

Information relating to Spirometry:

Relative contraindications Spirometry and hypertension Spirometry and menstrual cycle

Relative contraindications to spirometry*

Due to increases in myocardial demand or changes in blood pressure
Acute myocardial infarction within 1 wk
Systemic hypotension or severe hypertension
Significant atrial/ventricular arrhythmia
Noncompensated heart failure
Uncontrolled pulmonary hypertension
Acute cor pulmonale
Clinically unstable pulmonary embolism
History of syncope related to forced expiration/cough

Due to increases in intracranial/intraocular pressure Cerebral aneurysm Brain surgery within 4 wk Recent concussion with continuing symptoms Eye surgery within 1 wk

Due to increases in sinus and middle ear pressures Sinus surgery or middle ear surgery or infection within 1 wk

Due to increases in intrathoracic and intraabdominal pressure Presence of pneumothorax Thoracic surgery within 4 wk Abdominal surgery within 4 wk Late-term pregnancy

Infection control issues

Standardization of Spirometry 2019 Update
An Official American Thoracic Society and European Respiratory Society
Technical Statement

Spirometry and hypertension

Three possible approaches, of equal acceptability:

- 1. spirometry is performed without any consideration of the subject's blood pressure
- 2. spirometry is performed only after measurement of each subject's blood pressure; and only if the blood pressure is below an arbitrarily set level*
- 3. spirometry is preceded by a question along the lines of 'since your last test have you been told by a doctor that you have high blood pressure that can't be controlled'; and is omitted in those who answer 'Yes', without measuring the blood pressure.
- * >200/120 (Canadian Resp J 2013;20;13-22)
- * 180/100 (NIOSH)

Spirometry and menstrual cycle

- no relationship in health
- small effect in women with asthma