The Kikuhime subbandage pressure measuring device enables the nurse to ensure that a compression bandage with the correct subbandage pressure measured in mmHg is applied. The pressure-sensing pad is placed inside the double sliding cloth at ankle level. Then the compression bandage is applied in the usual way. Now the subbandage pressure at ankle level will be displayed on the display screen. Once the pressure has been read, the pressure-sensing pad can be removed easily and without disturbing the bandage by pulling the outer part of the double sliding cloth. A reading of the pressure right below the knee may also be made in order to ensure graduated compression.