Balloon angioplasty in CTEPH

Vascular Interventions
Study Protocol

Case Description

Patient history
74-year-old female patient with history of recurrent pulmonary embolism and chronic thrombo-embolic pulmonary hypertension (CTEPH).

Diagnosis
CTEPH with perfusion defects.

Treatment
In the third balloon angioplasty procedure, we focused on the right middle and right upper lobe.

General comments
With syngo iFlow we were able to visualize the improvement of peripheral filling of the treated vessels.
ROIs create contrast concentration versus time curves.

Tips and tricks
For the use of syngo iFlow, 4 F/s DSA run is sufficient. No separate DSA runs are necessary.
Coordinate timing of injection for direct pre- and posttreatment comparison.

For syngo iFlow
no separate DSA runs are necessary

For Courtesy
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Supported by
syngo iFlow

System & Software
ARTIS pheno VE1 with syngo Application Software VD2

web stenosis A 4
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<table>
<thead>
<tr>
<th>Acquisition protocol</th>
<th>DSA 4 F/s ~27 frames</th>
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**Injection protocol**

- **Catheter position**: Upper right lung lobe artery
- **Contrast medium (CM)**: 300 mg iodine/mL
- **Dilution**: 60%
- **Injection volume**: 8 mL
- **Injection rate**: Hand injection
- **Duration of injection**: 7s
- **X-ray delay**: Injection starts right after mask image
- **Power injector used**: No

Web stenoses visible on syngo DynaCT images

syngo iFlow before angioplasty

syngo iFlow after angioplasty visualizes the improvement of peripheral blood flow

The statements by Siemens’ customers presented here are based on results that were achieved in the customer’s unique setting. Since there is no “typical” hospital and many variables exist (e.g., hospital size, case mix, level of IT adoption), there can be no guarantee that other customers will achieve the same results.

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