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Mini Review

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What are the Tensional Goals in the Frail Elderly?

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Review

In the present study we performed a literature review, aiming to understand the practical applicability of this new guidelines in the older people, and especially in frail elderly. We searched on the online database "Pubmed" the MESH terms "Hypertension" and "Frail Elderly" and we selected 32 out of 76 papers published in the last 10 years; from this 32 we selected the ones that approached the treatment targets for blood pressure. This research was complemented with the inclusion of other international guidelines and papers that were found relevant. From the papers selected to perform this review, we found guidelines, reviews and observational studies, some with conflicting results and others that are unable to define a blood pressure target in frail and institutionalized elderly. Hypertension is a well stablished cardiovascular (CV) risk factor in adults, active independent older people and even in frail elderly; nevertheless in the group of frail elderly there is evidence that they might lack a benefit in the aggressive treatment of high blood pressure. The randomized controlled trials from Beckett N, et al. [1] and Briasoulis A, et al. [2] showed that the hypertension treatment in older patients (age ≥65 years) and very old patients (≥80 years) significantly reduced CV morbidity and CV and all-cause mortality. In this studies treatment of hypertension was found to be well tolerated. The 2018 ESC/ESH guidelines recommend systolic blood pressure (SBP) target at 130-139 mmHg and diastolic blood pressure (DBP) under 80 mmHg for elderly above 65 years. The American guidelines (2017) recommend SBP under 130 mmHg for community dwelling older people above 65 years, but also recommend wariness in the risk-benefit relation, presence of comorbidities and limited life span. The Canadian guidelines (2018)

refer to a lack of evidence to make a recommendation in blood pressure targets in institutionalized elderly [3]. The Australian guidelines (2016) recommend a target of SPB under 120 mmHg and the British (2017) omit a recommendation referring to targets in this population.

The reviews from Correa A, et al. [4] and Naschitz J, et al. [5] refer that in frail elderly with multiple comorbidities an individualized approach should be considered and the therapeutic targets and regimes should consider risks in this population, such as possible secondary effects, potential drug interactions and that there may be a need for deintensification of antihypertensive treatment [6,7]. A review from Ferri C [8] contemplates more aggressive targets in the eldery, for the author defend that hypertension is major CV risk factor and not its treatment. Nevertheless, the inclusion of frailty evaluation in clinical practice is of major importance to make decisions. The Systolic Blood Pressure Intervention Trial (SPRINT) (2015), showed that a SBP target under 120 mmHg for most elderly was reasonable. This trial included a significant amount of elderly participants above 75 years old and demonstrated that a more aggressive treatment significantly reduced major CV events, heart failure and all-cause mortality, all above 30%, with statistical significance, in comparison with standard treatment. This trial also suggests that this benefits may extend to frail elderly. Based on this trial, with outstanding results, the ESC/ESH taskforce made the new recommendations in the 2018 guidelines to people above 65 years. A cohort study by Corrao G, et al. (2017) [9], refers that adhesion to anti-hypertension treatment was associated with a reduction in the risk of CV events e CV mortality, even in ages above 85 years old.

Conclusion

Based on this review, we consider that there is recent evidence to support the definition of more strict targets in the elderly regardless of chronological age. However, we consider that frailty should be assessed in clinical practice with an evaluation tool and taken into consideration for an individualized approach in the treatment of hypertension.

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Conflict of Interest

No conflict of interest.

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