



**Single measure**  
Combined Z-scores of several measures into **29** different Z-compounds

Diagnosis

### Z-compounds

- Calculated and compared to reference material for assessment of abnormality
- Reduces variance and improves sensitivity
- Allows for grading of abnormality
- May improve diagnostic accuracy in clinical studies



F-waves were a sensitive addition to the Z-compounds



Inclusion of medial plantar NCS into Z-compounds was of little significance



The Z-compound with the highest accuracy-index consists of **5** lower extremity nerves unilaterally



Motor

● Tibial

● Peroneal



Sensory

● Tibial medial plantar

● Superficial peroneal

● Sural



**Diabetic polyneuropathy**

**A Z-compound consisting of five unilateral lower extremity nerves is well suited for evaluating polyneuropathy in diabetic patients**