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# Lead Placement Frank

National Cancer Institute

## Source

National Cancer Institute. *Lead Placement Frank*. NCI Thesaurus. Code C71118.

An electrocardiogram (ECG) lead placement for determining 3 orthogonal components X (right to left direction), Y (foot to head direction) and Z (back to front direction) of the heart. For this method a minimum of 4 electrodes are needed that represent the right arm, left arm, left leg and back. However, usually 7 electrodes are used to avoid dependence on the dipole location and facilitate interpretation.