

**Case 12 Zurich 1:
female, 37 years (S-L)**

**Y-Reconstruction of the inferior vena
cava, both iliac veins and right
femoral veins for postthrombotic
syndrome**

Operators: N. Kucher, E. Holy, A. Grigorean

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Clinical history:

- VSD defect repair at age 1 year and several heart catheterizations via the femoral veins.**
- 2 episodes of massive ilio caval DVT in 1984 and 2008.**
- Pregnancy 2016**

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Current medical problems:

- Postthrombotic syndrome with permanent leg swelling and venous claudication (right > left)**
- Lower abdominal pain from pelvic congestion syndrome**

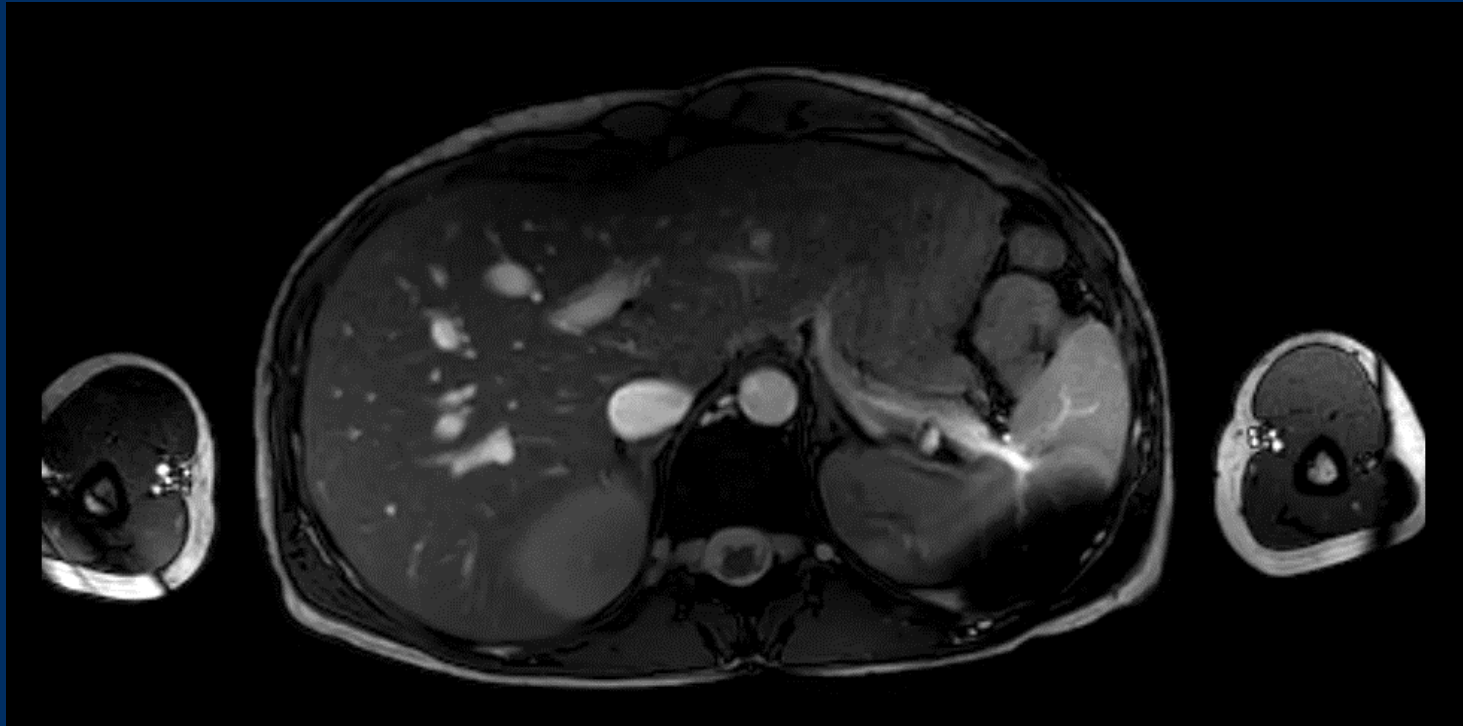
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Echocardiography 01/2021:

- Normal LV function**
- Normale RV size and function**
- No indirect signs of pulmonary hypertension**

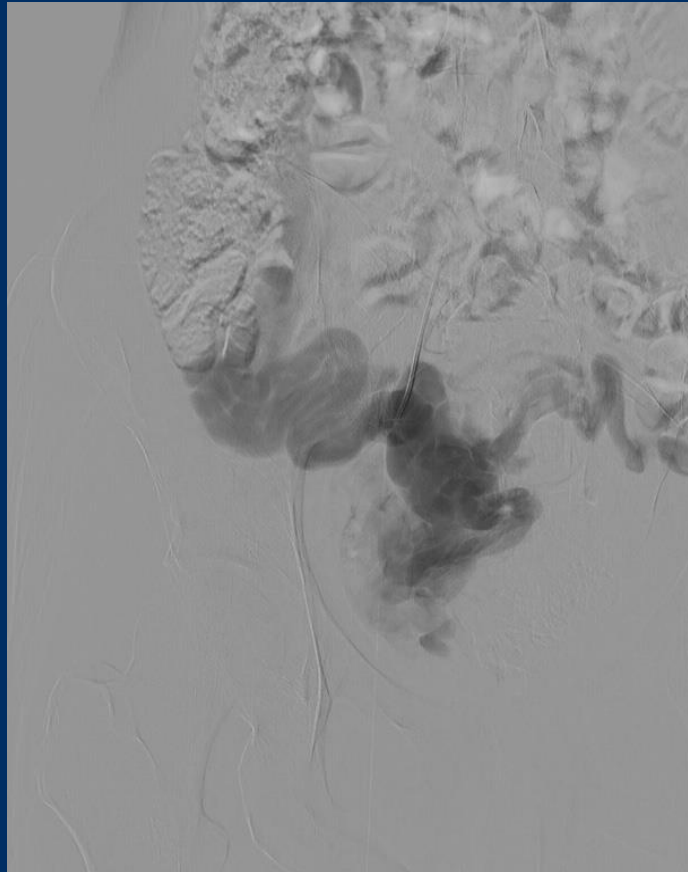
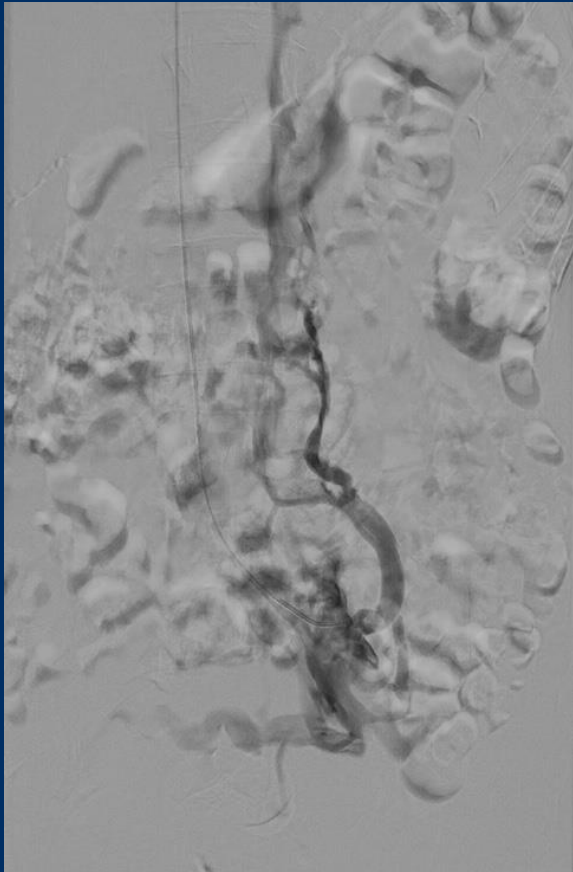
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- MR-Phlebography 28.09.2020:

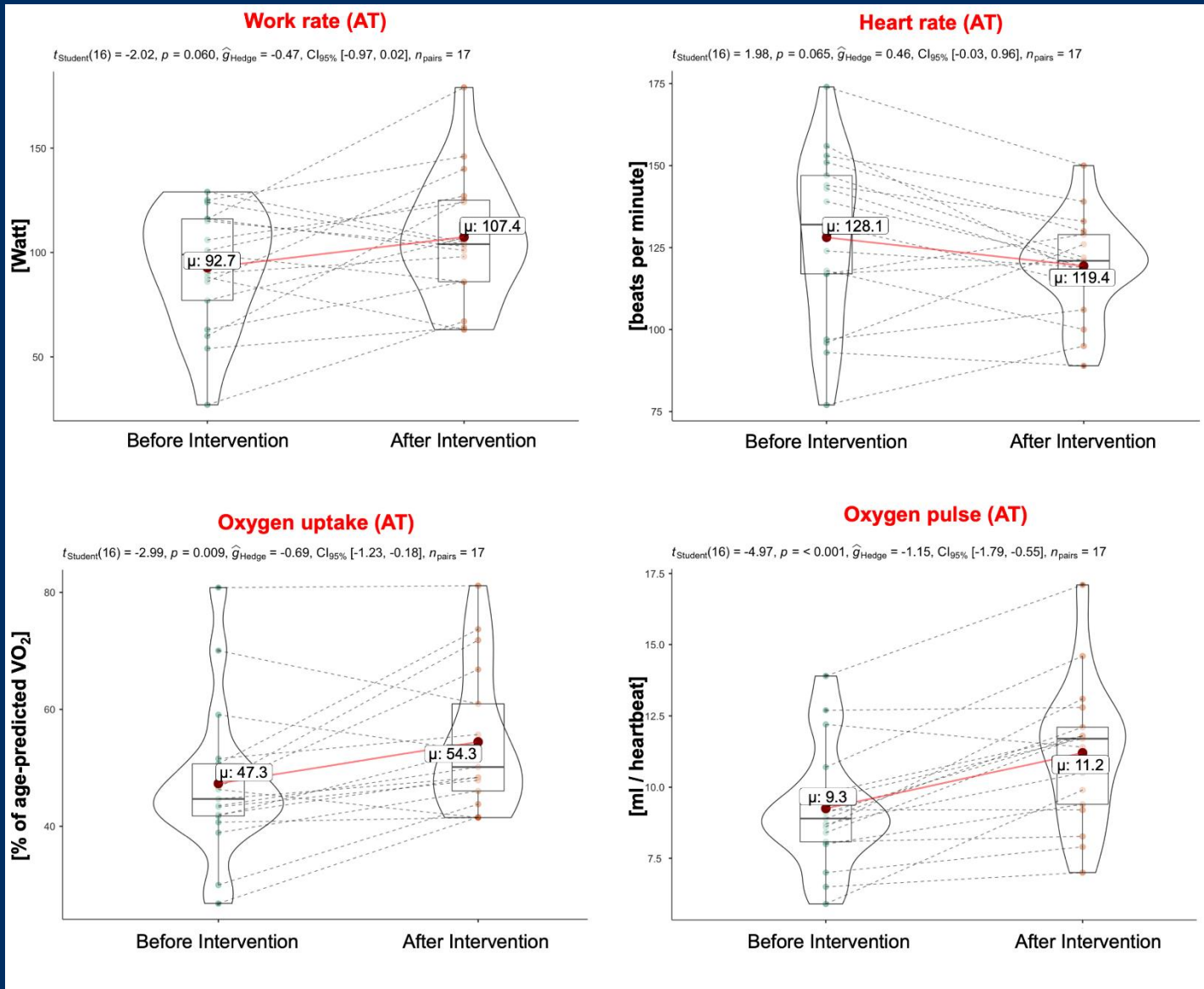


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- Venography 18.11.2020:



IVC reconstruction: reversal of cardiopulmonary exercise intolerance in patients with post-thrombotic obstruction of the inferior vena cava



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Cardiopulmonary exercise test 01/2021:

- Max Workload: 123 W (73%)
- Max heart rate: 164 beats per minute (90%)
- Max sys BP 170/191 mmHg
- Stop due to dyspnea at 6:36 min
- No ECG signs of ischemia
- Max VO₂: 80%

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- **Interpretation:**
 - **PTS due to occlusion of IVC and iliac veins**
 - **Pelvic congestion syndrome**
 - **Reduced cardiopulmonary exercise intolerance**

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- **Procedural steps:**

- General anaesthesia, urinary catheter, supine position

- Ultrasound-guided double venous access:

- both common femoral veins (10 F left, 10 F right)

1. Angioplasty iliac veins and infrarenal IVC

2. Reconstruction of infrarenal IVC and iliac veins (Venovo)