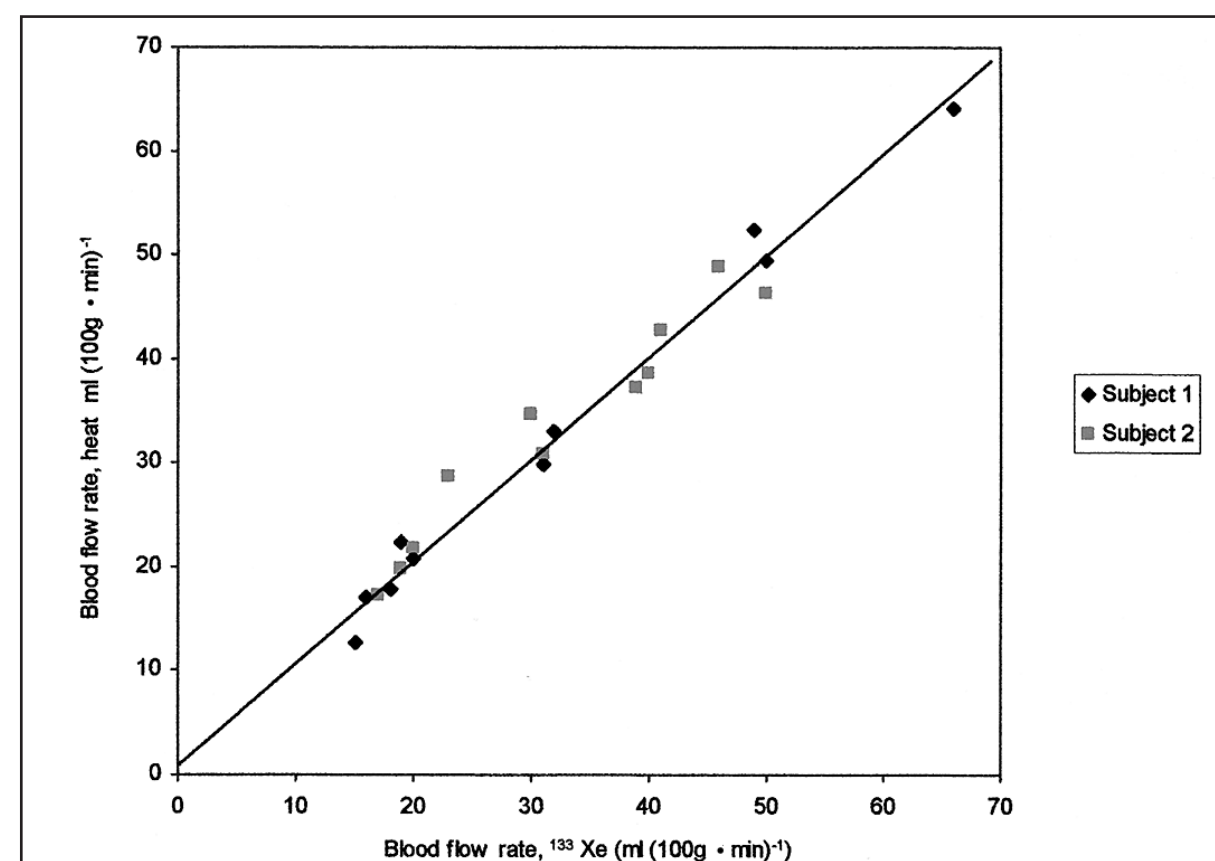


*Heat-washout**Varmeudvaskning**Lavado térmico*

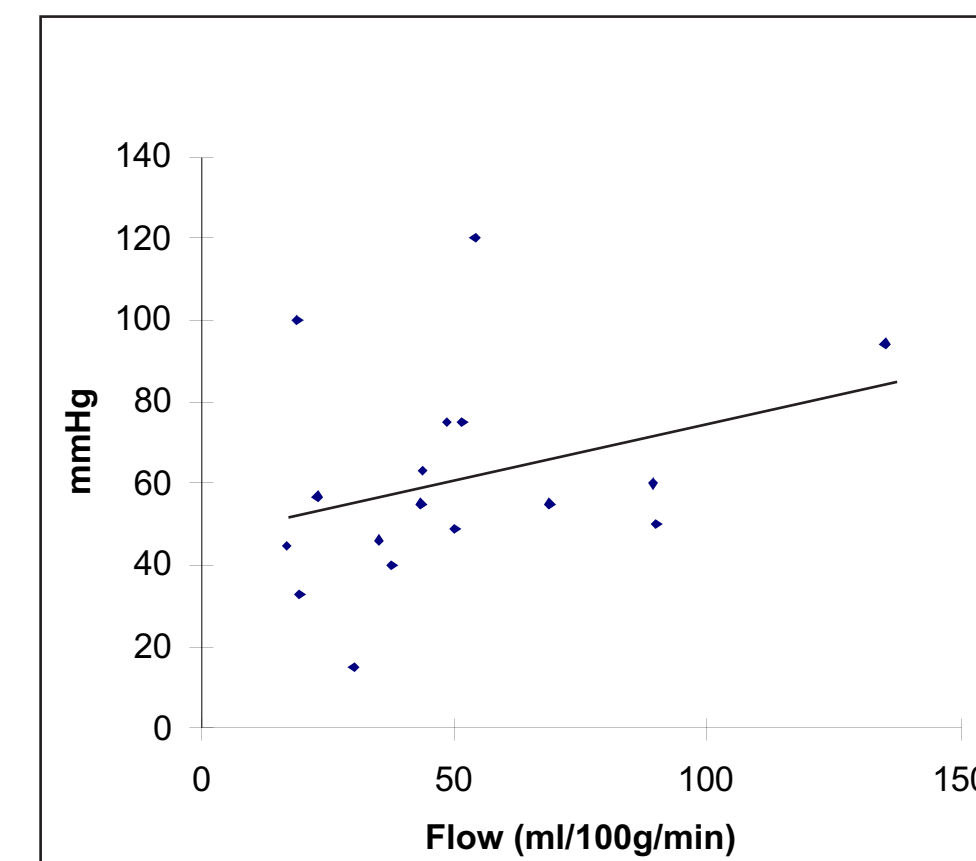
Toe blood flow rate - a better way of controlling peripheral circulation in your diabetes patient.

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- Conclusion:** Development of the heat-washout method for quantitative measurement of cutaneous blood flow rate yields a unique chance to follow changes in the peripheral blood flow rate (BFR) in diabetes. - Toe blood pressure (BP) measures BP proximally to the cuff, therefore toe BP is not correlated to BFR measured in the toe pulp - and is therefore invalidated!
- Purpose:** To compare absolute toe BFR to toe BP in diabetes patients. BFR measured by heat-washout has previously been correlated to the only other existing method for measuring skin BFR, i.e. the ^{133}Xe -washout method, a correlation coefficient of 0.986 was found, and the heat-washout method was therefore chosen.
- Materials and Methods:** The heat-washout method that measures cutaneous BFR in $\text{ml}(100\text{g}\times\text{min})^{-1}$ was used. BFR in the pulp of the 1. toe was measured in 17 patients with diabetes for more than 2 years, (6 with IDDM), 10 men, mean age 79 years. The patients were in recumbent position and BFR was measured with the 1. toe at heart level, 50 cm above heart level, and 50 cm below heart level. Toe BP was measured in the 1. toe with the foot at heart level.
- Results:** The results measured at heart level were compared. A correlation coefficient of only 0.33 was found. Two patients had one or both legs amputated shortly after the examination. In these patients toe BP was very high or normal, whereas BFR was as low as previously seen in patients with critical ischaemia and intermitten claudication.



Correlation between heat- and ^{133}Xe -washout = 0.986.



Correlation between heat-washout and toe blood pressure (BP).

Further information: <http://mettemidttun.homepage.dk> and www.kruckow.com

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*Élimination thermique**Wärme-Auswaschung**Heat-washout*