



Summer Project

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MBA PM 12

Research Topic

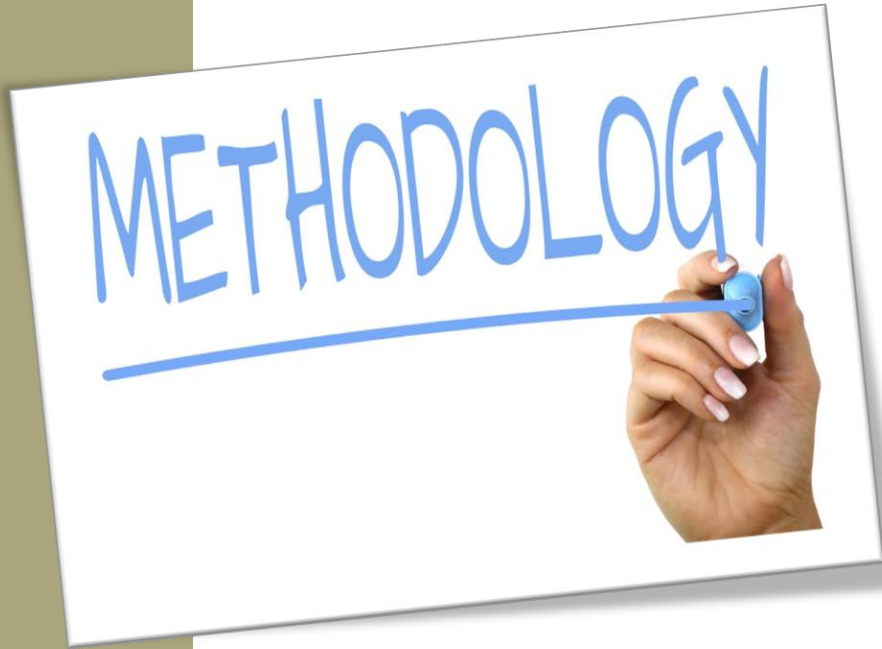
- **PREVALENCE OF ASTHMA IN RAJGARH DISTRICT, M.P., A COMPARATIVE ANALYSIS OF COST OF CURATIVE AND SUPPORTIVE MEDICATIONS USED IN ASTHMA AND PRESCRIBING STANDARDS AUDIT**





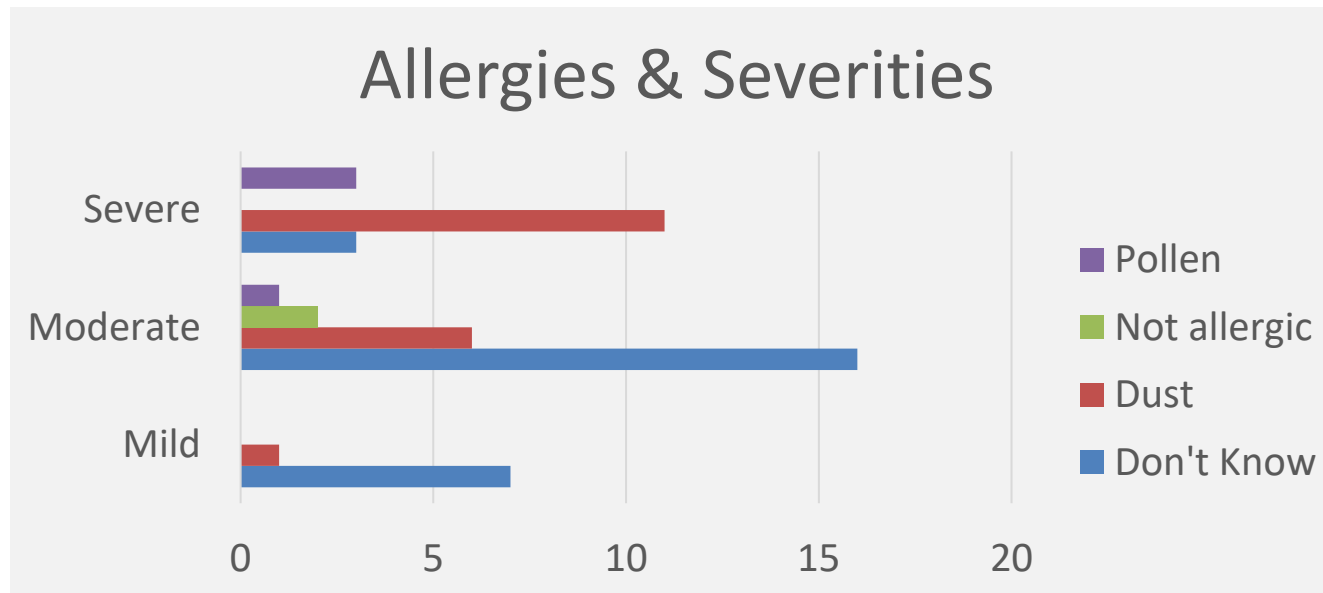
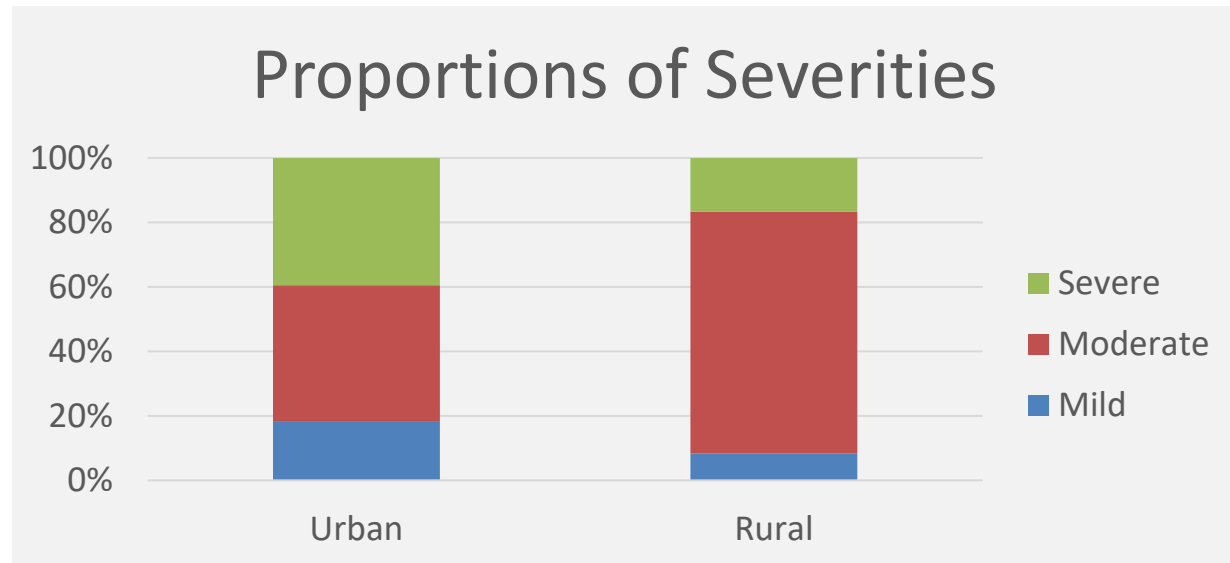
Objectives

- To derive the prevalence of asthma in the Rajgarh District of MP with respect to other cities with higher prevalence.
- To find the medicines used in Asthma for curative treatment and supportive medication.
- To assess the variation in the cost of treatment used in curative treatment and supportive medication.



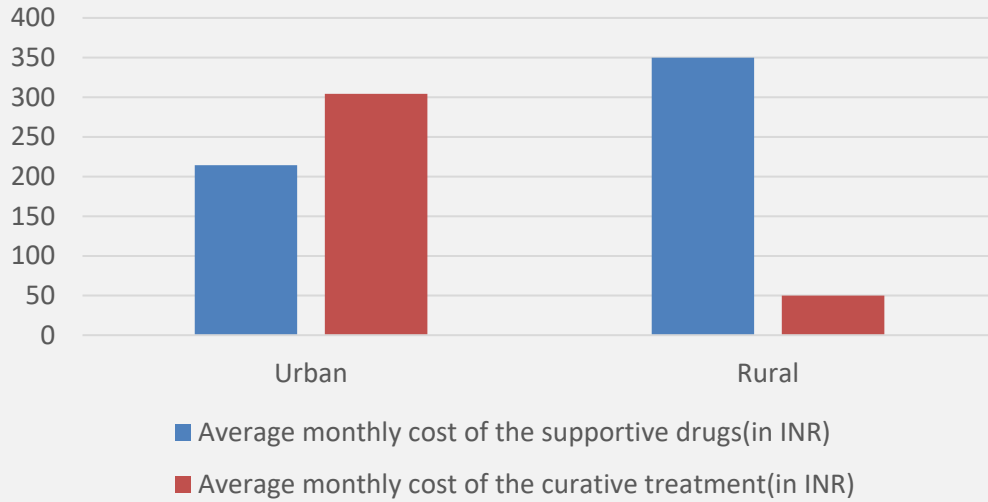
- Data collection via Semi-structured questionnaires
- Sample size- 50 Prescription
- Purposive Sampling
- Primary and secondary data.
- Inclusion criteria- Asthma Patient's prescriptions were only considered from Rajgarh District, MP

Results

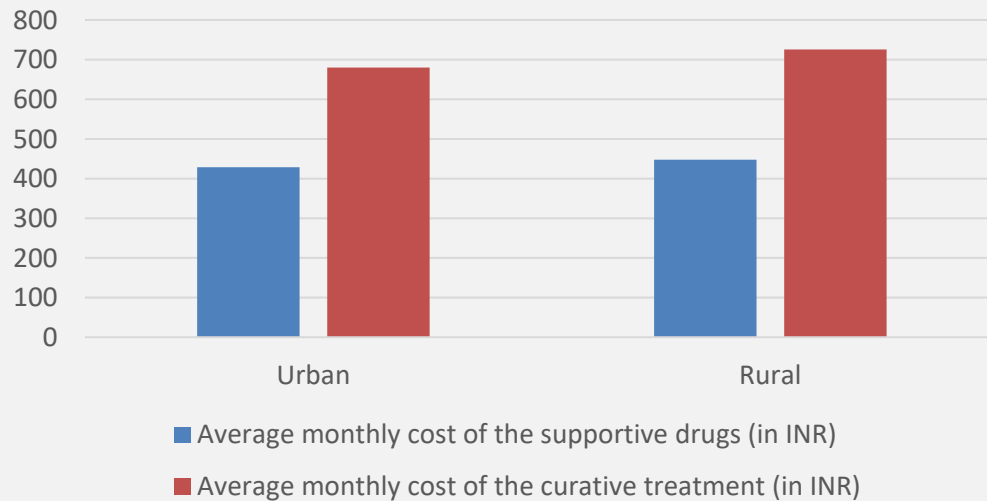


Difference between Average Monthly Cost of Supportive and curative treatment

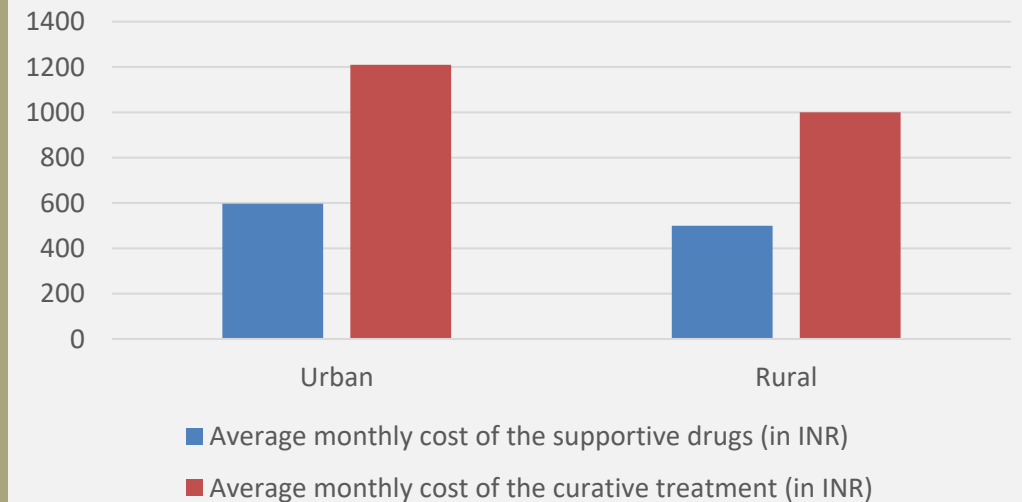
Average Monthly Costs for Mild Asthma



Average Monthly Costs for Moderate Asthma



Average Monthly Costs for Severe Asthma



Drugs used in Mild Asthma

Curative Drugs

Salbutamol

Ambroxol + Levosalbutamol
+ Guaifenesin

Levosalbutamol

Montelukast +
Levocetirizine

Montelukast + Fexofenadine

Doxofylline + Guaifenesin +
Terbutaline + Bromhexine

Budesonide

Supportive Drugs

Cefpodoxime

Cefixime

Roxithromycin

Guaifenesin + terbutaline +
Bromhexine

Phenylephrine +
Chlorpheniramine +
Dextromethorphan

Lansoprazole

Pantoprazole

Mefenamic acid + Paracetamol

Chlorpheniramine +
phenylephrine

Curative Drugs-

Bronchodilators like, β_2 Sympathomimetics and methylxanthines, leukotriene antagonists, H₁ antagonists and inhalational corticosteroids

Supportive Drugs-

Antibacterial agents, anti-tussive agents, H₁ antagonists, proton pump inhibitors, NSAIDs, etc.

Curative Drugs-
β₂ sympathomimetics, methylxanthines, leukotriene antagonists, inhalational corticosteroids and H₁ antagonists

Supportive Drugs-
Antibacterial agents, antitussives, NSAIDS, anticold combinations, antihistamines, proton pump inhibitors, etc.

Drugs used in Moderate Asthma	
Curative Drugs	Supportive Drugs
Levosalbutamol	Roxithromycin
Montelukast + fexofenadine	Cefpodoxime
Ambroxol + Levocetirizine + Montelukast	Amoxycillin + Clavulanic Acid
Montelukast + Levocetirizine	Roxithromycin + Ambroxol
Theophylline	Cefixime
Budesonide	Levofloxacin
Etofylline + Theophylline	Amoxicillin + Clavulanic Acid
Levosalbutamol + Beclomethasone	Ciprofloxacin
Montelukast + Levocetirizine + Acebrophylline	Phenylephrine
Bilastine + Montelukast	Pantoprazole
Salbutamol	Paracetamol
Etophylline +Theophylline	Domperidone + Pantoprazole
Doxofylline	Rabeprazole
Ambroxol + Levosalbutamol + Guaifenesin	Chlorpheniramine + Phenylephrine + Dextromethorphan
Acebrophylline	Nimesulide + Paracetamol
Guaifenesin + Terbutaline + Bromhexine	Mefenamic Acid + Paracetamol
Formoterol + Budesonide	Pantoprazole + Domperidone
Fluticasone + Levosalbutamol	Chlorpheniramine
	Dextromethorphan
	Chlorpheniramine + Dextromethorphan
	Ibuprofen + Paracetamol
	Ambroxol + Cetirizine + Dextromethorphan + Guaifenesin + Phenylephrine
	Chlorpheniramine + Phenylephrine + Paracetamol + Sodium Citrate

Drugs used in Severe Asthma

Curative Drugs

Etofylline + theophylline

Theophylline

Montelukast + Fexofenadine + Acebrophylline

Levosalbutamol + Beclomethasone

Bilastine + Montelukast

Formoterol + Budesonide

Salbutamol

Bilastine

Montelukast + Fexofenadine

Ambroxol + Montelukast + Levocetirizine

Salmeterol + Fluticasone

Deflazacort

Acebrophylline

Fexofenadine + Montelukast

Fluticasone + Salmeterol

Montelukast + Levocetirizine

Montelukast + Levocetirizine + Ambroxol

Fluticasone

Ambroxol + Guaifenesin + Terbutaline

Ambroxol + Levosalbutamol + Guaifenesin

Formoterol + Fluticasone

Fluticasone + Levosalbutamol

Levosalbutamol

Budesonide

Supportive Drugs

Levofloxacin

Moxifloxacin + Cefixime

Cefixime

Pantoprazole

Amoxicillin + Clavulanic Acid

Cefpodoxime

Magaldrate + Simethicone

Rabeprazole + Domperidone

Omeprazole + Domperidone

Roxithromycin + Ambroxol

Pantoprazole + Domperidone

Paracetamol

Ambroxol + Cetirizine + Dextromethorphan +
Guaifenesin + Phenylephrine

Nimesulide + Paracetamol

Esomeprazole + Domperidone

Deflazacort

Sodium Picosulfate + Liquid Paraffin + Milk of
Magnesia

Ambroxol + Dextromethorphan + Phenylephrine +
Chlorpheniramine + Menthol

Curative Drugs-

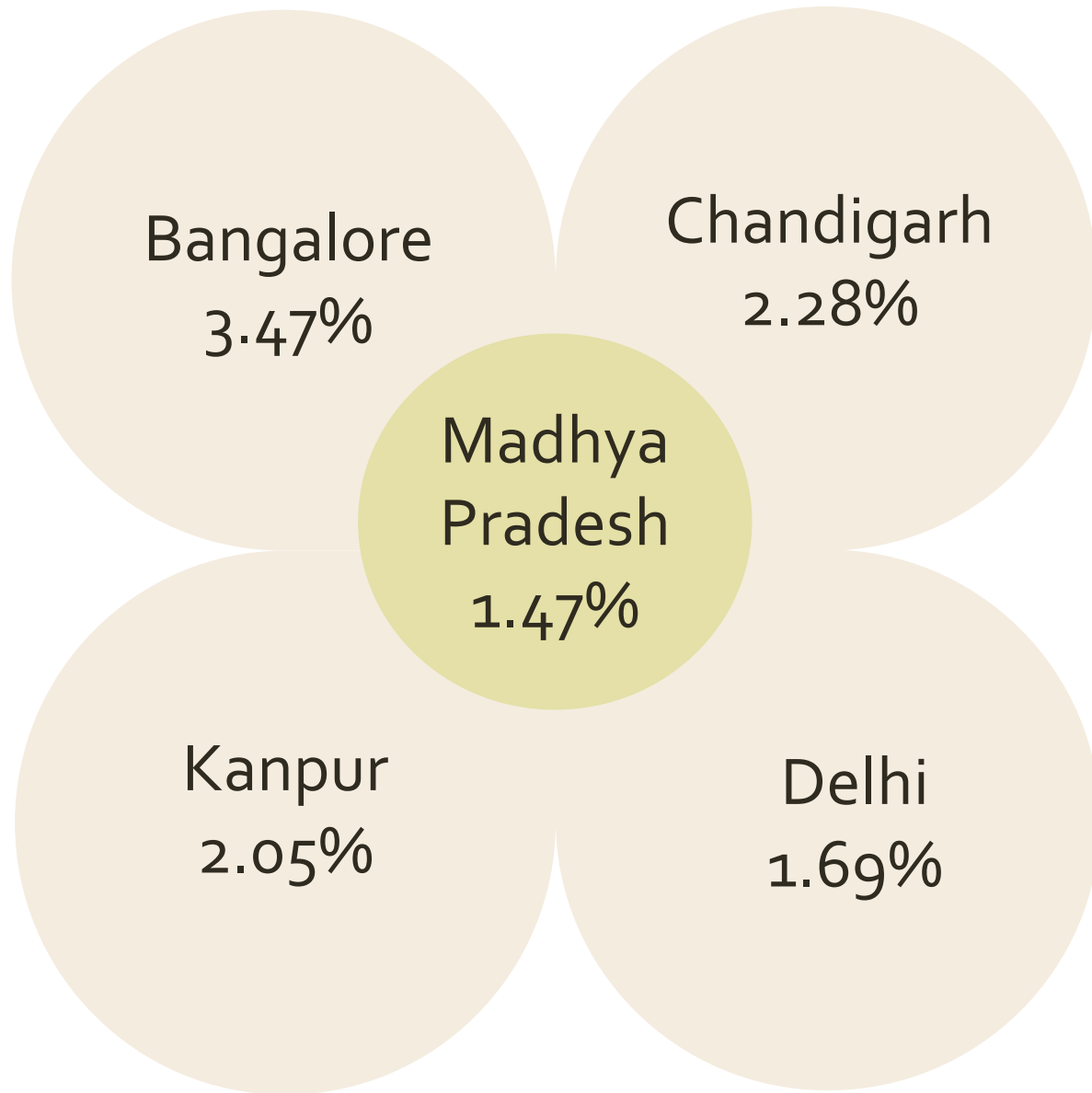
Glucocorticoids (corticosteroids) both oral as well as inhalational, leukotriene antagonists, β_2 sympathomimetics both inhalational as well as oral, methylxanthines, H₁ antagonists, etc.

Supportive Drugs-

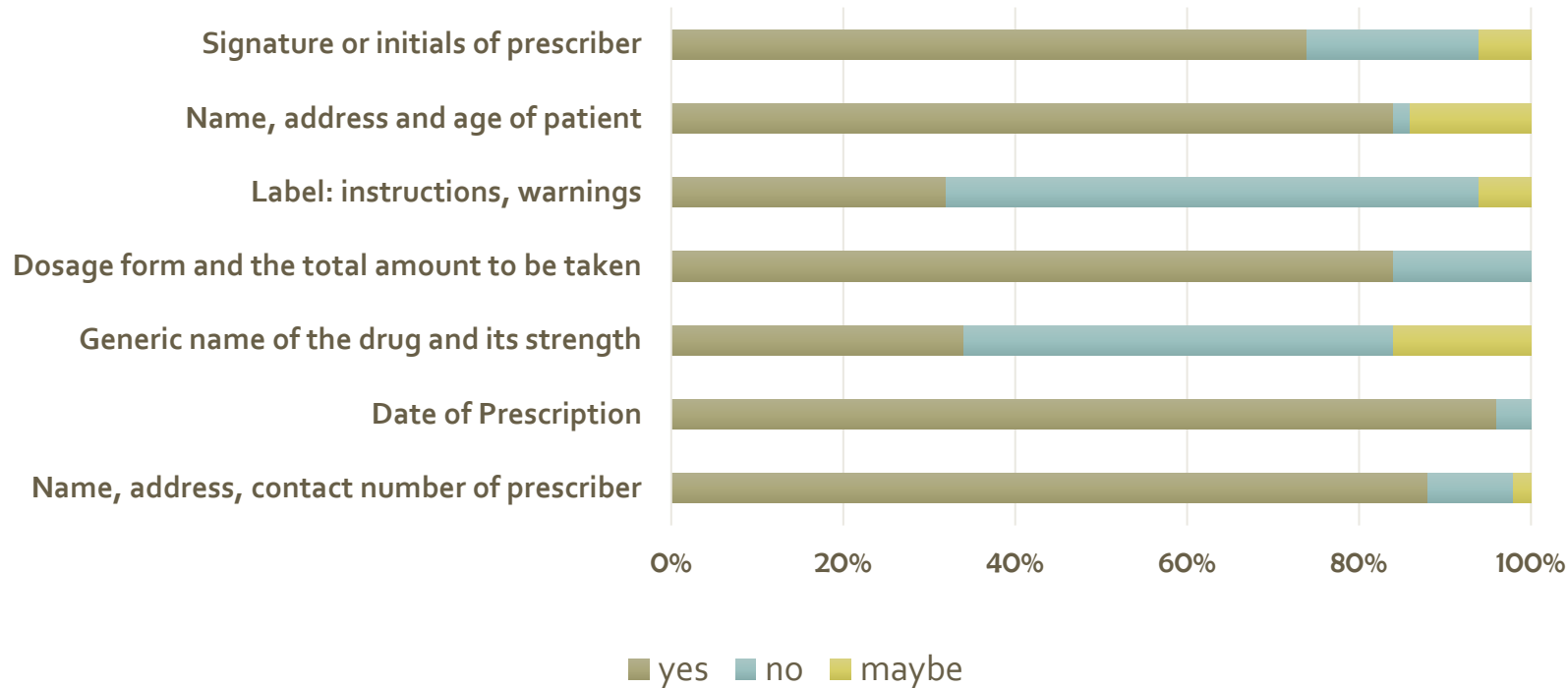
NSAIDS, antibacterial agents, antacids, proton pump inhibitors, antitussives, anticold combinations, etc.

Prevalence

Rajgarh
District
1.43%



Prescription Standards



Only 8% of the total prescriptions considered in the study were totally complying with the standards.

Prescribing Standards Audit

CONCLUSIONS



- The cost of medicine is huge a common man
- Supportive medicines adds to the expenditure out of the patient's pocket.
- Newer drugs are beings discovered which are proving beneficial for the patients.
- Population from rural areas is deficient of the knowledge about there own conditions
- The doctors should be made aware of the prescribing standards in the rural areas to avoid any misconception among the pharmacists and the patients.

THANK
YOU

