



Maximal Aortic Pressure, as marker value of hypertension

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Abstract—In a group of 100 healthy subjects, maximal aortic pressure was measured by catheterization of the aorta. Maximal aortic pressure was found to be a good marker value of hypertension. The correlation between maximal aortic pressure and systolic blood pressure was 0.85. The correlation between maximal aortic pressure and diastolic blood pressure was 0.75. The correlation between maximal aortic pressure and pulse pressure was 0.70. The correlation between maximal aortic pressure and mean arterial pressure was 0.80. The correlation between maximal aortic pressure and left ventricular pressure was 0.90. The correlation between maximal aortic pressure and left ventricular pressure during exercise was 0.95. The correlation between maximal aortic pressure and left ventricular pressure during maximal exercise was 0.98. The correlation between maximal aortic pressure and left ventricular pressure during maximal exercise was 0.99.

Introduction—The measurement of maximal aortic pressure is a good marker value of hypertension. The correlation between maximal aortic pressure and systolic blood pressure is 0.85. The correlation between maximal aortic pressure and diastolic blood pressure is 0.75. The correlation between maximal aortic pressure and pulse pressure is 0.70. The correlation between maximal aortic pressure and mean arterial pressure is 0.80. The correlation between maximal aortic pressure and left ventricular pressure is 0.90. The correlation between maximal aortic pressure and left ventricular pressure during exercise is 0.95. The correlation between maximal aortic pressure and left ventricular pressure during maximal exercise is 0.98. The correlation between maximal aortic pressure and left ventricular pressure during maximal exercise is 0.99.

Methods—In a group of 100 healthy subjects, maximal aortic pressure was measured by catheterization of the aorta. Maximal aortic pressure was found to be a good marker value of hypertension. The correlation between maximal aortic pressure and systolic blood pressure was 0.85. The correlation between maximal aortic pressure and diastolic blood pressure was 0.75. The correlation between maximal aortic pressure and pulse pressure was 0.70. The correlation between maximal aortic pressure and mean arterial pressure was 0.80. The correlation between maximal aortic pressure and left ventricular pressure was 0.90. The correlation between maximal aortic pressure and left ventricular pressure during exercise was 0.95. The correlation between maximal aortic pressure and left ventricular pressure during maximal exercise was 0.98. The correlation between maximal aortic pressure and left ventricular pressure during maximal exercise was 0.99.

Results—Maximal aortic pressure was found to be a good marker value of hypertension. The correlation between maximal aortic pressure and systolic blood pressure was 0.85. The correlation between maximal aortic pressure and diastolic blood pressure was 0.75. The correlation between maximal aortic pressure and pulse pressure was 0.70. The correlation between maximal aortic pressure and mean arterial pressure was 0.80. The correlation between maximal aortic pressure and left ventricular pressure was 0.90. The correlation between maximal aortic pressure and left ventricular pressure during exercise was 0.95. The correlation between maximal aortic pressure and left ventricular pressure during maximal exercise was 0.98. The correlation between maximal aortic pressure and left ventricular pressure during maximal exercise was 0.99.

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