

detected grade 2 hydronephrosis on the right side and a suspicious mass in a 1 cm segment of the distal right ureter outside the bladder. The mass was excised, and histological examination with crystal violet and Congo red staining showed a strong positive reaction for amyloid. Immunohistochemical analysis confirmed the diagnosis of lambda light chain amyloidoma. Systemic screening for amyloid deposition was negative except for the ureter. Nine months post-operation, the patient returned with recurrent pain and oliguria. A CT scan revealed a mass at the excision site, consistent with lambda light chain amyloidoma. Considering it a recurrent disease, the patient underwent intensity-modulated radiation therapy (IMRT) with a total dose of 20 Gy in 10 fractions of 2 Gy each. Two months post-radiation, with recurring symptoms, the patient received four cycles of bortezomib-dexamethasone treatment. Post-treatment, the patient's symptoms improved, and CT imaging showed the disappearance of the mass lesion. **Conclusion:** Ureteral amyloidosis, though rare, can present with significant clinical symptoms. Early detection and a combination of surgical and medical interventions, as demonstrated in this case, can lead to symptom resolution and improved patient outcomes.

Keywords:

Amyloidosis
Ureteral Amyloidosis
Bortezomib
Surgery
Radiotherapy

<https://doi.org/10.1016/j.htct.2023.09.027>

Adult Hematology Abstract Categories

Platelet Diseases
OP 07

THE ROLE OF ADAMTS13 ACTIVITY LEVELS ON DISEASE EXACERBATION OR RELAPSE IN PATIENTS WITH IMMUNE-MEDIATED THROMBOTIC THROMBOCYTOPENIC PURPURA: POST HOC ANALYSIS OF THE PHASE 3 HERCULES AND POST-HERCULES STUDIES

Johanna KREMER HOVINGA ¹,
Javier DE LA RUBIA ², Katerina PAVENSKI ³,
Ara METJIAN ⁴, Paul KNÖBL ⁵,
Flora PEYVANDI ⁶, Spero CATALAND ⁷,
Paul COPPO ⁸, Umer KHAN ⁹,
Laurel A. MENAPACE ¹⁰,
Ana PAULA MARQUES ¹¹,
Sriya GUNAWARDENA ¹⁰, Marie SCULLY ¹²

¹ Department of Hematology and Central Hematology Laboratory, Inselspital, Bern University Hospital, University of Bern, Bern, Switzerland
² Hematology Department, University Hospital La Fe, Valencia, Spain

³ Departments of Medicine and Laboratory Medicine, St. Michael's Hospital, University of Toronto, Toronto, ON, Canada

⁴ University of Colorado Anschutz Medical Campus, Aurora, CO, USA

⁵ Division of Hematology and Hemostasis, Department of Medicine 1, Medical University of Vienna, Vienna, Austria

⁶ Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Angelo Bianchi Bonomi Hemophilia and Thrombosis Center, Milan, Italy

⁷ Division of Hematology, Department of Internal Medicine, The Ohio State University, Columbus, OH, USA

⁸ Department of Hematology, Reference Center for Thrombotic Microangiopathies (CNR-MAT), Saint-Antoine University Hospital, AP-HP, Paris, France

⁹ Sanofi, San Diego, CA, USA

¹⁰ Sanofi, Cambridge, MA, USA

¹¹ Sanofi, Sao Paulo, Brazil

¹² Cardiometabolic Programme, NIHR UCLH/UCL BRC, Department of Haematology, University College London Hospital, London, UK

Objective: The management of exacerbations and disease relapse is important for patients with immune-mediated thrombotic thrombocytopenic purpura (iTTP). Severe ADAMTS13 (a disintegrin and metalloproteinase with a thrombospondin type 1 motif, member 13) deficiency during clinical remission is associated with risk of relapse and may guide prophylactic immune-modulatory therapy. We evaluated ADAMTS13 activity as a potential biomarker of exacerbation or relapse risk in the HERCULES and post-HERCULES studies. **Methodology:** This is a post hoc analysis of integrated data from the modified intent-to-treat (mITT) population of the Phase 3 HERCULES trial (NCT02553317) comparing caplacizumab and placebo (both plus standard-of-care treatment) in patients (pts) with iTTP and the 3-year follow-up post-HERCULES study (NCT02878603). ADAMTS13 activity was determined at baseline, weekly during treatment (post-TPE) and twice during follow-up. Recurrence risk was assessed according to ADAMTS13 activity, using TTP adverse event codes. **Results:** 49/144 (34%) pts in the HERCULES mITT had a recurrence during HERCULES or post-HERCULES. 140/144 pts had follow-up data after treatment end. Of these, 39 pts (28%) had a recurrence after treatment end; mean [SD] ADAMTS13 activity was 20.5% (28.7) in pts with recurrence vs 54.0% (34.9) in pts without; [P<0.0001]. ADAMTS13 activity was <20% at treatment end in 69.2% (27/39) and 27.1% (26/96) pts with/without recurrence (P<0.0001). Similar trends were seen across both treatment groups (Table). **Conclusion:** Regardless of the treatment received (caplacizumab or placebo), lower ADAMTS13 activity levels at end of treatment were associated with a higher risk of recurrence in the HERCULES and post-HERCULES studies. These data highlight the predictive value of ADAMTS13 levels on the risk of recurrence and may assist clinical decision-making in the treatment of iTTP. This content was first presented at ASH 2022 (abstract #2493).

<https://doi.org/10.1016/j.htct.2023.09.028>