

# **Summer Training Report**

**By**

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"Learning the art of expressing gratitude will force you to focus on the positive."

Thanking you,

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## **Report on Summer Training**

### **INTRODUCTION-**

The current study is followed up with an objective to ensure **the acceptance and scope of Thiocolchicoside + Diclofenac injections in the Trauma/critical care unit.**

Non-Steroidal Anti-Inflammatory Drugs (NSAIDs) are among the most every now and again recommended classifications of medications worldwide in the treatment of pain and inflammation in numerous conditions. Customarily NSAIDs represent 70% of the absolute remedy for pain. NSAIDs help in easing torment in patients by blocking cyclooxygenase (COX) compounds that lead to emission of prostaglandins, which causes pain and inflammation

Thiocolchicoside + Diclofenac- are utilized in the treatment of pain because of muscle fit. Thiocolchicoside is a muscle relaxant with hostile to mitigating with pain relieving impacts. It takes a shot at the focuses in the mind and spinal rope to soothe muscle firmness or fit and improve the development of muscles (Karamursel, 2005).

Thiocolchicoside- has a particular and powerful fondness for g-aminobutyric corrosive A receptors (GABA-An) and follows up on strong contractures by powering the GABA inhibitory pathways in this manner acting as an intense muscle relaxant (Mancuso, 2018)

Diclofenac sodium- is mainly use for the drawn-out indicative treatment of rheumatoid joint pain, osteoarthritis and ankylosing spondylitis. It is additionally utilized for transient treatment of intense musculoskeletal agony, intense gout, renal and biliary colic, dysmenorrhoea and fever related with flu (Yavuz, 2017).

**Keywords-** *Thiocolchicoside, Diclofenac, Combination of D+T, Usage, Trauma and Critical care.*

### **LITERATURE REVIEW-**

**Akhter, N. and Siddiq, M. (2017).** Similar adequacy of diclofenac sodium alone and in blend with Thiocolchicoside in patients with low back torment. Clinical Forum Monthly. 28. 93-96. Objective: This investigation was led to establish that blend of a Diclofenac sodium (Akhter, 2017) and Thiocolchicoside is more successful than Diclofenac Sodium alone or not. Study Design: Observational/planned examination Place and Duration of Study: This investigation was directed at the Orthopaedics Out-Patient Department, Aziz Bhatti Shaheed Hospital, Gujrat from August 2016 to August 2017. Materials and Methods: Adult patients with intense and sub-intense low back agony was enrolled for study and was randomized in bunch An and bunch B. An example of 288 patients, 144 patients in every treatment bunch was gathered by

purposive examining procedure. Results: Group A got Diclofenac sodium 75mg two times each day for 7 days and gathering B got Diclofenac sodium 75mg twice day by day in addition to Thiocolchicoside 4mg twice day by day for 7 days. On the day 0 then on the day 3 and day 7, Conclusion: Combination of Thiocolchicoside and Diclofenac sodium was end up being more compelling than Diclofenac sodium alone for the indicative treatment of low back torment, and the blends was likewise very much endured (GOMEZ, 2018).

**M. Artusi et. al.** contemplated the conveyance of thiocolchicoside through oral mucosa to improve the bioavailability. They examined in vitro penetration through porcine oral mucosa and in vivo buccal vehicle in people. They planned two measurement types of thiocolchicoside, a bioadhesive plate and a quick dissolving circle for buccal and sublingual organization, individually. They assessed the in vitro penetration of thiocolchicoside through porcine buccal mucosa from these measurement frames and contrasted and in vivo ingestion. Results from in vitro contemplates exhibited that thiocolchicoside is very porous over porcine buccal mucosa and that pervasion enhancers, for example, sodium taurocholate and sodium taurodeoxycholate, couldn't increment its motion. The in vivo thiocolchicoside assimilation tests, in which he medication misfortune from oral depression was estimated, demonstrated that both details could be helpful for restorative application (towery, 2017).

Osteoarthritis (OA) is one of the most widely recognized reasons for joint torment in the United States and non-steroidal enemy of inflammatory (NSAIDs, for example, Diclofenac sodium, which is right now accessible in two principle courses of organization; oral and skin dissemination have been built up as one of the standard medicines for OA. By and large, oral NSAIDs are very much endured; anyway our story survey proposes that the effective arrangement had a superior decency property than oral Diclofenac sodium, particularly because of symptoms of gastrointestinal seeping with the use of the oral configuration (Davani, 2017).

Thiocolchicoside has for quite some time been utilized as a muscle relaxant, in spite of an absence of demonstrated viability past the misleading impact. Its compound structure comprises of colchicine, a sugar (ose) and a sulfur-containing radical (thio), and its antagonistic impacts are consequently liable to be like those of colchicine. Utilizing the standard Prescrire technique (Rasati, 2012), we looked into the accessible information on the antagonistic impacts of thiocolchicoside. Liver injury, pancreatitis, seizures, platelet issues, extreme cutaneous issues, rhabdomyolysis and regenerative issues have all been recorded in the French and European pharmacovigilance databases and in the intermittent updates that the organizations concerned submit to administrative offices (Sechi, 2001).

### **STUDY OBJECTIVE-**

I conducted the present study to find out whether they (Doctor) will prefer injection of Thiocolchicoside with Diclofenac Yes or Not? If Yes/No why?

Find out whether Doctor prefer aqueous base injection of oil base injection? Uses of Diclofenac or Thiocolchicoside injection per month?

## **RESEARCH METHODOLOGY-**

**Type of research:** - Descriptive

**Data collection:** - Primary data will be received by the respondents during questionnaire and secondary data will be collected from published journals, literature and reference books. Besides this, statistical information will also be assessed in research study.

**Duration:** - 2 Months

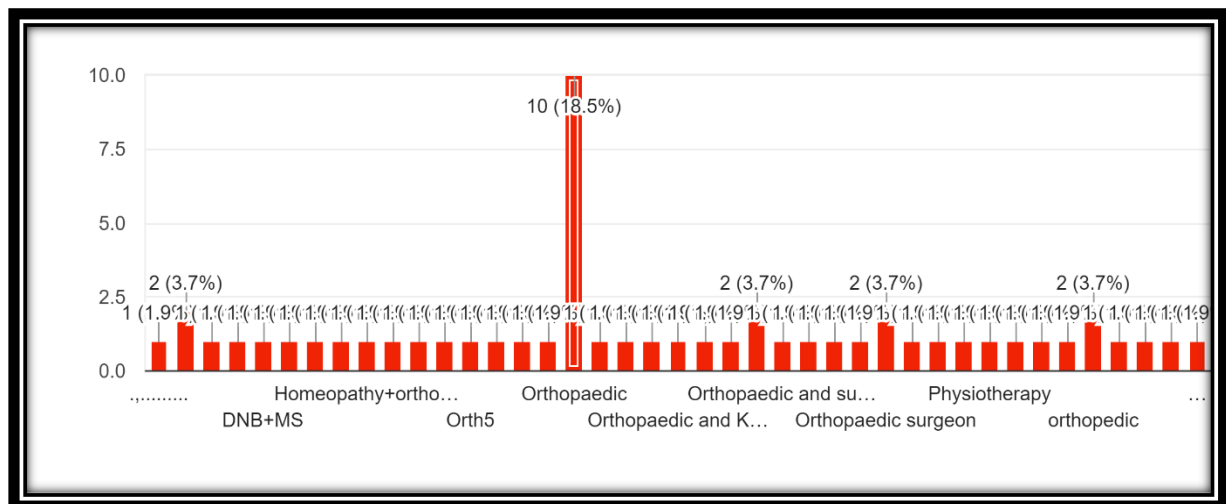
**Sample size:** - 200 Doctors

**Location:-** Pan India

**Data analysis:** - The data analysis in present study will be done by using simple statistical tools. In this study, appropriate statistical tool is **Microsoft Excel and Google Form.**

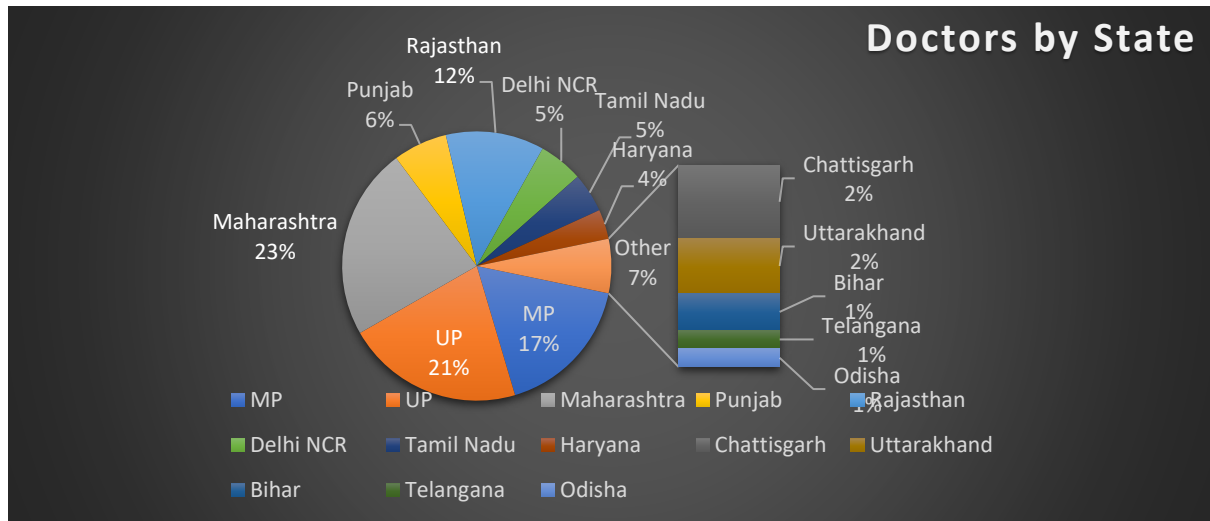
## **DATA INTERPRETATION AND ANALYSIS-**

### **1. Speciality:**



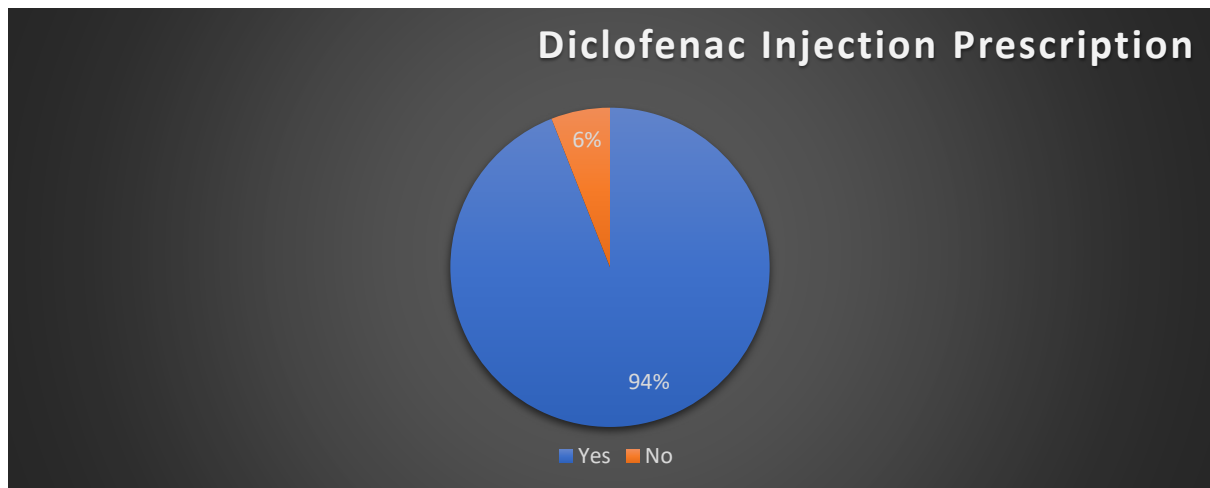
**Analysis:** This survey form sent to mainly Orthopaedic, Orthopaedic surgeon, DNB+MS. According to the graph Orthopaedic are more interested in given response rather than others.

## 2. Place:



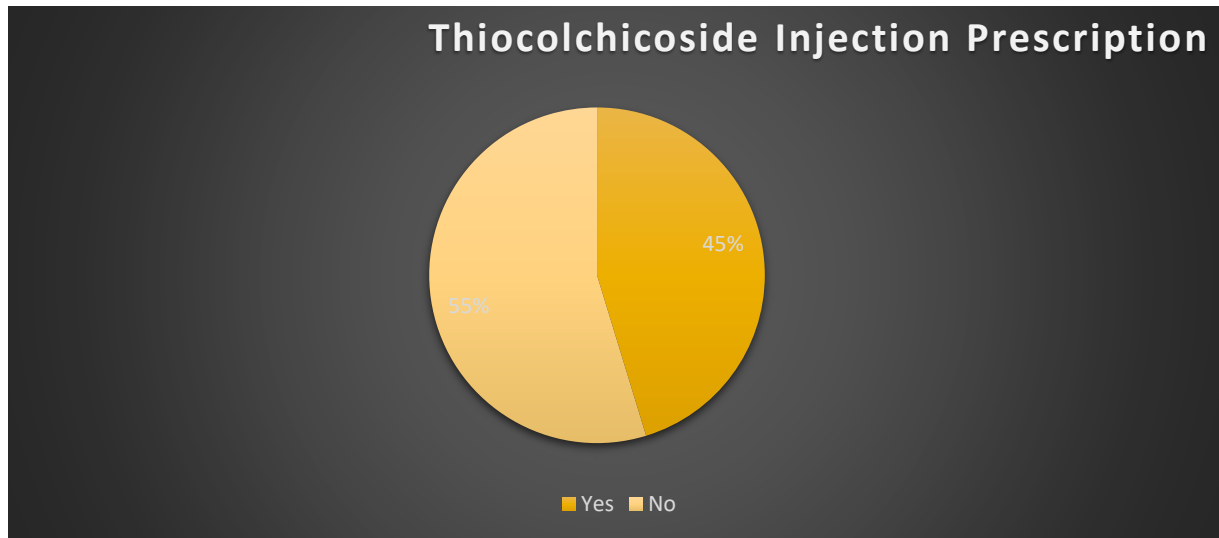
**Analysis:** For the survey this questionnaire sent to Pan India's Doctors. Out of which 200 Doctors given their responses who belongs from given states.

## 3. Diclofenac injection Prescription:



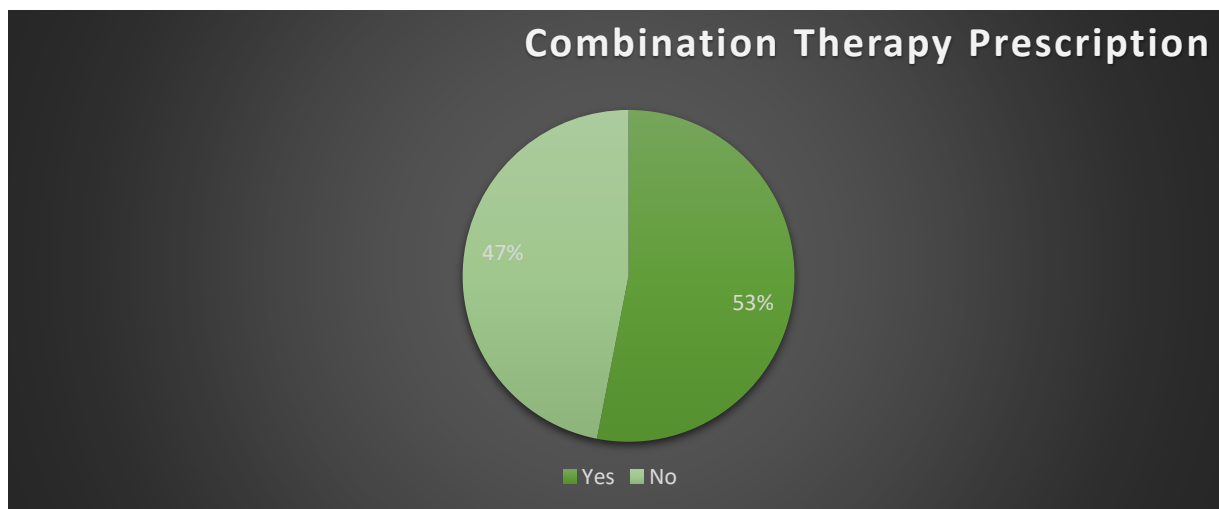
**Analysis:** The pie chart shows clearly that Diclofenac injection prescribe by 94% Doctors of the sample size. Only 6% Doctors does not prefer to prescribe Diclofenac injection.

#### 4. Thiocolchicoside injection Prescription:



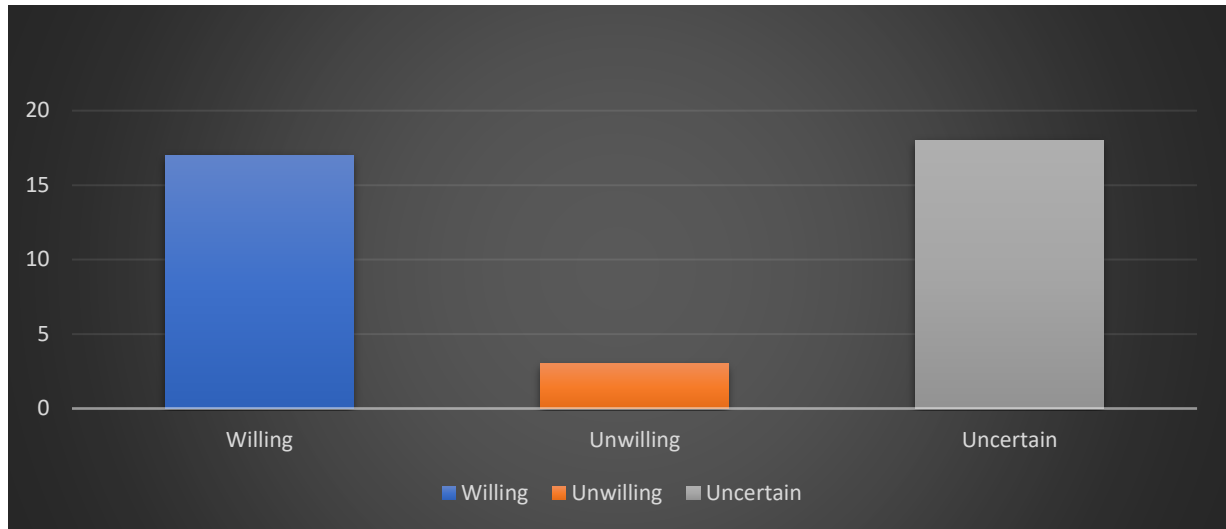
**Analysis:** This graph shows that 45% Doctors prescribe Thiocolchicoside injection but on the side 55% Doctors does not prescribe this injection because it has side effects.

#### 5. Combination Therapy Prescription:



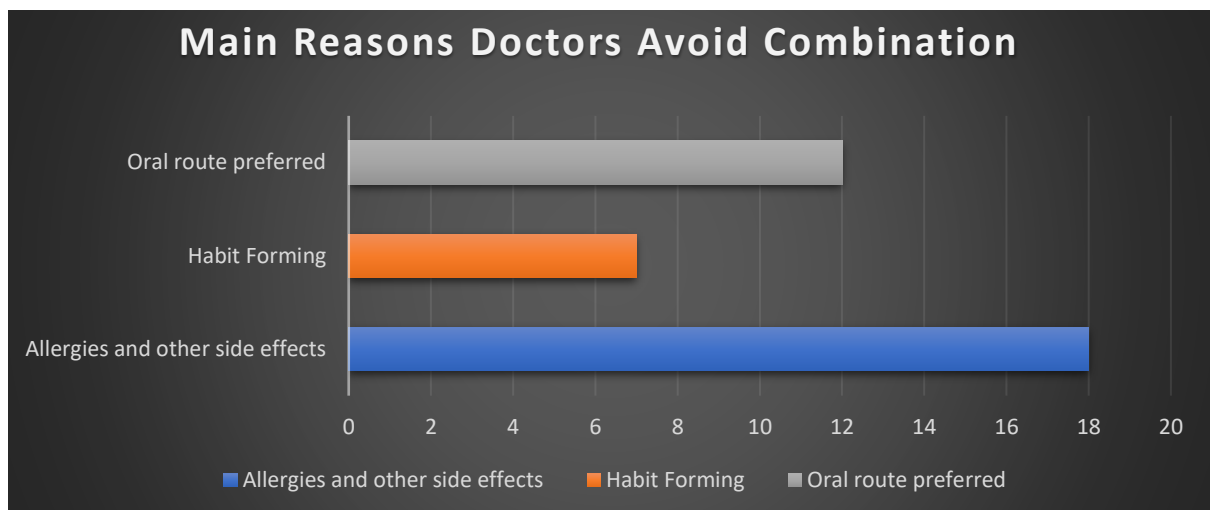
**Analysis:** This pie chart says that 47% Doctors prescribe the combination of Thiocolchicoside and Diclofenac injection. On the other hand, 53% Doctors does not prefer to prescribe the combination in injection form because its combination is available in oral form and injection does not suitable for every age group.

**6. If new brand come up with same combination, will Doctor prescribe it:**



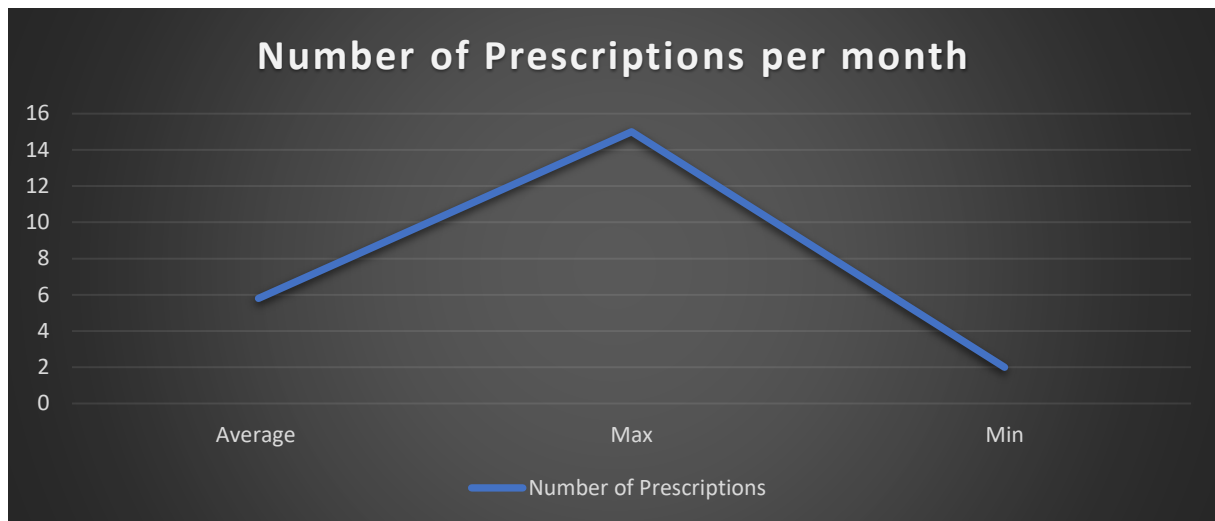
**Analysis:** 20% Doctors agree on that if they have any other brand with same combination, they will like to prefer that. But 70% Doctors are not sure about it while 10% clearly denied to prescribe it.

**7. Main Reasons Doctors Avoid Combination:**



**Analysis:** Most of the Doctors avoid this combination mainly because of its side effects and allergies effects. Injections are least preferred doses form. Most of the patient like to have oral doses form rather than injection. Some of the respondents also believe that this combination is habit forming.

#### 8. Number of Prescriptions per month:



**Analysis:** This graph shows that number of prescriptions, according to this graph average 10-15 injections are prescribed by doctors per month.

#### **RESULT-**

The survey was conducted in pan India during April 2020 to July 2020. These include 200 doctors.

All respondents are specialised. some are Orthopaedic surgeon and some are DNB+MS. According to this survey 94% of Doctors like to prescribe Diclofenac injection. A very small ration (6%) of Doctors denied to prescribe Diclofenac injection.

When we look towards the opinion of Doctors on Thiocolchicoside, is totally different. 45% of the Doctors agree that they prescribe it but 55% doctors do not prefer to prescribe Thiocolchicoside because of its adverse effects. Also, the combination therapy of Diclofenac + Thiocolchicoside injection is not popular. Half of the Doctors (53%) refused the use of this combination. Also, if there any other brand manufacture same combination 70% of the Doctors will not prefer to prescribe this combination only 20% Doctors said that may be, they can prescribe. Most of the Doctors avoid this combination mainly because of its side effects and allergies effects.

Injections are least preferred doses form. Most of the patient like to have oral doses form rather than injection. Some of the respondents also believe that this combination is habit forming. According to this survey only 10-15 injections are prescribed by Doctors.

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## ANNEXURE-

### FINDOUT ACCEPTANCE AND SCOPE OF THIICOLCHICOSIDE + DICLOFENAC INJECTION IN TRAUMA/CRITICAL CARE UNIT

Dr Name ..... Speciality .....

Qualification..... Place.....

#### Questions:

1. Do you prescribe Diclofenac Injection? Yes ☐ No ☐

If No – Reason

2. Do you prescribe Thiocolchicoside Injection? Yes ☐ No ☐

If no- Reason

3. Do you prescribe Thiocolchicoside + Diclofenac Injection?

Yes ☐ No ☐

If no- Question 4 & 8, If Yes- Question 5.

4. What restricts you to use Thiocolchicoside + Diclofenac injection?

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5. What are the major indications in which you prescribe Thiocolchicoside + Diclofenac Injection?

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6. How many patients do you prescribe Thiocolchicoside + Diclofenac Injection in a month?

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7. Will you prefer combination of thiocolchicoside + diclofenac injection, if in near future a new brand will launch with same combination?

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8. Any other comments/suggestions:

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