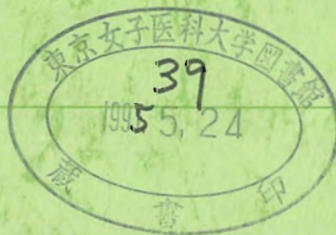

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Head Investigator
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Research Grants

1988 - 1,200,000 yen

1989 - 900,000 yen

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Publications and Presentations

Original Paper

Nakano K, Sugawara M et al.:
Regional work of the human left ventricle
calculated by wall stress and the natural
logarithm of reciprocal of wall thickness.
J Am Coll Cardiol 12:1422-1448, 1988

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Sugawara M, Nakano K: A new method of
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ventricle.
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(Eds) Cardiac Mechanics and Function in the
Normal and Diseased Heart.
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Sugawara M, Nakano K et al.: Measurements of regional work:normal subjects and patients with myocardial infarction. Jpn J Appl Physiol 18 Suppl:178-179, 1988 (in Japanese)

Sugawara M, Hirai A et al.: A new index of contractility independent of the heart size. Jpn Circ J 53:581, 1989

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Sugawara M; Asanoi H et al.: A new method of obtaining regional work of the ventricular wall by measuring wall thickness:clinical applications. Jpn J Med Ultrason 16 Suppl II: 649-650, 1989