

PERBANDINGAN DIAMETER NORMAL VENA PORTA PADA PRIA DAN  
WANITA DEWASA NORMAL MENGUNAKAN COMPUTED TOMOGRAPHY  
DI RSUP DR.SARDJITO YOGYAKARTA, INDONESIA

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## INTISARI

**Latar Belakang:** Penentuan diameter vena porta penting untuk menentukan diagnosis beberapa penyakit diantaranya sirosis hati, hipertensi porta, kanker hati, dan metastasis kanker ke hati. Jenis kelamin, ras dan usia adalah beberapa faktor yang mempengaruhi ukuran diameter vena porta. Belum ada referensi mengenai ukuran normal dari diameter vena porta untuk orang Indonesia. Pengukuran dilakukan menggunakan CT scan yang memiliki sensitifitas tinggi.

**Tujuan:** Untuk membandingkan diameter normal vena porta pada pria dan wanita dewasa.

**Metode:** Data diambil dari rekam medis di RSUP Dr. Sardjito. Seluruh pasien yang menjalani pemeriksaan CT scan abdomen pada bulan Januari hingga Desember 2014 dievaluasi untuk kriteria inklusi penelitian.

**Hasil:** Rerata diameter vena porta untuk subyek pria adalah  $13,50 \pm 1,98$  mm, untuk vena porta kanan adalah  $10,31 \pm 1,61$  mm dan vena porta kiri adalah  $10,21 \pm 1,69$  mm. Sedangkan rerata diameter vena porta untuk subyek wanita adalah  $11,34 \pm 1,74$  mm, untuk vena porta kanan adalah  $8,95 \pm 0,88$  mm dan vena porta kiri adalah  $9,06 \pm 1,60$  mm.

**Kesimpulan:** Terdapat perbedaan signifikan antara diameter normal vena porta pria dibandingkan dengan diameter normal vena porta pada wanita di Indonesia. Diameter vena porta pada pria lebih besar daripada diameter vena porta pada wanita di Indonesia.

**Kata Kunci:** vena porta, ukuran normal, diameter, CT scan, jenis kelamin

COMPARATION OF NORMAL PORTAL VEIN DIAMETER  
BETWEEN ADULT MEN AND WOMEN USING COMPUTED TOMOGRAPHY  
IN RSUP DR.SARDJITO YOGYAKARTA, INDONESIA

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ABSTRACT

**Background:** Determining portal vein diameter is essential to diagnose some disorders such as liver cirrhosis, portal hypertension, hepatocellular carcinoma and cancer metastize to the liver. Gender, race and age are several factors that affect portal vein size. There is no refference for normal range for portal vein diameter in Indonesian people. Measurement were conducted with CT scan which has high sensitivity for measuring portal vein diameter.

**Objective:** To compare the normal size for portal vein diameter in men and woman in Indonesia.

**Method:** Data was taken from medical record in Dr.Sardjito Hospital. All patient who receive routine abdominal CT scan from January to December 2014 were evaluated for inclusion criteria of the study.

**Result:** The average normal diameter for main portal vein in men are  $13,50 \pm 1,98$  mm, for the right portal vein in men are  $10,31 \pm 1,61$  mm and for the left portal vein in men are  $10,21 \pm 1,69$  mm. Meanwhile, the average normal diameter in women are  $11,34 \pm 1,74$  mm, for the right portal vein in women are  $8,95 \pm 0,88$  mm and for the left portal vein in women are  $9,06 \pm 1,60$  mm.

**Conclusion** There is a significant difference in normal portal vein diameter in men and woman in Indonesian people. The portal vein diameter in men are larger than portal vein diameter in woman in Indonesian people.

**Keywords:** portal vein, normal size, diameter, CT scan, gender