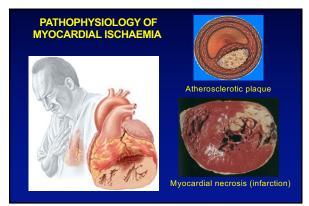
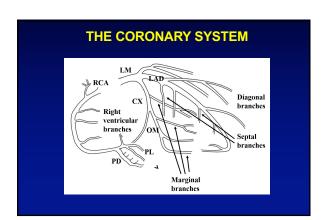


<u>1</u>



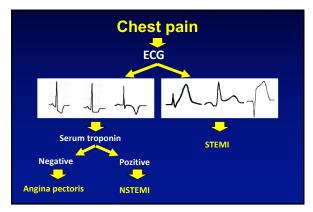
<u>2</u>



<u>3</u>

## ANGINA PECTORIS: Constricting, opressing chest pain Typical ischaemic ECG alterations but NO necroenzymes in plasma Explanation: atherosclerotic plaque + increased O<sub>2</sub> demand MYOCARDIAL INFARCTION: Typical (constricting/opressing) intensive chest pain Typical ECG alterations and elevated necroenzyme levels in plasma Explanation: rupture of atherosclerotic plaque and thrombocyte aggregation with coronary occlusion

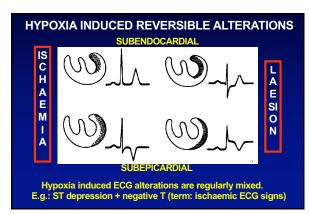
<u>4</u>



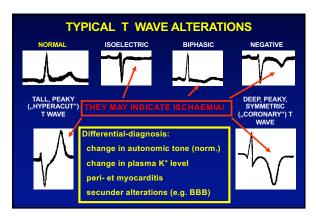
<u>5</u>

## ECG patterns of myocardial ischaemia Coronary stenosis/occlusion may induce myocardial damages with different degrees of severity: REVERSIBLE alterations (ECG signs of ventricular repolarization) 1. degree: ISCHAEMIA.—T wave abnormalities 2. degree: LAESION (injury)—ST segment deviation IRREVERSIBLE alterations (ECG signs of ventricular depolarization) 3. degree: NECROSIS.—pathologic Q wave ECG alterations may develop in a successive order with the progression of the disease, but may may also combine with each other.

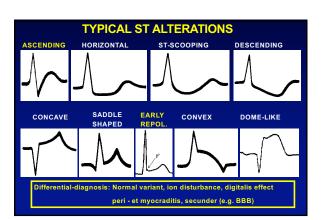
<u>6</u>



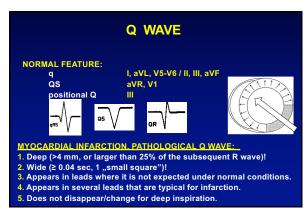
<u>7</u>



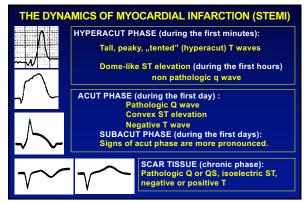
<u>8</u>



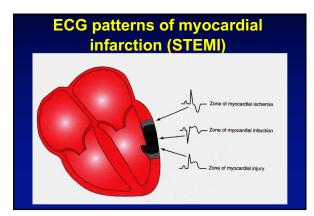
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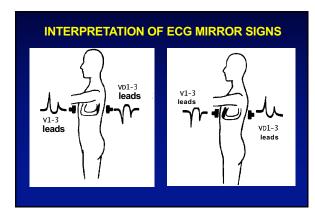
<u>10</u>



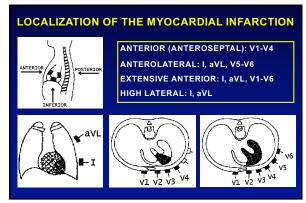
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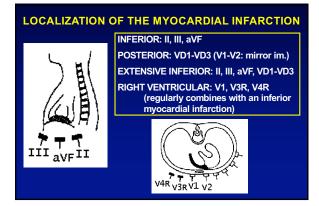
<u>12</u>



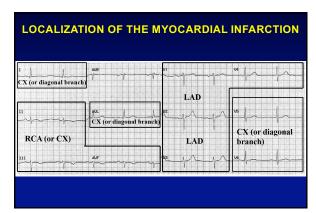
<u>13</u>



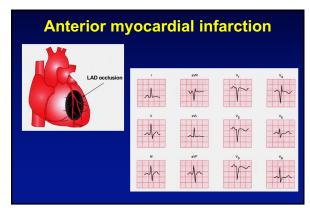
<u>14</u>



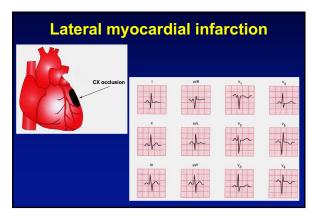
<u>15</u>



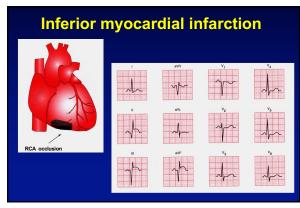
<u>16</u>



<u>17</u>



<u>18</u>



<u>19</u>

## A NON-Q MYOCARDIAL INFARCTION

- There are no pathological Q waves.
- 10% of all myocardial infarction cases are non-Q infarctions.
- Can be accompanied by ST elevations and ST depressions!
- Subendocardial (not transmural!) necrosis.
- Typical physical signs during the acut phase with necroensime level elevations and disturbances in the wall movement (echo!).
- It can be considered as an unfinished event!

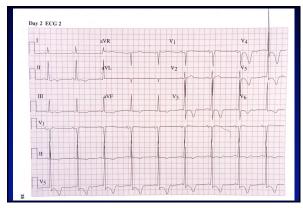


<u>20</u>

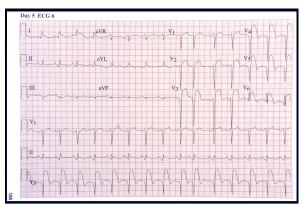
## ST ELEVATION CAN BE ALSO INDUCED BY:

- 1. PRINZMETAL ANGINA (transient ST elevation)
- 2. PERICARDITIS (in all leads except aVR, saddel shaped)
- 3. LEVT VENTRICULAR ANEURISM (6 months after AMI ST elevation)
- 4. BUNDE BRANCH BLOCK (secunder ST alteration)
- 5. WPW-SYNDROME (secunder ST alteration)
- 6. TACHYCARDIA (physical exercise: mostly ascending)
- 7. EARLY REPOLARISATION (r` duirng the beginning of ST non-pathologic)

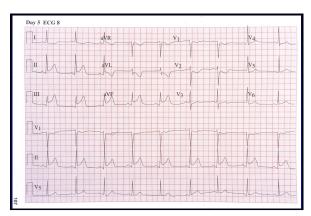
<u>21</u>



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<u>24</u>

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