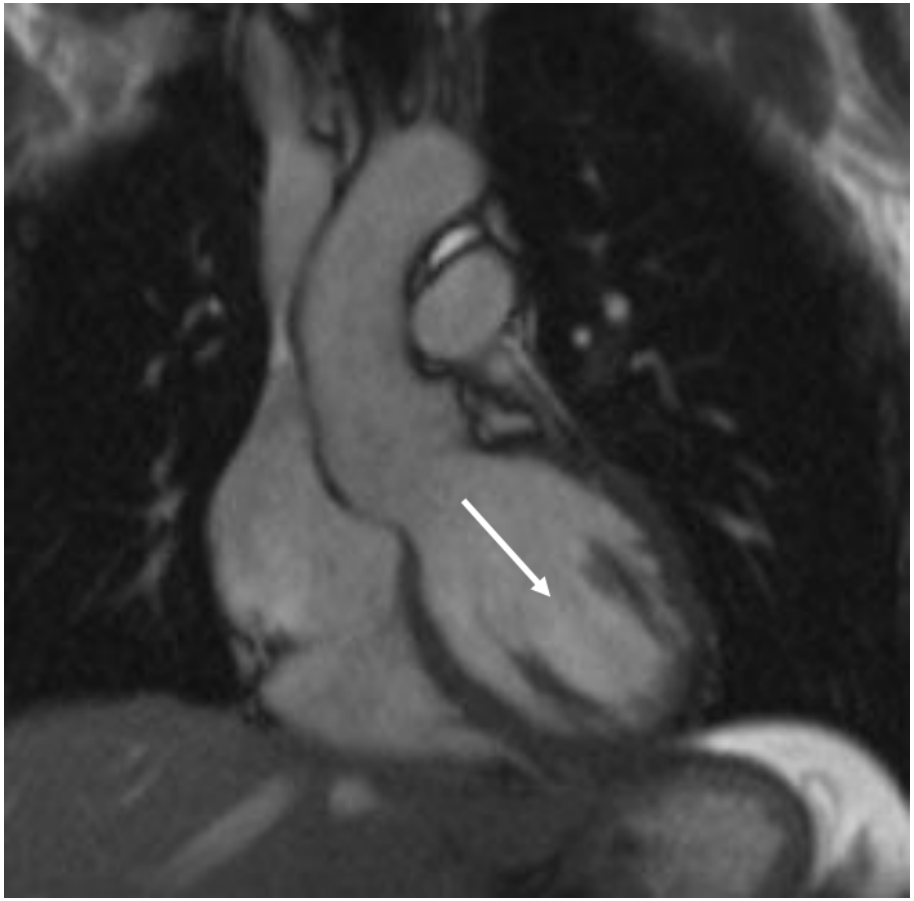
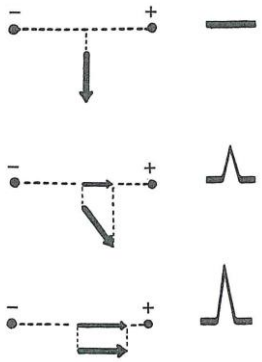
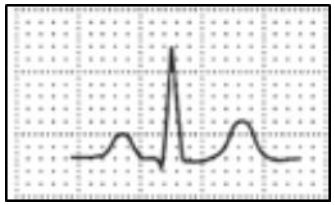
Hauptrichtung der ventrikulären Erregungsausbreitung

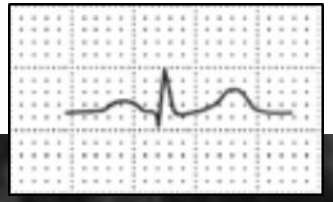


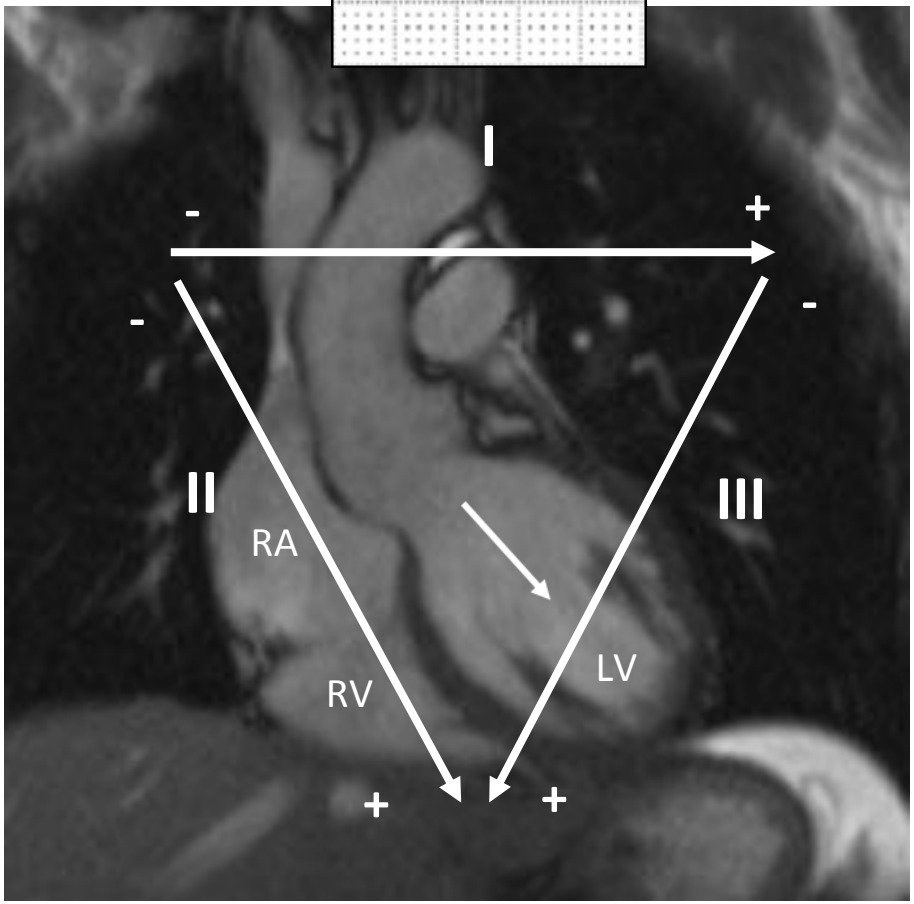
Einthoven-Ableitungen und -Dreieck

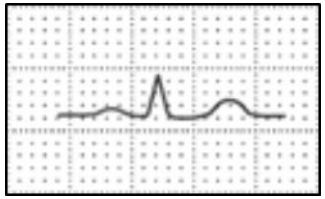




II-I = III

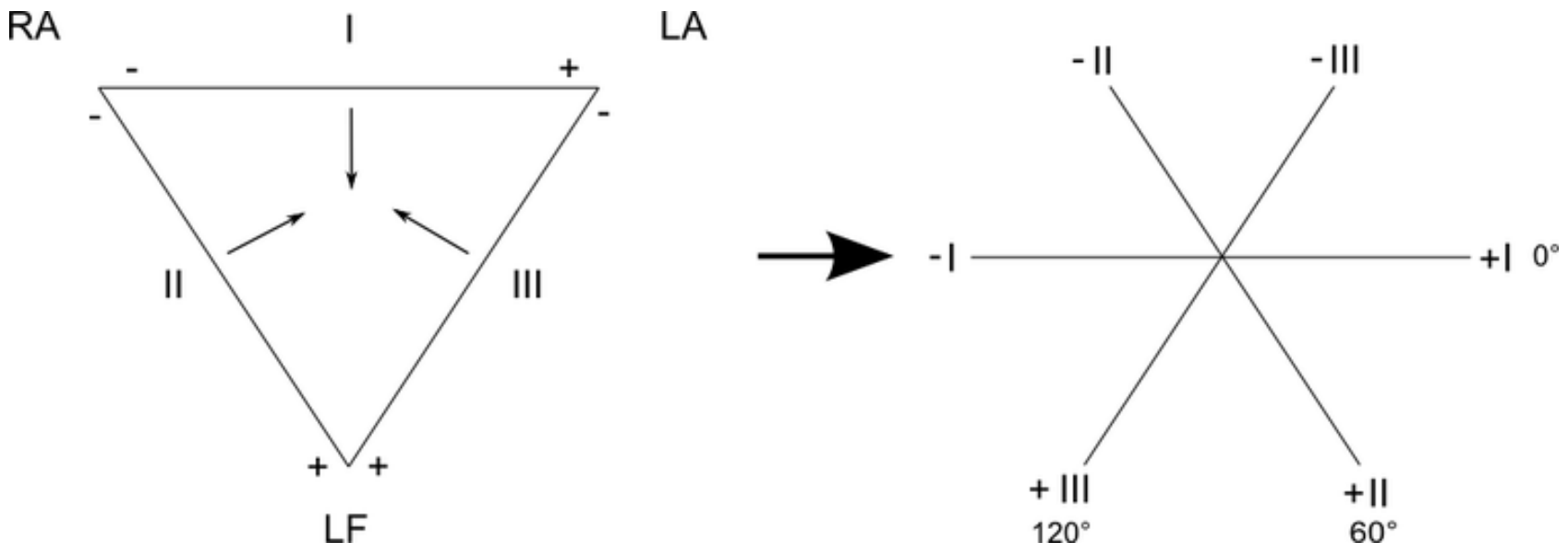




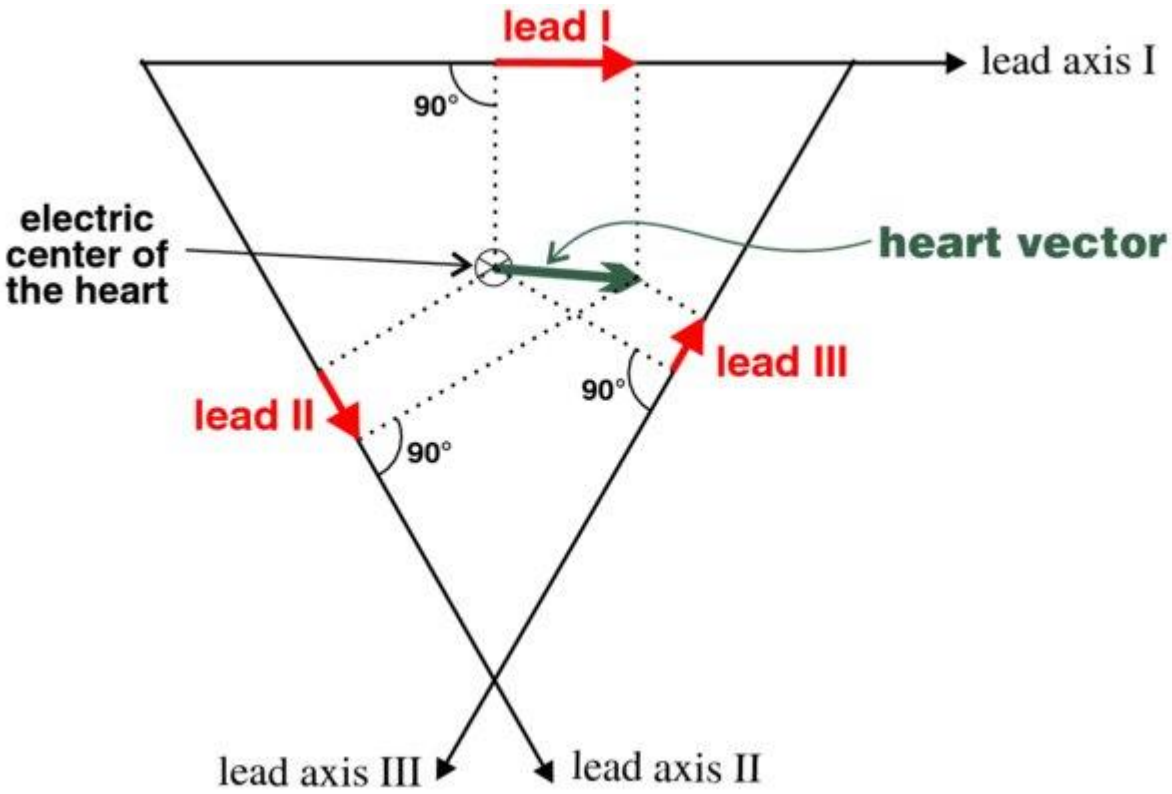


Frontalebene

Einthoven –Ableitungen und -Dreieck

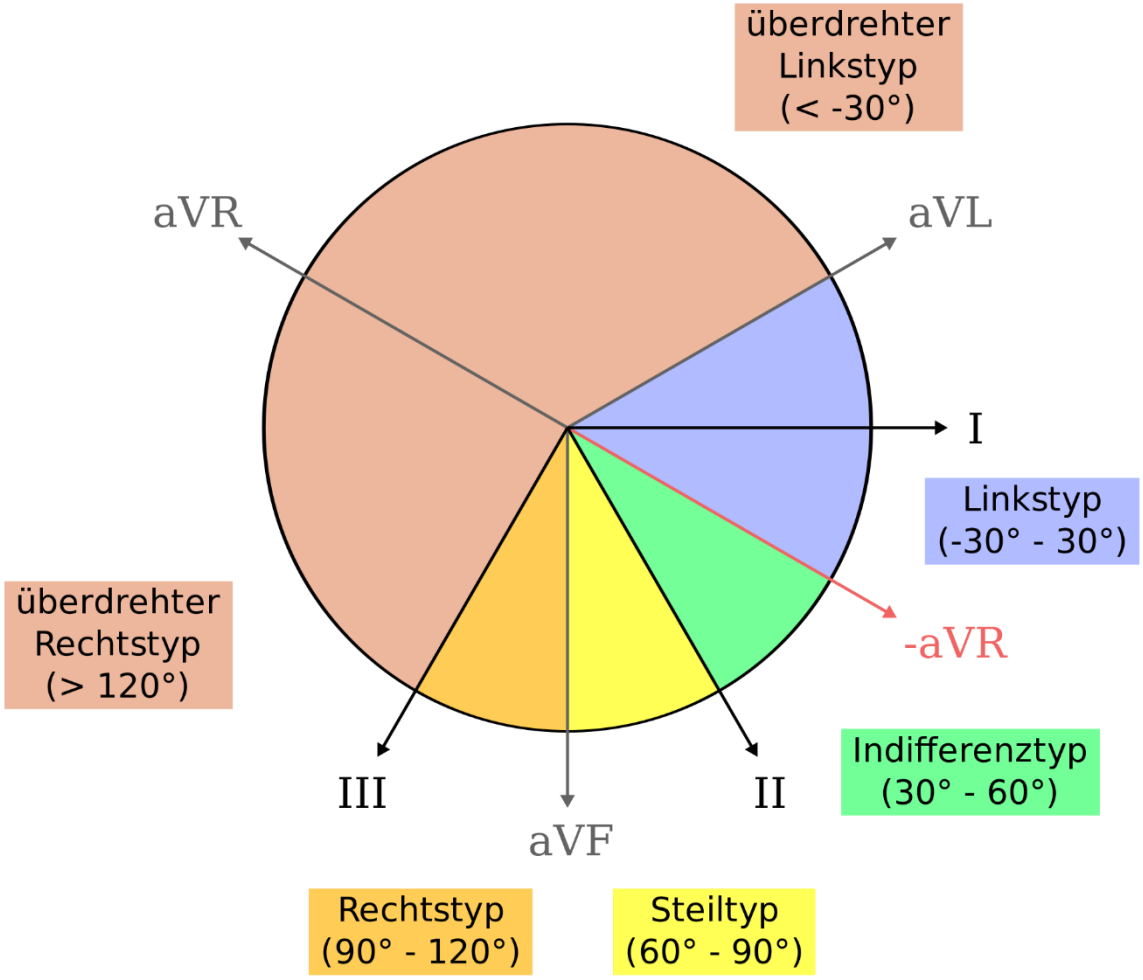


Ableitungen und Vektoren

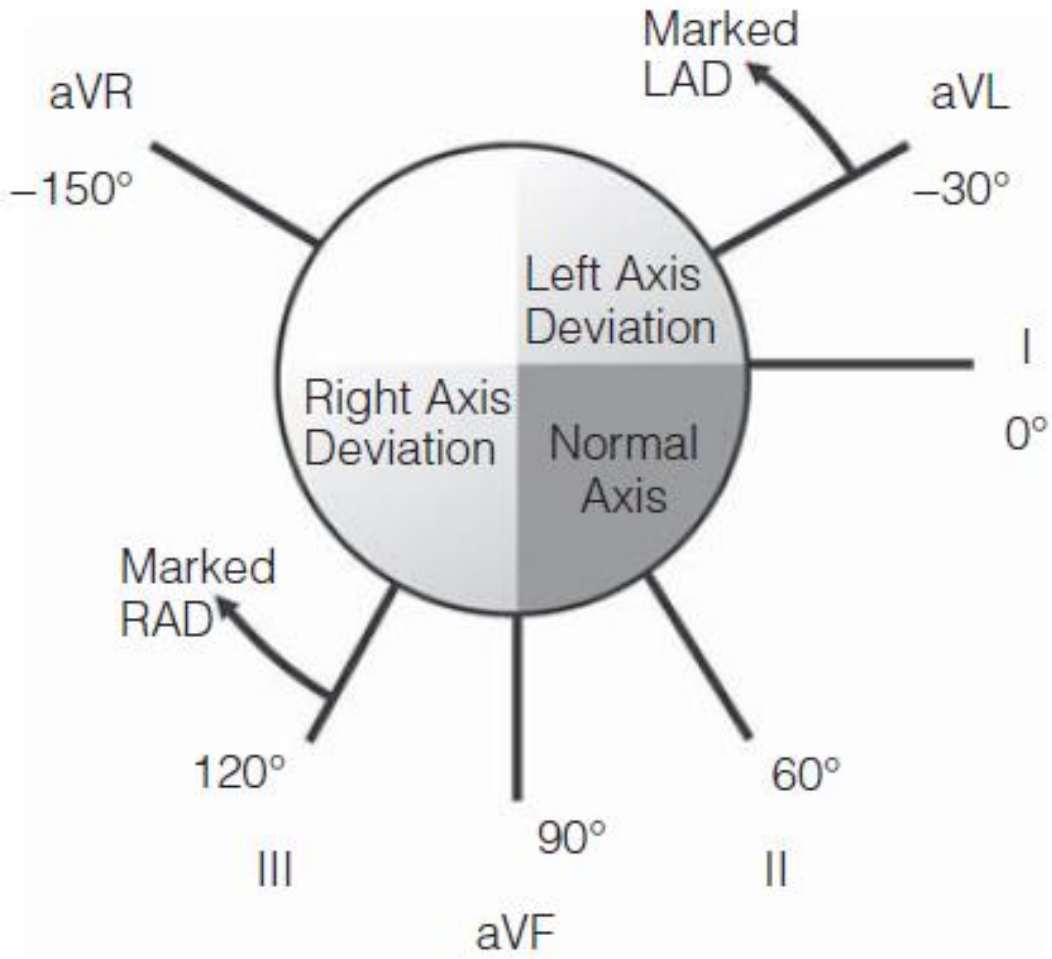


Stroobandt et al. 1988

Cabrera-Kreis und Lagetypen

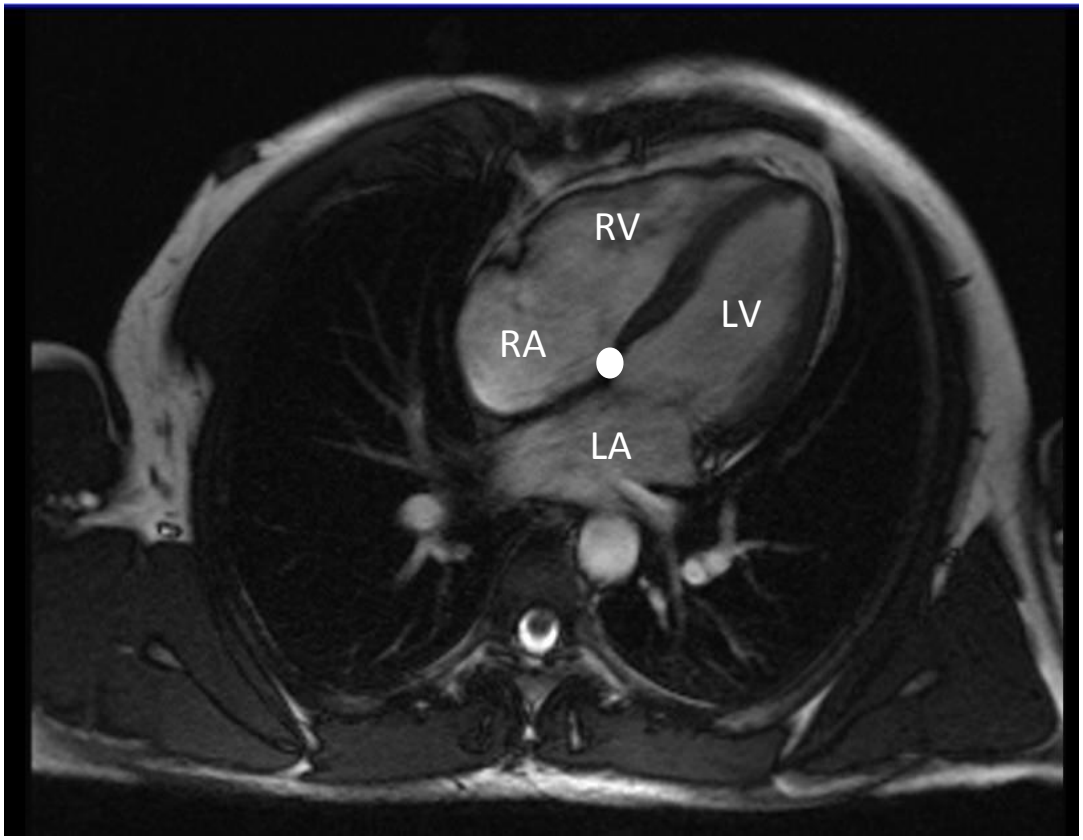


(Elektrische) QRS-Achsen

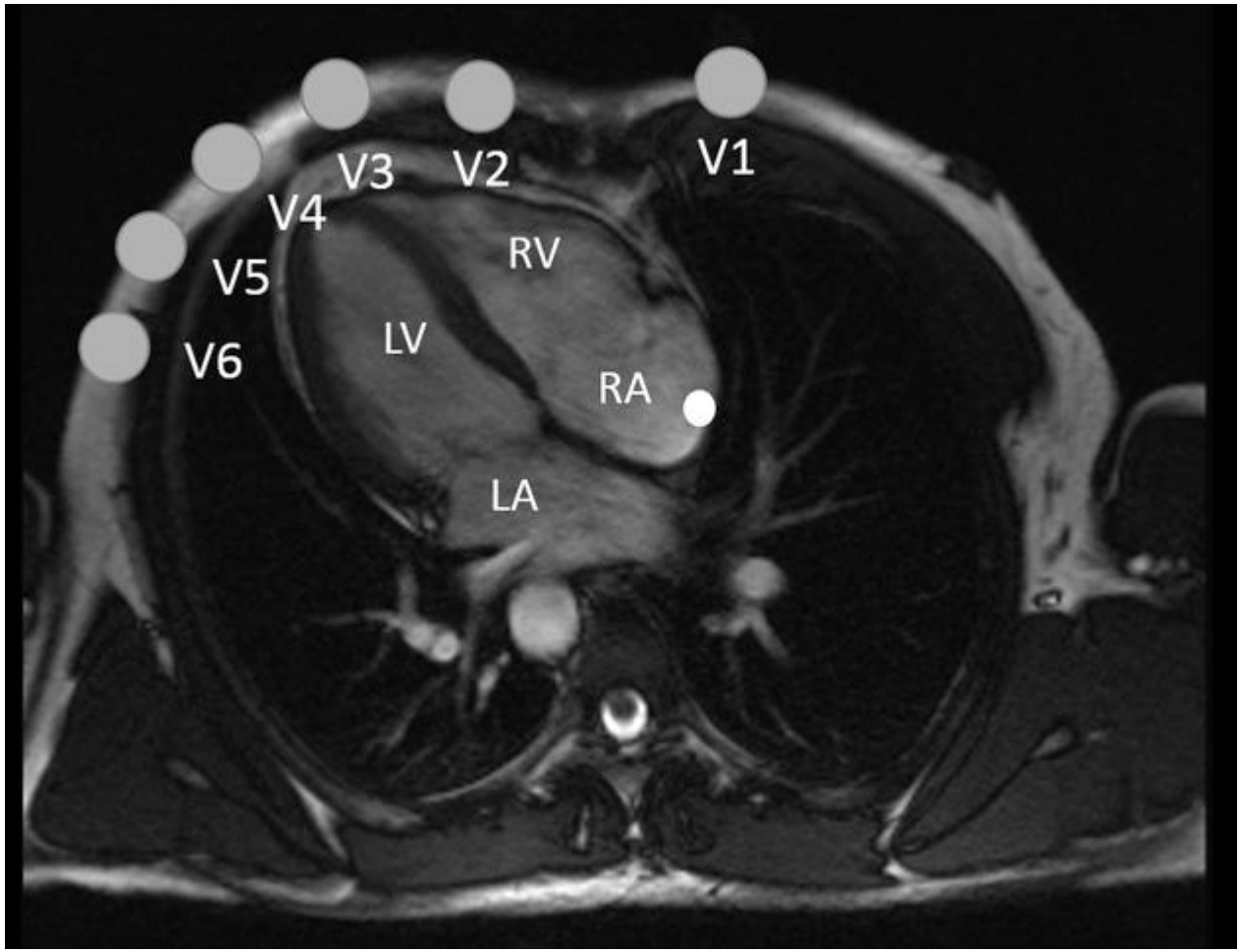


Foster, 2007

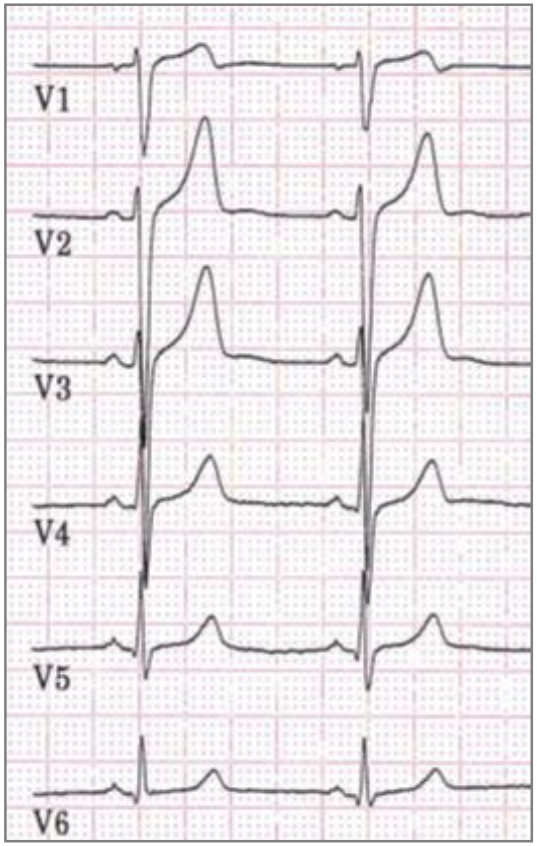
MRT Herz - Horizontalebene

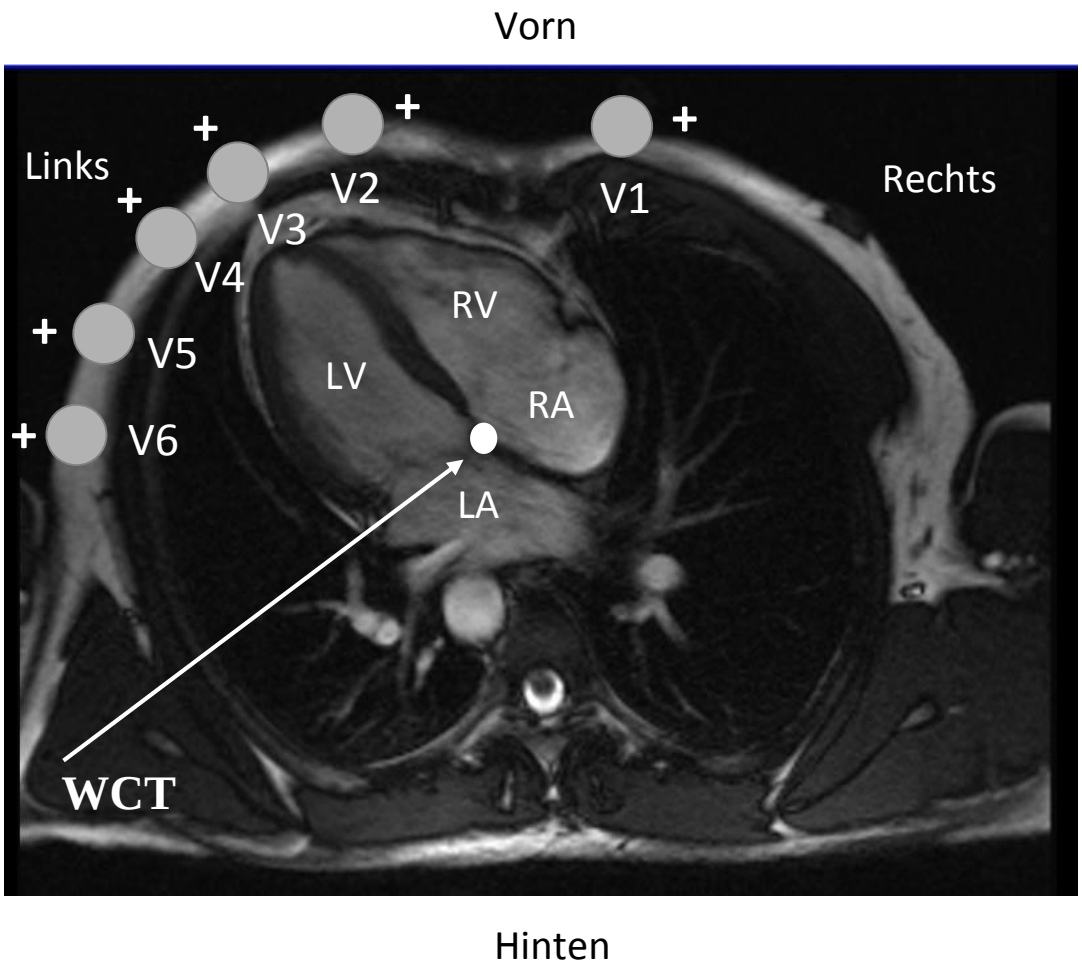


Wilson-Ableitungen



Brustwandableitungen nach Wilson





EKG-Standards

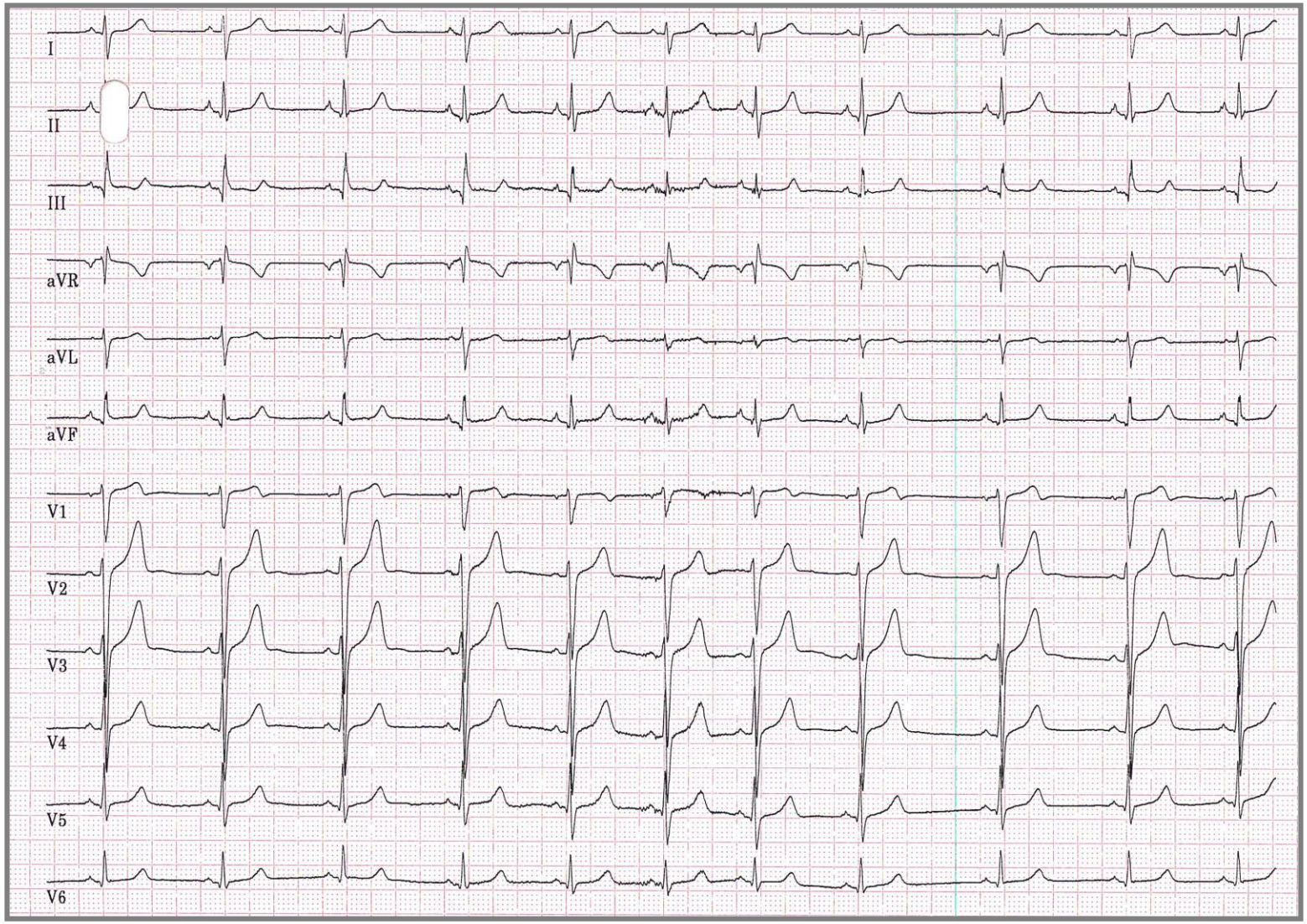
REPORT OF COMMITTEE ON ELECTROCARDIOGRAPHY, AMERICAN HEART ASSOCIATION

Recommendations for Standardization of Electrocardiographic and Vectorcardiographic Leads

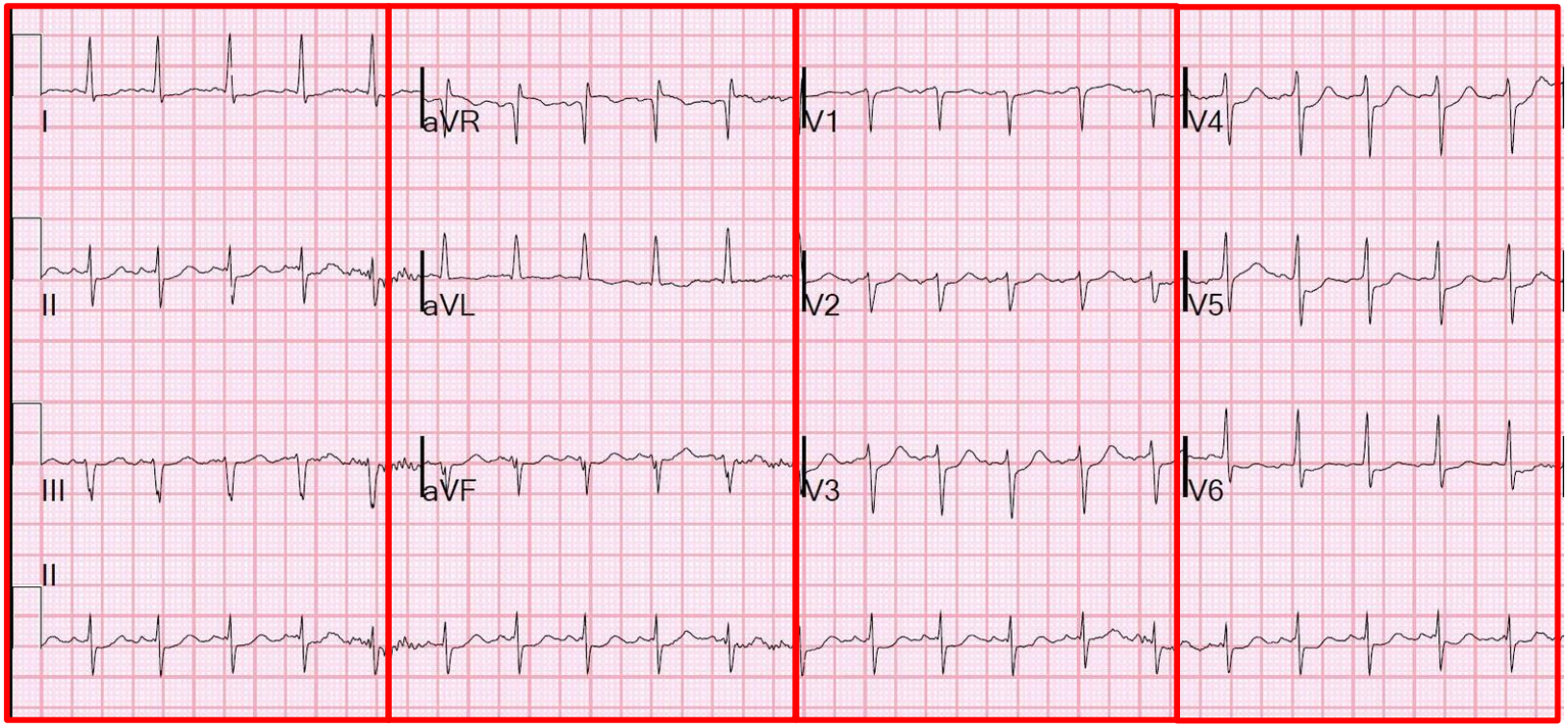
COMMITTEE MEMBERS: FRANK N. WILSON, M.D., HONORARY CHAIRMAN†
CHARLES E. KOSSMANN, M.D., CHAIRMAN, GEORGE E. BURCH, M.D., EMANUEL GOLDBERGER, M.D.,
ASHTON GRAYBIEL, Captain, MC, USN, HANS H. HECHT, M.D., FRANKLIN D. JOHNSTON, M.D.,
EUGENE LEPESCHKIN, M.D., GORDON B. MYERS, M.D.

1954

Standard 12-Kanal-EKG

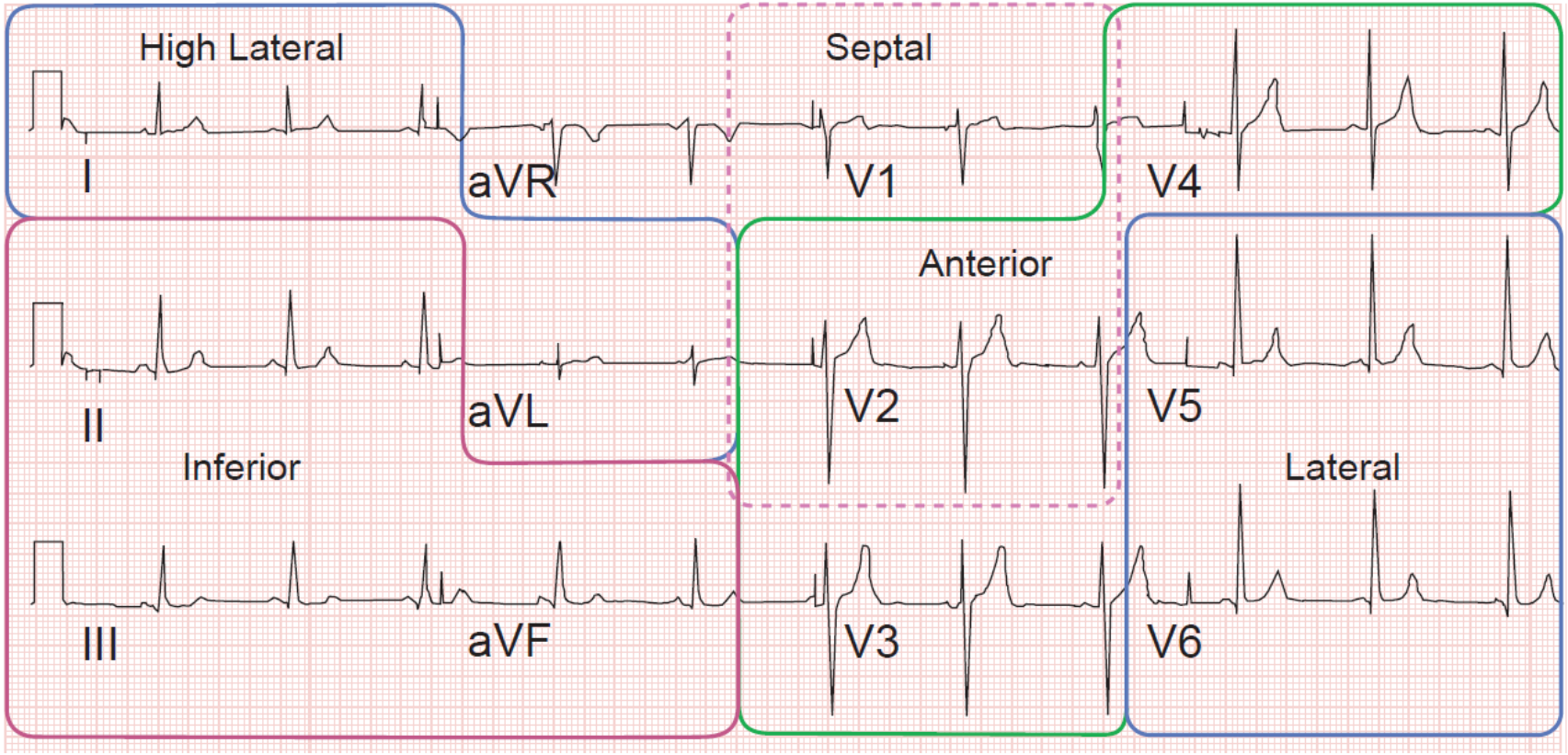


12-Kanal-EKG



9 Elektroden, 12 Ableitungen

EKG und Herzregion



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Polarität der Ableitungen

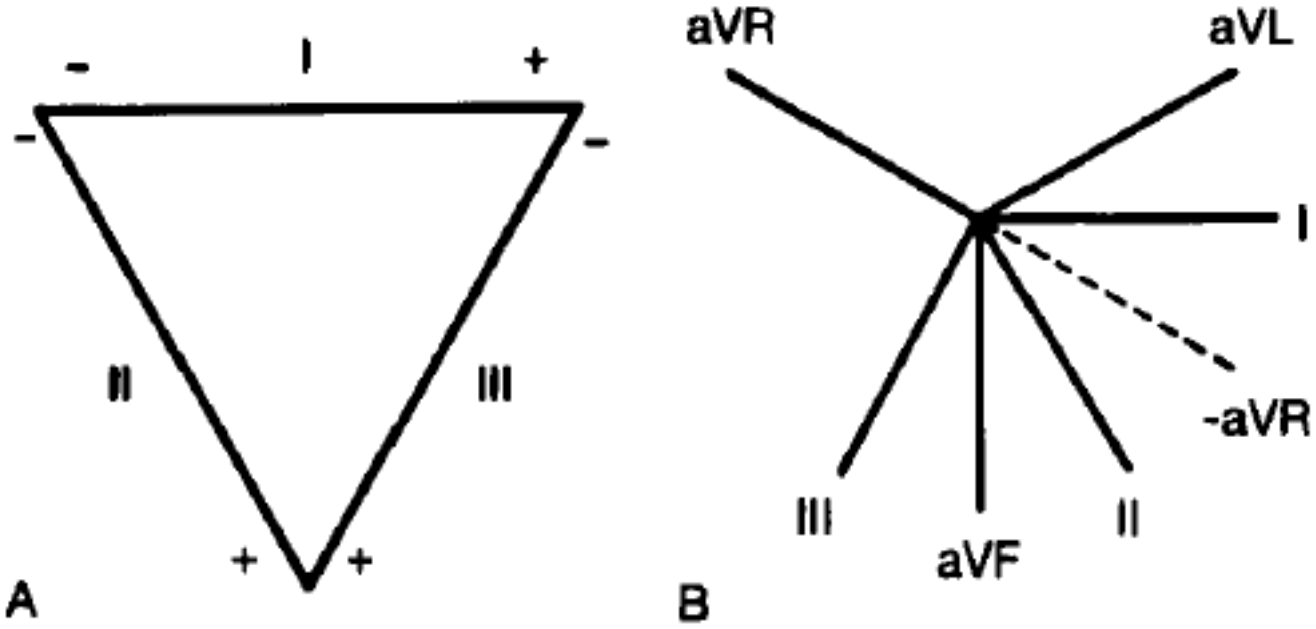
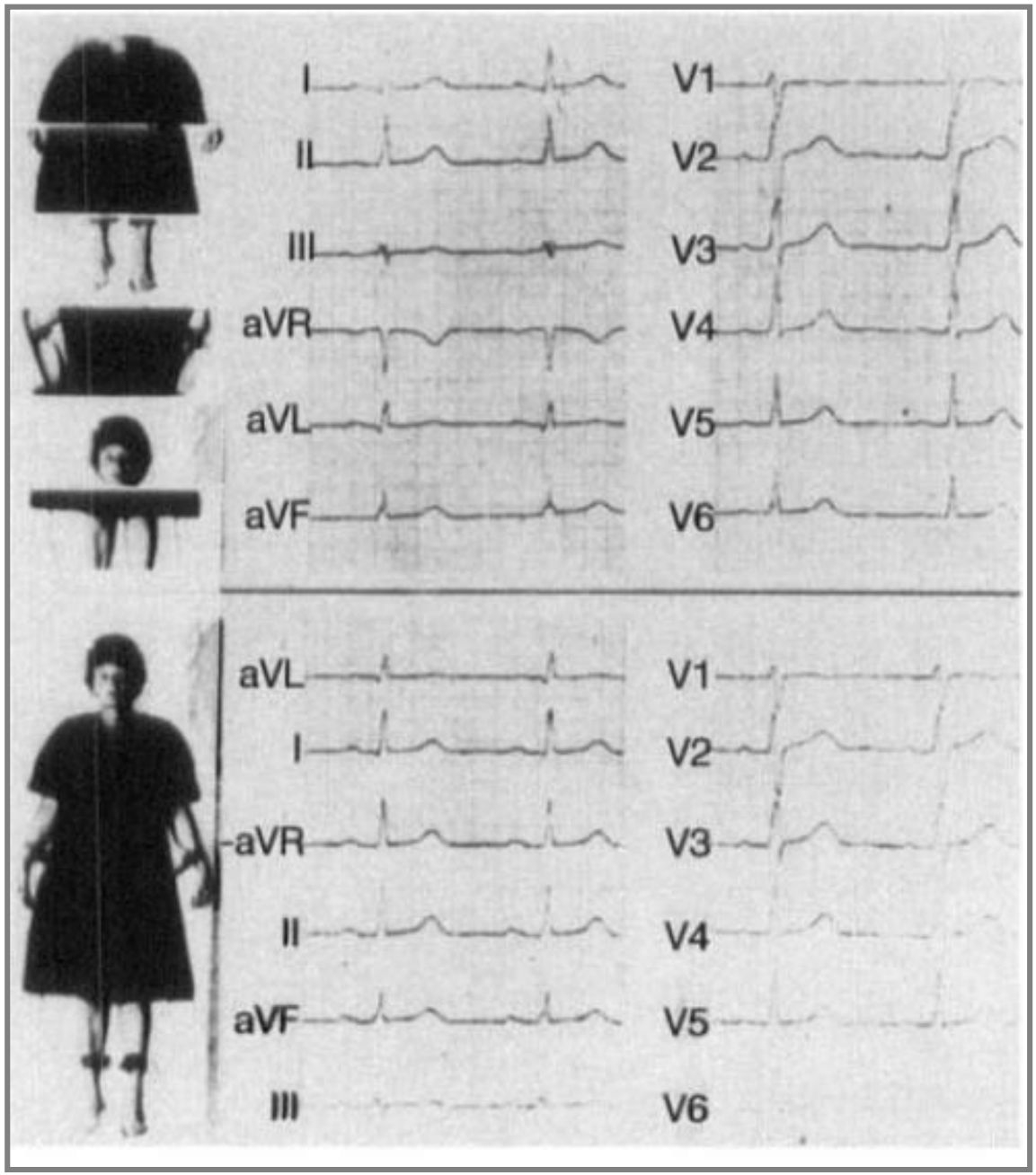
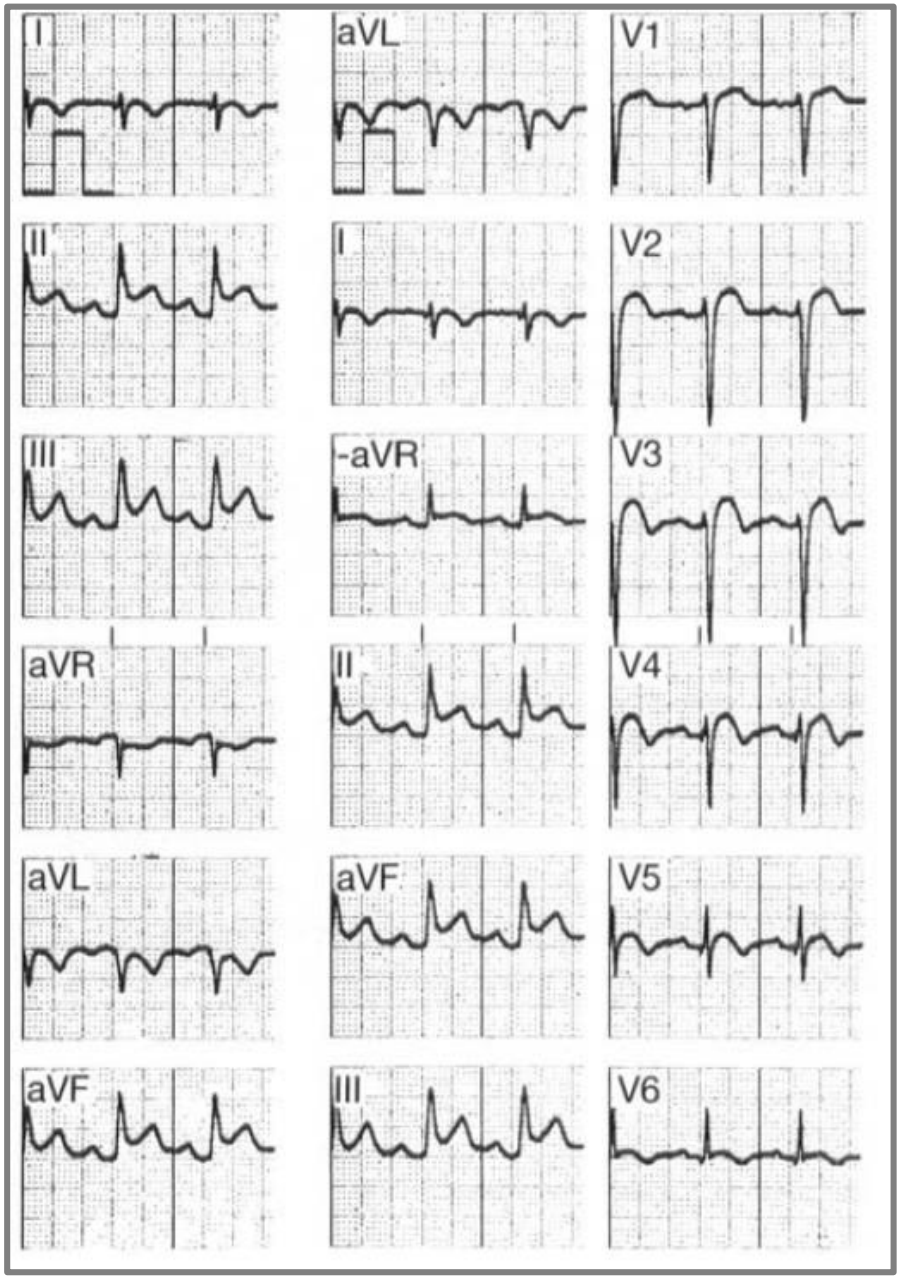


FIG. 1 (A) Inconsistent polarity of limb leads results in Einthoven's law: Lead I + Lead II = Lead III. (B) Hexaxial order of limb leads; note sequence obtained by reversing polarity of aVR.

Dower et al., 1990



Dower et al., 1990



Dower et al., 1990