



TCT Asia 2010

Structural Damage During Percutaneous Aortic Valve Replacement

Eberhard Grube MD

*Intl. Heart Center Rhein-Ruhr, Essen, Germany
Hospital Oswaldo Cruz – Dante Pazzanese, São Paulo, Brazil
Stanford University, Palo Alto, California, USA*

Case Example

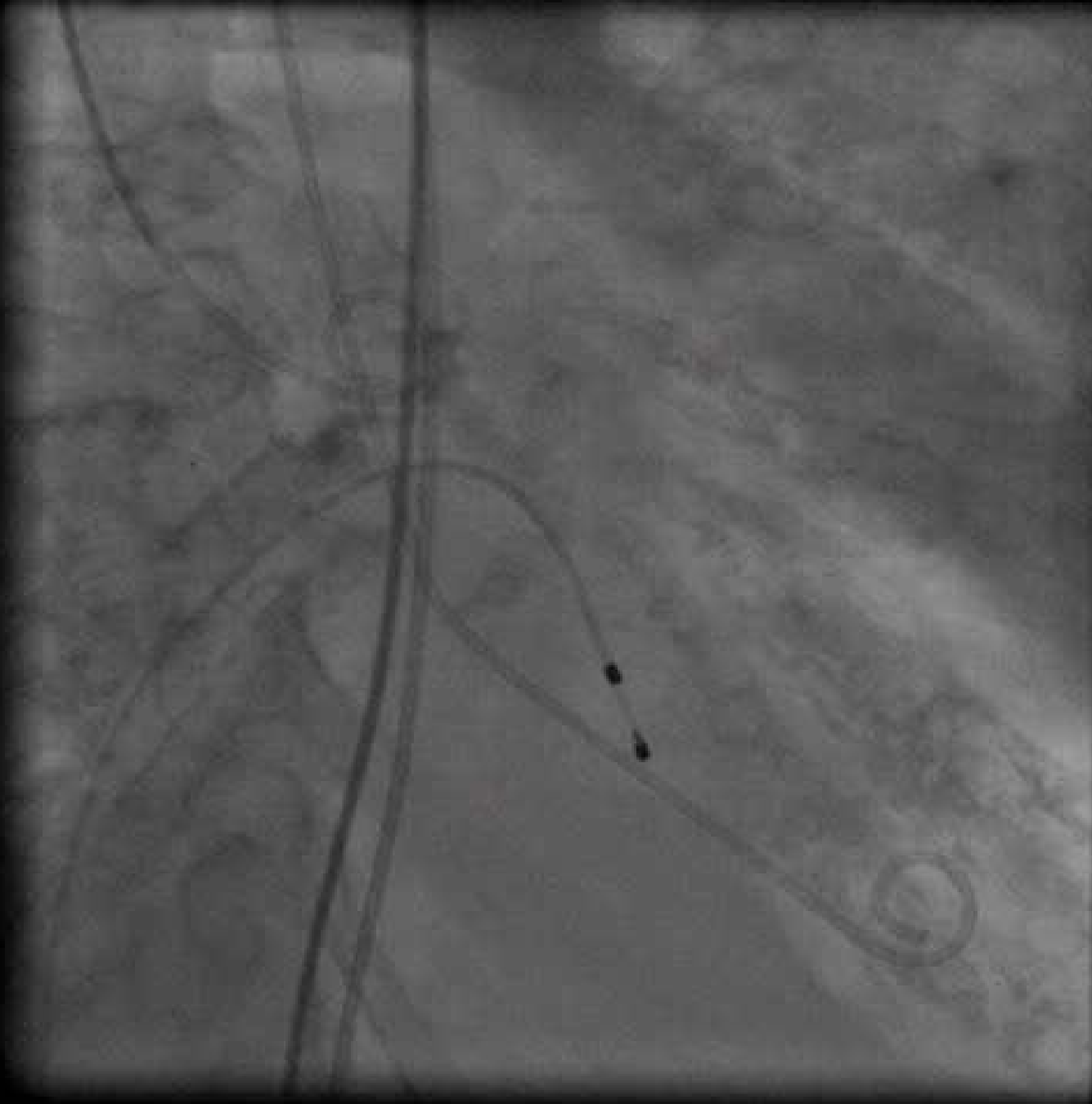
- 90yr old female
- Severe AS (pmean 55mmHg, AVA 0.7qcm)
- LVEF 55%, COPD
- LogEuroScore 27%
- NYHA III



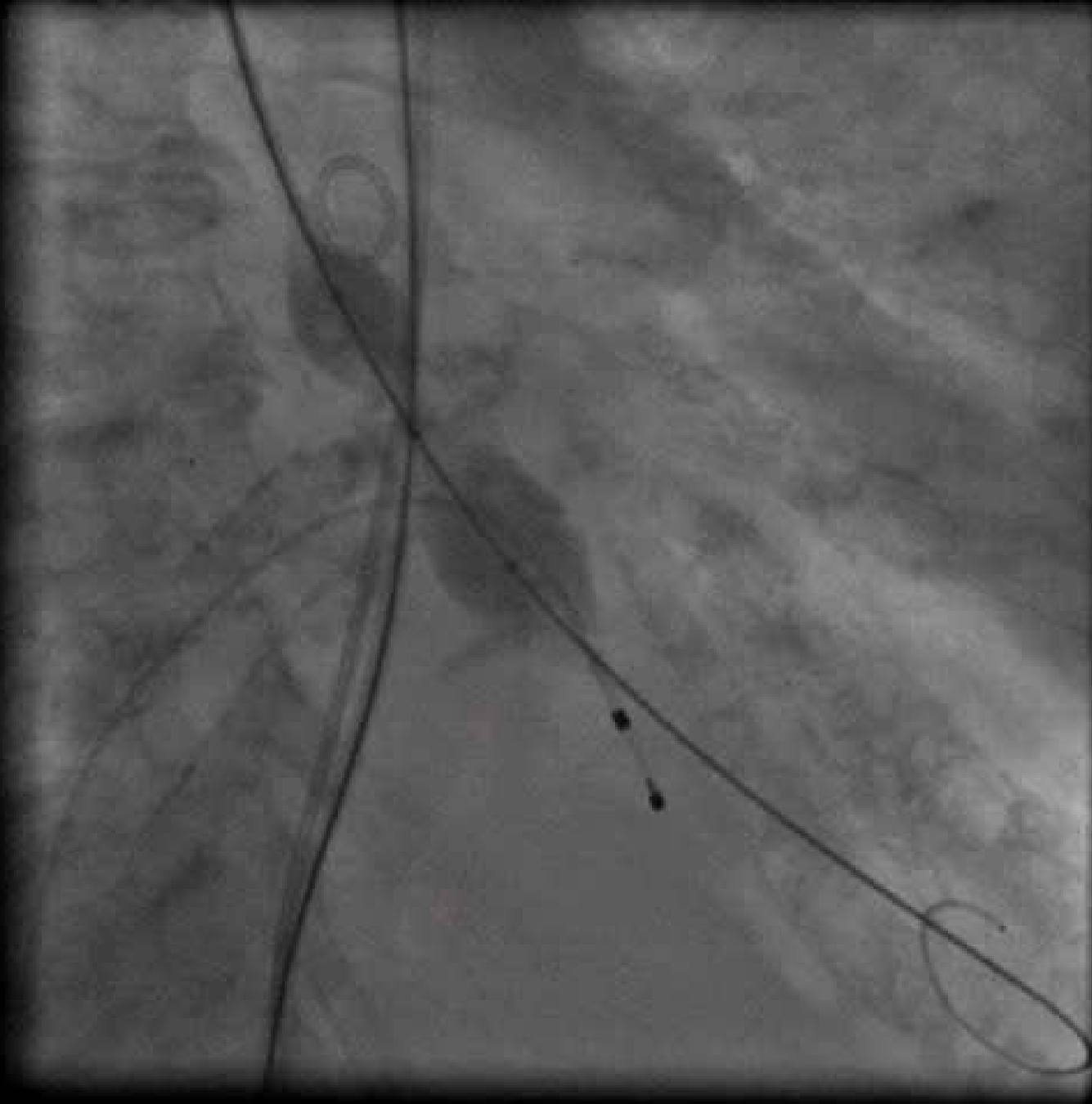
Regular
Puncture
under Angio
Guidance



Aortogram



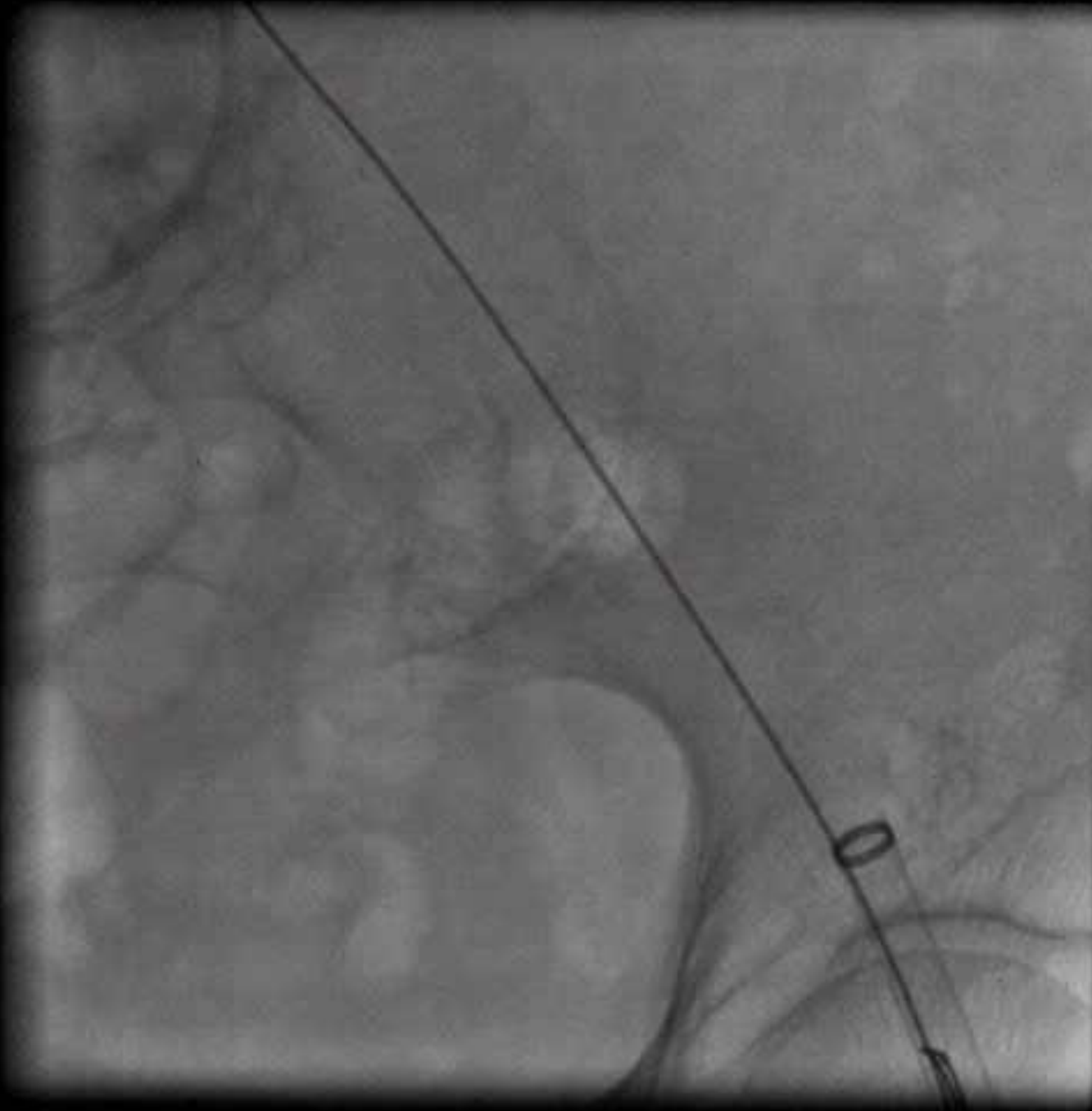
Balloon Valvuloplasty



Withdrawal
of ruptured
Balloon

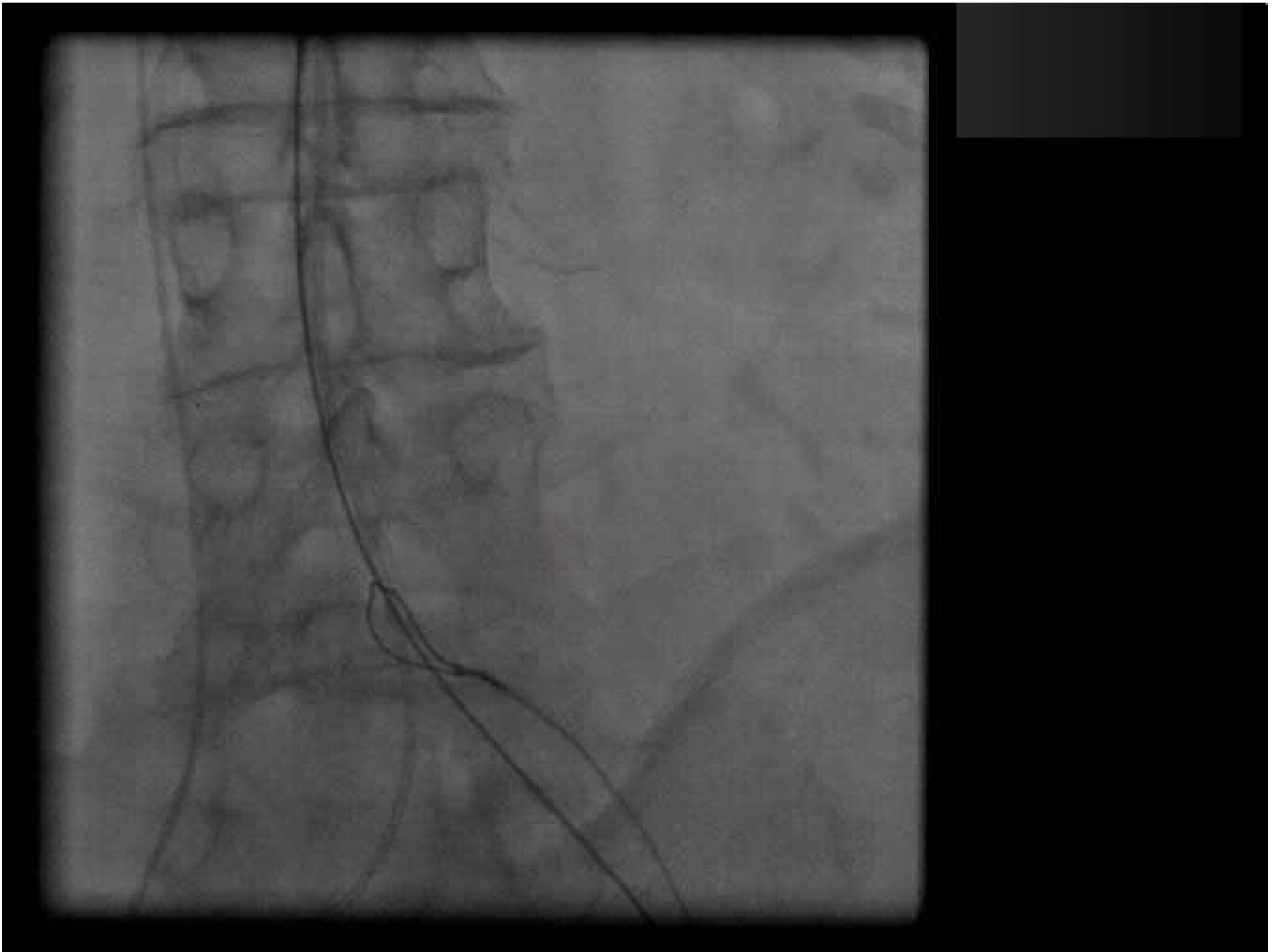


Balloon
cannot be
retrieved
through
Sheath Tip



Pull back of
Balloon and
Sheath with
Snare Support

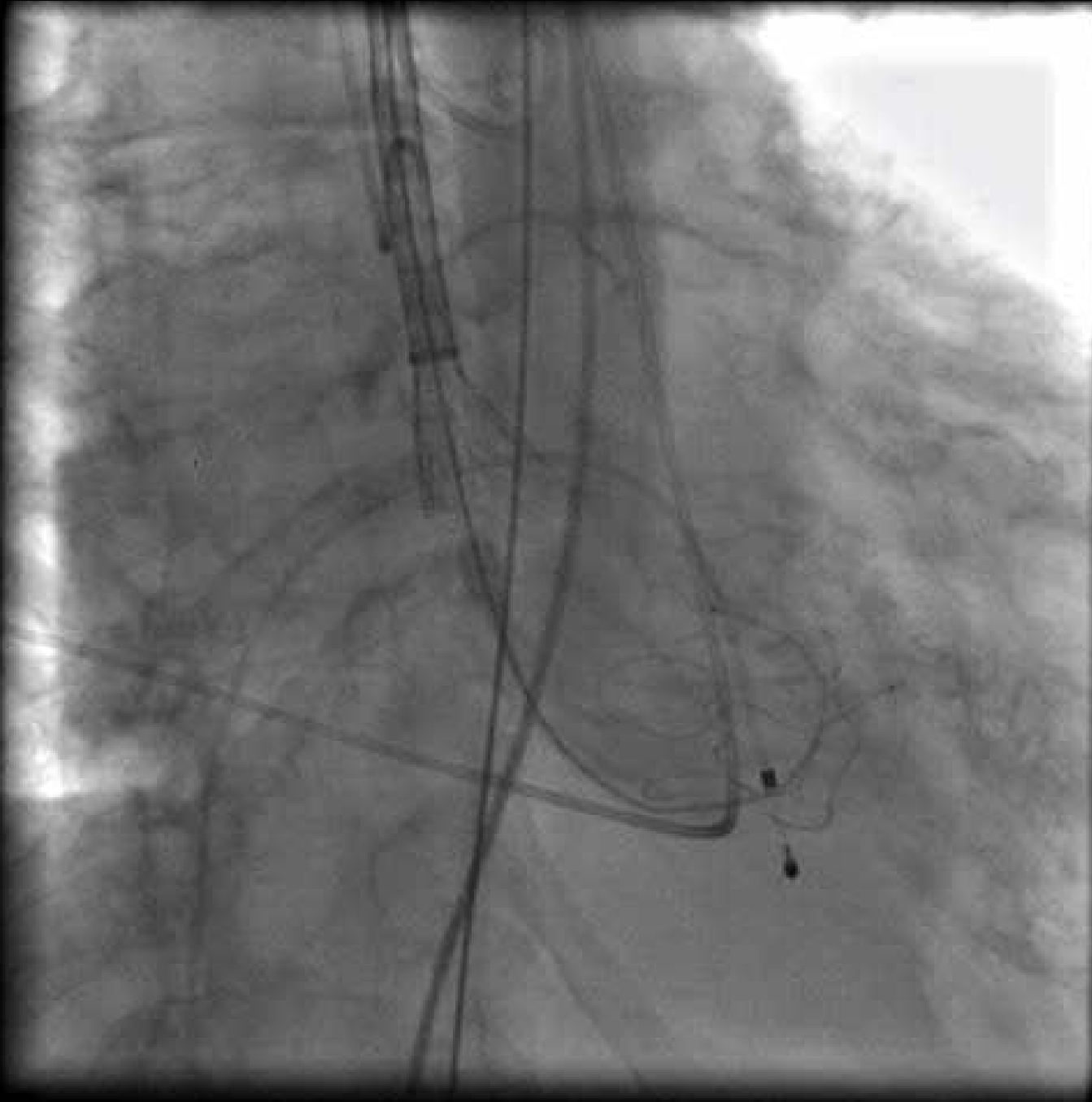




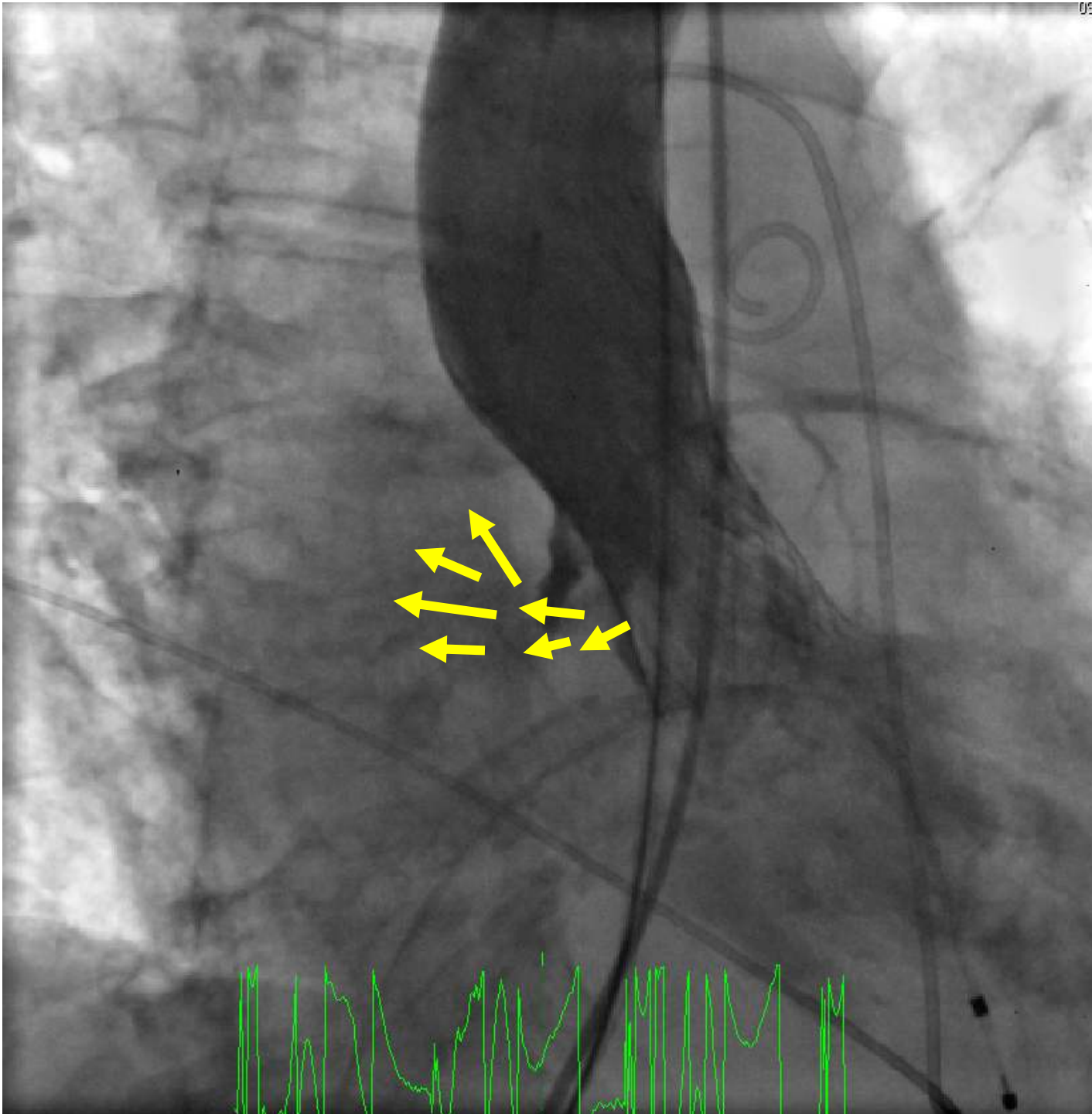


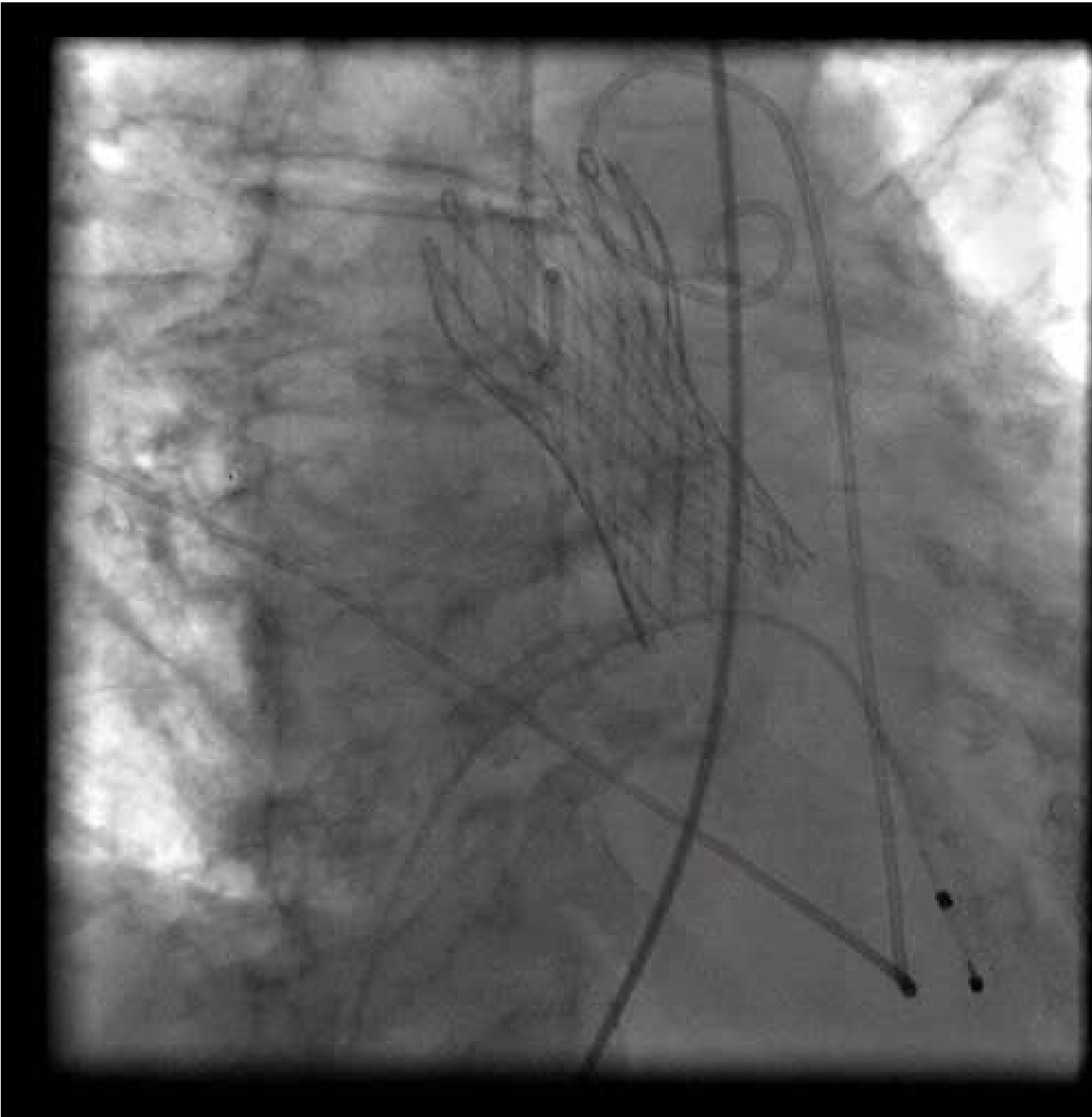
Aortogram –
Patient is
deteriorating,
Cardiac
Depression,
Hypotension

Rapid release
of CV
Prosthesis
under CPR



Aortogram
reveals
Annulus
Rupture with
subsequent
Tamponade

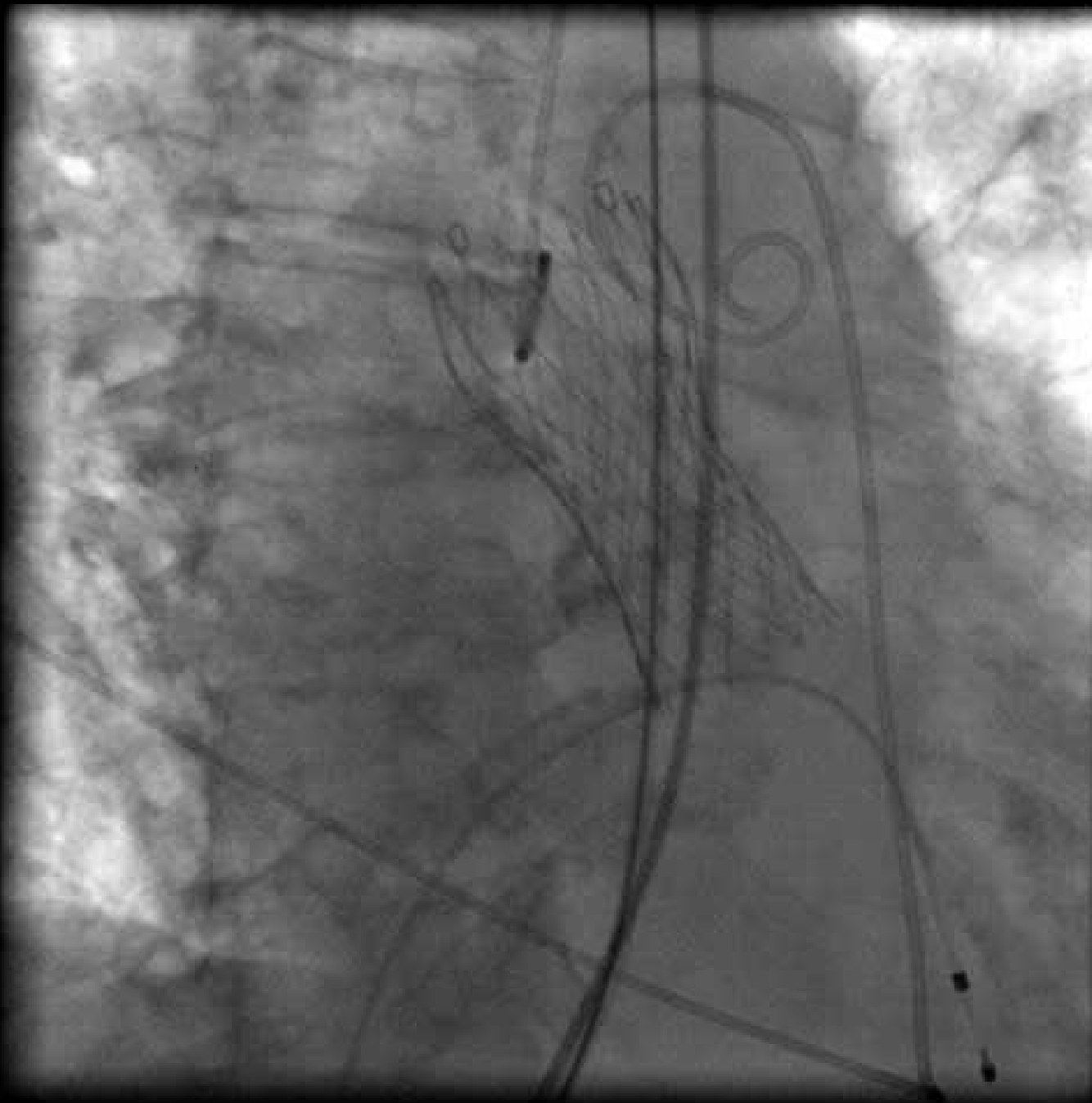




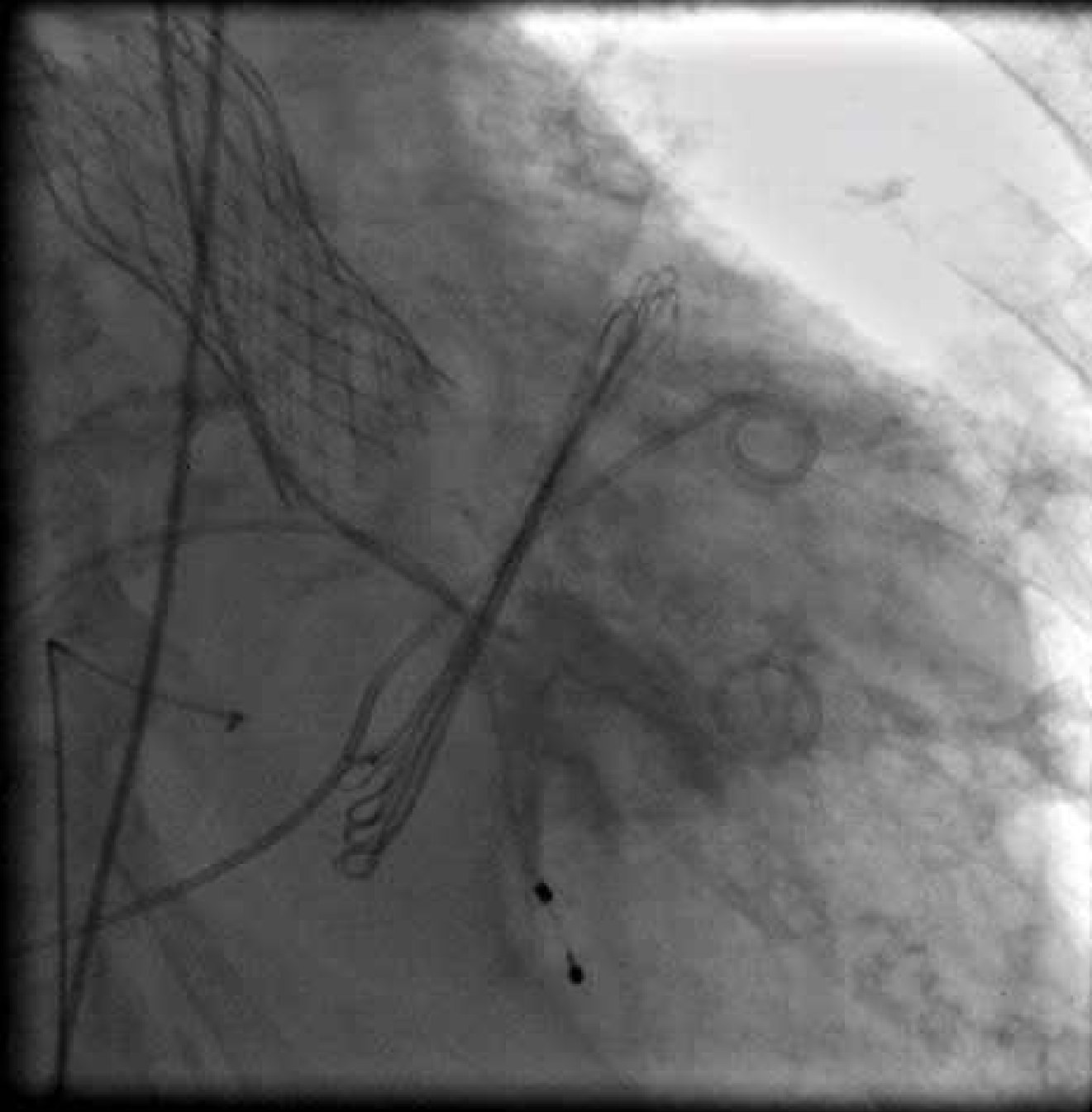
Aortogram
reveals
Annulus
Rupture with
subsequent
Tamponade

Stabilization

after
Pericardiocentesis
and further
Expansion of the
CV



Restored
LV
Function



Good
angiographic
final Result





Thank you