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Hyperperfusion Syndrome After Percutaneous Transluminal Angioplasty in Radio-cephalic Arterio-venous Fistula: Case Report

Chung-Ho Hsu, MD, Yeh-Peng Chen, MD, Ping-Han Lo, MD, Kuan-Cheng Chang, MD, Jui-Sung Hung, MD, FACC
Division of Cardiology, Department of Medicine, China Medical University Hospital, Taichung, Taiwan

Chung Ho Hsu CMUH

Introduction

Swelling of arm or forearm in arterio-venous fistula (AVF) side can be often found in hemodialysis (HD) patients due to a variety of venous outlet stenoses. We describe an unusual case of sudden onset swelling of arm and forearm in AVF side after performing the percutaneous transluminal angioplasty (PTA) for stenosis of AVF.

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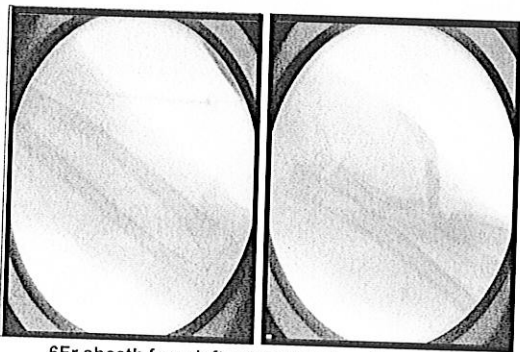
History

- 57 y/o woman
- HCVD, uremia on regular hemodialysis
- Left radiocephalic AVF malfunction for PTA

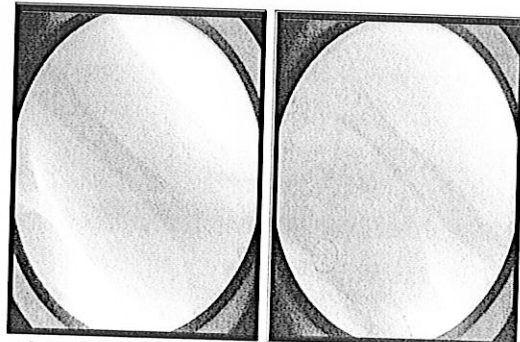
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1st PTA

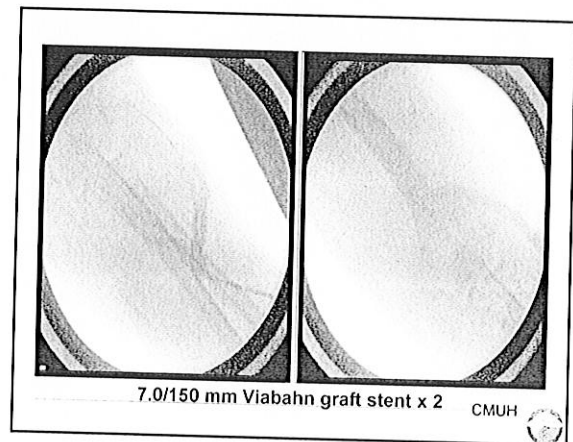
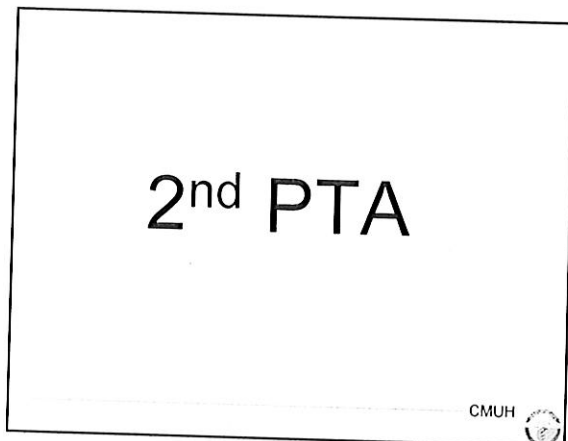
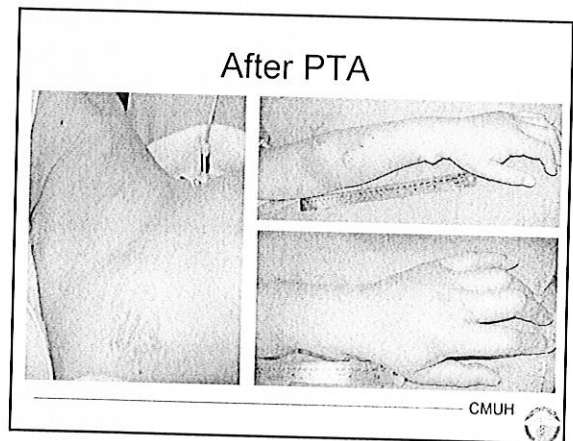
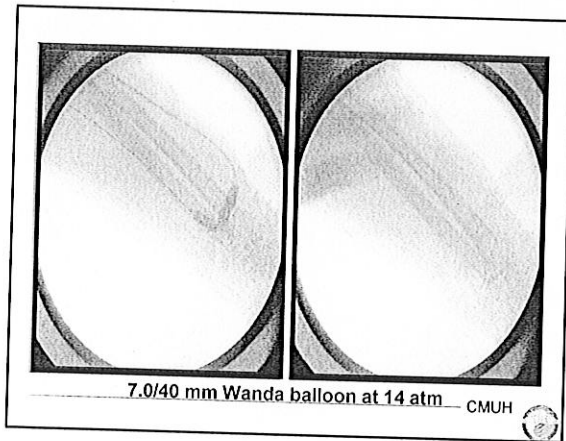
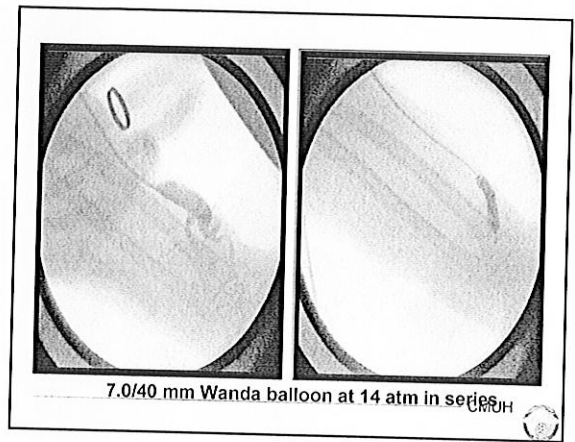
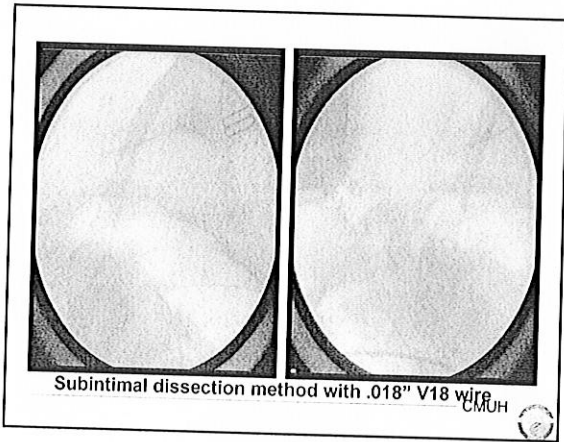
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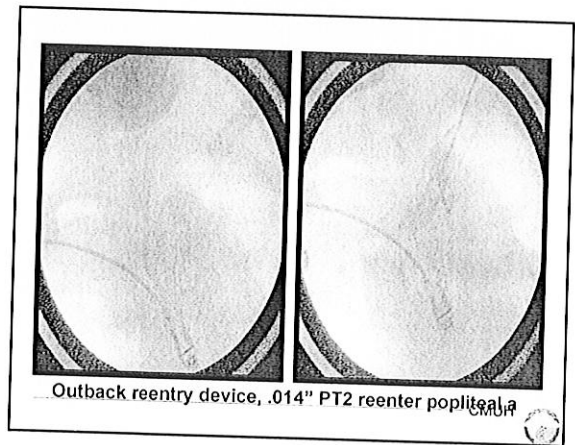
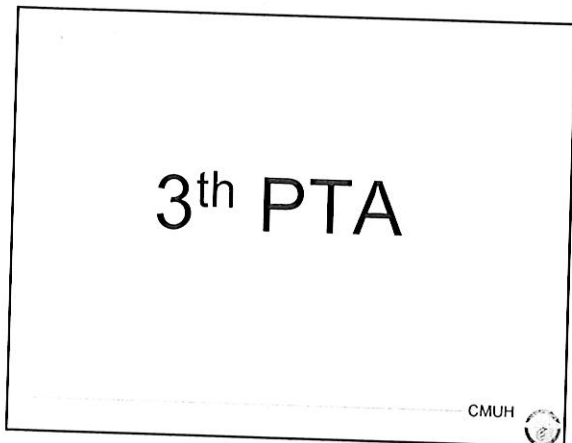
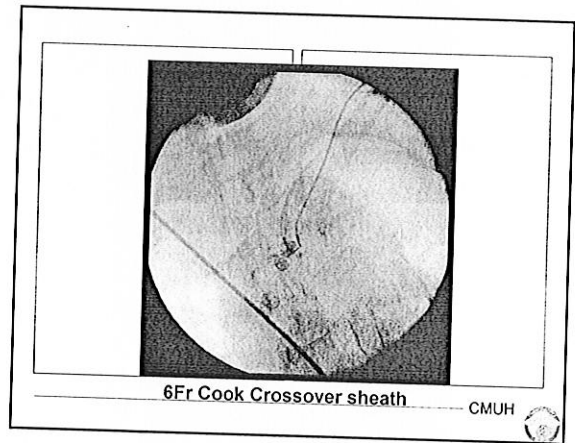
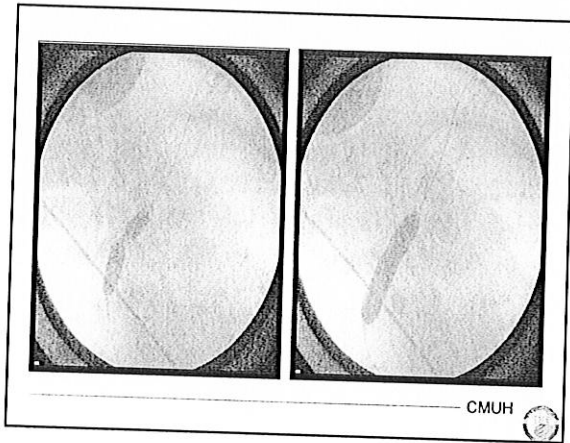
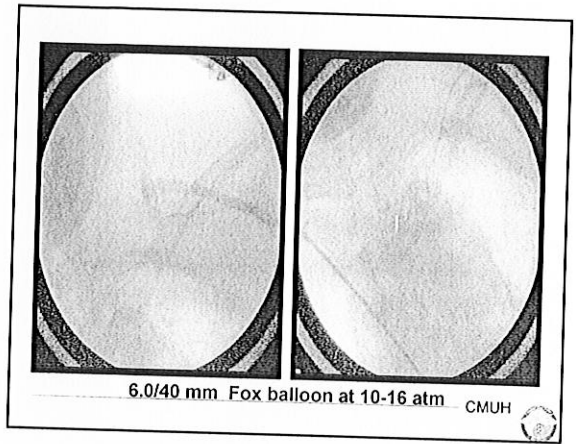
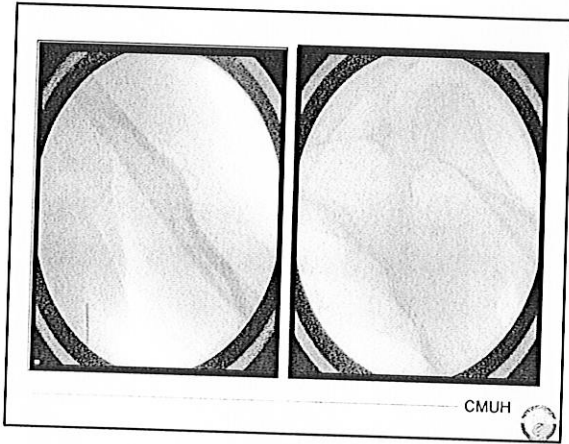


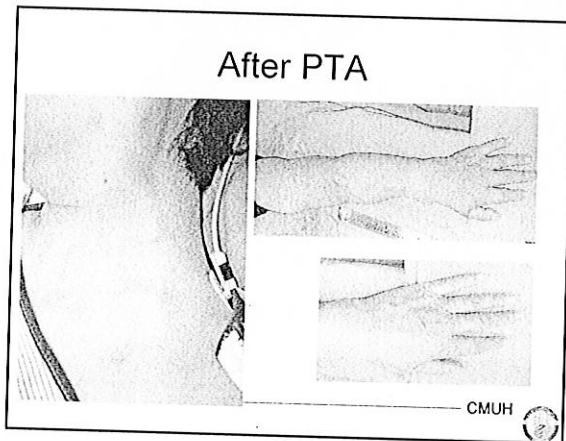
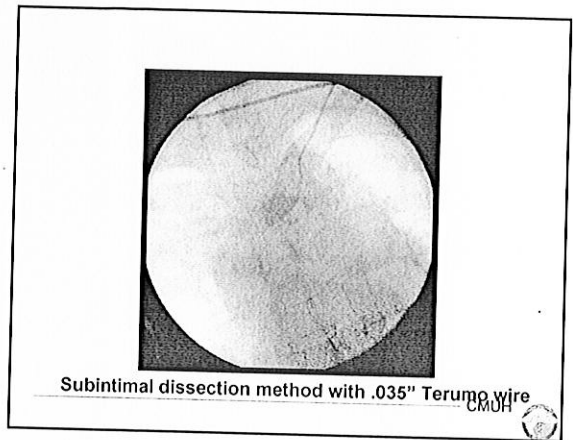
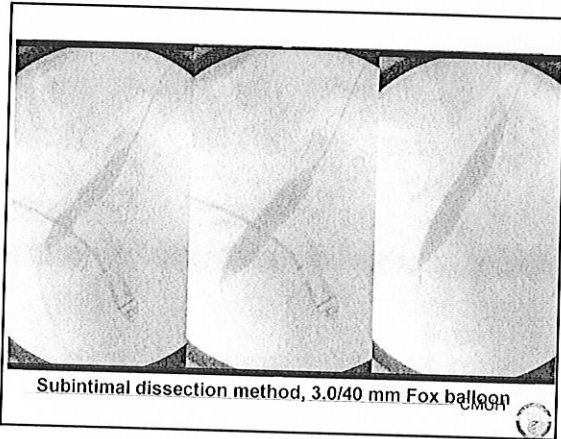
6Fr sheath from left cephalic vein antegradely



3.0/20 mm Fox balloon at 10 atm, .035" Terumo







Conclusion

We would like to express caution regarding the increase of upstream blood flow via releasing stenosis from PTA for AVF in patients who had severe downstream occlusion. Before PTA, inflow or outflow problems should be identified through history taking and physical examination carefully to avoid this kind of complication.

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Thanks for your attention

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