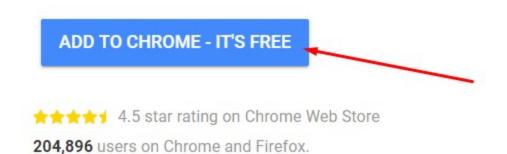


Read research papers for free.

Click the green tab and skip the paywall on millions of peer-reviewed journal articles. It's fast, free, and legal.



Hypertension

Article ▼ Search Q Advanced Search

Articles & Issues♥ For Authors♥ Journal Info♥

< Previous Abstract Next Abstract >

1

Download



Cite



Share



G

Permissions

LATE-BREAKERS: SESSION 1: PDF ONLY

BLOOD PRESURE RECOVERY – A
MARKER OF HAEMODYNAMIC
INSTABILITY IMPROVEMENT IN
PATIENTS WITH INTERMEDIARY –
HIGH RISK PULMONARY EMBOLISM

Ion, A.C.¹; Andrei, C.¹; Busnatu, S.¹; Sinescu, C.¹ Author Information ⊙

Journal of Hypertension: July 2019 - Volume 37 - Issue - p e159 doi: 10.1097/01.hjh.0000572040.20149.3a

FREE



Abstract

Article Level Metrics

There is no Altmetric data at this

time...

Pun tekst rada nije dostupan.

Advertisement



Help

COVID-19 is an emerging, rapidly evolving situation.

Get the latest public health information from CDC: https://www.coronavirus.gov.

Get the latest research from NIH: https://www.nih.gov/coronavirus.

Find NCBI SARS-CoV-2 literature, sequence, and clinical content: https://www.ncbi.nlm.nih.gov/sars-cov-2/

Journal List > Nat Sci Sleep > v.10; 2018 > PMC6109653

PubMed



Nat Sci Sleep. 2018; 10: 229-242.

Published online 2018 Aug 21. doi: 10.2147/NSS.S148543

PMCID: PMC6109653

PMID: 30174467

Blood-pressure variability in patients with obstructive

Oreste Marrone¹ and Maria R Bonsignore^{1,2}

► Author information ► Copyright and License information Disclaimer

This article has been cited by other articles in PMC.

sleep apnea: current perspectives

Abstract Go to: ♥

Obstructive sleep apnea (OSA) is often associated with hypertension and other cardiovascular diseases. Blood pressure (BP) variability is part of the assessment of cardiovascular risk. In OSA, BP variability has been studied mainly as very short-term (beat-by-beat) and short-term (24-hour BP profile) variability. BP measured on consecutive heartbeats has been demonstrated to be highly variable, due to repeated peaks during sleep, so that an accurate assessment of nocturnal BP

Formats:

Article | PubReader | ePub (beta) | PDF (1.1M)

Share

Facebook V Twitter S Google+

Save items

★ Add to Favorites

Similar articles in PubMed

Research and Development of Information and Communication Technology [Ann Glob Health. 2016]

Positive airway pressure improves nocturnal beatto-beat blood pr [Am J Physiol Regul Integr Comp...]

Association of Sleep Characteristics With Nocturnal Hypertension and Nondipp [J Am Heart Assoc. 2020]

Ambulatory Blood Pressure Monitoring in Chinese Patients with Obstructive SI [J Clin Sleep Med. 2017]

Evidence and Perspectives on the 24-hour Management of Hyperte [Prog Cardiovasc Dis. 2016] Pun tekst rada je dostupan.

Nat Sci Sleep

Blood-pressure variability in patients with obstructive sleep apnea: current perspectives

This article was published in the following Dove Press journal: Nature and Science of Sleep

Oreste Marrone Maria R Bonsignore 1,2

National Research Council of Italy, Institute of Biomedicine and Molecular Immunology, 2DiBiMIS, University of Palermo, Palermo, Italy Abstract: Obstructive sleep apnea (OSA) is often associated with hypertension and other cardiovascular diseases. Blood pressure (BP) variability is part of the assessment of cardiovascular risk. In OSA, BP variability has been studied mainly as very short-term (beat-by-beat) and short-term (24-hour BP profile) variability. BP measured on consecutive heartbeats has been demonstrated to be highly variable, due to repeated peaks during sleep, so that an accurate assessment of nocturnal BP levels in OSA may require peculiar methodologies. In 24-hour recordings, BP frequently features a "nondipping" profile, ie, <10% fall from day to night, which may increase cardiovascular risk and occurrence of major cardiovascular events in the nocturnal hours. Also, BP tends to show a large "morning BP surge", a still controversial negative prognostic sign. Increased very short-term BP variability, high morning BP, and nondipping BP profile appear related to the severity of OSA. Treatment of OSA slightly reduces mean 24-hour BP levels and nocturnal beat-by-beat BP variability by abolishing nocturnal BP peaks. In some patients OSA treatment turns a nondipping into a dipping BP profile. Treatment of arterial hypertension in OSA usually requires both antihypertensive pharmacological therapy and treatment of apnea. Addressing BP variability could help improve the management of OSA and reduce cardiovascular risk. Possibly, drug administration at an appropriate time would ensure a dipping-BP profile. Keywords: sleep apnea, ambulatory blood-pressure monitoring, beat-by-beat measurements,

blood-pressure dipping, morning blood-pressure surge

Introduction

Obstructive sleep apnea (OSA) is a well-known cardiovascular risk factor. In patients with OSA, cardiovascular diseases have increased incidence and are associated with worse functional outcomes and increased mortality.1 Systemic hypertension, which is often found in OSA, can importantly affect cardiovascular health. Also, altered blood pressure (BP) variability may carry some additional risk for higher incidence and faster progression of cardiovascular disease.23 Both the degree and pattern of BP variability have prognostic implications. Many methods and calculations have been proposed for assessment of BP variability, but physiological and clinical meanings of each of them are not always clear. 4.5 In this article, after a brief review of assessment and implications of BP variability in the general population, we focus on BP variability