

# Penentuan indeks densitas tulang mandibula lansia laki-laki berdasarkan indeks penurunan kadar testosteron dan faktor-faktor risiko lainnya = Determination of mandibular bone density index in elderly men based on the analysis of the decreased index level of total blood testosterone and other risk factor

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## Abstrak

### [<b>ABSTRAK</b><br>

Latar Belakang: Osteoporosis laki-laki adalah penyakit degeneratif yang penting diperhatikan oleh dokter gigi dalam memberikan pelayanan kesehatan gigi dan mulut, karena osteoporosis pada bagian tubuh yang lain juga berdampak pada tulang rahang. Osteoporosis pada tulang rahang dapat mengakibatkan kegagalan dalam pembuatan gigi tiruan, pemasangan implan dan perawatan penyakit periodontal. Untuk mengatasi kegagalan perawatan perlu pemeriksaan kadar testosteron dan pemeriksaan densitas tulang. Pemeriksaan kadar testosteron dan pemeriksaan densitas tulang mahal dan hanya ada di kota-kota besar di Indonesia, karena itu perlu dibuat indeks untuk memprediksi penurunan kadar testosteron darah dan indeks untuk memprediksi penurunan densitas tulang mandibula lansia laki-laki. Tujuan: mengetahui faktor risiko yang berperan pada penurunan kadar testosteron dan faktor risiko yang berperan pada penurunan densitas tulang mandibula lansia laki-laki dan untuk membuat indeks prediksi penurunan kadar testosteron dan indeks densitas tulang mandibula. Metode: uji diagnostik dan uji kasus kontrol pada lansia laki-laki usia > 60 tahun dengan wawancara pengisian kuesioner, pemeriksaa klinis dan radiografi. Hasil: Faktor-faktor Risiko yang berperan pada penurunan kadar testosteron dan penurunan densitas tulang mandibula serta indeks untuk menentukan penurunan kadar testosteron dan indeks untuk menentukan penurunan densitas tulang mandibula lansia laki-laki. Dihasilkan software dan indeks sebagai alat bantu prediksi.

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### <b>ABSTRACT</b><br>

Background: Osteoporosis in men is a degenerative disease which is an important subject to be apprehended by dentists in order to provide an optimal dental and oral health service because osteoporosis can also affect the mandible. Examination of testosterone level and bone density in Indonesia is relatively expensive and can only be accessed in big cities. This highlights the importance of establishing both an index to determine the decrease of total blood testosterone level and index to determine the decrease of mandibular bone density in elderly patients. Objective: to know risk factors that contributes to the decrease of testosterone level and the decrease of mandibular bone density in elderly men; to

make a prediction model for the decreasing level of testosterone and mandibular bone density. Methods: diagnostic test and case control study in elderly men above 60 years old by way interviews to fill questionnaires, clinical and radiographic examination. Results: Risk factors that contribute to the decrease of testosterone level and index to determine the decrease of mandibular bone density in elderly men. A software and index are produced as prediction tools;Background: Osteoporosis in men is a degenerative disease which is an important subject to be apprehended by dentists in order to provide an optimal dental and oral health service because osteoporosis can also affect the mandible. Examination of testosterone level and bone density in Indonesia is relatively expensive and can only be accessed in big cities. This highlights the importance of establishing both an index to determine the decrease of total blood testosterone level and index to determine the decrease of mandibular bone density in elderly patients. Objective: to know risk factors that contributes to the decrease of testosterone level and the decrease of mandibular bone density in elderly men; to make a prediction model for the decreasing level of testosterone and mandibular bone density. Methods: diagnostic test and case control study in elderly men above 60 years old by way interviews to fill questionnaires, clinical and radiographic examination. Results: Risk factors that contribute to the decrease of testosterone level and index to determine the decrease of mandibular bone density in elderly men. A software and index are produced as prediction tools;Background: Osteoporosis in men is a degenerative disease which is an important subject to be apprehended by dentists in order to provide an optimal dental and oral health service because osteoporosis can also affect the mandible. Examination of testosterone level and bone density in Indonesia is relatively expensive and can only be accessed in big cities. This highlights the importance of establishing both an index to determine the decrease of total blood testosterone level and index to determine the decrease of mandibular bone density in elderly patients. Objective: to know risk factors that contributes to the decrease of testosterone level and the decrease of mandibular bone density in elderly men; to make a prediction model for the decreasing level of testosterone and mandibular bone density. Methods: diagnostic test and case control study in elderly men above 60 years old by way interviews to fill questionnaires, clinical and radiographic examination. Results: Risk factors that contribute to the decrease of testosterone level and index to determine the decrease of mandibular bone density in elderly men. A software and index are produced as prediction tools;Background: Osteoporosis in men is a degenerative disease which is an important subject to be apprehended by dentists in order to provide an optimal dental and oral health service because osteoporosis can also affect the mandible. Examination of testosterone level and bone density in Indonesia is relatively expensive and can only be accessed in big cities. This highlights the importance of establishing both an index to determine the decrease of total blood testosterone

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