

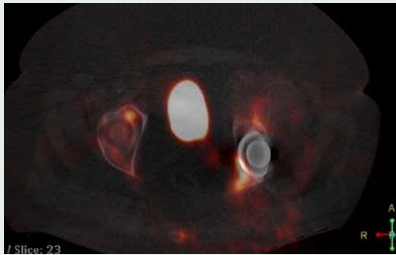
# THA Metal-On-Metal Related Pseudotumor Turns Out To Be Angiosarcoma – A Case Report

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Although a pseudotumor is a known complication of metal-on-metal (MoM) total hip arthroplasty (THA), a malignant process should be ruled out before any surgical intervention.

We present a case of a 62-year-old patient, who was treated as a MoM related pseudotumor for years to become apparent as an angiosarcoma.



← Initial SPECT CT:  
suspicion of cup loosening



X-ray: before and after Revision  
10/2019

## Case Report:

16 years after primary implantation (2000) the patient presented with lower back pain in our spine unit, finally cup loosening was suspected. Additionally a new solid mass was discovered, reaching from the left hip into the pelvis. The mass was seen in the context of MOM. Uneventful THA revision was performed with patient pain free at follow ups. Due to suspected prosthetic joint infection on stage change in 05/2019. Following this intervention patient presented with recurrent posterior dislocations of the left hip.

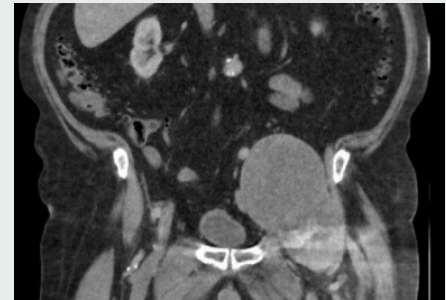
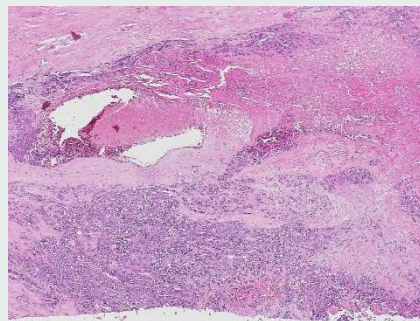
Revision surgery with inlay change was performed in 10/2019 with a uneventful recovery, discharged after 6 days.

3 Weeks later the patient was admitted to the emergency department with massive exudation of the wound and a hemoglobin of 45 g/L. A active bleeding was ruled out with an angio CT scan. Several revisions were performed without stopping the bleeding. The pseudotumor was suspected to be the origin of the blood-loss and the mass was excised.



Angio-CT Scan: No active bleeding,  
Pseudotumor

Histology: 40x magnification. Above: HE with infiltrations of angiosarcoma, Below: CD31 antibodies marked



CT Scan: pseudotumor reaching  
from the left hip into the pelvis

## Clinical Outcomes

The histology showed an angiosarcoma. After discussing the case in the interdisciplinary Sarcoma-Board a R2 resection was defined without further surgical solutions.

Therefore a palliative radiotherapy was planned, which brought the bleeding to a stop.



## Discussion:

After this case we recommend to confirm the diagnosis of a pseudotumor with further diagnostics with Metal artifact reduction sequence (MARS) - MRI and histological analysis of every unknown mass resected in surgery.