

The Enablers

**“PREFERENCE OF DOSAGE FORM OF VITAMIN D3
AMONG ORTHOPAEDIC AND CONSULTING
PHYSICIAN”**

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Introduction

- Nutrient D is a fat-dissolvable nutrient that advances the assimilation of calcium, controls bone development, and assumes a job in safe capacity.
- Nutrient D is some of the time called the "daylight nutrient" since it is created in your skin considering daylight.
- Your skin produces nutrient D when it is presented to daylight. In any case, if you invest most of your energy inside or live at a high scope, you should get this nutrient from your eating regimen. Great dietary sources incorporate greasy fish, fish oils, egg yolk, spread, and liver.

VITAMIN D2(Ergocalciferol):

- Ergocalciferol, otherwise called nutrient D2 and calciferol, is a kind of nutrient D found in food and utilized as a dietary enhancement. As an enhancement it is utilized to forestall and treat nutrient D inadequacy.
- This incorporates nutrient D inadequacy because of helpless ingestion by the digestive organs or liver infection. It might likewise be utilized for low blood calcium because of hypoparathyroidism.

VITAMIN D3 (Cholecalciferol):

- Cholecalciferol, otherwise called nutrient D3 is a kind of Vitamin D which is formed by the skin when subjected to daylight; it is additionally found in certain nourishments and can be taken as a dietary supplement.
- It is utilized to treat nutrient D inadequacy and related illnesses, including rickets. Nutrient D enhancements may not be viable in individuals with serious kidney sickness.

Objective of the study:

The objective of this study is to know what is the preferred dosage form of Vitamin D3. And then to identify its market strategy to increase its sales and promotional tools.

Sample Design:

Descriptive Study

Sampling:

Non-probability convenience sampling

Sample Size:

Respondents: 200

Sample Population:

Orthopaedic doctors

Consulting Physicians

Sample Area:

Jaipur

Tools used for data collection:

Direct Questionnaire Method

Type of Questionnaire:

Structured

Type of Questions:

Closed and Open-ended

Tools used for data analysis:

MS-EXCEL

Data collection:

Primary- Primary data has been collected by the means of questionnaire.

Secondary- The secondary data has been gathered from the medical journals, literature, and internet.

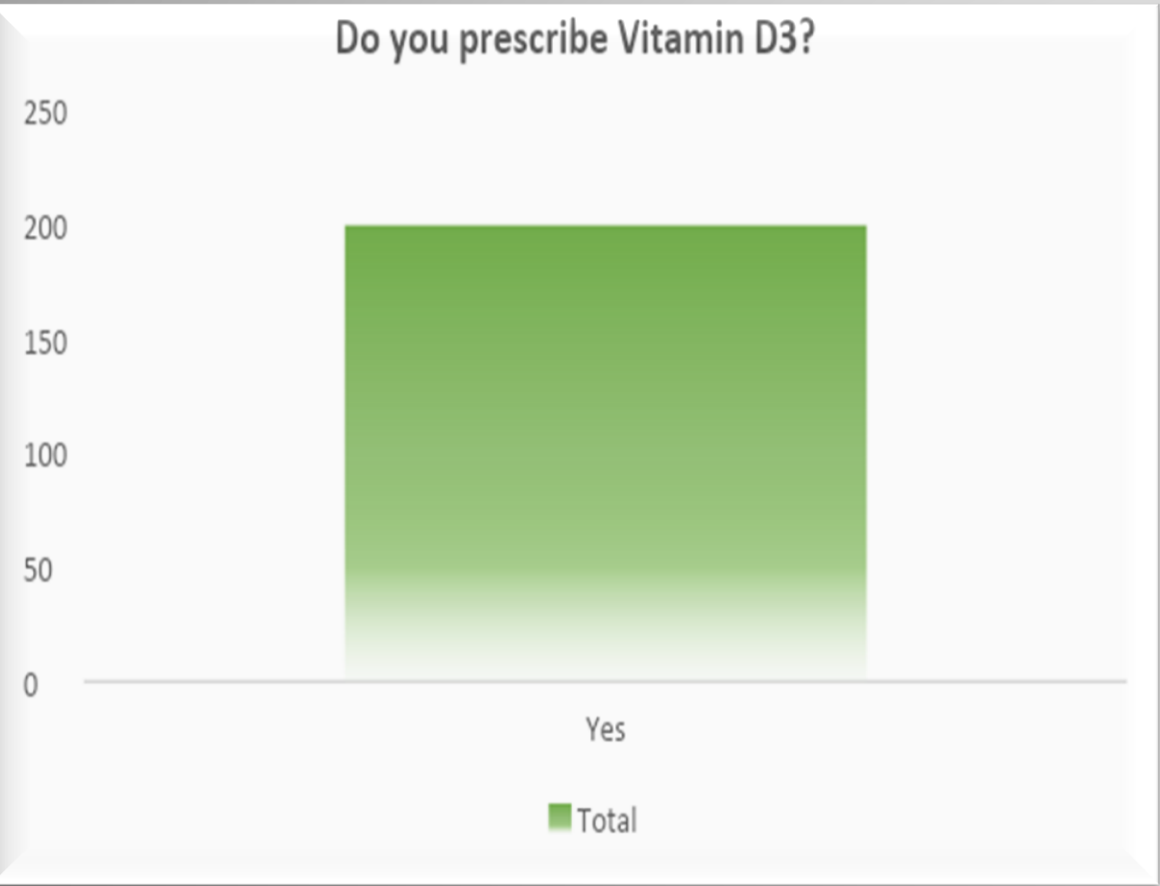
Study duration:

Two Months

Data analysis, Findings, and Interpretation:

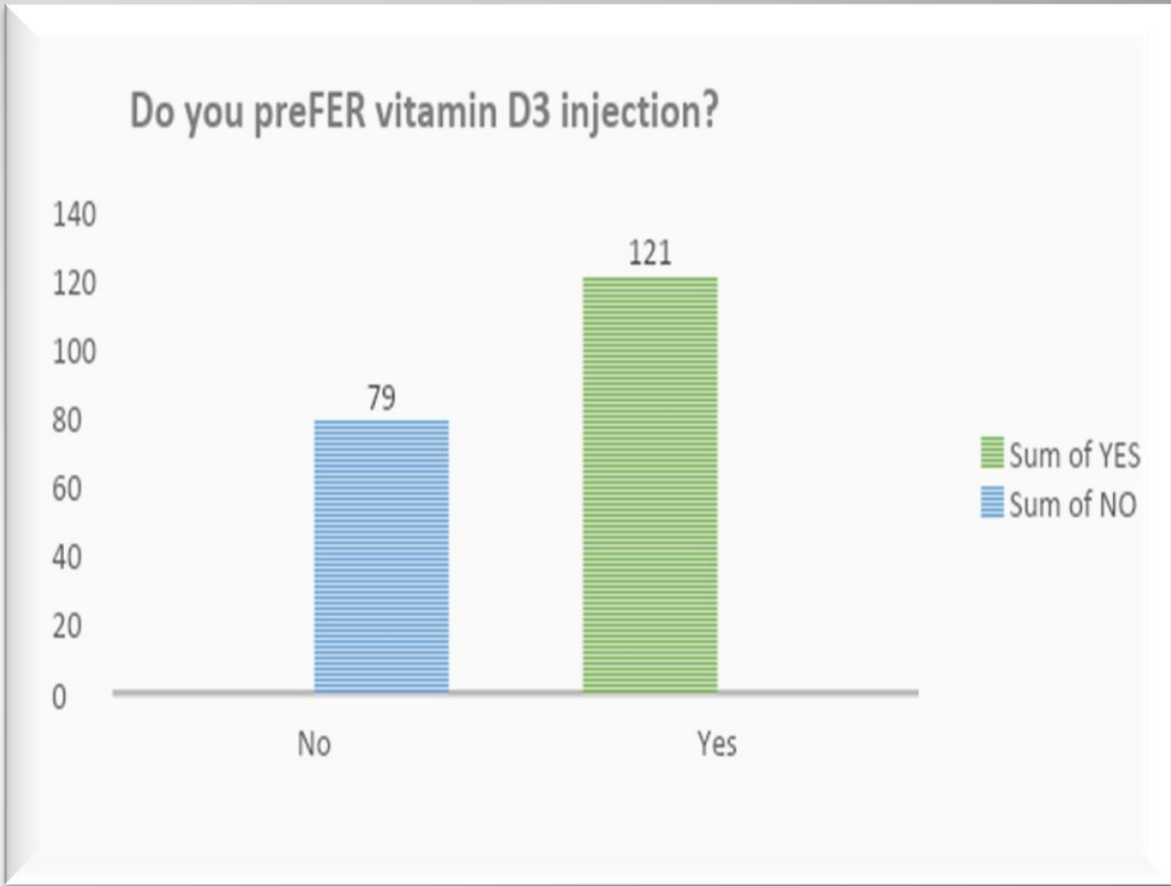
This chapter presents the report of data analysis, Interpretation, and summary of findings. As mentioned in research methodology, the study utilized descriptive statistics. Frequency tables were generated to highlight the collective scores for variables of interest. For pictorial presentation, bar graphs and charts were drawn to enable users to conceptualize the results.

Do you prescribe Vitamin D3?



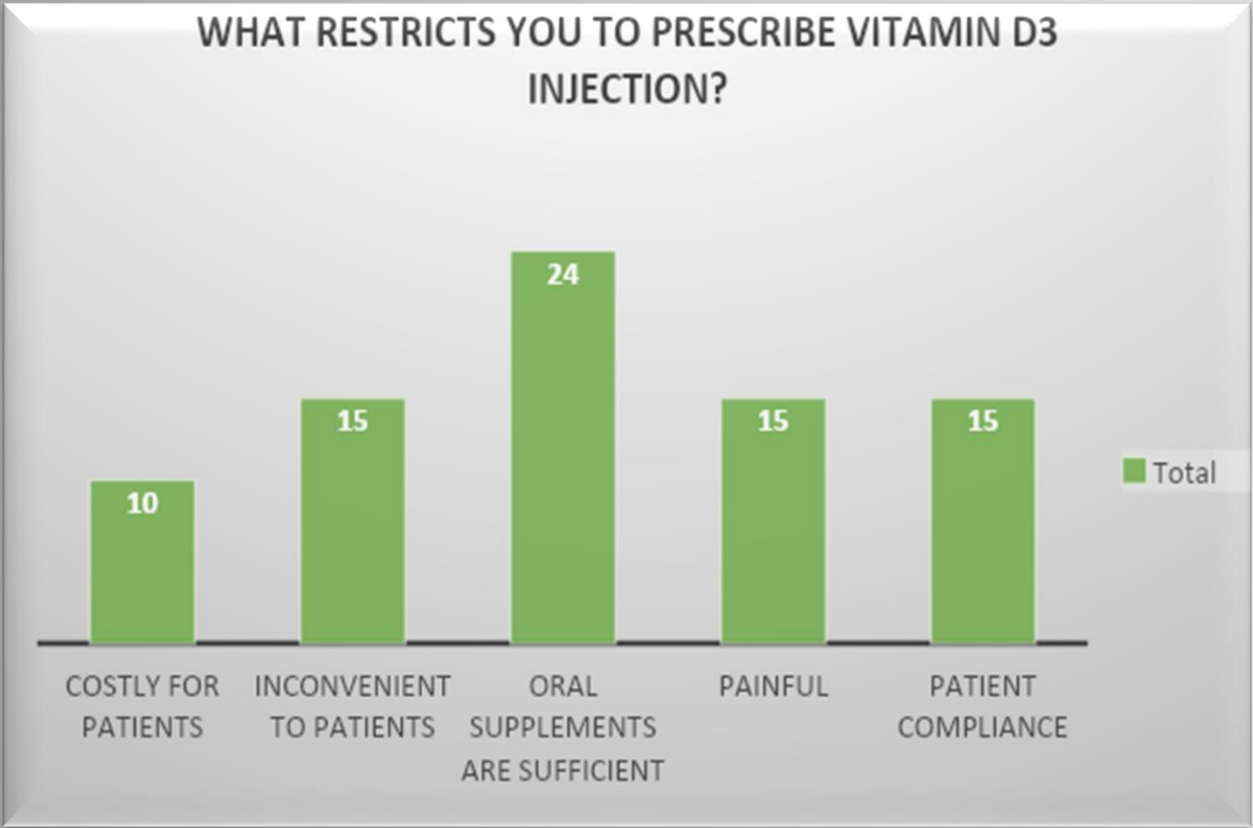
Inference: It was found from the research study that all the doctors including orthopaedic doctors and general physicians prescribe Vitamin D3.

Do you prefer Vitamin D3 Injection?



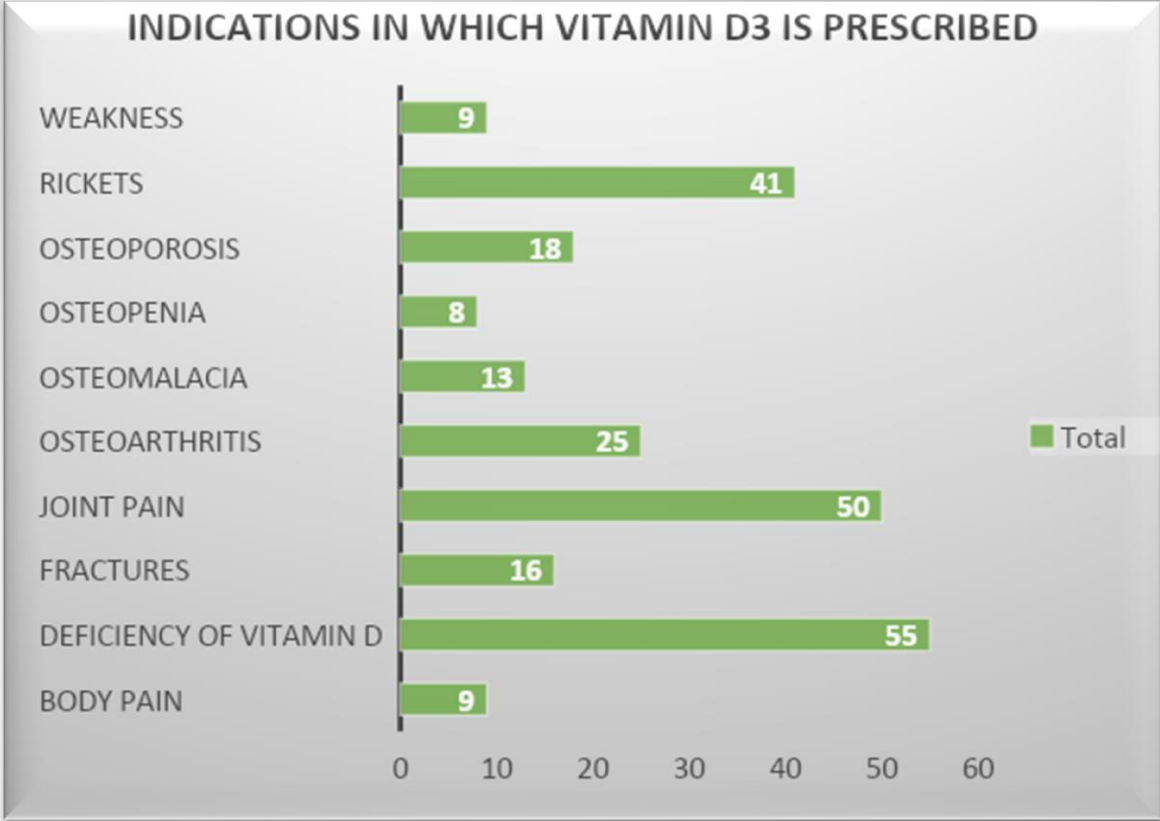
Inference: When the question was asked by the researcher to the orthopaedic doctors and general physicians about whether they prescribe Vitamin D3 injection or not, most of the doctors said they prescribe Vitamin D3 injection as they think it is effective for the patients.

If no, what restricts you to use Vitamin D3?



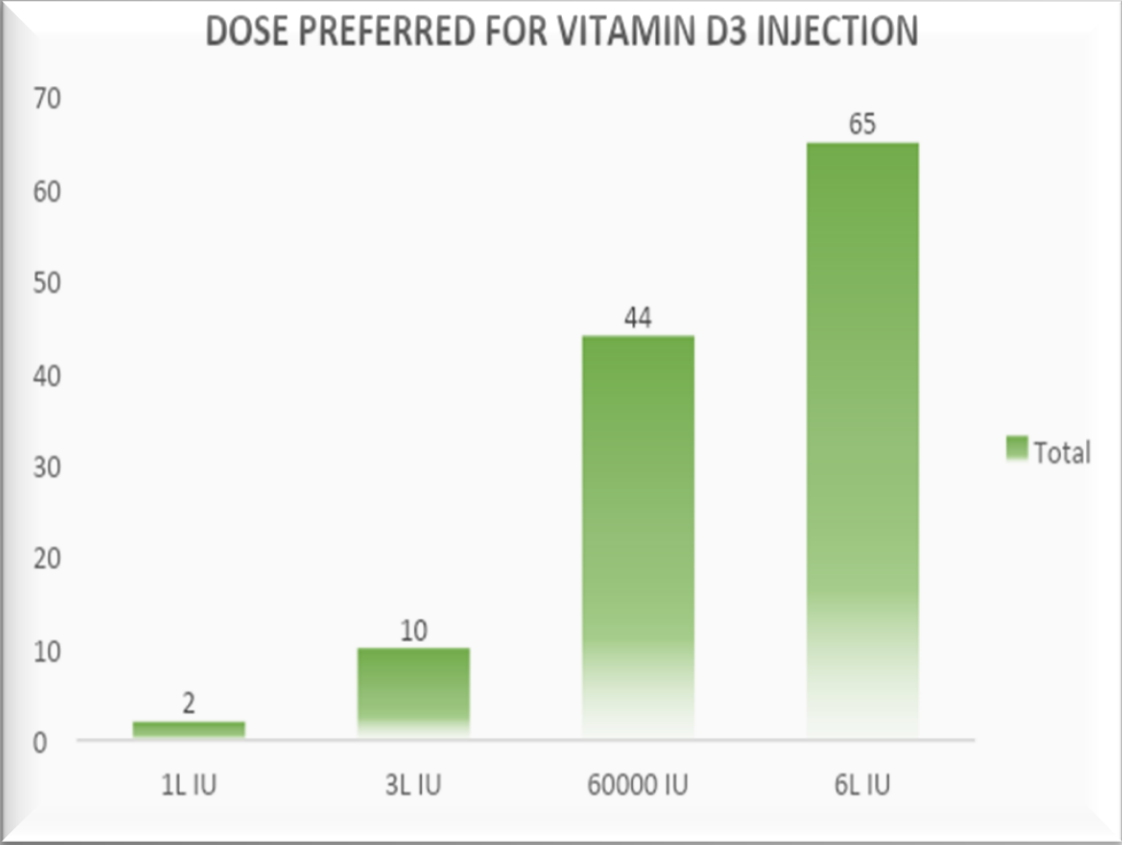
Inference: It is observed that most of the orthopaedic doctors and general physicians consider the oral supplements are good enough and show a good response in Vitamin D deficit patients and also some of the doctors agree with the fact that injections are painful to the patients and are inconvenient for them, and also injections are costly too.

What are the major indications in which you prescribe Vitamin D3 injection?



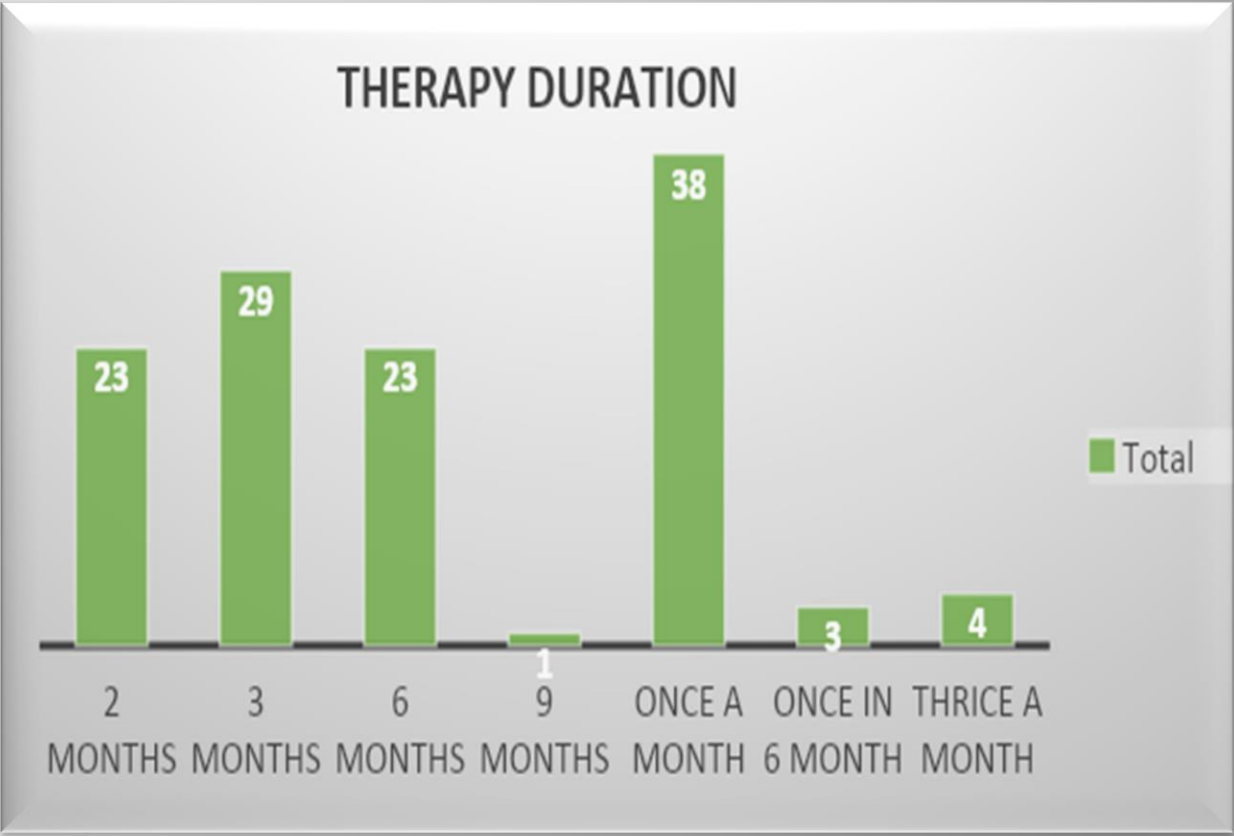
Inference: This question enlightens on all the indications in which Vitamin D3 is prescribed. Out of all the various indications mentioned above, doctors feel three major indications of Vitamin D3 deficiency i.e. Documented severe low Vitamin D3 levels, joint pain and Rickets. Indications of bone disorders such as Osteoarthritis, Osteomalacia, Osteoporosis and Osteopenia was also seen.

What dose you usually prefer for Vitamin D3 Injection?



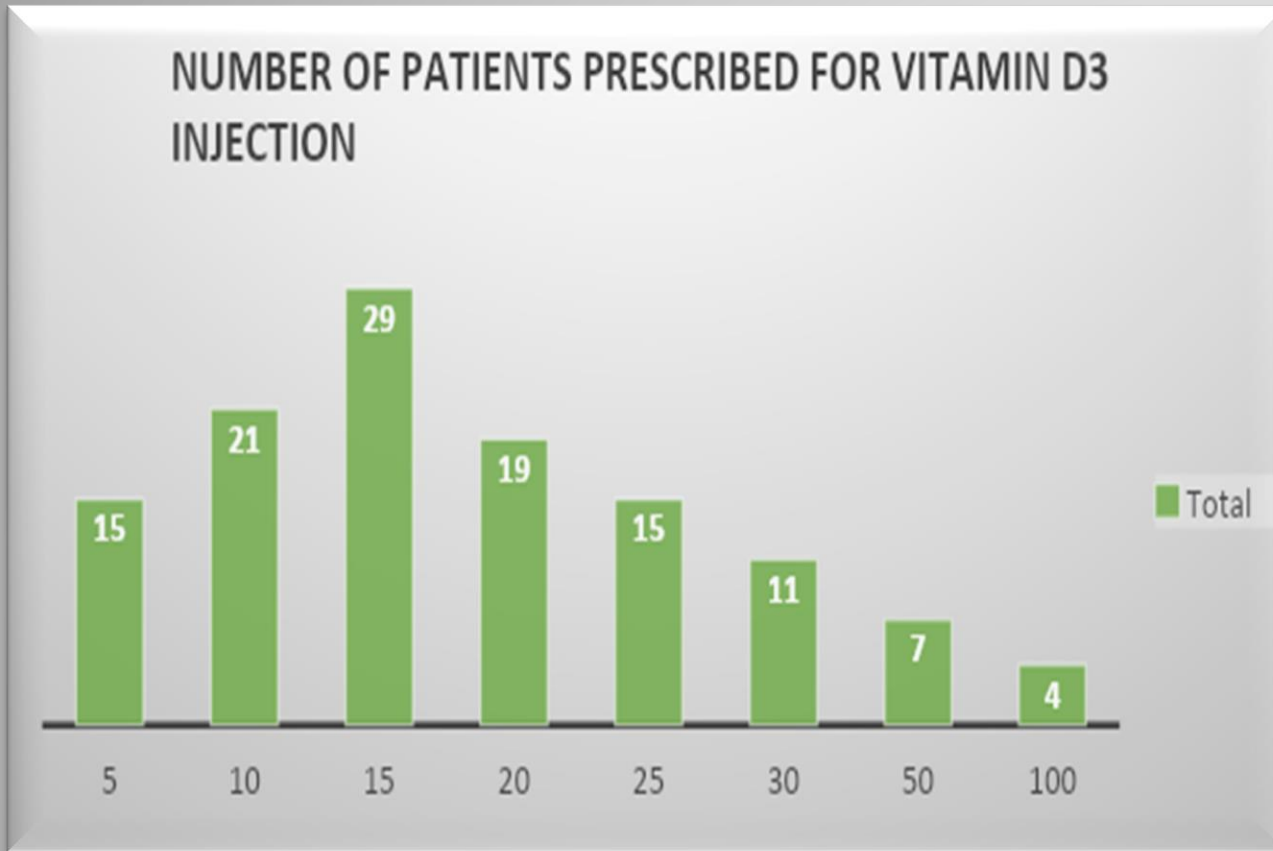
Inference: This bar graph displays the preferred dose used by orthopaedic doctors and general physicians, in which most of the doctors preferred a dose of 6L IU and 60000 IU which will help the patients recover faster.

How long do you prescribe Vitamin D3 Injection?



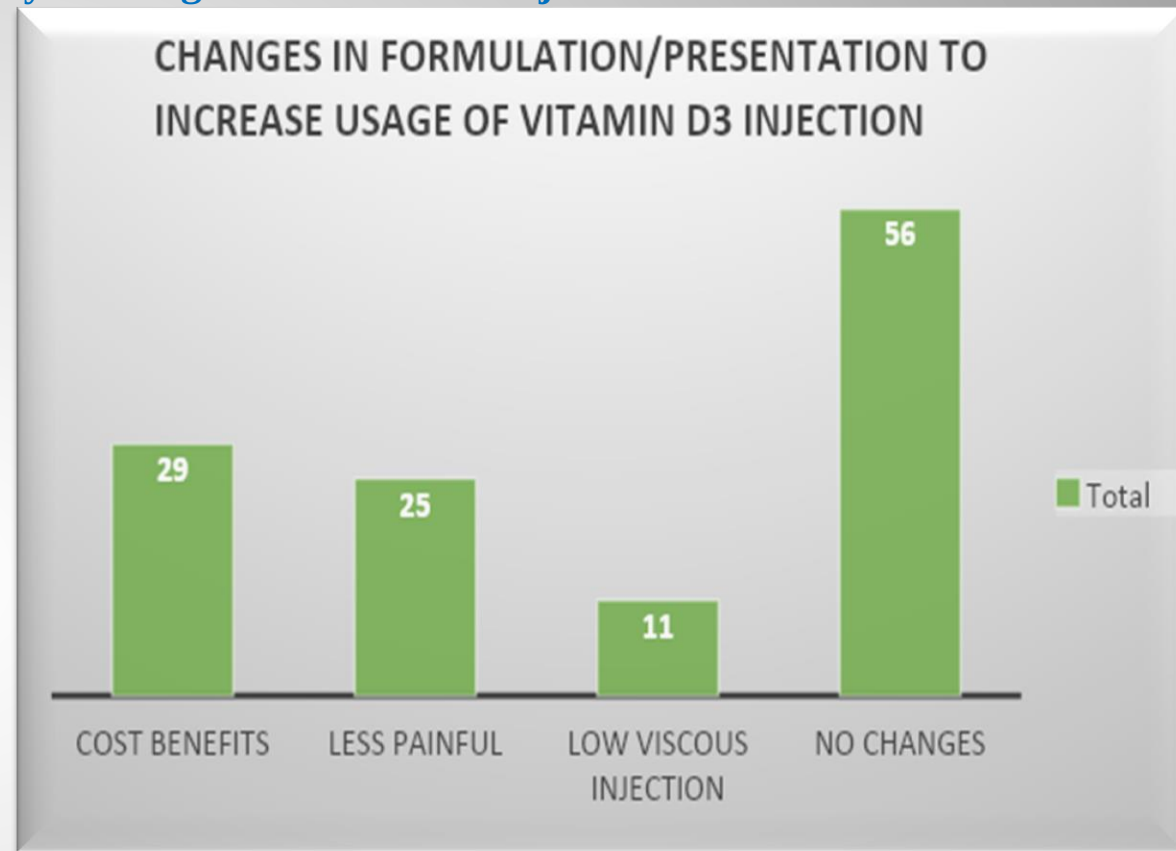
Inference: This question enlightens on the therapy duration of Vitamin D3. It was found according to the orthopaedic doctors and general physicians that Vitamin D3 injection once a month shows better and faster response in patients.

How many patients do you prescribe Vitamin D3 injection in a month?



Inference: It was found that data taken from most of the Orthopaedic doctors and general physicians have a strong prescribing base with 15 doctors per month.

What changes you want in formulation/presentation to increase your usage of Vitamin D3 Injection?



Inference: Most of the orthopaedic doctors and General Physicians did not want any changes although for some doctors' parameters like cost of the injection, low viscous injection and injections should be painless are considered.

Conclusion:

- Number of people with Vitamin D deficiency are rapidly rising.
- Vitamin D deficit is very common in all age groups.
- Vitamin D deficiency needs to be addressed with due consideration and solid act.
- The Vitamin D3 market is growing very rapidly. While prescribing Vitamin D3, many of the doctors consider patient compliance, cost parameters etc for ease of patients.

Limitations of the study:

- Due to personal attitudes, individual values and organizational policies, orthopaedic doctors and general physicians keep most of their undertaking secret.
- The researcher received minimal cooperation from some respondents. The Unavailability of target respondents due to their busy schedule during COVID-19 was a major challenge.

Doctors have also suggested the following:

- Oral supplements are showing good responses in patients.
- Overdose of Vitamin D leads to toxicity.
- Vitamin D injections are painful.

**THE JOURNEY
TOWARDS
MAKING HISTORY....**

Thank You