

BACKGROUND:

Osteoporosis is an important public health problem leading to an increased risk of developing spontaneous and traumatic fractures. In India osteoporotic fractures occur more commonly in both sexes, and mostly occur at a younger and older both age. Osteoporosis is characterized by low bone mass with micro architectural deterioration of bone tissue leading to enhance bone fragility, thus increasing the susceptibility to fracture. This would be associated with enormous costs and considerable consumption of health resources. Pharmacological therapies that effectively reduce the number of fractures by improving bone mass are now available widely in markets.

At present most drugs available in the markets decrease bone loss by inhibiting bone resorption. Current treatment alternatives include bisphosphonates, calcitonin, teriparatide but sufficient calcium and vitamin D are a prerequisite. To further improve pharmacological interventions and therapeutical choices in this field, improvement of knowledge is very necessary.

OBJECTIVES:

- ⇒ Assessment of Calcium supplements and Teriparatide usage in osteoporosis among orthopedic Surgeons in Chhattisgarh.
- ⇒ To identify the choice of drug for Osteoporosis by Orthopedic Surgeons.
- ⇒ To identify Criteria by which orthopedic Surgeons prescribed drugs for Osteoporosis.

SIGNIFICANCE OF STUDY:

The study was made to assessment of usage of calcium supplement and Teriparatide and brand preference of orthopedic physicians in osteoporosis; the results of this study are believed to be of great benefit to Pharmaceutical manufacturing Company.

RESEARCH METHODOLOGY:

Research Study design: Descriptive research study design was used in this study.

Target Population: Target population included the Orthopedic Surgeons of Chhattisgarh.

Sample size: During the study 120 questionnaires were distributed and only 111 respondents handed back their filled questionnaires representing 92.5% response.

Study area: Districts of Chhattisgarh.(Raipur, Bilaspur, Jagadapur, Ambikapur, Durg, Rajnandgaon.)

Time Period: April 2016 - May 2016.

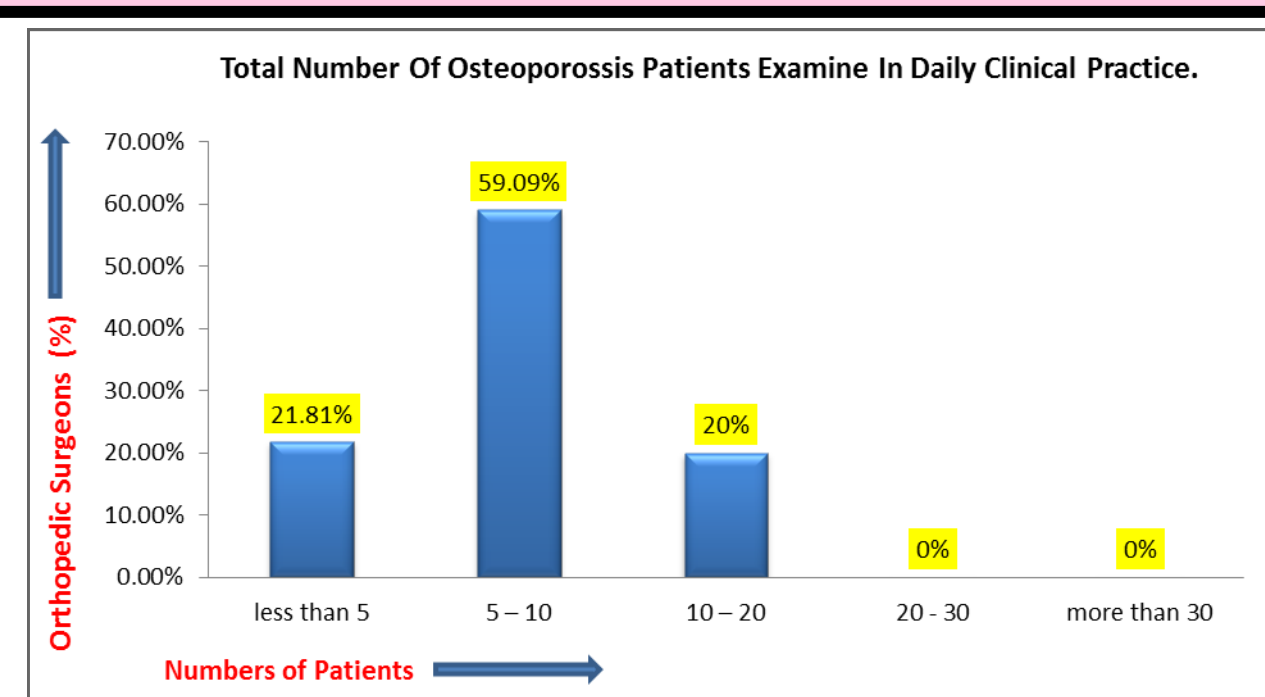
Sampling technique: The researcher used Non-Probability (Convenience) sampling to get the sample size from Chhattisgarh.

Instruments: The research main instruments for data collections were mixed ended questionnaires, unstructured interviews and secondary data collection.

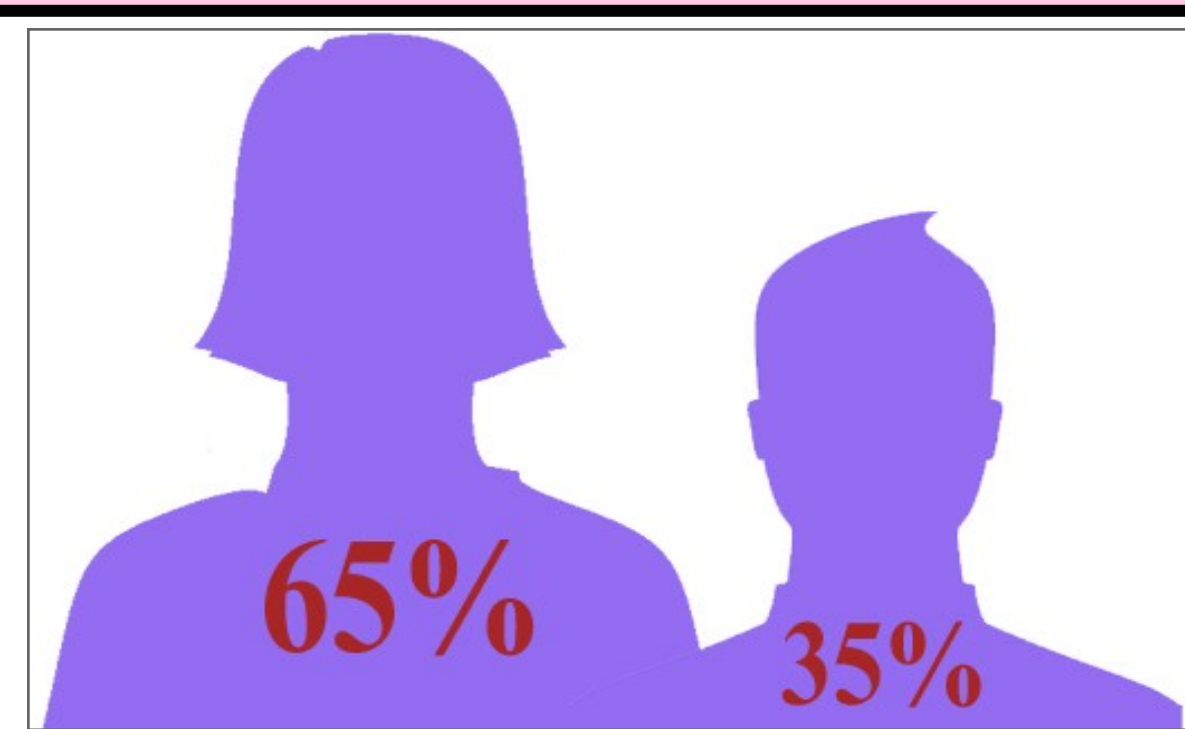
Data collection methods: The research involved data collection from primary and secondary sources. The primary data was collected through questionnaires (Mixed) and interviews. Personal interviews gave an in depth into the information and eliminated misinterpretation.

FINDINGS

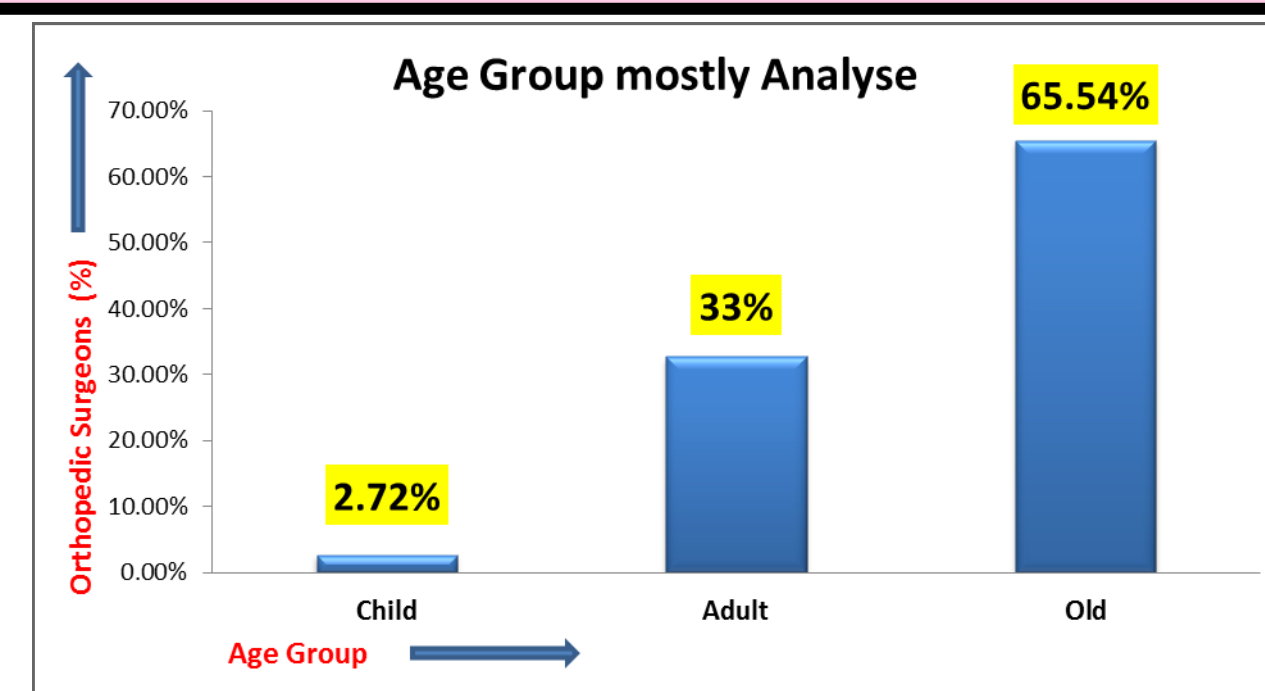
Number Of Osteoporosis Patients Examine Daily.



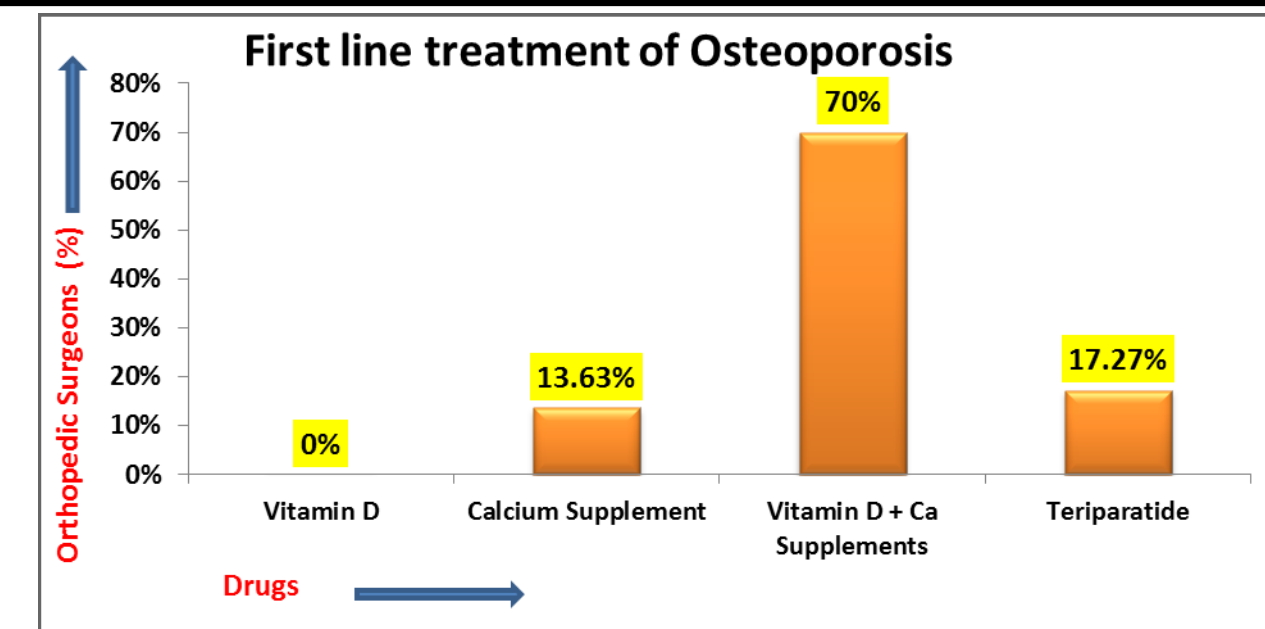
% of Gender Mostly Examine by Orthopedic Surgeons.



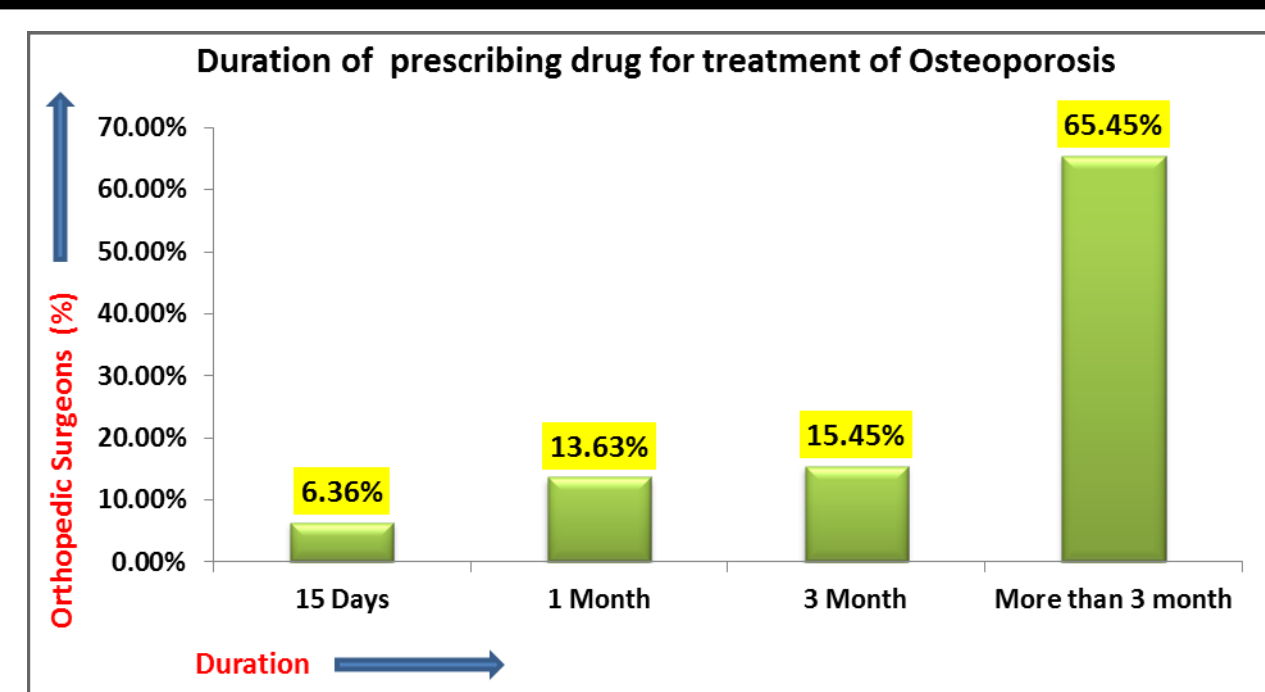
Age group mostly examine by Orthopedic Surgeons.



First line treatment of Osteo. by Orthopedic Surgeons.

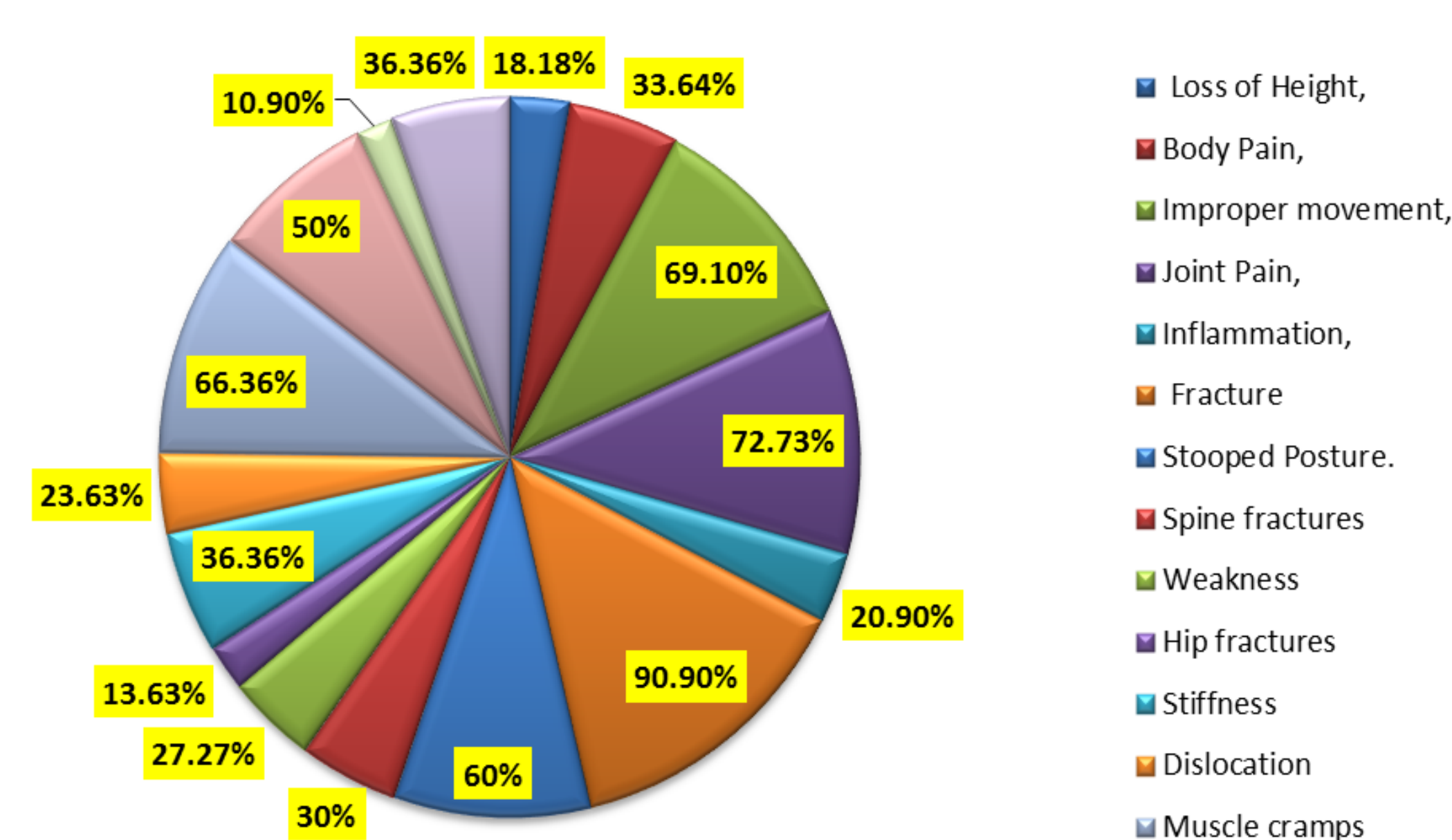


Duration of prescribing drug for Osteoporosis.

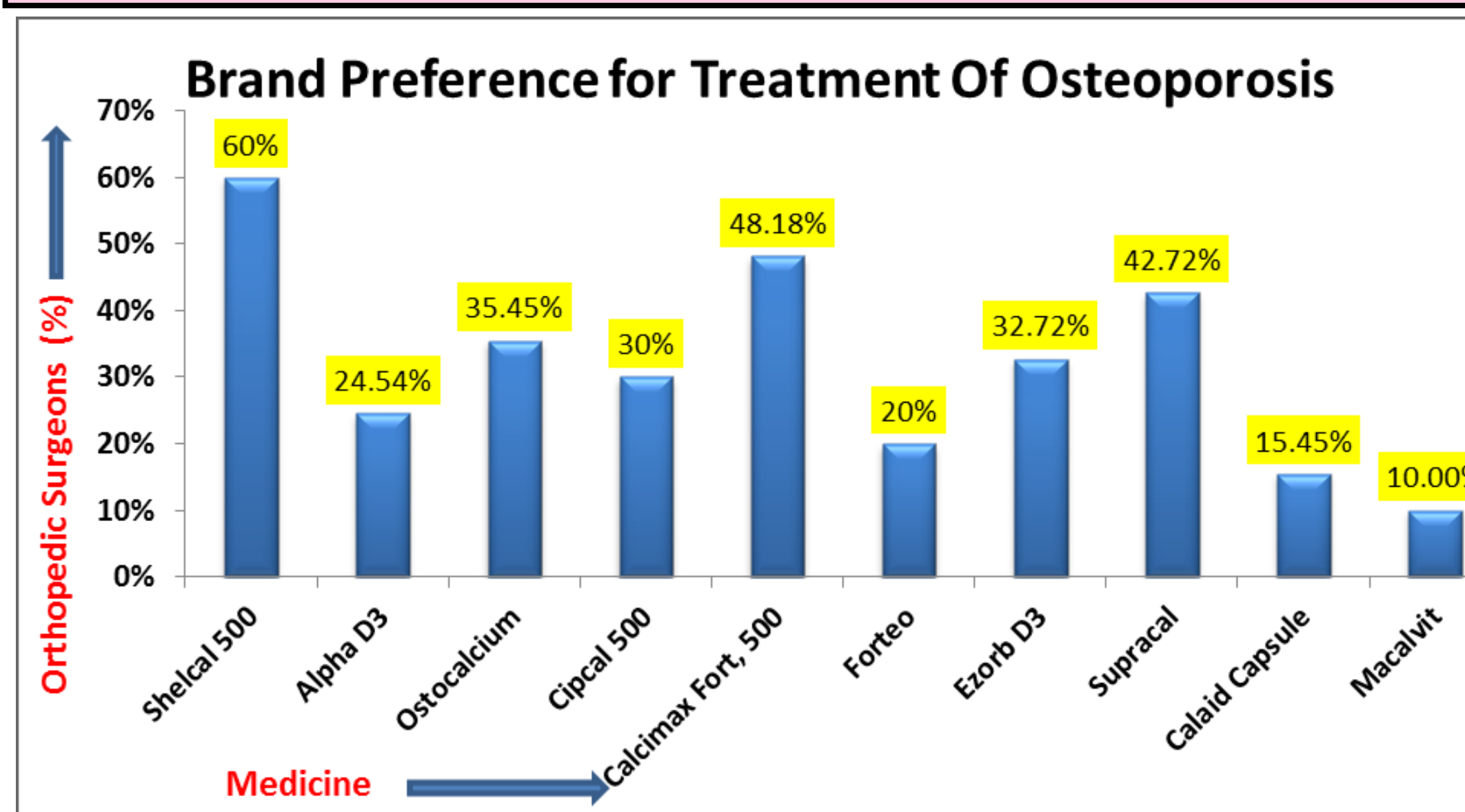


Symptoms observed in patients suffering from osteoporosis:

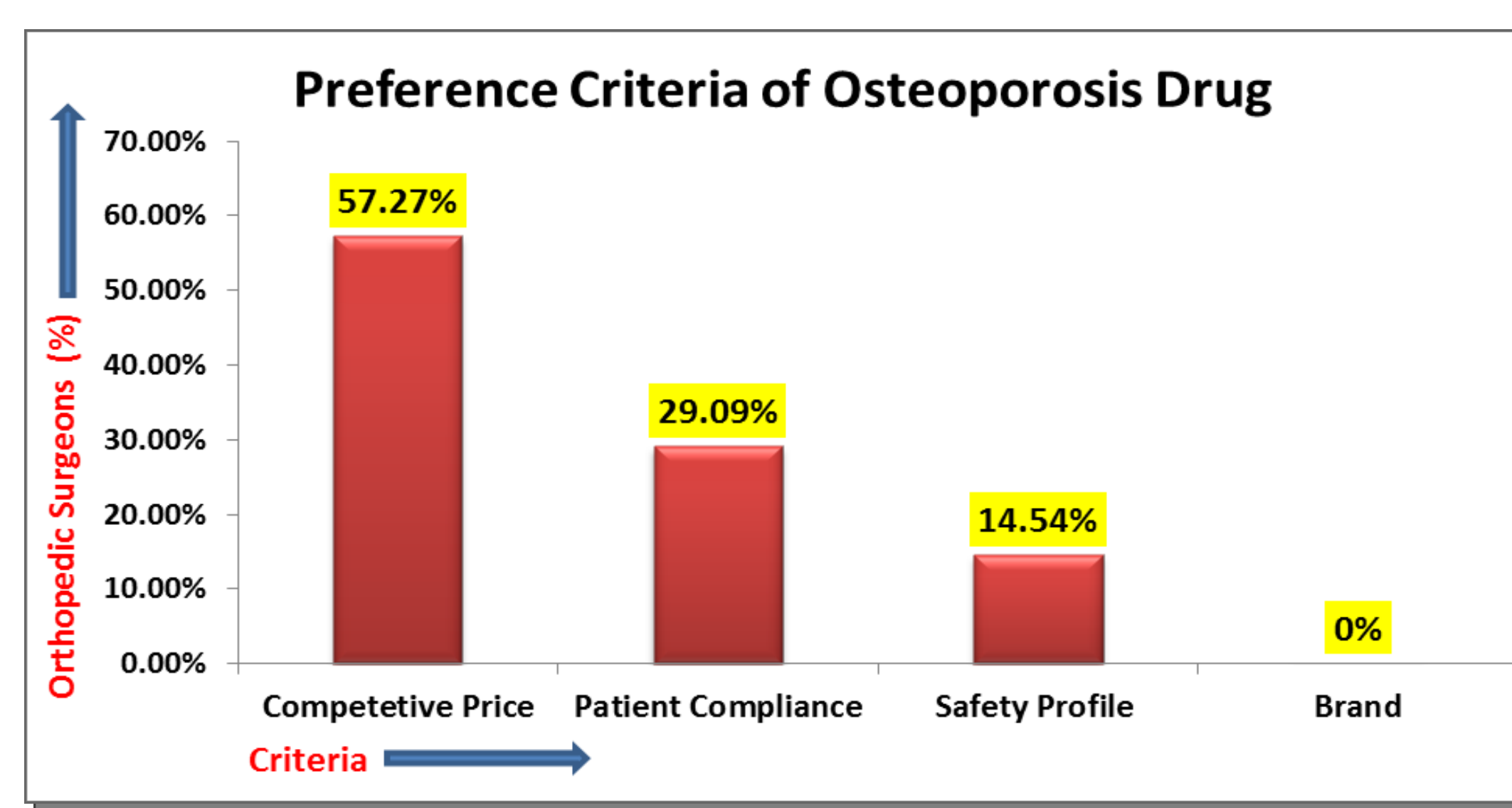
Symptoms observed in patients suffering from osteoporosis:



Brand Preference for the treatment of Osteoporosis by Orthopedic Surgeons.



Preference Criteria of Osteoporosis Drug.



CONCLUSION:

though one of the most common diseases with patient frequency 5 to 10 patient daily, mostly affecting both elderly men and women, is also one of the most neglected diseases. Lack of overt symptoms in the initial stages of the disease and unavailability of economical diagnostic tools to aid in early diagnosis, on a common treatment regime, makes the situation grim.

As more anti-osteoporosis molecules become widely available in India, it is imperative for surgeons to select appropriate therapy for their patients.

In the present study, Orthopedic Surgeons mostly prescribe calcium and vitamin D supplementation like SHELICAL, CALCIMAX and SUPRACAL in Chhattisgarh along with Calcium Supplements some of them Orthopedic Surgeons also prescribe Teriparatide like FORTEO. Orthopedic surgeons preferred economical condition and safety compliances of patient to prescribing the osteoporosis drug. Teriparatide prescribed very less because of its costly medication,

Treatment of Osteoporosis with Teriparatide is costly but more effective in cases of severe osteoporosis. Some doctors said that it shows better results. For the use of Teriparatide the factors like cost of treatment might have long term implications in the treatment of osteoporosis and thus need to be addressed.

ACKNOWLEDGEMENT:

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