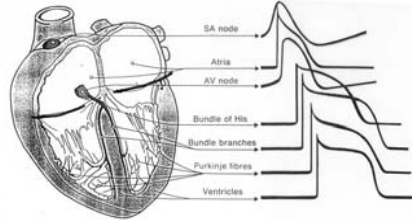


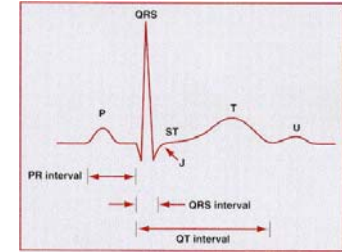
Prinsipper for EKG ved infarkt

Asbjørn Støylen, Dr. med.
NTNU

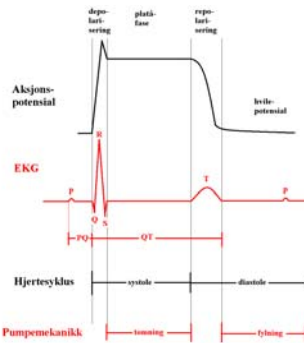
Men tidsforsinkelsen i aksjonspotensialene



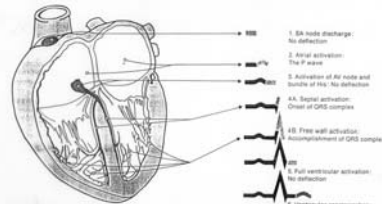
EKG



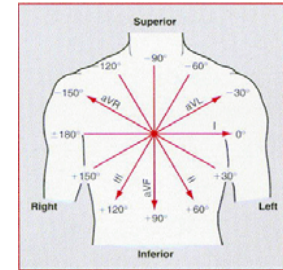
Aksjonspotensial



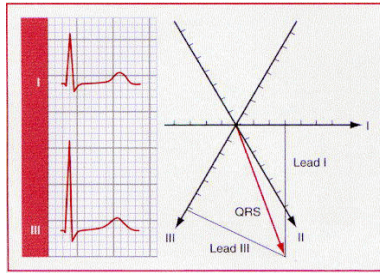
- gir sekvensen i QRS



Avledningsretning (akse):



Hva betyr det for EKG?

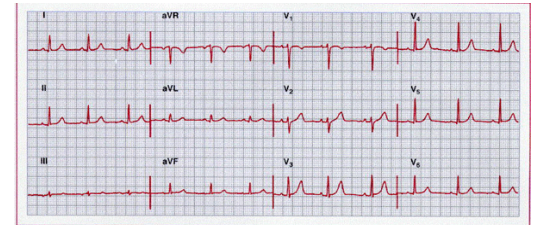


Precorialelektrodenene:

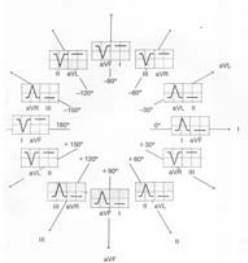


- **V1:** 4. hø. i.c.r.
- **V2:** 4. ve. i.c.r
- **V3:** midt mellom V2 og V4
- **V4:** 5. ve. i.c.r. i medio-claviculærlinjen
- **V5:** nivå som V4 i fremre axillærlinje
- **V6:** nivå som V4 i midtre axillærlinje

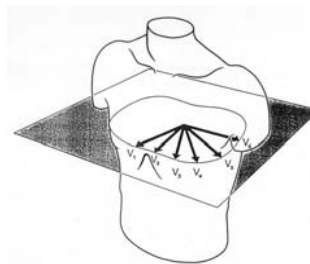
Normalt, 12-kanals EKG



QRS-aksen:



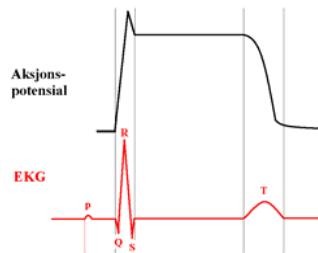
-som gir følgende aksesystem



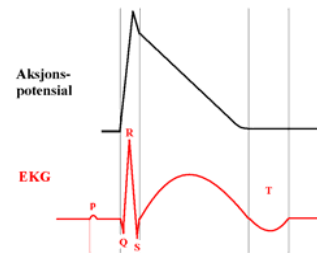
Lokalisasjon av avledninger:

- **Høvre avledninger**
– aVR, (II), V1, (V2), V3r – V6r
- **Venstre avledninger**
– I, aVL, V5, V6
- **Fremre vegg**
– I, aVL, V1 – V6
- **Septale / apikale avledninger**
– V3, V4
- **Nedre vegg**
– II, III, aVF

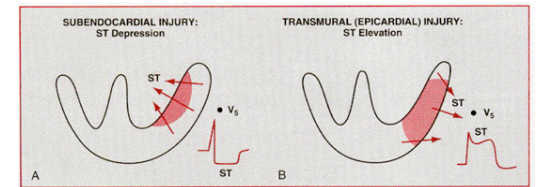
Normalt



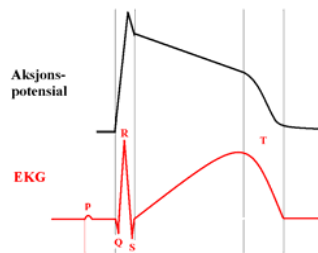
Infarkt – akutt fase



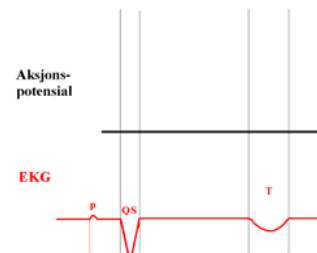
Infarkt



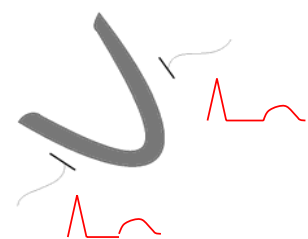
Infarkt – hyperakutt fase



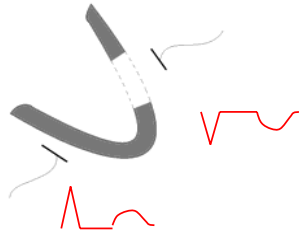
Gammelt infarkt



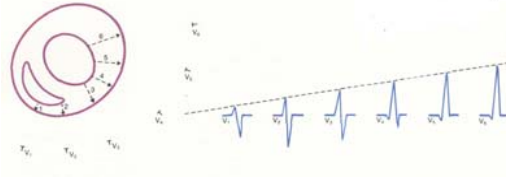
Elektrisk vindu:



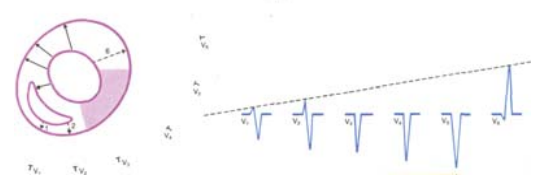
Elektrisk vindu:



R-progresjon:



Q-takker:

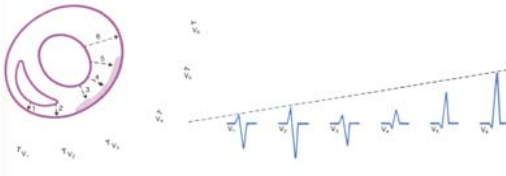


Infarktutvikling:

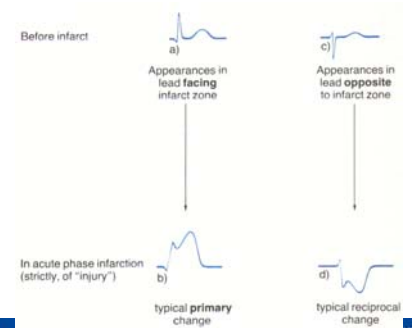


Normalt Hyperakutt Akutt Fullt utvikl. Gammelt
 15 min – 1 t. 1-6 t. > 6 timer etter 2-3 mdr.

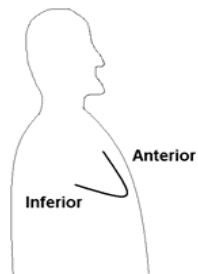
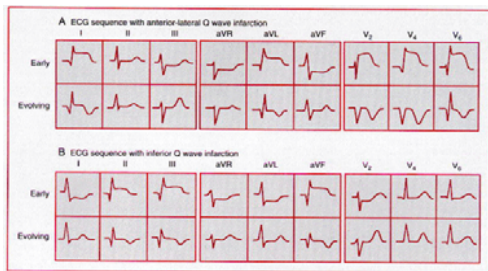
R-tap:



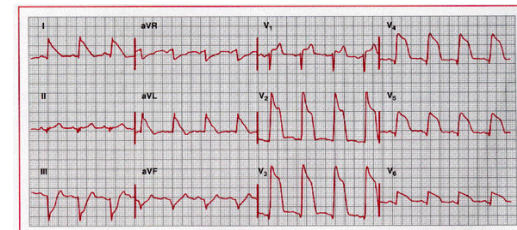
Resiproke forandringer:



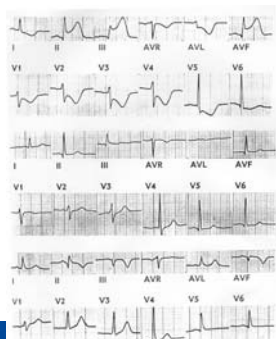
Infarkt:



Akutt FVI



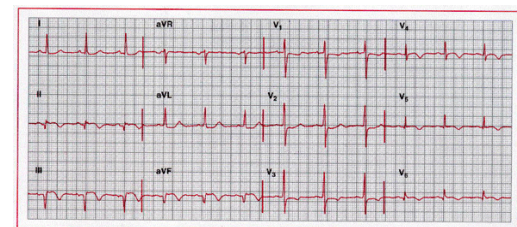
Nedreveggsinfarkt i utvikling:



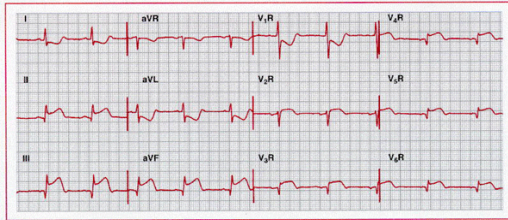
Infarktlokalisasjon:

- Høyre avledninger
 - aVR, (III), V1, (V2), V3r - V6r
- Venstre avledninger
 - I, aVL, V5, V6
- Fremre vegg
 - I, aVL, V1 - V6
- Septale / apikale avledninger
 - V3, V4
- Nedre vegg
 - II, III, aVF

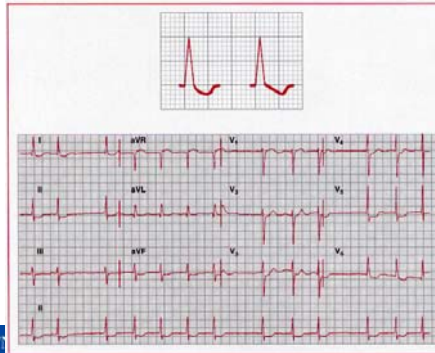
Utviklet NVI



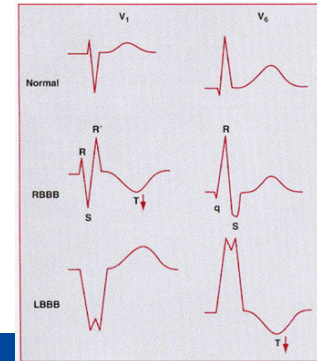
Høyre avledninger ved NVI



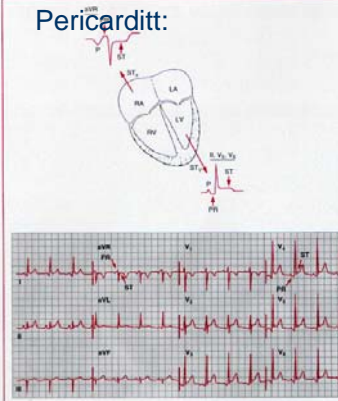
Digitaliseffekt



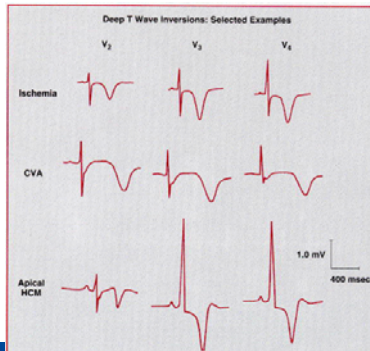
Grenblokk:



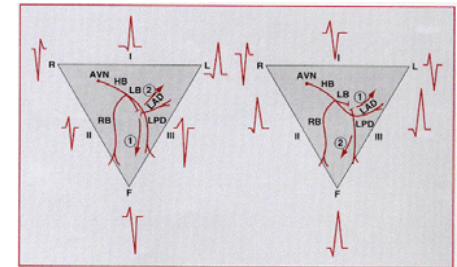
Pericarditt:



T-inversjoner:



Grenblokk:



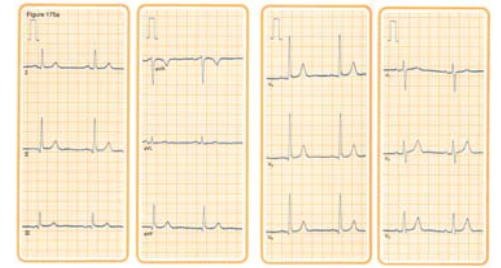
Hypertrofi



Øvelse:



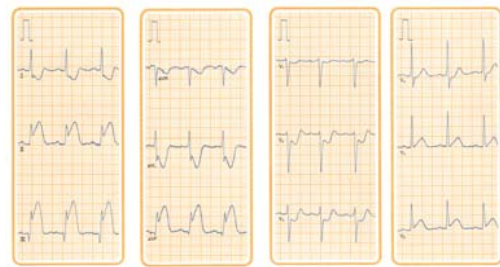
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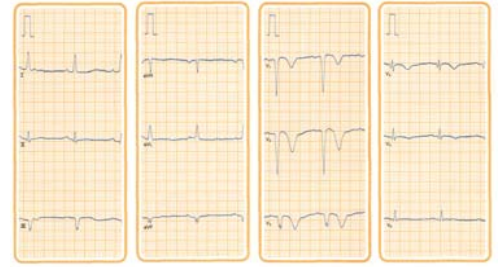
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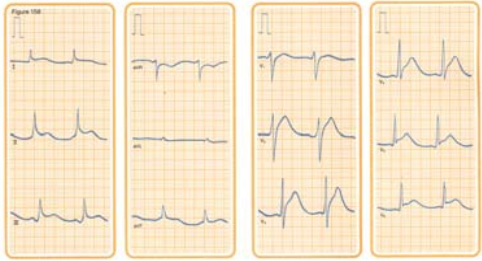
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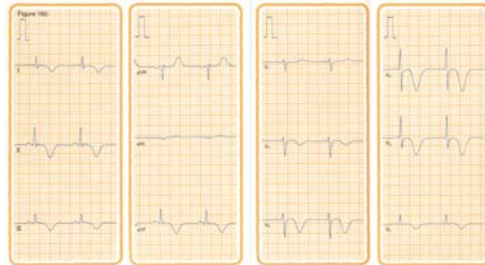
Øvelse:



Øvelse:



Øvelse:



Øvelse:



Øvelse:

