

14th

AICT

ASIAN INTERVENTIONAL CARDIOVASCULAR THERAPEUTICS
THE OFFICIAL CONGRESS OF APSIC

Let's Fix The Things Timely

AICT 2018 7th September 17:19-17:27 **Case 5**

Dr. Simon Lam

Queen Mary Hospital, Hong Kong

Disclosure

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Clinical Presentation

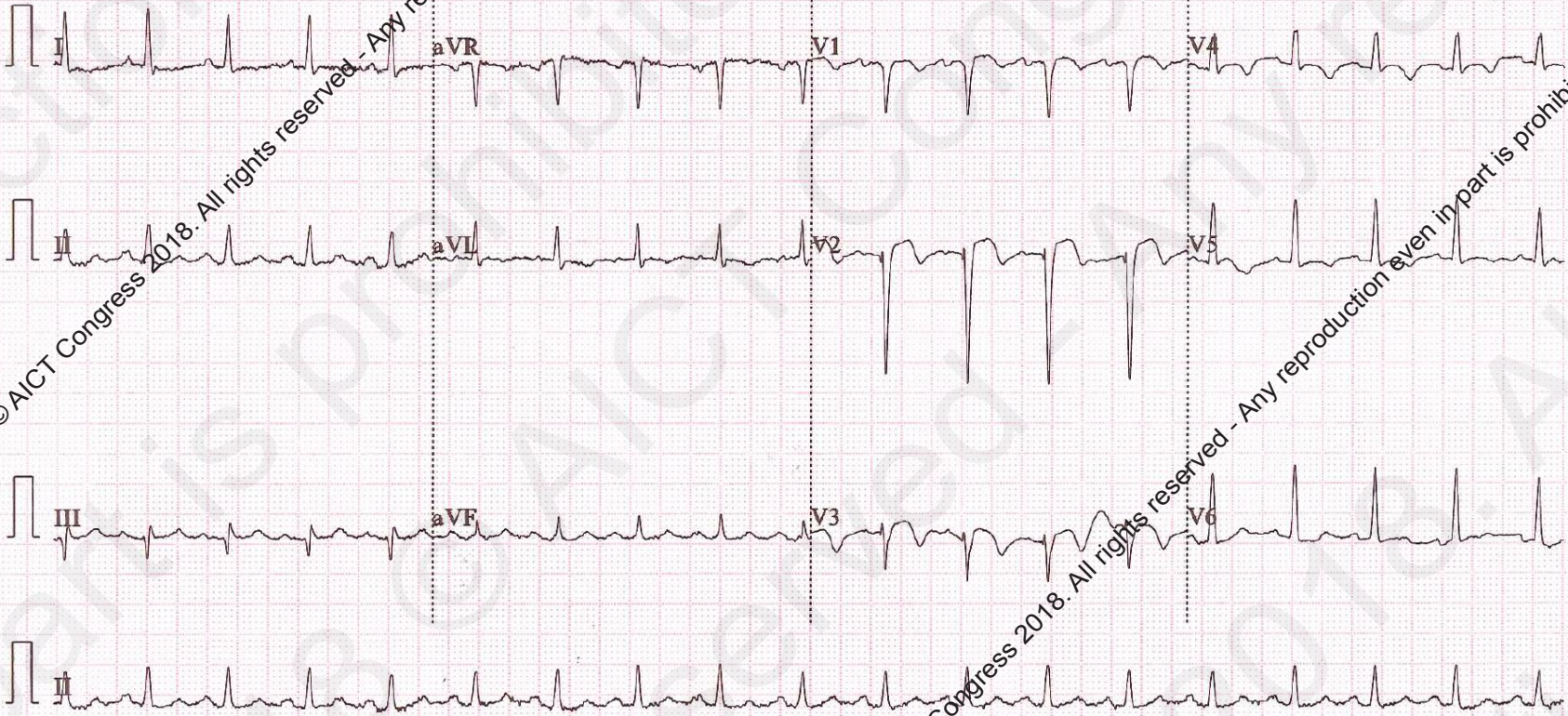
- F/87
- Lives alone, ADL-I
- **Known history of mod AS last Echo 2013**
- Hypertension
- Admitted on 25/12/2017 for chest pain onset 3 days prior to admission
- BP 95/50 P110

ECG on admission

HR	:	110	bpm
P	:	101	ms
PR	:	165	ms
QRS	:	86	ms
QT/QTc	:	222/437	ms
P/QRS/T	:	64/31/95	°
RV5/SV1	:	0.976/0.848	mV

Diagnosis Information:
Sinus Tachycardia
Possible Anteroseptal Myocardial Infarction(V1,V2,V3,V4,V5)

Report Confirmed by:



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- **TTE on admission**

- LVEF 35%, severe anteroseptal HK from base to apex

- Calcified AV with severe AS PG/MG
82/55mmHg, AVA 0.6cm²

- Moderate MR, TR RVSP 50mmHg

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Progress

- Managed as delayed presentation of antero-septal STEMI with progression of underlying aortic stenosis
- LMWH, DAPT and guideline-directed therapy
- Started on low dose dopamine 5ml/hr (2:1 concentration) borderline BP

Im: 1/48

Se: 3

Queen Mary Hospital
1798-2017
XA
Left Coronary 15 fps

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WL: 129 WW: 190 [D]
RAO: 31 CAU: 15

12/29/2017 5:17:32 PM

Im: 1/49

Se: 4

Queen Mary Hospital
1798-2017
XA
Left Coronary 15 fps

WL: 129 WW: 190 [D]
RAO: 20 CRA: 37

12/29/2017 5:17:50 PM

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Im: 1/56
Se: 7

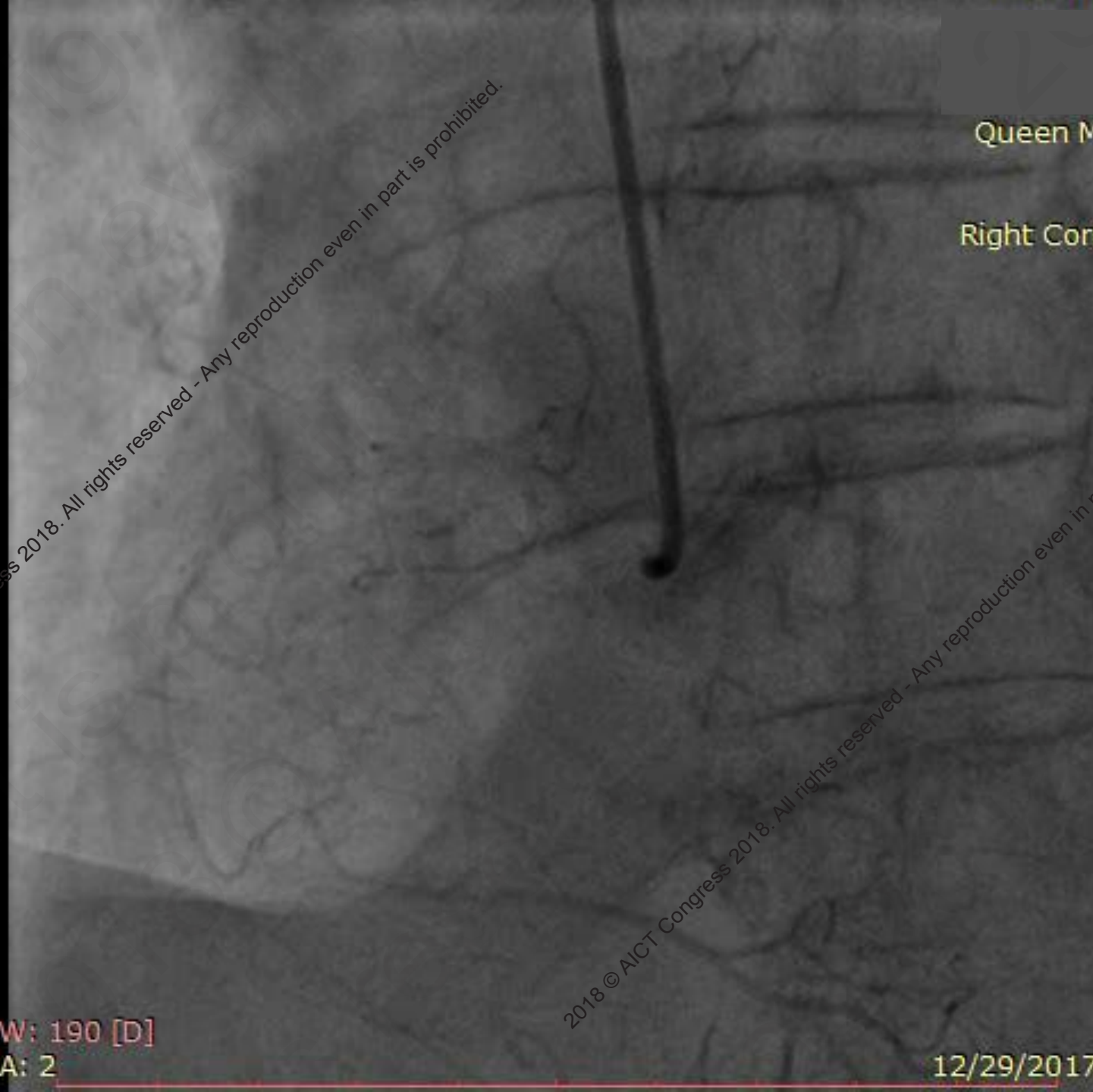
Queen Mary Hospital
1798-2017
XA
Right Coronary 15 fps

WL: 129 WW: 190 [D]
LAO: 31 CRA: 2

12/29/2017 5:20:11 PM

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Im: 1/103
Se: 10

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Left Coronary 15 fps



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WL: 110 WW: 190 [D]
LAO: 5 CAU: 10

12/29/2017 5:25:16 PM

Decision Timepoint #1

- Shall we

- wait for stabilization and optimization of medical treatment before doing anything?
- **Intervene early because still need dopamine and medical treatment cannot stop clinical deterioration?**

What intervention

- On-go approach
 - PCI + BAV?
 - PCI + TAVI?
- Stepwise approach
 - PCI then see what happens
 - PCI then BAV/TAVI
- “No touch” approach
 - Conservative treatment?

- Family interviewed and explained on coronary angiogram findings and concomitant severe aortic stenosis
- Advanced age and patient have many family members – Eldest Son in UK, Daughter in Australia, the rest of family in Hong Kong
- Take time for Family consensus – diversion of decision among family
- Can only make decision for PCI first
- Cannot have consensus for BAV and TAVI

PCI to LAD on 3/1/2018
Left radial approach

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EMERGE 2.5/12mm

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Resolute Onyx 2.75/26mm

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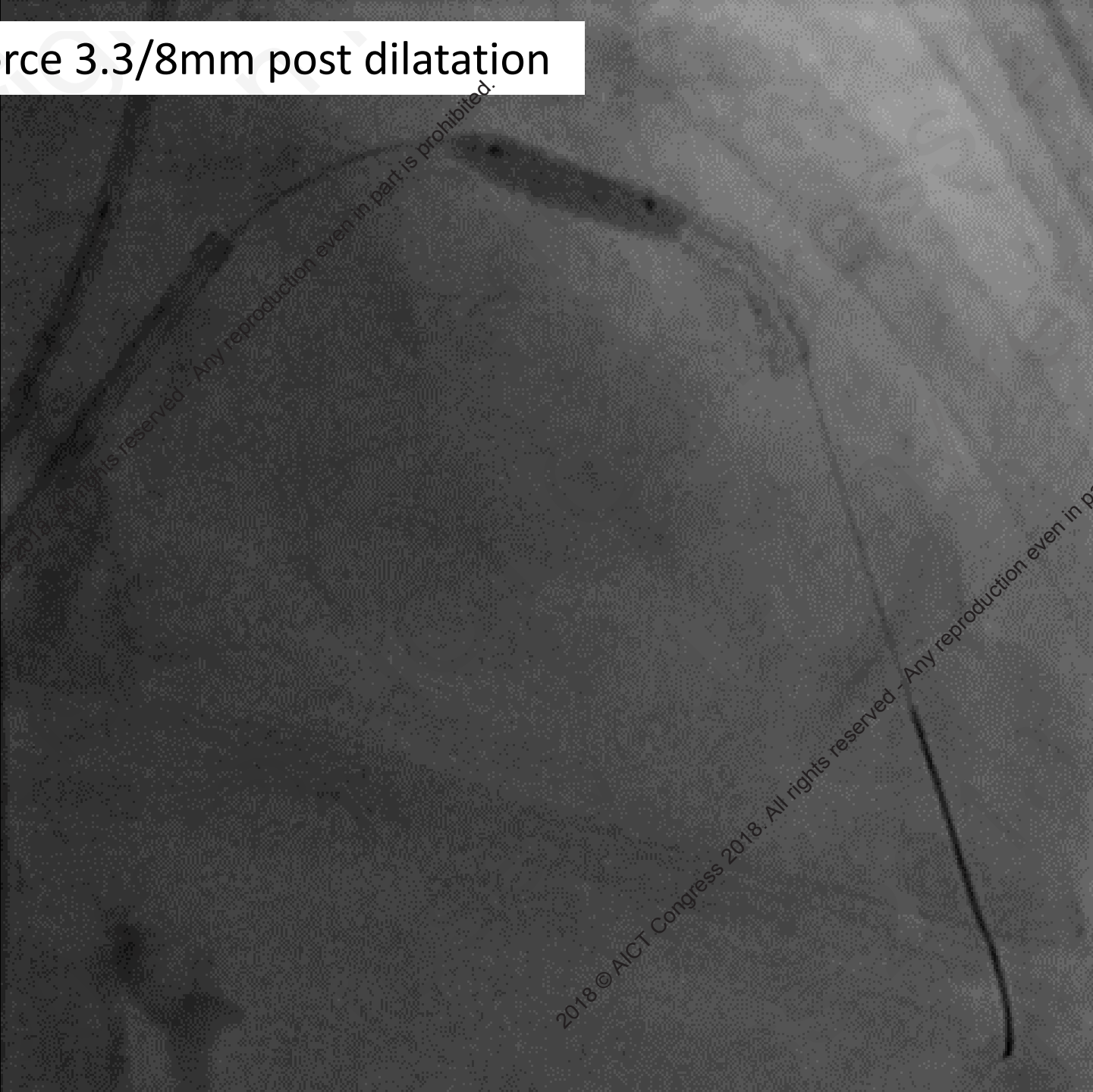
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OCT

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Accuforce 3.3/8mm post dilatation



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Progress

- Successful PCI pLAD critical lesion with DES
- **Significant PR Bleeding** with increasing Dopamine demand 5 days post PCI
- OGD and Flexible Sigmoidoscopy done in ICU
 - Rectal ulcer and multiple sigmoid diverticuli
- Temporary withhold Plavix and resumed after Hb stabilized with close monitoring

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Progress

- Still dopamine dependent on 5ml/hr (2:1 concentration)
- 2L O₂ CXR - status quo
- BP borderline ~90
- **Echo** – LVEF 35% severe LAD territory HK, severe AS
- Probably some chest infection given antibiotics with iv Tazocin

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Decision Timepoint #2

- Anticipating potential deterioration
- Episodic change in condition with up and down titrating of dopamine and BIPAP support
- Patient and Family members cannot make up any mind
- Overall likely downhill course and DNACRP signed

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Decision Timepoint #3

- Status quo for subsequent 1 month in CCU with supporting treatment
 - No worsening no improvement
 - 2L O2
 - 5ml dopamine (3-8ml)
 - Patient with clear mind and communicable
 - Can tolerate diet
 - overall frail
 - Changing iv access many times
 - Regular sitting out, ripple bed to present bedsores

Family Conference

- All family members come back for thorough discussion on patient condition
- Understood current condition
- Patient made her own decision – “if survive through till after Chinese New Year.....”

2018

11							12						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
			1 十三	2 十四	3 十五	4 十六						1 十四	2 十五
5 十七	6 十八	7 立冬	8 二十	9 廿一	10 廿二	11 廿三	3 十六	4 十七	5 十八	6 十九	7 大雪	8 廿一	9 廿二
12 廿四	13 廿五	14 廿六	15 廿七	16 廿八	17 廿九	18 十月	10 廿三	11 廿四	12 廿五	13 廿六	14 廿七	15 廿八	16 廿九
19 初二	20 初三	21 初四	22 小雪	23 初六	24 初七	25 初八	17 三十	18 十一月	19 初二	20 初三	21 初四	22 冬至	23 初六
26 初九	27 初十	28 十一	29 十二	30 十三	31 十四		24 初七	25 初八	26 初九	27 初十	28 十一	29 十二	30 十三

一月 JANUARY							二月 FEBRUARY							三月 MARCH							四月 APRIL						
星期一	星期二	星期三	星期四	星期五	星期六	星期日	星期一	星期二	星期三	星期四	星期五	星期六	星期日	星期一	星期二	星期三	星期四	星期五	星期六	星期日	星期一	星期二	星期三	星期四	星期五	星期六	星期日
1	2	3	4	5	6	7	1	2	3	4				1	2	3	4				1	2	3	4	5	6	7
8	9	10	11	12	13	14	5	6	7	8	9	10	11	5	6	7	8	9	10	11	2	3	4	5	6	7	8
15	16	17	18	19	20	21	12	13	14	15	16	17	18	12	13	14	15	16	17	18	9	10	11	12	13	14	15
22	23	24	25	26	27	28	19	20	21	22	23	24	25	19	20	21	22	23	24	25	16	17	18	19	20	21	22
29	30	31					26	27	28					26	27	28	29	30	31	23 初八	24 初九	25 初十	26 十一	27 十二	28 十三	29 十四	

TF TAVI

- Heart team approach
- TAVI on compassionate ground on 23/2/2018
- L femoral Access
- Embolic protection with Sentinel

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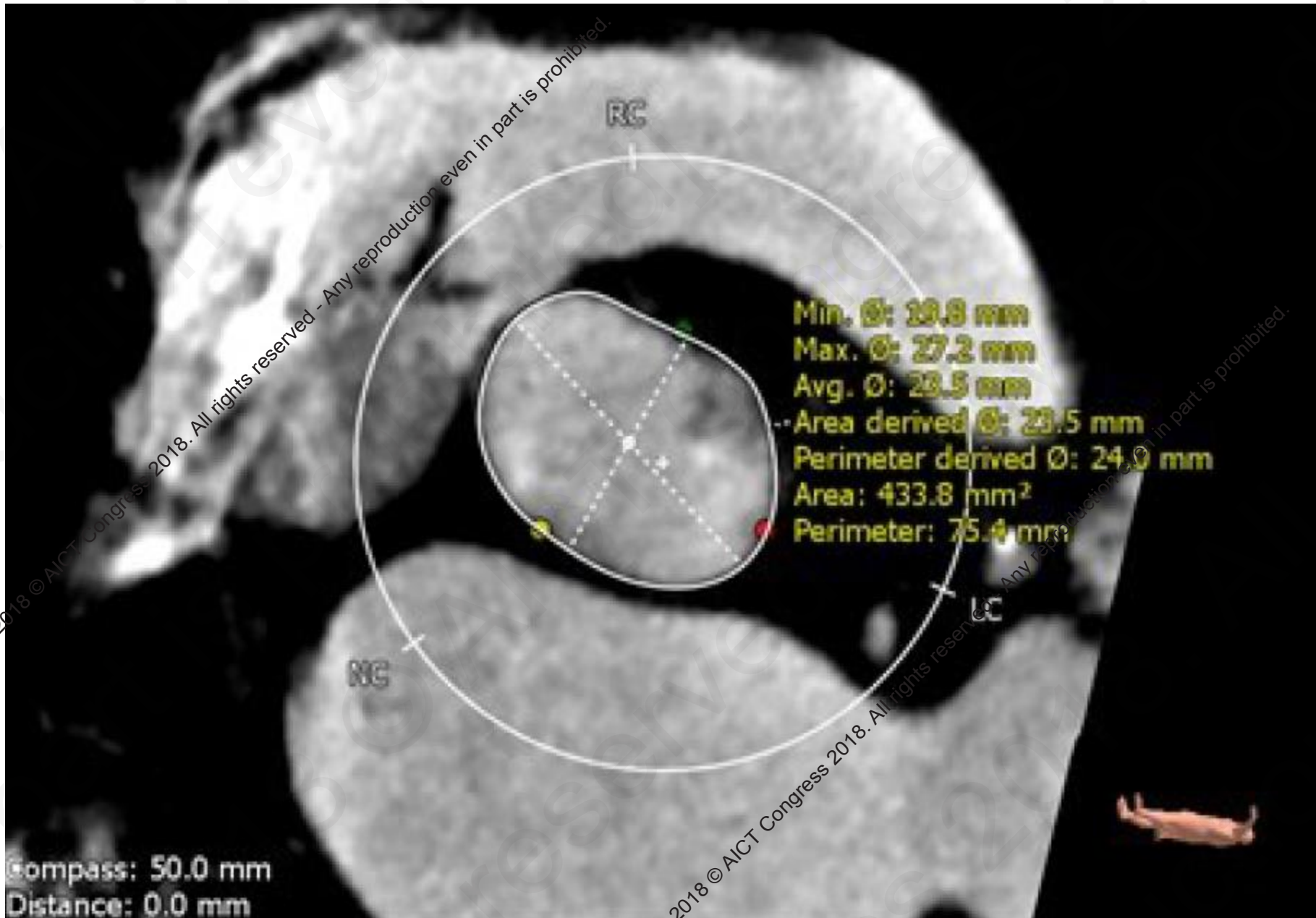
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Compass: 50.0 mm
Distance: 9.8 mm

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SAPIEN 3 Valve Sizing: Confirm THV Size

NOTE:

Systolic measurements are recommended

3D Area - derived Diameter (mm)	20.0	20.2	20.5	20.7	21.0	21.1	21.4	21.7	22.0	22.3	22.6	22.8	23.0	23.1	23.4	23.7	23.9	24.0	24.2	24.7	
3D Annular Area (mm ²)	314	320	330	338	346	350	360	370	380	390	400	410	415	420	430	440	450	452	460	480	
% Annular Area Over (+) or Under (-) Nominal by 3D CT	23mm	29.3	26.9	23.0	20.1	17.3	16.0	12.8	9.7	6.8	4.0	1.5	-1.0	-2.2	-3.3	5.6	-7.7	-9.8			
	26mm											29.8	26.6	25.1	23.6	20.7	18.0	15.3	14.8	12.8	8.1
	29mm																				

3D Area - derived Diameter (mm)	25.0	25.2	25.5	25.7	26.0	26.2	26.4	26.5	26.7	26.9	27.2	27.4	27.6	27.9	28.0	28.1	28.3	28.5	28.8	29.0	29.2	29.4	29.5	29.6	29.9	30.1	30.3	
3D Annular Area (mm ²)	490	500	510	520	530	540	546	550	560	570	580	590	600	610	615	620	630	640	650	660	670	680	683	690	700	710	720	
% Annular Area Over (+) or Under (-) Nominal by 3D CT	23mm																											
	26mm	5.9	3.8	1.8	-0.2	-2.1	-3.9	-4.9	-5.6	-7.3	-8.9																	
	29mm	29.8	27.3	24.8	22.5	20.2	18.9	18.0	15.9	13.9	11.9	10.0	8.2	6.4	5.5	4.7	3.0	1.4	-0.2	-1.7	-3.1	-4.6	-5.0	-5.9	-7.3	-8.6	-9.9	

NOTE:

Bold = recommended Sealing Zones relate only to valves that are deployed with nominal volumes

NOTE:

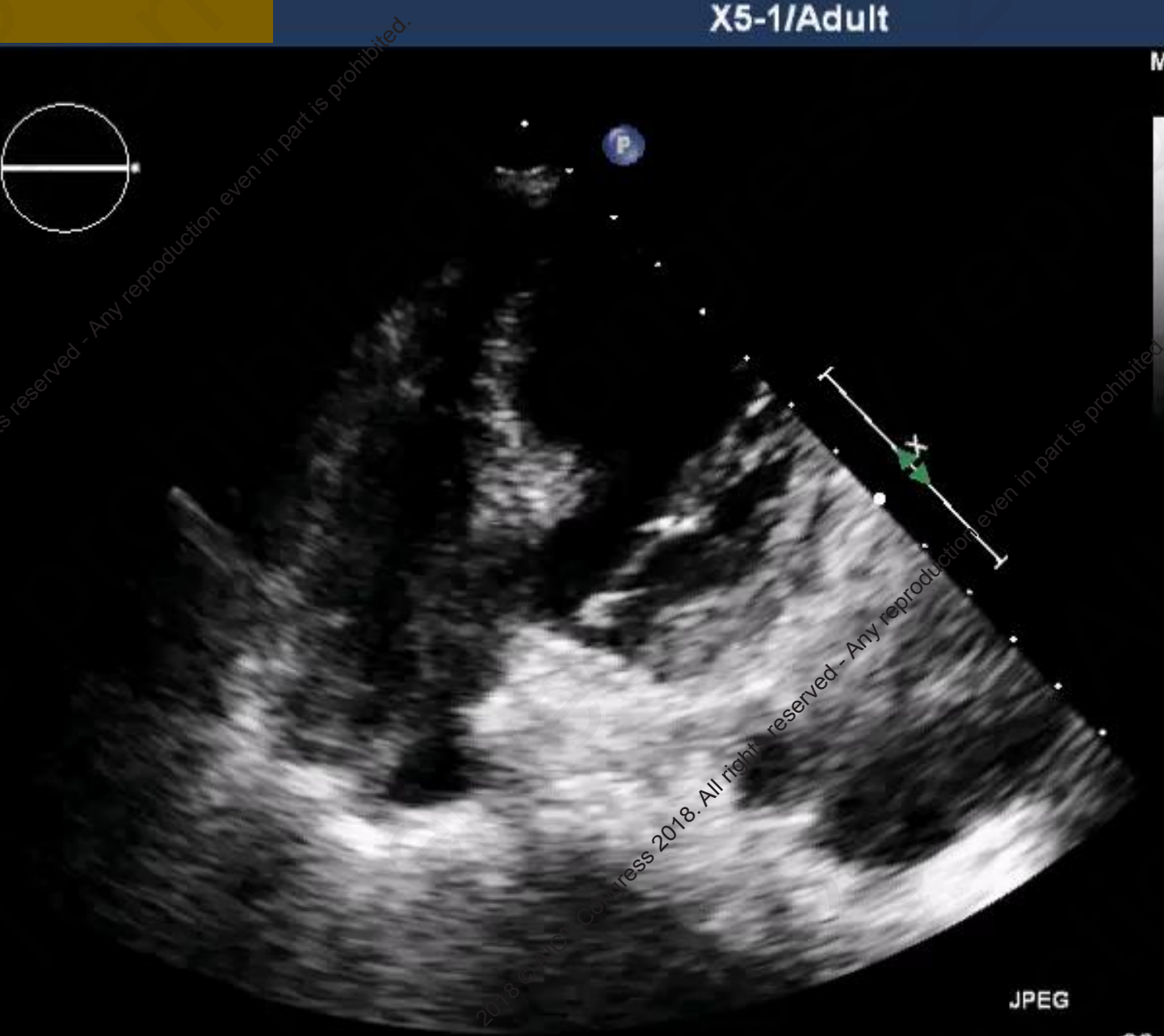
All values presented are based on nominal/recommended inflation volumes

FR 50Hz
14cm

2D
58%
C 50
P Low
HGen



M3



JPEG

99 bpm

Im: 1/76
Se: 2

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Left Coronary 15 fps

WL: 129 WW: 190 [D]
AP

2/23/2018 10:15:14 AM

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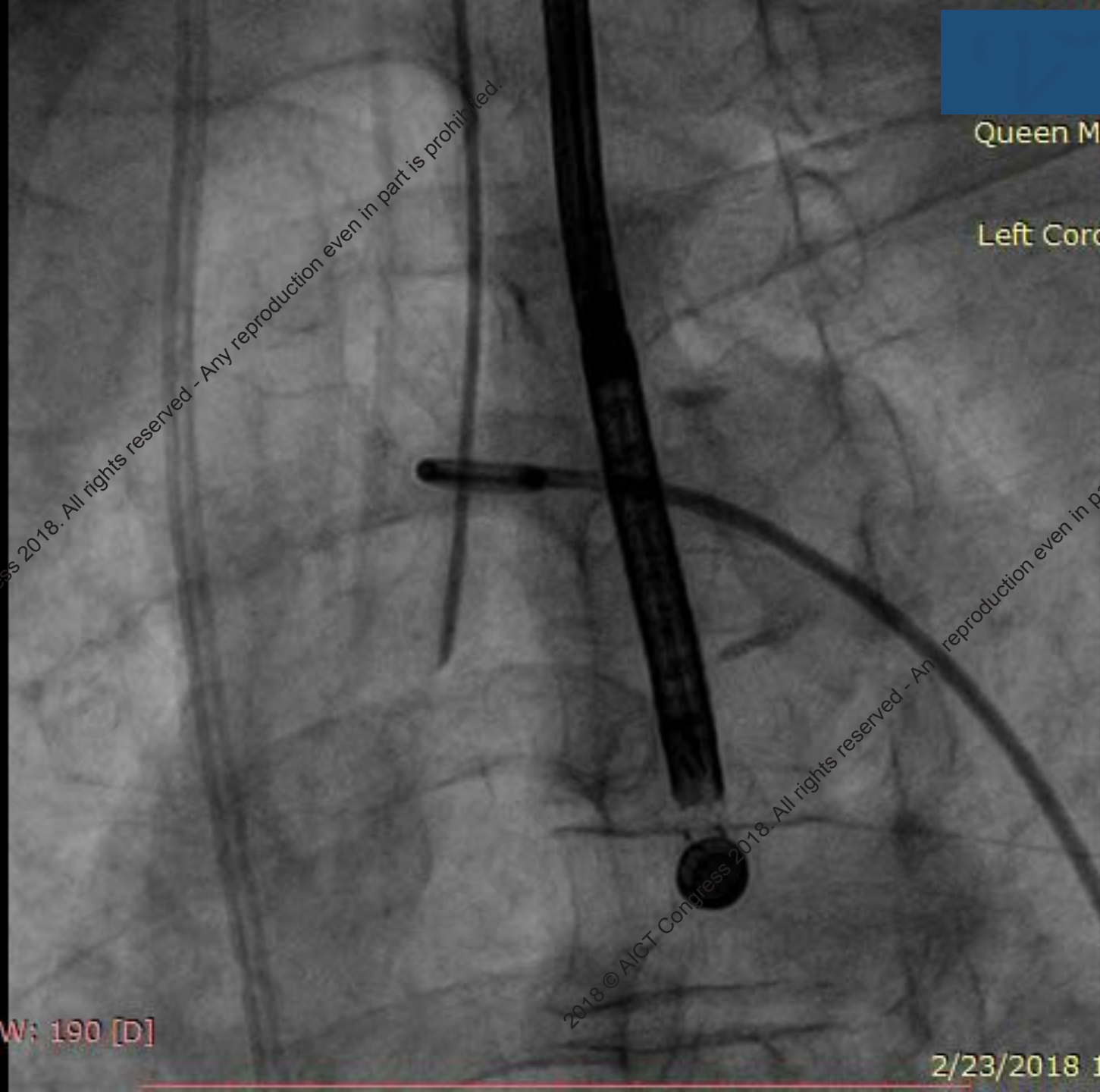
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Im: 1/55
Se: 6



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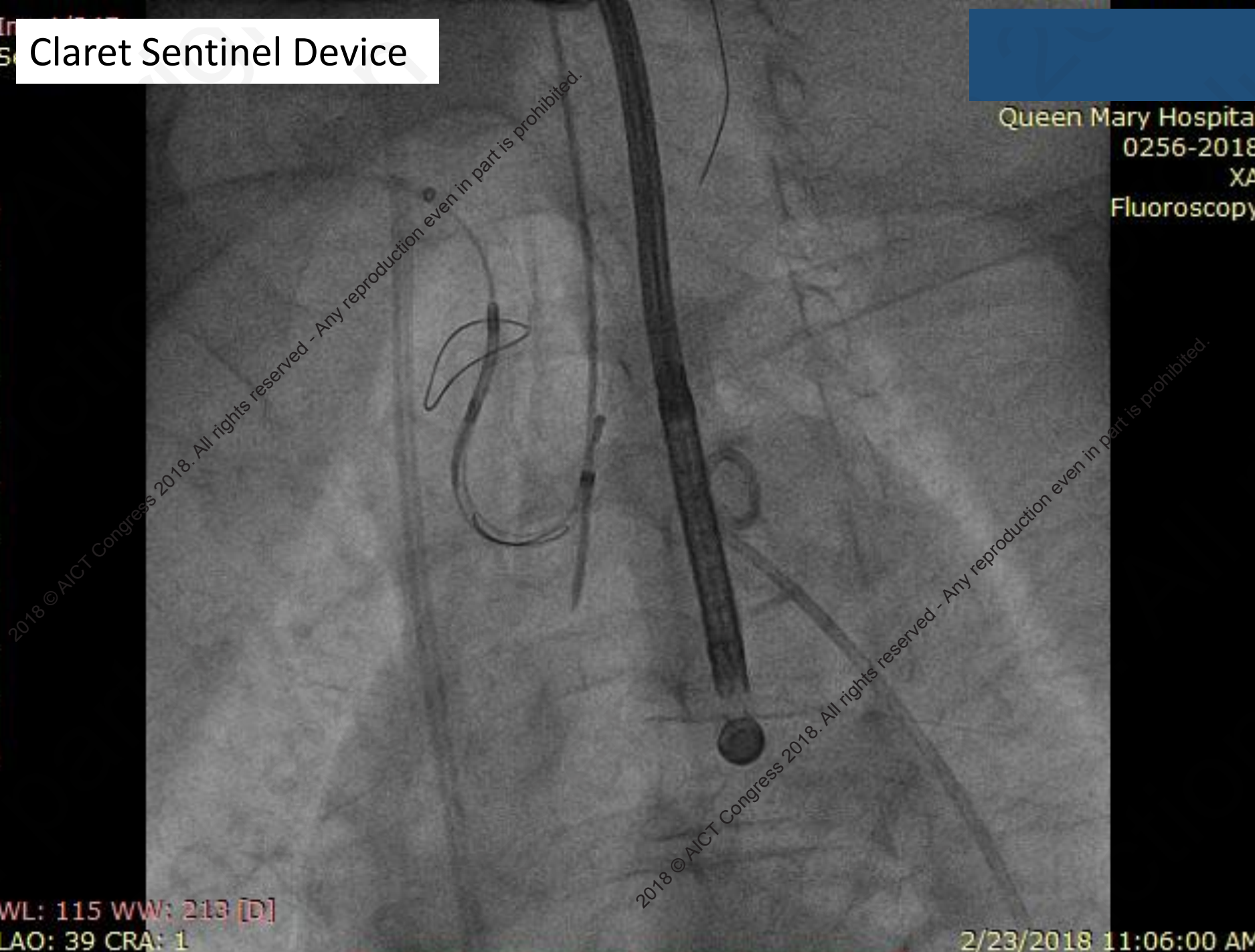


WL: 129 WW: 190 [D]
LAO: 38

2/23/2018 10:27:33 AM

Claret Sentinel Device

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XA
Fluoroscopy



WL: 115 WW: 213 [D]
LAO: 39 CRA: 1

2/23/2018 11:06:00 AM

Aortogram LAO 7 CAU 10

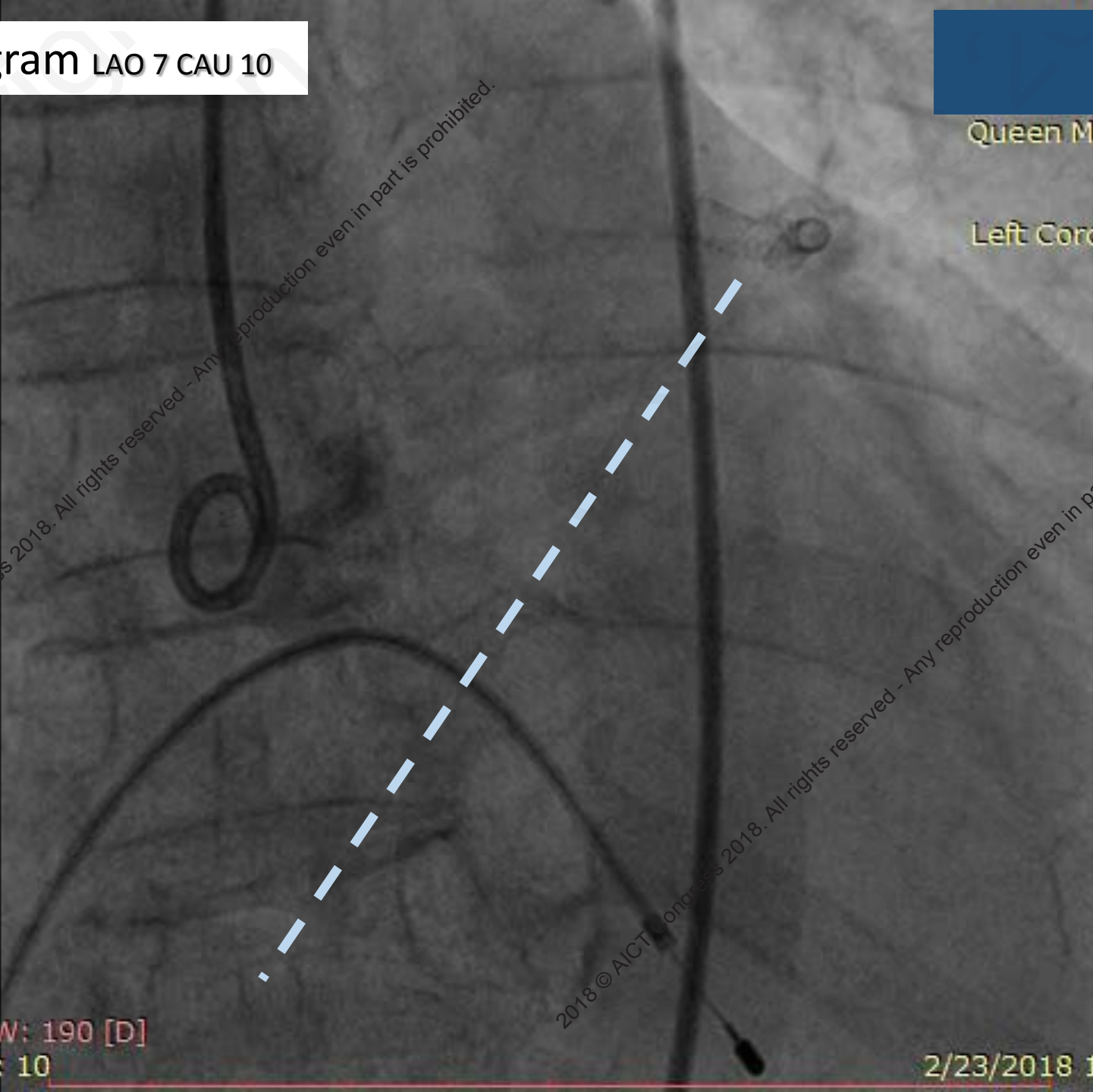
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Left Coronary 15 fps

WL: 129 WW: 190 [D]
LAO: 7 CAU: 10

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Im: 1/300
Se: 22



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Fluoroscopy

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WL: 115 WW: 213 [D]
LAO: 7 CAU: 10

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Im: 1/29
Se: 23



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XA
Fluoroscopy

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WL: 115 WW: 213 [D]
LAO: 7 CAU: 10

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Im: 1/82
Se: 25



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Fluoroscopy

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WL: 115 WW: 213 [D]
LAO: 7 CAU: 10

2/23/2018 11:20:36 AM

Im: 1/300
Se: 26

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WL: 115 WW: 213 [D]
LAO: 7 CAU: 10

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Im: 1/32
Se: 27



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XA
Fluoroscopy



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WL: 115 WW: 213 [D]
LAO: 7 CAU: 10

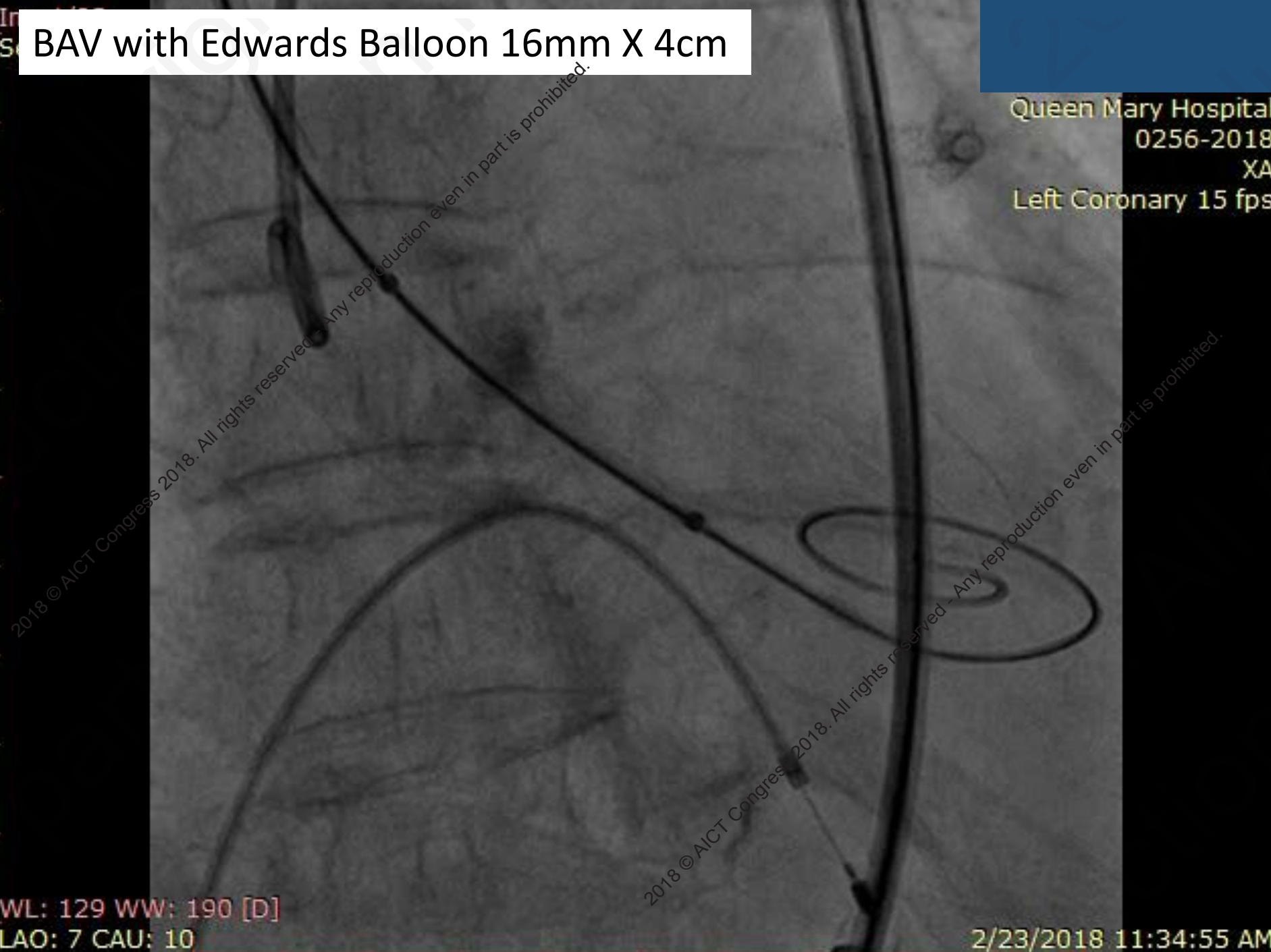
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BAV with Edwards Balloon 16mm X 4cm

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XA
Left Coronary 15 fps

WL: 129 WW: 190 [D]
LAO: 7 CAU: 10

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Deployment of Edwards SAPIEN 3 #23mm (plus 1ml extra

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WL: 129 WW: 190 [D]
LAO: 7 CAU: 10

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Im: 1/260
Se: 35



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Left Coronary 15 fps

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WL: 129 WW: 190 [D]
LAO: 7 CAU: 10

2/23/2018 11:40:32 AM

Im: 1/76
Se: 36



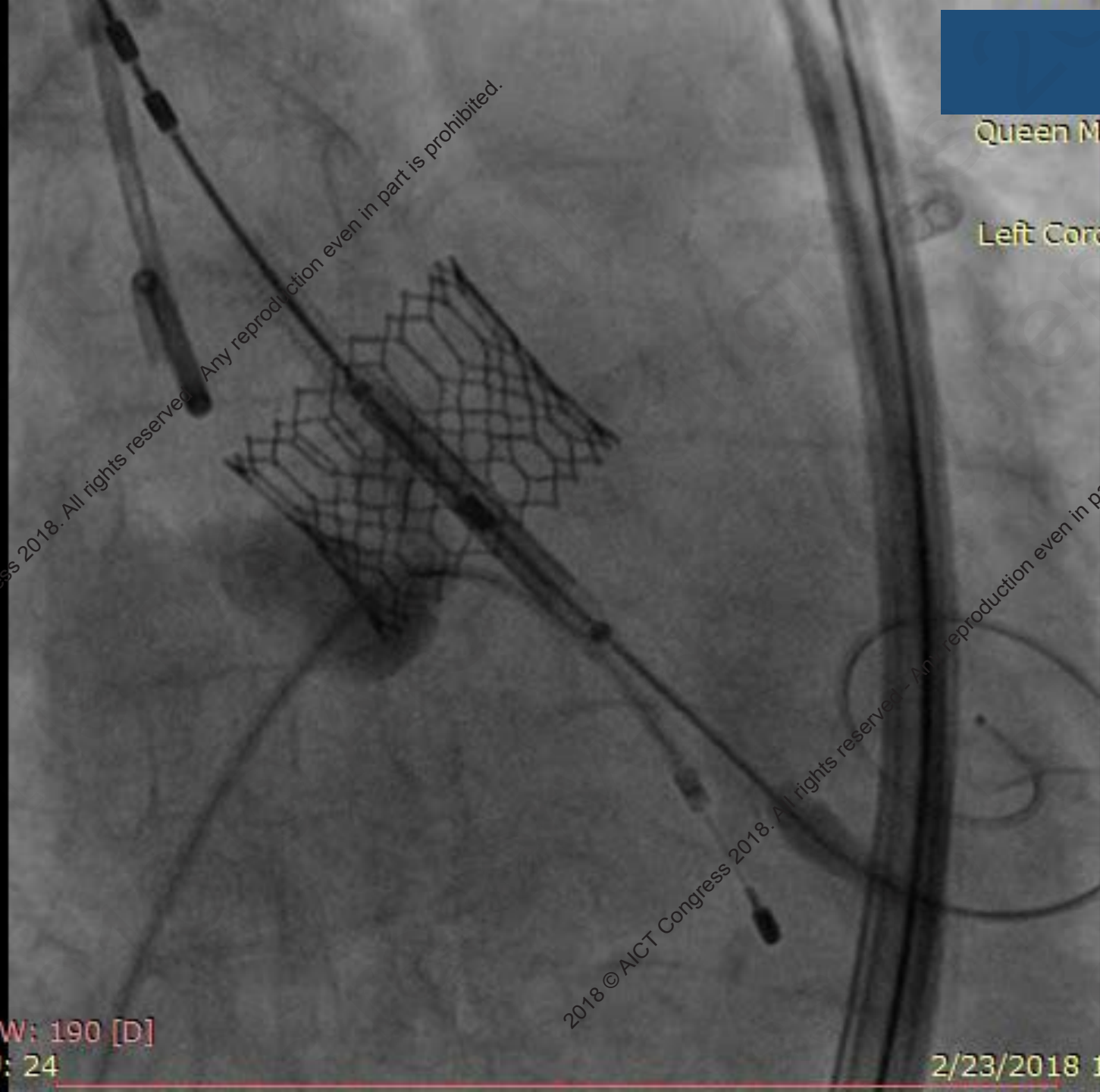
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Left Coronary 15 fps

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WL: 129 WW: 190 [D]
LAO: 7 CAU: 24

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Im: 1/300
Se: 37



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WL: 115 WW: 213 [D]
LAO: 7

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Im: 1/300
Se: 38



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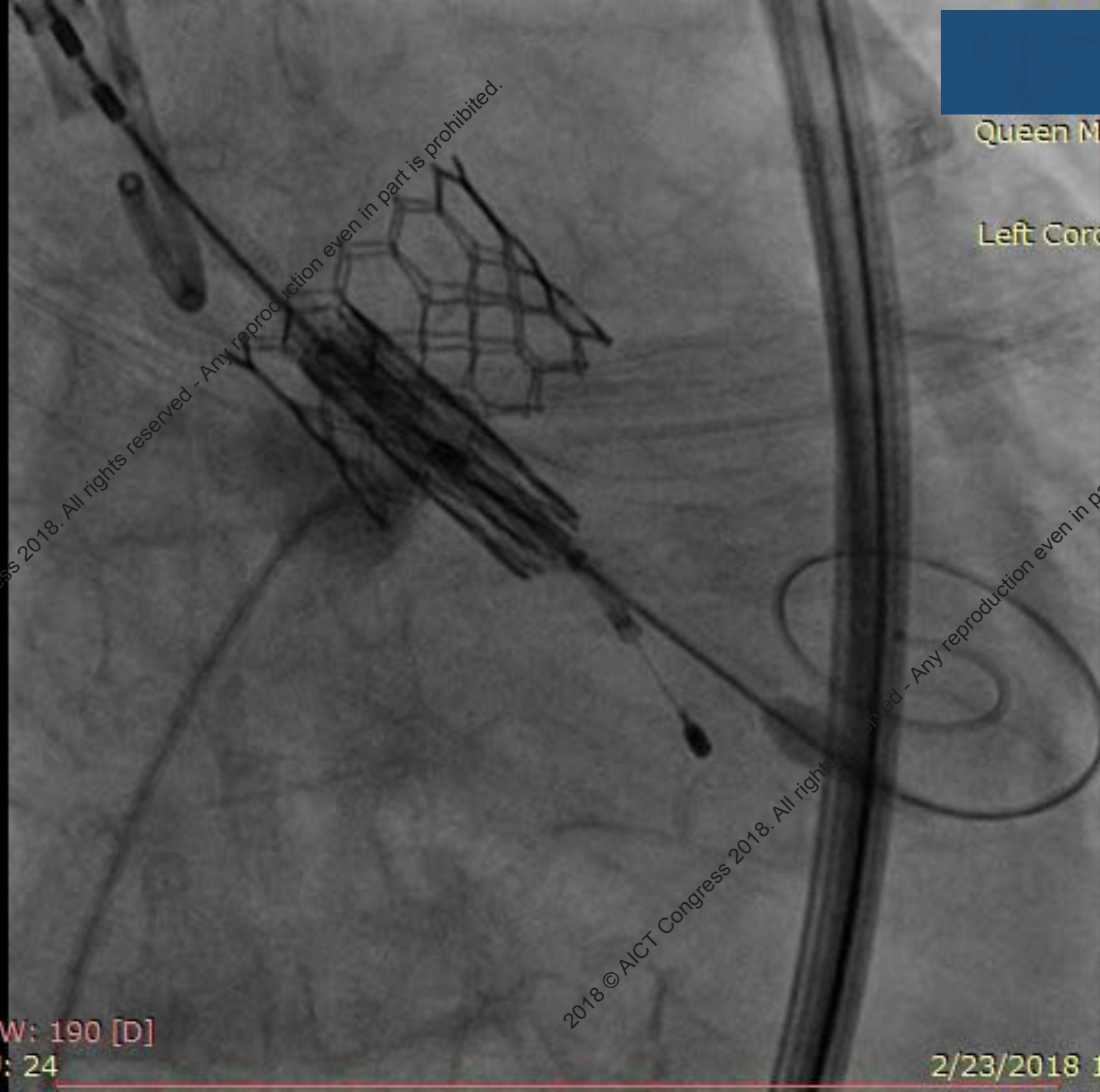
WL: 115 WW: 213 [D]
LAO: 35 CAU: 2

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Im: 1/55
Se: 41



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Left Coronary 15 fps



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WL: 129 WW: 190 [D]
LAO: 7 CAU: 24

2/23/2018 11:58:45 AM

Im: 1/280
Se: 42

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0256-2018
XA
Left Coronary 15 fps

Second Edwards SAPIEN 3 #23 V-in-V LAO 7 CAU 10 → CAU 24

WL: 129 WW: 190 [D]
LAO: 7 CAU: 24

2/23/2018 11:59:11 AM

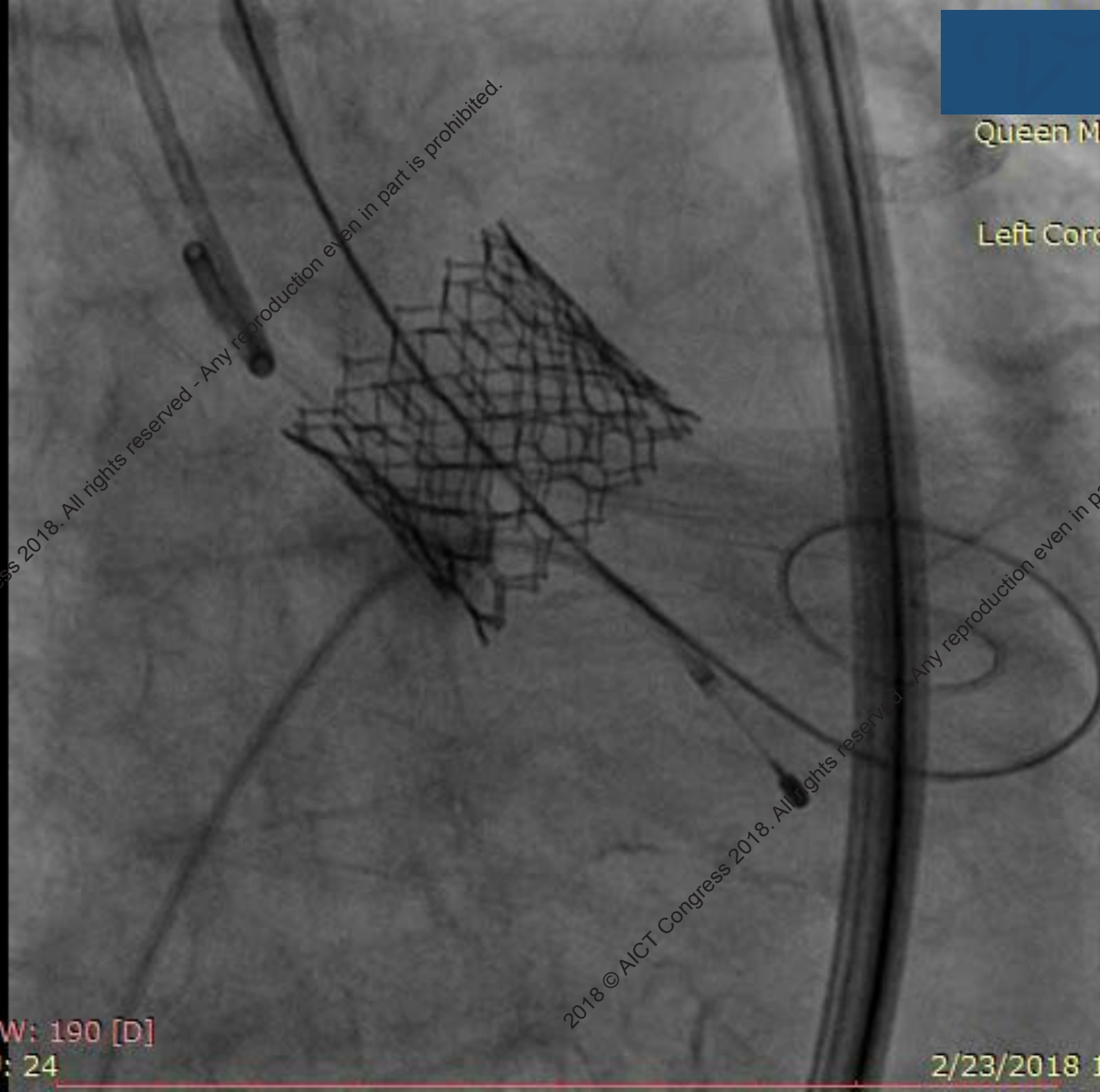
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Im: 1/52
Se: 43



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XA
Left Coronary 15 fps



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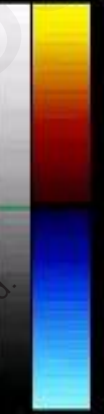
WL: 129 WW: 190 [D]
LAO: 7 CAU: 24

2/23/2018 12:00:59 PM

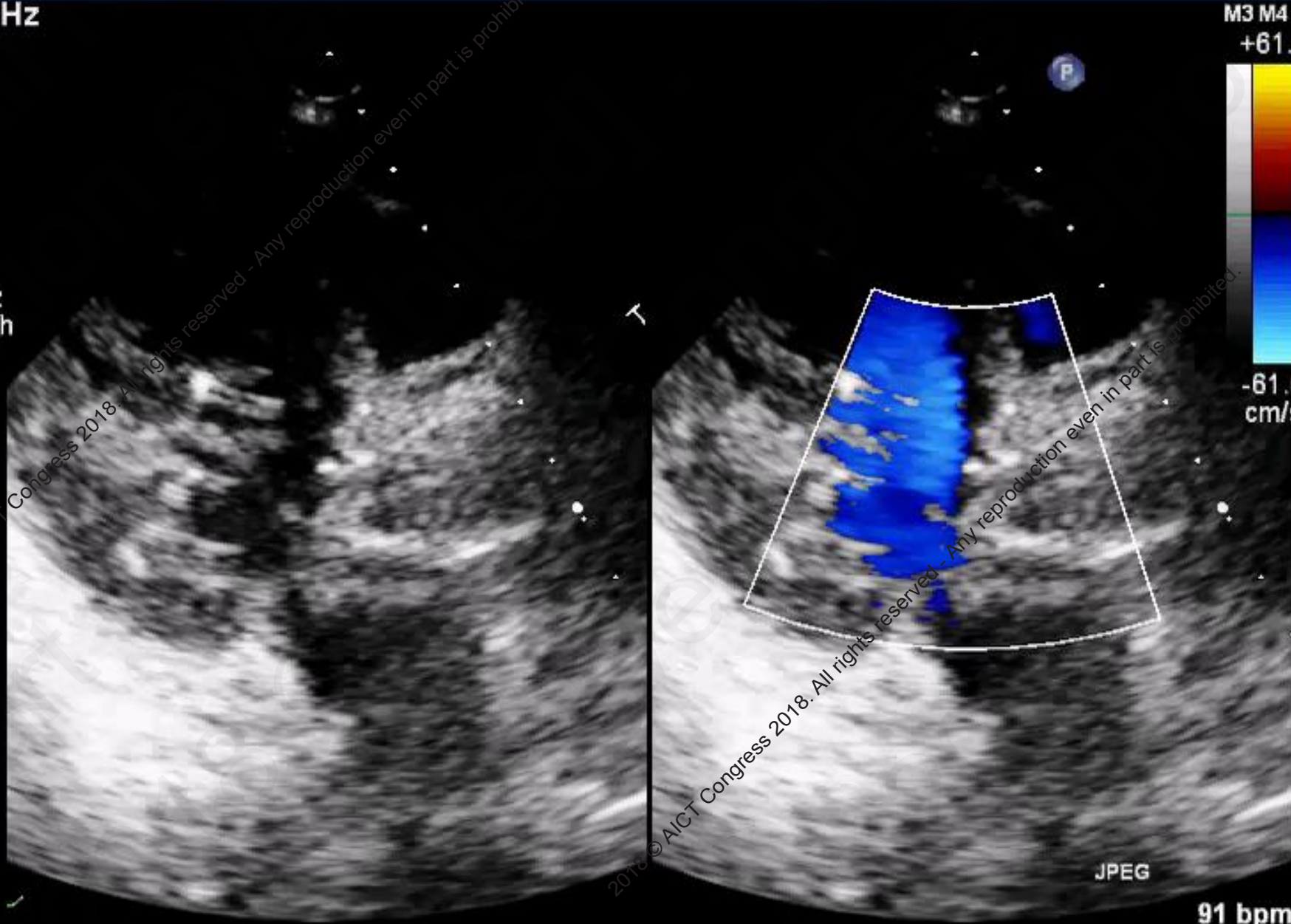
FR 14Hz
13cm

2D
68%
C 50
P Low
HGen
CF
63%
2.5MHz
WF High
Med

M3 M4
+61.6



-61.6
cm/s



JPEG

91 bpm

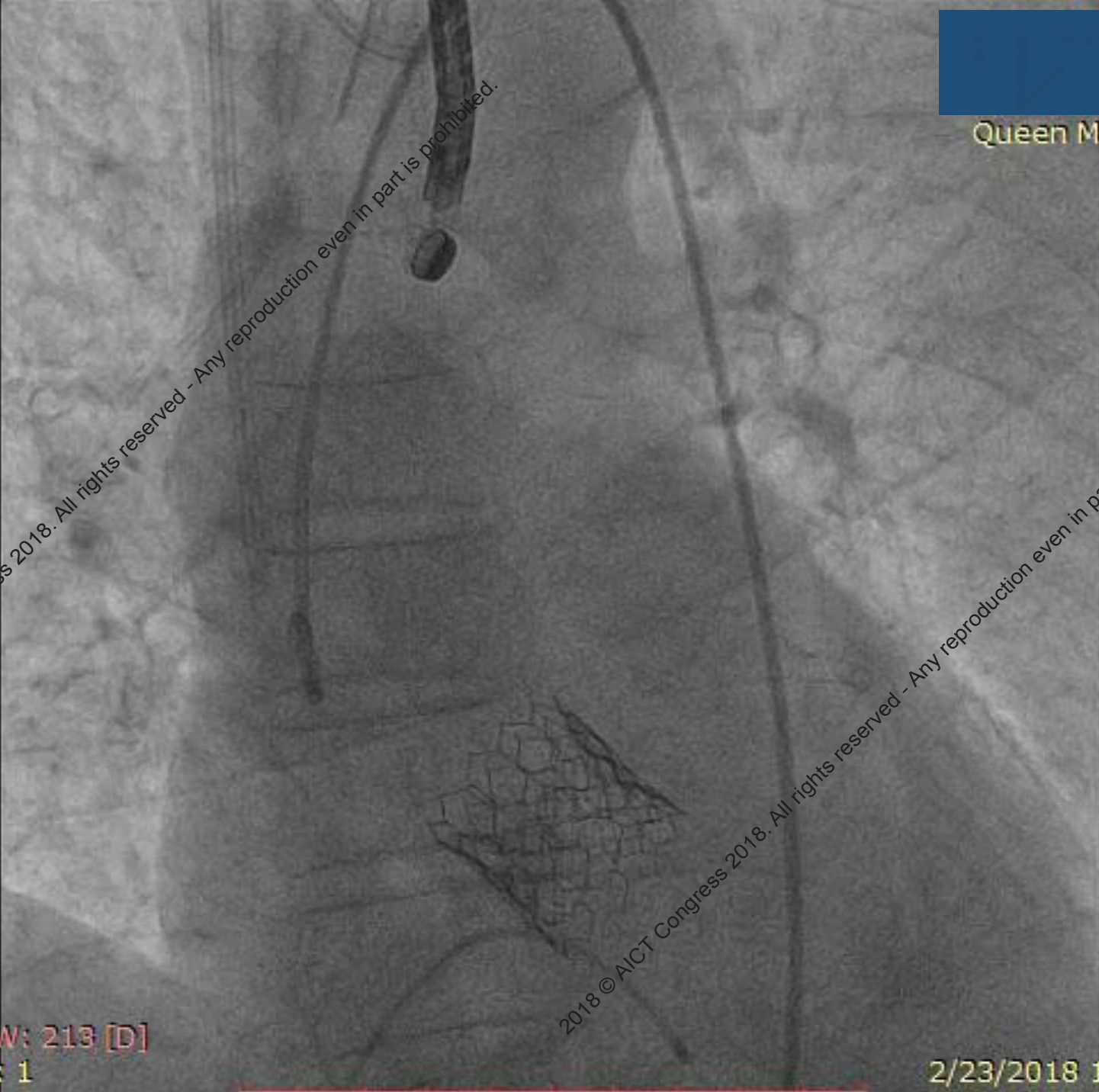
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Im: 1/50
Se: 45



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WL: 115 WW: 213 [D]
LAO: 7 CAU: 1

2/23/2018 12:04:47 PM

Im: 1/217
Se: 46



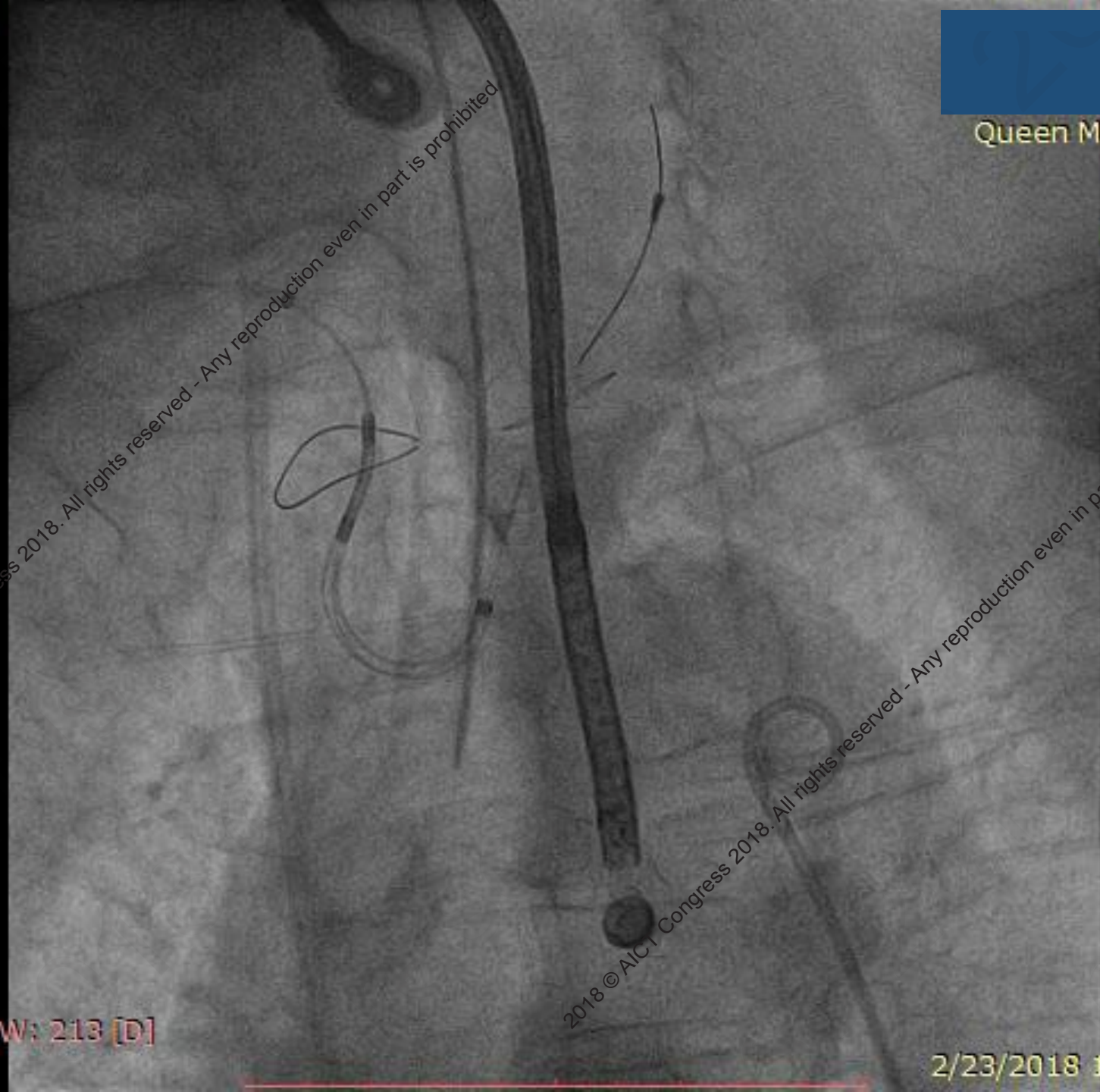
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WL: 115 WW: 213 [D]
LAO: 35

2/23/2018 12:05:29 PM



Clinical Progress

- Post operative management in CCU
- Intentionally keep the central line (off after 10 days) and peripheral lines, A-lines for close monitoring
- Dopamine weaned off after 3 weeks
- Reassessment TTE
 - LVEF improved from 30 to 50%, SAPIEN 3 in excellent position, nil AR

- Planned for extended period of rehabilitation
- Fever 2 months after TAVI
 - Blood C/ST
 - Corynebacterium striatum
 - Microbiology – lines/poor skin condition/to r/o SBE
 - Started on Meropenem/Vancomycin

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FR 58Hz

12cm

TTE 20_4_2018

2D

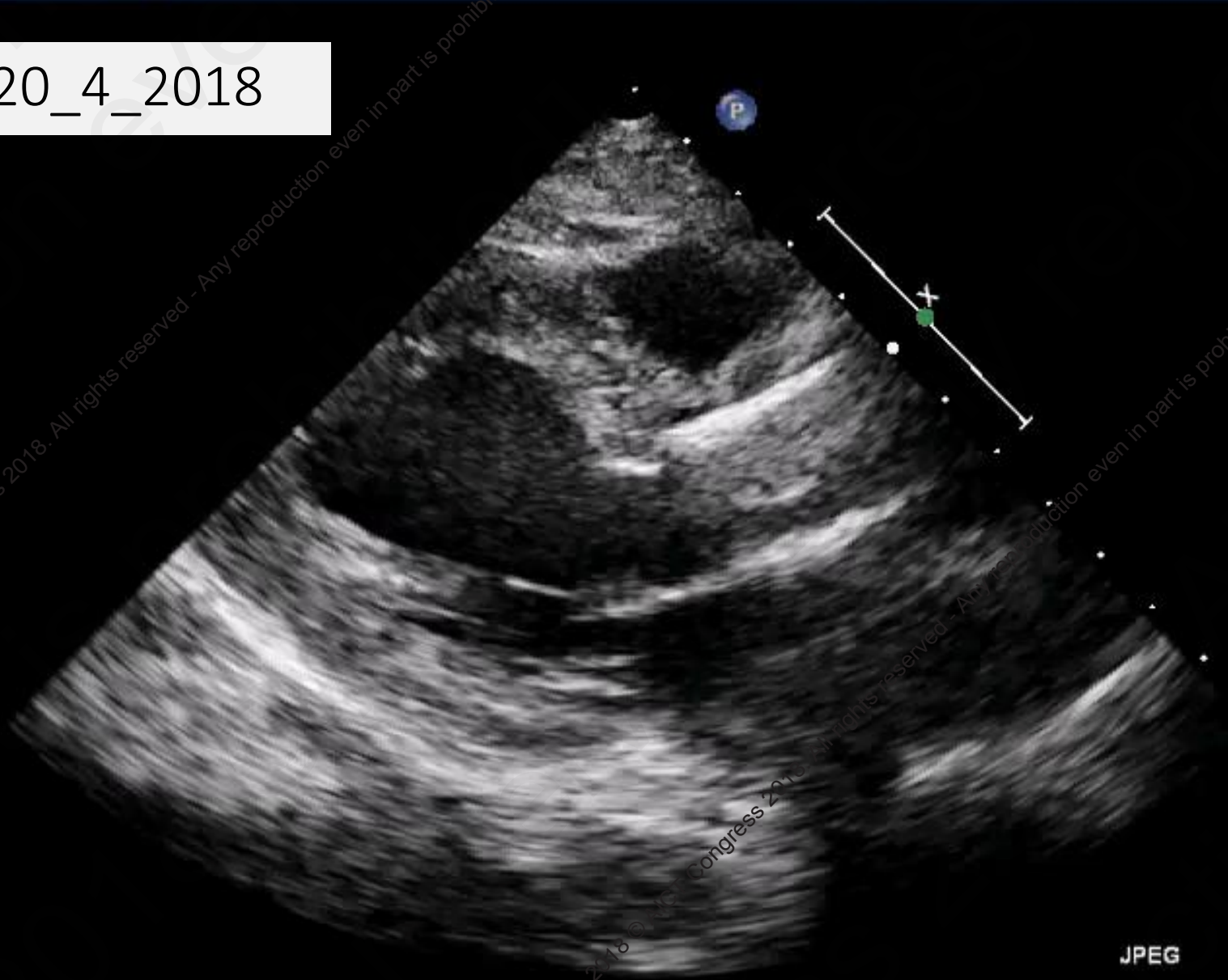
53%

C 50

P Low

HGen

M3



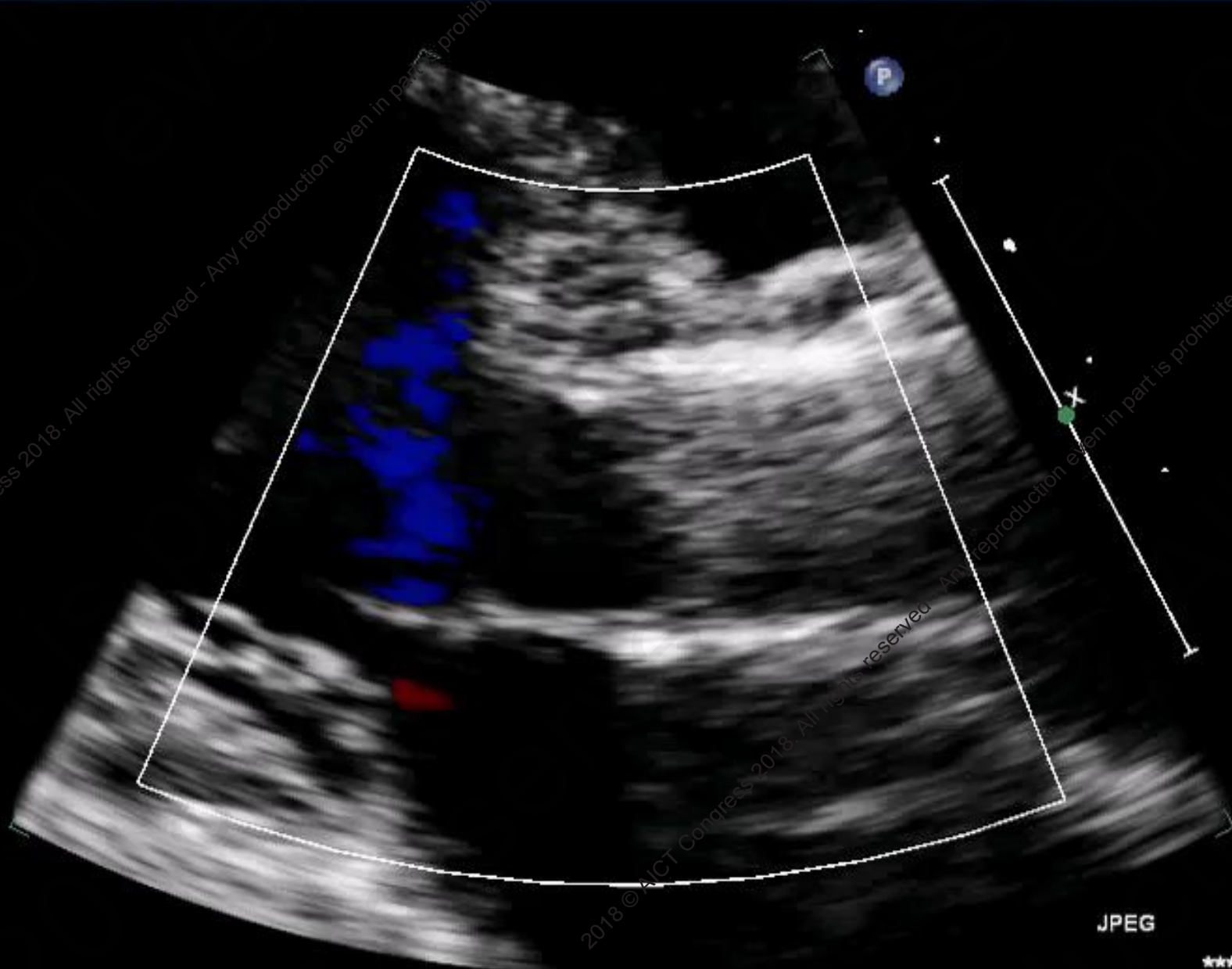
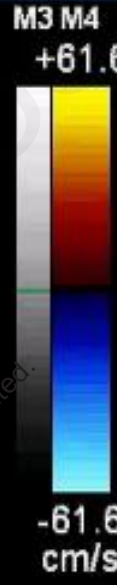
JPEG

*** bpm

FR 14Hz
9.5cm

2D
50%
C 50
P Low
HGen

CF
66%
2.5MHz
WF High
Med



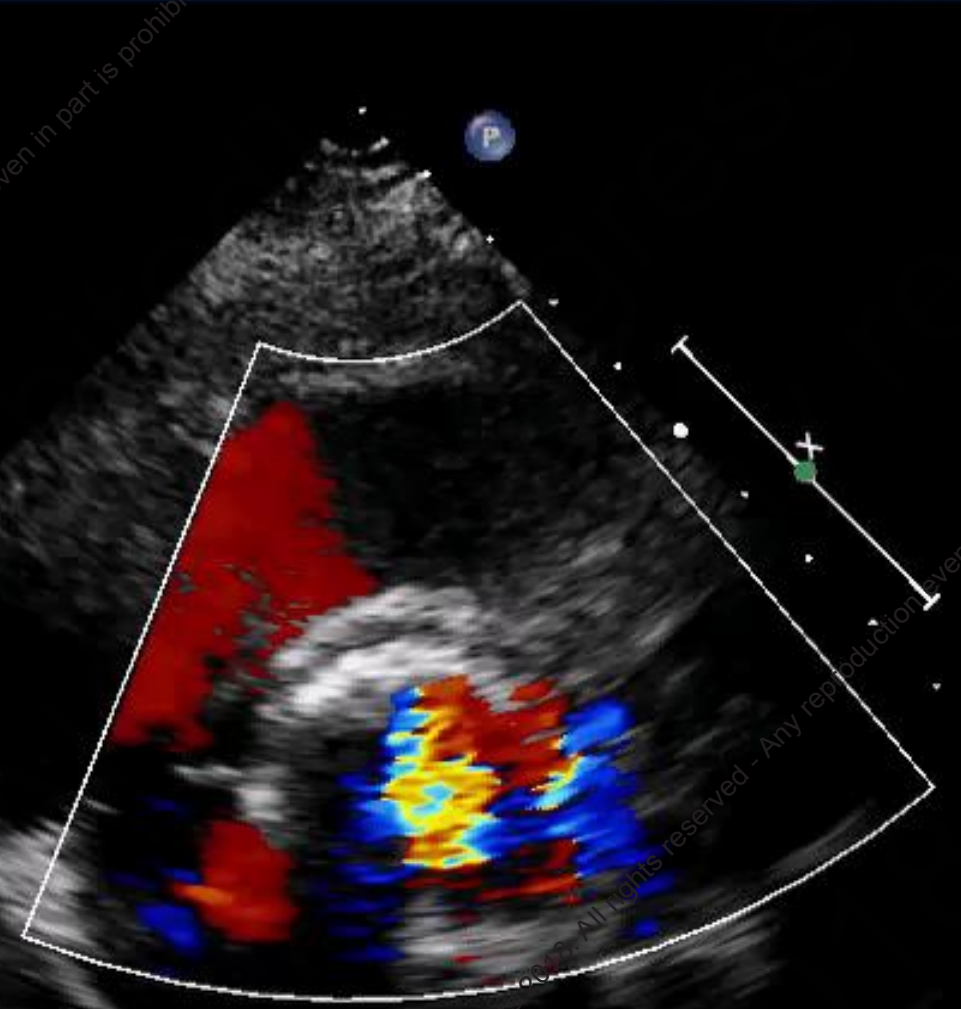
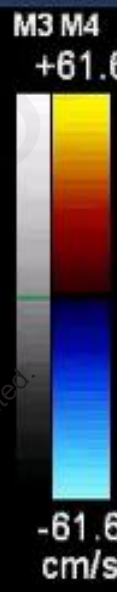
JPEG

*** bpm

FR 11Hz
12cm

2D
52%
C 50
P Low
HGen

CF
66%
2.5MHz
WF High
Med



FR 92Hz
11cm

2D
53%
C 50
P Low
HGen

M3



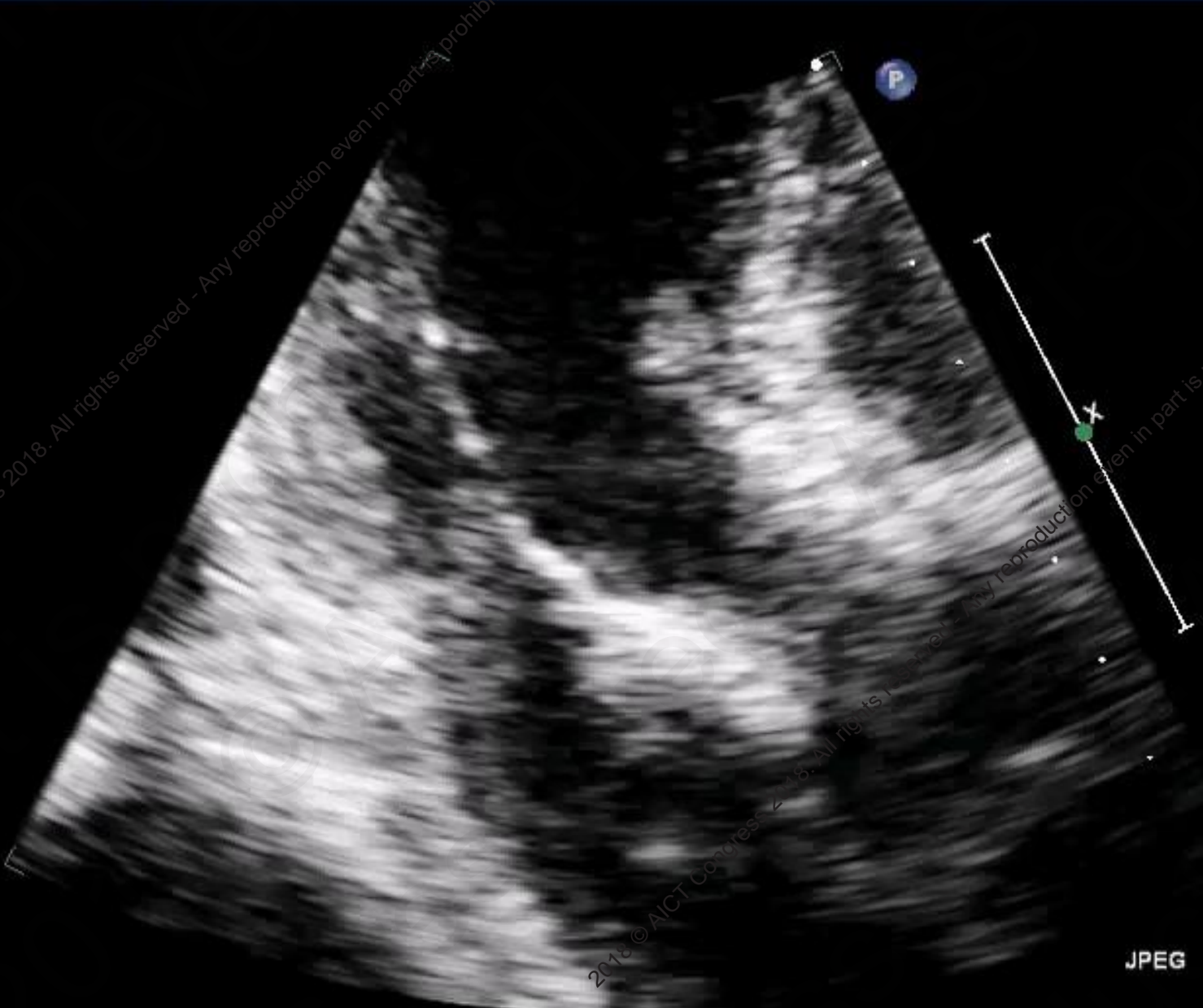
JPEG

*** bpm

FR 90Hz
12cm

2D
53%
C 50
P Low
HGen

M3



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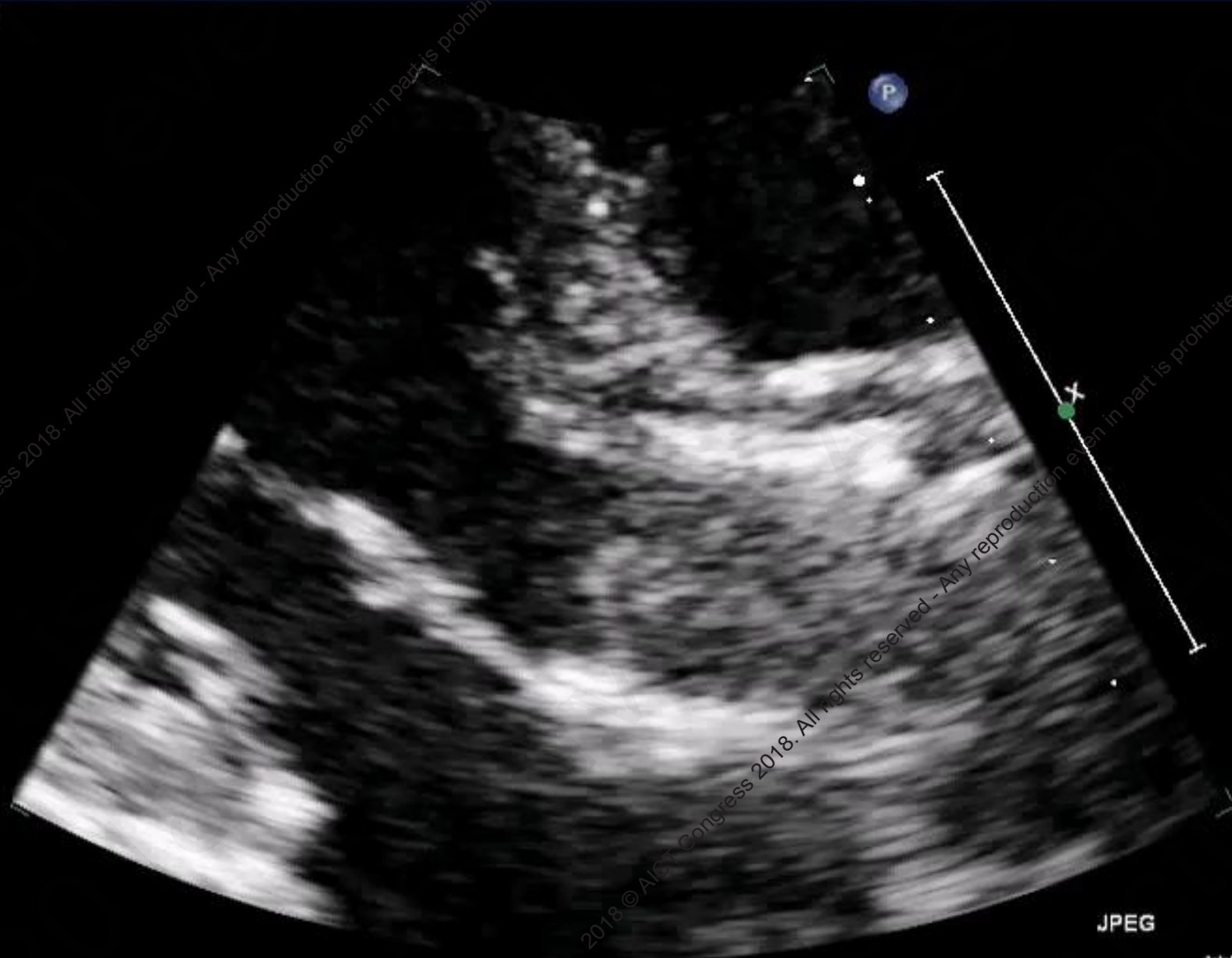
JPEG

*** bpm

FR 100Hz
9.1cm

2D
53%
C 50
P Low
HGen

M3

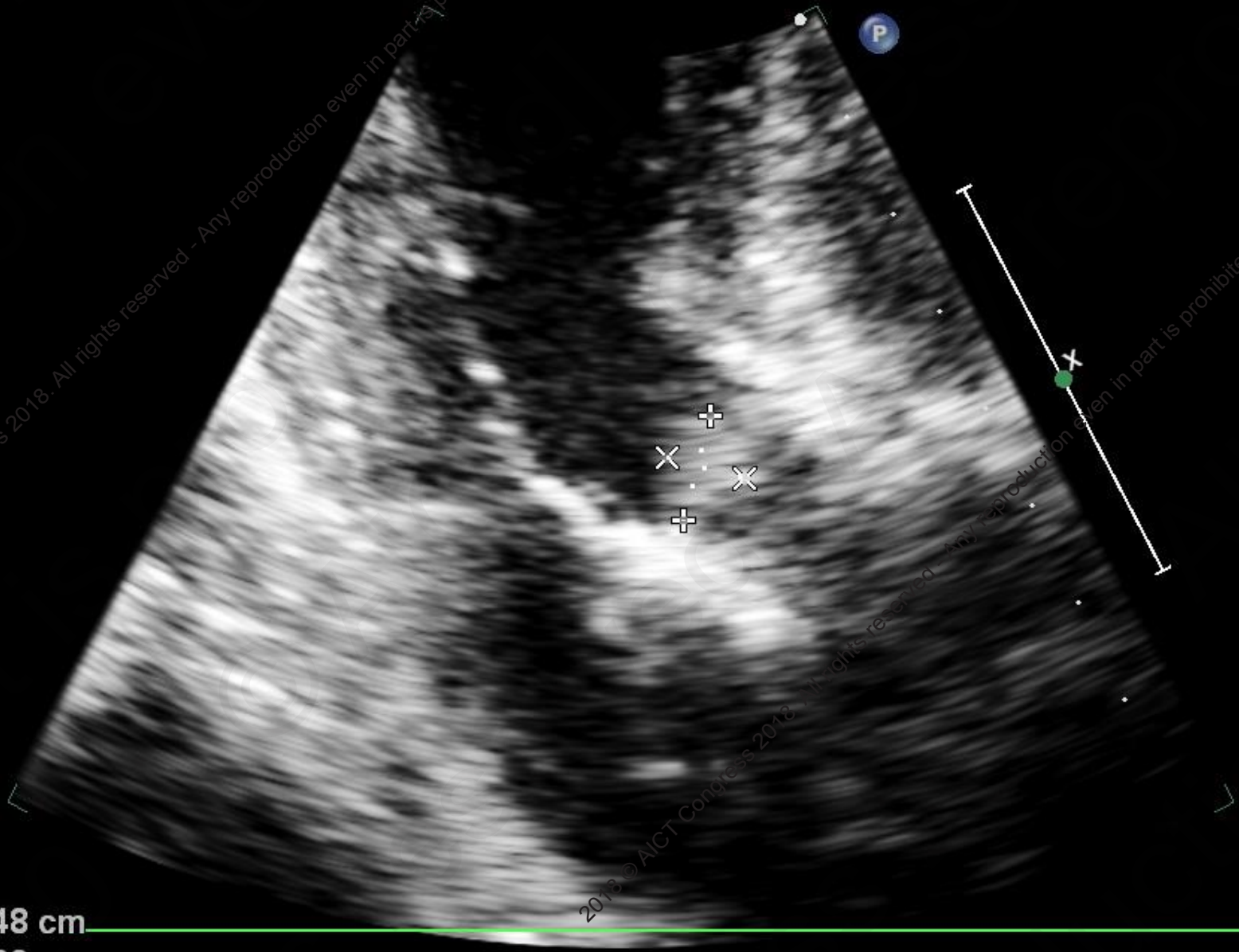


JPEG

*** bpm

FR 90Hz
12cm

2D
53%
C 50
P Low
HGen



× Dist 0.748 cm

+ Dist 1.00 cm

***bpm

FR 100Hz
9.1cm

2D
53%
C 50
P Low
HGen



x Dist 0.744 cm
+ Dist 0.913 cm

***bpm

SBE in TAVI valve

- 0.3 to 1.2% per year
- Most common organism
 - coagulase-negative staphylococci (24.5%),
 - staphylococcus aureus (21%)
 - enterococci (21%)

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Potential predisposing factors for TAVI IE

1. The non-sterile environment in the majority of cardiac catheterization laboratories.
2. The high-risk profile of TAVI patients such as diabetes, immunosuppression (i.e., steroids, myelodysplastic syndromes), and renal failure.
3. Technical issues, as the frequent requirement to remove and re-implant a malpositioned THV (as leaflet and endothelial injury caused by manipulation) could increase the risk of PVE.
4. Patient education, especially regarding the importance of post-implantation antibiotic prophylaxis.
5. Adequate endothelialization of the bioprosthetic valve may require a dual antiplatelet therapy (aspirin and clopidogrel).
6. Coincident infections.
7. Low position of aortic THV being in direct contact with the mitral apparatus.
8. Leaflet compression during transcatheter valve preparation and loading resulting in a degree of leaflet damage.
9. Higher pre-procedural transaortic gradients in the PVE cases.
10. Paravalvular leakage as it may be a possible 'local' risk factor for endocarditis.
11. Male sex (2/3 of endocarditis patients) partially explained by the estrogen endothelial protection.
12. Residual aortic regurgitation may induce endothelial damage ("jet lesions") serving as a nidus during episodes of transient bacteremia.
13. Bioprosthesis and the native aortic valve cusp space might be a suitable nidus for pathogen accumulation during transient bacteremia.
14. Orotracheal intubation and the use of a self-expandable valve system were associated with IE post-TAVI
15. TAVI in native valve
16. Vascular complication

- Potential factors in the case

- Prolonged hospitalization, lines, immobility, bedsores, stably-ill clinical state, delayed endothelialization

Im: 1/94
Se: 0001
FPS: 54.1/54.1

V

Queen Mary Hospital



WL: 128 WW: 256 [D]

TTE 16_6_2018 (Completion on A/B)

66
HR

16/6/2018 12:18:13

Im: 1/229
Se: 0001
FPS: 74.2

Queen Mary Hospital



WL: 128 WW: 256 [D]

63
HR

16/6/2018 12:18:13

Progress

- Completed 8 weeks antibiotics
- Blood culture showed clearance of bacteraemia
- Repeated TEE in 6/2018 showed no vegetations with good prosthesis function, LVEF 50%
- **Completed course of rehabilitation**
- Gradual clinical improvement and clinically stable upon last FU
- Now in Nursing Home, outpatient rehabilitation

2017

admission

11							12						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
			1 十三	2 十四	3 十五	4 十六						1 十四	2 十五
5 十七	6 十八	7 立冬	8 二十	9 廿一	10 廿二	11 廿三	3 十六	4 十七	5 十八	6 十九	7 大雪	8 廿一	9 廿二
12 廿四	13 廿五	14 廿六	15 廿七	16 廿八	17 廿九	18 十月	10 廿三	11 廿四	12 廿五	13 廿六	14 廿七	15 廿八	16 廿九
19 初二	20 初三	21 初四	22 小雪	23 初六	24 初七	25 初八	17 三十	18 十一月	19 初二	20 初三	21 初四	22 冬至	23 初六
26 初九	27 初十	28 十一	29 十二	30 十三			24 初七	25 初八	26 初九	27 初十	28 十一	29 十二	30 十三

2018

PCI to LAD

一月 JANUARY

二月 FEBRUARY

三月 MARCH

四月 APRIL

星期一 MON	星期二 TUE	星期三 WED	星期四 THU	星期五 FRI	星期六 SAT	星期日 SUN	星期一 MON	星期二 TUE	星期三 WED	星期四 THU	星期五 FRI	星期六 SAT	星期日 SUN	星期一 MON	星期二 TUE	星期三 WED	星期四 THU	星期五 FRI	星期六 SAT	星期日 SUN	星期一 MON	星期二 TUE	星期三 WED	星期四 THU	星期五 FRI	星期六 SAT	星期日 SUN	
1 廿	2 廿一	3 廿二	4 廿三	5 廿四	6 廿五	7 廿六	1 廿	2 廿一	3 廿二	4 廿三	5 廿四	6 廿五	7 廿六	1 廿	2 廿一	3 廿二	4 廿三	5 廿四	6 廿五	7 廿六	8 廿七	1 廿	2 廿一	3 廿二	4 廿三	5 廿四	6 廿五	7 廿六
8 廿七	9 廿八	10 廿九	11 三十	12 初一	13 初二	14 初三	5 廿	6 廿一	7 廿二	8 廿三	9 廿四	10 廿五	11 廿六	5 廿	6 廿一	7 廿二	8 廿三	9 廿四	10 廿五	11 廿六	2 廿	3 廿一	4 廿二	5 廿三	6 廿四	7 廿五	8 廿六	
15 初九	16 初十	17 十一	18 十二	19 十三	20 十四	21 十五	12 廿	13 廿一	14 廿二	15 廿三	16 廿四	17 廿五	18 廿六	12 廿	13 廿一	14 廿二	15 廿三	16 廿四	17 廿五	18 廿六	10 廿	11 廿一	12 廿二	13 廿三	14 廿四	15 廿五	16 廿六	
22 初六	23 初七	24 初八	25 初九	26 初十	27 十一	28 十二	19 初	20 初	21 初	22 初	23 初	24 初	25 初	19 初	20 初	21 初	22 初	23 初	24 初	25 初	16 初	17 初	18 初	19 初	20 初	21 初	22 初	
29 初三	30 初四	31 初五					26 初	27 初	28 初	29 初	30 初	31 初		26 初	27 初	28 初	29 初	30 初	31 初		23 初八	24 初九	25 初十	26 十一	27 十二	28 十三	29 十四	

TF TAVI

五月 MAY

六月 JUNE

七月 JULY

八月 AUGUST

星期一 MON	星期二 TUE	星期三 WED	星期四 THU	星期五 FRI	星期六 SAT	星期日 SUN	星期一 MON	星期二 TUE	星期三 WED	星期四 THU	星期五 FRI	星期六 SAT	星期日 SUN	星期一 MON	星期二 TUE	星期三 WED	星期四 THU	星期五 FRI	星期六 SAT	星期日 SUN	星期一 MON	星期二 TUE	星期三 WED	星期四 THU	星期五 FRI	星期六 SAT	星期日 SUN	
1 初	2 初	3 初	4 初	5 初	6 初	7 初	1 初	2 初	3 初	4 初	5 初	6 初	7 初	1 初	2 初	3 初	4 初	5 初	6 初	7 初	8 初	1 初	2 初	3 初	4 初	5 初	6 初	7 初
8 初	9 初	10 初	11 初	12 初	13 初	14 初	4 初	5 初	6 初	7 初	8 初	9 初	10 初	2 初	3 初	4 初	5 初	6 初	7 初	8 初	6 初	7 初	8 初	9 初	10 初	11 初	12 初	
14 初	15 初	16 初	17 初	18 初	19 初	20 初	11 初	12 初	13 初	14 初	15 初	16 初	17 初	9 初	10 初	11 初	12 初	13 初	14 初	15 初	13 初	14 初	15 初	16 初	17 初	18 初	19 初	
21 初	22 初	23 初	24 初	25 初	26 初	27 初	18 初	19 初	20 初	21 初	22 初	23 初	24 初	16 初	17 初	18 初	19 初	20 初	21 初	22 初	20 初	21 初	22 初	23 初	24 初	25 初	26 初	
28 初	29 初	30 初	31 初				25 初	26 初	27 初	28 初	29 初	30 初		23 初	24 初	25 初	26 初	27 初	28 初	29 初	27 初	28 初	29 初	30 初	31 初			

Discharge

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Conclusion

- Things have to manage timely
- Would it make a difference if we manage the situation with a difference timing?
- **What if**
 - PCI + BAV then TAVI early or PPCI with PTAVI
 - Would it affect the outcome
 - Would it do worse
- Timing is important but
 - No one knows what is best timing
 - Many uncontrollable factors affecting clinical decision
 - Patient and scenario-specific

报名表格

2018年9月9日前, 可以免费注册

传真: 2818 6304 电子邮件: hkvalve@hku.hk 邮件: 香港玛丽医院 座1930室

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- | | | |
|------------------------------------|------------------------------------|-----------------------------|
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| <input type="checkbox"/> 心胸外科医生 | <input type="checkbox"/> 外科医生 | |
| <input type="checkbox"/> 心脏内科医生 | <input type="checkbox"/> 内科医生 | <input type="checkbox"/> 其他 |
| <input type="checkbox"/> 护士及专职医疗人员 | <input type="checkbox"/> 学生(医科/护理) | |
- 称谓:
- | | |
|-----------------------------|-----------------------------|
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| <input type="checkbox"/> 先生 | <input type="checkbox"/> 女士 |

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 - Cardiac surgical basics for interventional cardiologists
 - Cardiothoracic anaesthesiology and TEE essentials for Hybrid Heart Valve Interventions
 - Transcatheter heart valve crimping and loading for nurses

Target Audience

- Cardiologists and Physicians
- Cardiothoracic Surgeons
- Cardiothoracic & General Anaesthetists
- Nurses & Allied Health





Thank you

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THE OFFICIAL CONGRESS OF APSIC

7 - 9th September 2018

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