli" Policlinico S.Orsola Malpighi, Bologna, Italy

²Department of Medical and Surgical Sciences, University of Bologna, Bologna, ITA

³Department of Medical and Surgical Sciences, University of Bologna, Bologna, Italy

⁴Hematology, Istituto di Ematologia "Seragnoli", Bologna, Italy

⁵IRCCS Azienda Ospedaliero Universitaria di Bologna, Bologna, ITA

⁶IRCCS Azienda Ospedaliero Universitaria di Bologna, Bologna, Italy

⁷Department of Medical and Surgical Sciences, University of Bologna, Bologna, ITA

⁸Department of Medical and Surgical Sciences, University of Bologna, Bologna, Italy

Langerhans cell histiocytosis (LCH) in adult patients is a rare disease with protean manifestations, including single system unifocal (SSU) or multifocal (SSM) presentation or multisystemic (MS) involvement. Clinical care of adult patients is based on case series and reports. Regimens applied in pediatric patients show unacceptable toxicity in the adult setting.

Our single-center experience with LCH is presented. Data on 30 patients diagnosed between 1997 and 2022 have been reviewed. Patients with isolated pulmonary histiocytosis were excluded. Responses to any treatment were classified according to the acknowledged criteria. Progression-free survival (PFS) after frontline treatment was calculated on all treated patients. Overall survival (OS) was determined on the whole cohort irrespective of any treatment received.

Eighteen male and 12 female patients received a diagnosis of LCH at a median age of 46 years (range 20-75). Sixteen patients had single system (SS) disease, with SSU involvement in 12 cases and SSM involvement in 4 cases. The skeleton was the mostly involved system (Figure), while SSU extra-skeletal disease was detected in 25% of cases. Fourteen patients had MS disease: axial skeleton, lungs, hypophysis, skull, skin and appendicular skeleton were the predominantly involved sites, in this order. Ten patients with SS disease received chemotherapy because of symptoms (mostly bone pain) or due to multifocal dissemination. Two patients underwent radiotherapy (RT), 2 had their disease completely excised and 1 received systemic steroids. One patient was observed. A complete response (CR) was obtained in 60% of treated cases, while a partial response (PR) in 27%. Four patients relapsed after frontline therapy and were rescued with RT or autologous transplant. Among patients with MS disease, chemotherapy (MACOP/VNCOP-B, cladribine, vinblastine) was applied in 6 cases; 2 patients received RT and 1 systemic steroids. One patient underwent surgery and 4 were observed because of asymptomatic disease. A CR was obtained in 70% of treated patients and a PR in 10%. Five patients relapsed, with symptomatic disease requiring treatment (chemotherapy and RT) in 3 cases. Median PFS among all treated patients was 177 months. OS was 91% at 20 years.

Appropriate treatment based on disease extension, site involvement and clinical manifestations yields high remission rates and long term PFS and OS. The optimal approach to relapsed patients remains undefined.

Disclosures Casadei: Novartis: Speakers Bureau; *Beigene:* Membership on an entity's Board of Directors or advisory committees; *Celgene-BMS:* Membership on an entity's Board of Directors or advisory committees; *Roche:* Speakers Bureau; *Lilly:* Speakers Bureau; *Takeda:* Membership on an entity's Board of Directors or advisory committees; *Janssen:* Membership on an entity's Board of Directors or advisory committees, Speakers Bureau; *Abbvie:* Membership on an entity's Board of Directors or advisory committees, Speakers Bureau; *Kite-Gilead:* Membership on an entity's Board of Directors or advisory committees, Speakers Bureau. **Zinzani:** GILEAD: Membership on an entity's Board of Directors or advisory committees, Speakers Bureau; SECURA BIO: Membership on an entity's Board of Directors or advisory committees; CELLTRION: Membership on an entity's Board of Directors or advisory committees, Speakers Bureau; MSD: Consultancy, Membership on an entity's Board of Directors or advisory committees, Speakers Bureau; JANSSEN-CILAG: Membership on an entity's Board of Directors or advisory com-

mittees, Speakers Bureau; *SERVIER*: Membership on an entity's Board of Directors or advisory committees, Speakers Bureau; *SANDOZ*: Membership on an entity's Board of Directors or advisory committees; *BMS*: Membership on an entity's Board of Directors or advisory committees, Speakers Bureau; *ASTRAZENECA*: Membership on an entity's Board of Directors or advisory committees, Speakers Bureau; *TAKEDA*: Membership on an entity's Board of Directors or advisory committees, Speakers Bureau; *ROCHE*: Membership on an entity's Board of Directors or advisory committees, Speakers Bureau; *EUSAPHARMA*: Consultancy, Membership on an entity's Board of Directors or advisory committees, Speakers Bureau; *KYOWA KIRIN*: Membership on an entity's Board of Directors or advisory committees, Speakers Bureau; *NOVARTIS*: Consultancy, Membership on an entity's Board of Directors or advisory committees, Speakers Bureau; *ADC THERAPEUTICS*: Membership on an entity's Board of Directors or advisory committees; *INCYTE*: Membership on an entity's Board of Directors or advisory committees, Speakers Bureau; *BEIGENE*: Membership on an entity's Board of Directors or advisory committees, Speakers Bureau.

Topography of skeletal disease in patients with single system Langerhans cell histiocytosis

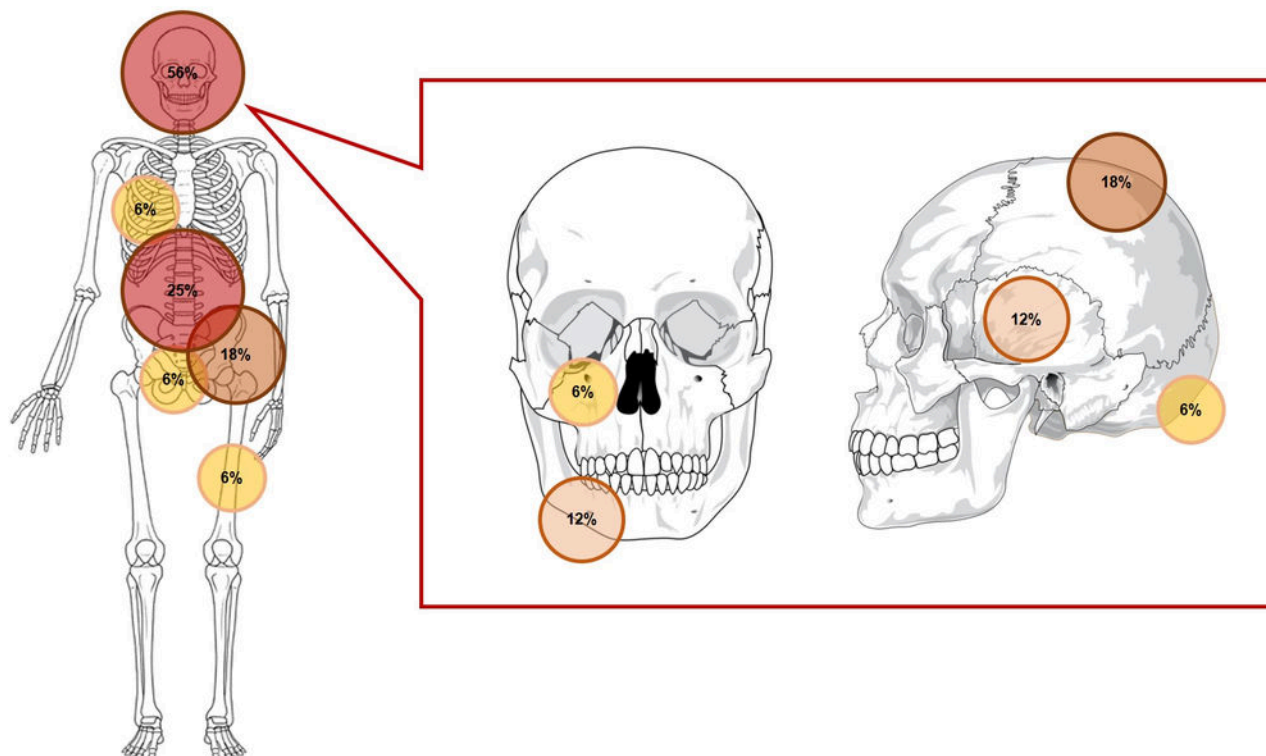


Figure 1

<https://doi.org/10.1182/blood-2023-178573>