Introduction/Background Aggressive angiomyxoma is an infrequent mesenchymal tumor, primarily arising in the soft tissue. Either diagnosis and treatment is challenging and proper surgical planning is crucial to remove the tumor completely. We present a surgical video about complete excision of mass, vular angiomyxoma.

Methodology A 43-year-old patient was suspected of vulvar angiomyxoma due to vulvar asymmetry. 3D reconstruction was performed for surgical planning and high tumor of 195x159 mm (wide x length) was observed from left ischio-anal fossa to left para-vesical space. Patient underwent a combination of robotic (Da Vinci Xi System®) and vaginal surgery. Combination of abdominal approach by robotics and conventional vaginal approach, allows to complete challenging surgeries as high volume angiomyxoma.

Results The patient was discharged after 48h from surgery. After 30 days from surgery, no complications were recorded. Pathological results confirmed aggressive vulvar angiomyxoma.

Conclusion Optimal surgery planning is mandatory for infrequent tumors such as vulvar angiomyxoma. 3D reconstruction, even augmented reality, are excellent tools for guiding surgery. Combination of abdominal approach by robotics and conventional vaginal approach, allows to complete challenging surgeries as high volume angiomyxoma.