AMI Secondary to Coronary Artery Dissection After Blunt Chest Trauma

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32/M

C/C Left thigh pain

Chest pain

  location: substernal

  onset: 10 minutes ago

  after blunt chest trauma after TA

P/H NS

R/F Smoking: 5 PYS, Current smoker

V/S BP 140/100 mmHg

  PR 95/ min

  BT 36.5 °C

  RR 20/ min
## Laboratory findings

<table>
<thead>
<tr>
<th>CBC</th>
<th>Coagulation profiles</th>
<th>Cardiac enzyme</th>
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</thead>
<tbody>
<tr>
<td>WBC</td>
<td>aPTT 51.2 sec</td>
<td>Tn-I 0.157 ng/ml</td>
</tr>
<tr>
<td>Hgb</td>
<td>PT 13.1/101/0.99(sec/%/INR)</td>
<td>CK 177 U/L</td>
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<tr>
<td>PLT</td>
<td></td>
<td>CK-MB 68 U/L</td>
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<tr>
<td></td>
<td></td>
<td>LDH 1027 IU/L</td>
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<tr>
<td>LFT</td>
<td></td>
<td>Myoglobin 348 ng/mL</td>
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<tr>
<td>AST</td>
<td></td>
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<tr>
<td>ALT</td>
<td></td>
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<tr>
<td>RFS and electrolyte</td>
<td></td>
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<tr>
<td>BUN</td>
<td></td>
<td></td>
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<tr>
<td>Cr</td>
<td></td>
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<tr>
<td>Na/K/Cl</td>
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</tbody>
</table>

- CBC:
  - WBC: 12600/mm³
  - Hgb: 15.6 g/dL
  - PLT: 362x10³/mm³

- LFT:
  - AST: 148 U/L
  - ALT: 136 U/L

- RFS and electrolyte:
  - BUN: 11.9 mg/dl
  - Cr: 1.0 mg/dL
  - Na/K/Cl: 145/4.4/98
Electrocardiogram at admission
Cardiac CT

Volume Rendering: Frontal slab
DFEV 5.0 mm
STD Ph: 75% (No Filter)

Curved
Left Anterior Descending Artery Angle: 0.6
DFEV 11.3 mm
STD Ph: 75% (No Filter)

R, L
0.2mm 0.24±1/0.28±0.4 HFP
R = 642 L = 227
Coronary Angiogram

LCA: LAO caudal

LCA: LAO cranial
Coronary Angiogram

RCA: LAO cranial

RCA: RAO caudal
Microcatheter and Conquest guidewire
2.0mm balloon
4.0*24 mm Arthos pico stent at 10 atm
4.0*18 mm Arthos pico stent at 16 atm
Final IVUS
7 Months FU Angiogram

LCA:  

LCA: