

No-Reflow Complicating Chronic Total Occlusion Coronary Revascularization

Case presentation :

No-reflow phenomenon can be a serious complication during PCI ; it is difficult to predict and prevent, this phenomenon in CTO recanalization sessions is rare, but it is important to diagnose and identify useful management strategies.

62 years old male patient complicating of effort angina despite full course of antianginal therapy . MPS revealed the viability of the anterior wall myocardium , the previous angiography revealed instant total occlusion of the proximal segment of the LAD , insignificant stenosis of both LCX and RCA . Antegrade approach of the LAD CTO segment and crossing with escalating wire technique , the tip injection revealed intraluminal cross but distal LAD vascular bed was very abrasive .After Exchange with extra support wire and predilatation , unexpected no-reflow with TIMI 0 flow was observed , intracoronary Nitroglycerin, Adenosine and Diltiazem were useless . More aggressive balloon dilatation was also useless ; so we decided to use guidewire through injection technique which we frequently use in the acute cases to diagnose what is the main cause . 5,5F guidewire introduced beyond the CTO segment and intraluminal flushing suggested that inflammation and endothelial trauma should be the main cause rather than mechanical causes . proximal stent deployment and optimization of it , just after 10 minute TIMI 3 flow maintained .

Functional de-recruitment which is phenomenon describes no-reflow in the case of CTO procedures must be in mind , although the most important cause such as embolization of thrombus or plaque debris must be excluded .

Im: 1/94

Se: 5

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Im: 1/55

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WL: 119

RAO: 1 CRA: 39

16.06.2023 13:17:40

WL: 119

RAO: 48 CRA: 32

16.06.2023 13:16:23

Im: 1/103
Se: 6

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WL: 119

RAO: 21 CRA: 34

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Im: 1/151
Se: 7

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WL: 119

RAO: 21 CRA: 34

16.06.2023 13:34:09

Im: 1/105
Se: 8

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WL: 118

RAO: 21 CRA: 34

16.06.2023 13:35:01

Im: 1/57
Se: 9

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WL: 119

RAO: 21 CRA: 34

16.06.2023 13:37:54

Im: 1/122
Se: 10

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WL: 119

RAO: 7 CRA: 37

16.06.2023 13:44:23

Im: 1/10
Sa: 11

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WL: 119

RAO: 15 CRA: 37

16.06.2023 13:49:52

Im: 1/78
Se: 12

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WL: 119

RAO: 15 CRA: 37

16.06.2023 13:51:24

Im: 1/46
Se: 14

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WL: 119

RAO: 15 CRA: 37

16.06.2023 13:55:38

Im: 1/95
Se: 15

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WL: 119
RAO: 15 CRA: 37

16.06.2023 13:55:51

Im: 1/7
Se: 18

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WL: 119
RAO: 15 CRA: 37

16.06.2023 14:08:35

Im: 1/104
Se: 19

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WL: 119

RAO: 15 CRA: 37

16.06.2023 14:09:37

Im: 1/21
Se: 21

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WL: 119

RAO: 57 CRA: 28

16.06.2023 14:14:14

Im: 1/60
Se: 22

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WL: 119
RAO: 57 CRA: 28

16.06.2023 14:17:07

Im: 1/60
Se: 24

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WL: 119
RAO: 23 CRA: 37

16.06.2023 14:22:16