



**From Consultation to Recovery:**  
Measuring Patient Outcomes from  
Provider-to-Provider  
Teleconsultations in Tribal  
communities in Maharashtra

MARCH 2025

## Summary

The Arogya Sampada (AS) telemedicine initiative aims to bridge healthcare access gaps for tribal communities in Nashik district, Maharashtra, by enabling provider-to-provider teleconsultations supported by frontline health workers. This study presents an outcome-focused evaluation of the program, with the objective of assessing clients recovery through doctor follow-up assessments post-teleconsultations.

A cross-sectional follow-up study was conducted with 318 clients (374 diagnosed episodes, as some clients had multiple diagnoses) who received teleconsultations between December 2024 and January 2025. Recovery status was assessed approximately one month after consultation and independently verified by a qualified doctor. The study also explored recovery patterns across health condition types, considering their self-limiting (diseases that resolves itself even without medication) or non-self-limiting nature (diseases that won't resolve itself without treatment or medication) and public health importance (PHI) as high/low, using ICD-11 classification.

### Key Findings

- **91.8% of the (N=318) clients fully recovered post-teleconsultation** - indicating that telemedicine is a viable healthcare option.
- Of 318 clients, 208 (65%) experienced health issues classified as of high public health importance (e.g., acute diarrheal diseases, acute respiratory infections). Of these **97.1% experienced complete recovery**
- Of 318 clients, 104 (32.7%) had non-self limiting conditions. **Of these 81.7% clients experienced a full recovery for non-self-limiting conditions** —suggesting appropriate clinical management through remote care.
- **99.4% of the (N=318) clients received and adhered to prescribed medication**, supported by strong engagement from community health workers.
- Out of 374 episodes of diagnosis the most frequently diagnosed episodes were of **upper respiratory infections 77 (20.6%), acute pharyngitis 64 (17.1%), acute rhinitis 39 (10.4%), and scabies 27 (7.2%)** —common illnesses with high community burden.
- **Recovery rate** (based on full recovery) by CPHC category in **infant and neonatal (100%, N=12), Family planning and reproductive health conditions (100%, N=3), and childhood and adolescent (97.6%, N=147) health conditions** was the highest, where as full recovery rate for **elderly care (77.6%, N=67) and non-communicable diseases (N=1)** was the lowest, and may require more complex or in-person care pathways.
- **20.4% (N=318) of clients** were advised to seek in-person follow-up care during initial teleconsultations, with **10.7% (N=318)** receiving conditional referrals—to be acted upon only if symptoms did not improve.
- **20% (N=65) of referred clients** followed through and sought higher-level in-person care after the teleconsultation; among them, **5 reported symptom improvement with treatment**, and **3 felt better after acting on the referral**.
- **80% (N=65) of referred clients did not seek follow-up care at higher facilities**, citing

logistical and financial barriers. However, the same logistical and financial barriers would prohibit patients from seeking initial diagnosis and treatment without telemedicine.

Intelehealth's program impact was assessed by examining outcomes across conditions based on whether they were self-limiting (resolving on their own) or non-self-limiting (requiring medical care), and their public health importance (PHI). Improvements in non-self-limiting and high-PHI conditions demonstrate the strongest evidence of program effectiveness. However, even care for self-limiting or low-PHI conditions is meaningful from a health equity lens, as it reduces unnecessary suffering and enables access to basic care—especially for marginalized communities and women.

This study was limited to two tribal blocks and a purposively selected subset of cases, without a comparison group. Unlike a simple retrospective assessment, recovery was evaluated through a detailed protocol that involved reviewing a patient's medical history and portal data, asking specific questions to the clients about their symptoms, and gathering measurements to compare against previous visits by a doctor. While the findings cannot be generalized beyond similar rural contexts or assumed to show causal effects, they provide early evidence that teleconsultations, when paired with access to medicines and follow-up, can support recovery for select conditions in underserved areas. However, managing chronic diseases, geriatric care, and effective referrals still require stronger health system integrations. These insights underscore the need to embed telemedicine within broader primary care frameworks, improve referral pathways, and invest in rigorous, prospective research to evaluate long-term outcomes, cost-effectiveness, and scalability.



## Factsheet

| Health Outcome Assessment-Key Indicators                                    |                               |            |
|-----------------------------------------------------------------------------|-------------------------------|------------|
| Indicators                                                                  | December-January<br>(2024-25) |            |
|                                                                             | Frequency                     | Percentage |
| <b>Overall Clients Surveyed</b>                                             | <b>318</b>                    | -          |
| <b>Number of episodes of diagnosis involving multiple health conditions</b> | <b>374</b>                    | -          |
| <b>Clients by Gender</b>                                                    |                               |            |
| 1. Female                                                                   | 207                           | 65.1%      |
| 2. Male                                                                     | 111                           | 34.9%      |
| <b>Age Group</b>                                                            |                               |            |
| 3. 0-5 years                                                                | 64                            | 20.1%      |
| 4. 6-14 years                                                               | 63                            | 19.8%      |
| 5. 15-25 years                                                              | 30                            | 9.4%       |
| 6. 26-35 years                                                              | 45                            | 14.2%      |
| 7. 36-55 years                                                              | 52                            | 16.4%      |
| 8. 56 and above years                                                       | 64                            | 20.1%      |
| <b>Number of Clients by Cluster</b>                                         |                               |            |
| 9. Badagi                                                                   | 68                            | 21.4%      |
| 10. Ghotapada                                                               | 62                            | 19.5%      |
| 11. Jambhulpada                                                             | 130                           | 40.9%      |
| 12. Surgane                                                                 | 58                            | 18.2%      |
| <b>Client Visited with a Number of Chief Complaints</b>                     |                               |            |
| 13. One                                                                     | 124                           | 39.0%      |
| 14. Two                                                                     | 134                           | 42.1%      |
| 15. Three                                                                   | 59                            | 18.6%      |
| 16. Four                                                                    | 1                             | 0.3%       |
| <b>Top 10 Chief Complaints Among Clients</b>                                |                               |            |
| 17. Cold, Sneezing                                                          | 148                           | -          |
| 18. Cough                                                                   | 127                           | -          |

| Health Outcome Assessment-Key Indicators                                                                         |                               |            |
|------------------------------------------------------------------------------------------------------------------|-------------------------------|------------|
| Indicators                                                                                                       | December-January<br>(2024-25) |            |
|                                                                                                                  | Frequency                     | Percentage |
| 19. Fever                                                                                                        | 56                            | -          |
| 20. Skin disorder                                                                                                | 47                            | -          |
| 21. Leg, Knee or Hip Pain                                                                                        | 43                            | -          |
| 22. Headache                                                                                                     | 39                            | -          |
| 23. Diarrhea                                                                                                     | 27                            | -          |
| 24. Sick child (under 5years)                                                                                    | 15                            | -          |
| 25. Fatigue and General Weakness                                                                                 | 14                            | -          |
| 26. Abdominal Pain                                                                                               | 12                            | -          |
| <b>Distribution of Clients by Public Health Importance (PHI) Category</b>                                        |                               |            |
| 27. High PHI                                                                                                     | 208                           | 65.4%      |
| 28. Low PHI                                                                                                      | 85                            | 26.7%      |
| 29. At least one diagnosis will High PHI                                                                         | 25                            | 7.9%       |
| <b>Distribution of Clients by Nature of Disease Conditions</b>                                                   |                               |            |
| 30. Self-limiting                                                                                                | 182                           | 57.2%      |
| 31. Non Self-limiting                                                                                            | 104                           | 32.7%      |
| 32. At least one diagnosis will non self-limiting                                                                | 32                            | 10.1%      |
| <b>Distribution of Number of Episodes According to Comprehensive Primary Health Care (CPHC) Services</b>         | <b>Episodes</b>               |            |
| 33. Childhood and adolescent health care services                                                                | 147                           | 39.3%      |
| 34. Management of common communicable diseases and outpatient care for acute simple illnesses and minor ailments | 82                            | 21.9%      |
| 35. Elderly and palliative health care services                                                                  | 67                            | 17.9%      |
| 36. Care for common ophthalmic and ENT problems                                                                  | 56                            | 15.0%      |
| 37. Neonatal and infant health care services                                                                     | 12                            | 3.2%       |
| 38. Basic oral health care                                                                                       | 5                             | 1.3%       |

| Health Outcome Assessment-Key Indicators                                                 |                               |            |
|------------------------------------------------------------------------------------------|-------------------------------|------------|
| Indicators                                                                               | December-January<br>(2024-25) |            |
|                                                                                          | Frequency                     | Percentage |
| 39. Family planning, contraceptive services, and other reproductive health care services | 3                             | 0.8%       |
| 40. Screening, prevention, control, and management of non-communicable diseases          | 1                             | 0.3%       |
| 41. Emergency medical services                                                           | 1                             | 0.3%       |
| <b>Clients Received Medication from the Health Worker</b>                                |                               |            |
| 42. Yes                                                                                  | 316                           | 99.4%      |
| 43. No                                                                                   | 2                             | 0.6%       |
| <b>Clients Take the Medication as Prescribed</b>                                         |                               |            |
| 44. Yes                                                                                  | 316                           | 99.4%      |
| 45. No                                                                                   | 2                             | 0.6%       |
| <b>Doctor-Assessed Client Recovery Status</b>                                            |                               |            |
| 46. Completely recovered                                                                 | 292                           | 91.8%      |
| 47. Feeling better but not fully recovered                                               | 20                            | 6.3%       |
| 48. Condition still same                                                                 | 6                             | 1.9%       |
| <b>Advised for a referral during the initial consultation</b>                            |                               |            |
| 49. Yes                                                                                  | 65                            | 20.4%      |
| 50. No                                                                                   | 253                           | 79.6%      |
| <b>Type of referral provided</b>                                                         |                               |            |
| 51. Refer                                                                                | 31                            | 9.8%       |
| 52. Refer if the condition does not improve                                              | 34                            | 10.7%      |
| 53. No referral                                                                          | 253                           | 79.6%      |

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## Abbreviations and Acronyms

|       |                                          |
|-------|------------------------------------------|
| AI    | Artificial Intelligence                  |
| EHR   | Electronic Health Records                |
| HW    | Health Workers                           |
| ICD   | International Classification of Diseases |
| ISRO  | Indian Space Research Organisation       |
| LMICs | Low- and Middle-Income Countries         |
| MOHFW | Ministry of Health and Family Welfare    |
| N     | Total Sample                             |
| n     | Sub-set of Sample                        |
| AS    | Arogya Sampada                           |
| NCDs  | Non-communicable Diseases                |
| PHI   | Public Health Importance                 |



## Introduction

Access to quality healthcare in low- and middle-income countries (LMICs) remains a persistent challenge, especially in rural and underserved areas where health infrastructure is weak and the shortage of trained professionals is acute. In India, where nearly 70% of the population resides in rural areas but most specialists are concentrated in urban centers, this access gap is especially stark. Telemedicine has emerged as a transformative tool with the potential to bridge these divides by leveraging digital technology to deliver timely, cost-effective care to hard-to-reach populations (Maroju et al., 2023).

Telemedicine is not a new concept in India. As early as the early 2000s, pilot programs by the Indian Space Research Organisation (ISRO) and various public-private partnerships introduced teleconsultation services in remote areas (Kumar & Snigdha, 2019). However, these initiatives were largely fragmented and lacked policy backing, resulting in inconsistent scalability and limited integration into mainstream health systems. The groundwork laid by earlier pilots, combined with rapid digital adoption and policy momentum during COVID-19, has now positioned telemedicine as a scalable solution to India's longstanding healthcare access gaps.

The onset of the COVID-19 pandemic accelerated the adoption of telemedicine globally, and in India, it catalyzed an unprecedented policy shift. In March 2020, the Ministry of Health and Family Welfare issued national telemedicine guidelines, providing a clear legal framework for virtual consultations (Dash et al., 2021). During the pandemic, it was widely used for triage, continuity of care, and parental counselling, especially in remote areas with limited specialist access (Galagali et al., 2021). Since then, platforms like eSanjeevani have facilitated millions of remote consultations, marking a turning point in healthcare delivery. In purely statistical terms, eSanjeevani seems to be a resounding success, having provided over 276 million consultations (and counting), with almost 300,000 consultations daily. However, vast sections of India's population still lack access to care, meaning that these numbers represent only the tip of the iceberg relative to the denominator of need in India (Ghosh et al., 2024).

Beyond acute care, telemedicine has strengthened primary care, chronic disease management, and preventive health services. It is particularly impactful in rural and semi-urban India, where it supports overburdened frontline health workers, enables early diagnosis, and expands access without the need for significant physical infrastructure (Maroju et al., 2023). Emerging evidence also supports the use of telemedicine in managing chronic conditions such as hypertension. A scoping review of telemedicine interventions across LMICs found that most studies reported significant improvements in blood pressure control, indicating telemedicine's potential to support long-term disease management. However, the review also noted methodological limitations such as small sample sizes and short follow-up periods, calling for more rigorous evaluations (Hoffer-Hawlik et al., 2021).

While most studies have focused on access and utilization, there is limited evidence on client-reported health outcomes following teleconsultation, especially in real-world, rural

settings. Whether clients recover effectively, understand and follow medical advice, or face gaps in follow-up care remains under-explored. This study aims to address that gap by evaluating health outcomes reported by clients post-teleconsultation under “Arogya Sampada project”, with the goal of generating actionable insights to improve teleconsultation quality and inform future policy.

## About the project

Despite its potential, telemedicine in India continues to face significant implementation challenges. A systems-level review of the country’s telemedicine rollout during the COVID-19 pandemic identified several persistent barriers, including lack of infrastructure, low levels of digital literacy, inadequate language customization, concerns about data privacy, and insufficient integration with clinical workflows. Healthcare providers also reported ethical concerns and disruptions to service delivery due to unclear reimbursement mechanisms and medico-legal ambiguities (Singh et al., 2022).

In response to these challenges, Intelhealth launched the Arogya Sampada project—a provider-to-provider telemedicine initiative designed to pilot and evaluate both technological and programmatic innovations aimed at strengthening healthcare delivery in remote tribal regions. The project connects frontline health workers with remote doctors via a telemedicine platform, ensuring access to quality care for underserved tribal communities in Nashik, Maharashtra. The intervention spans 30 villages, organized into four geographic clusters—Ghotapada, Surgana, Badagi, and Jambhulpada—across the Peth and Surgana blocks, collectively covering approximately 2,800 households. These villages were selected due to their poor healthcare access, influenced by dense forest cover and a range of socio-demographic vulnerabilities such as low income, high unemployment, significant out-migration, and lack of land ownership.

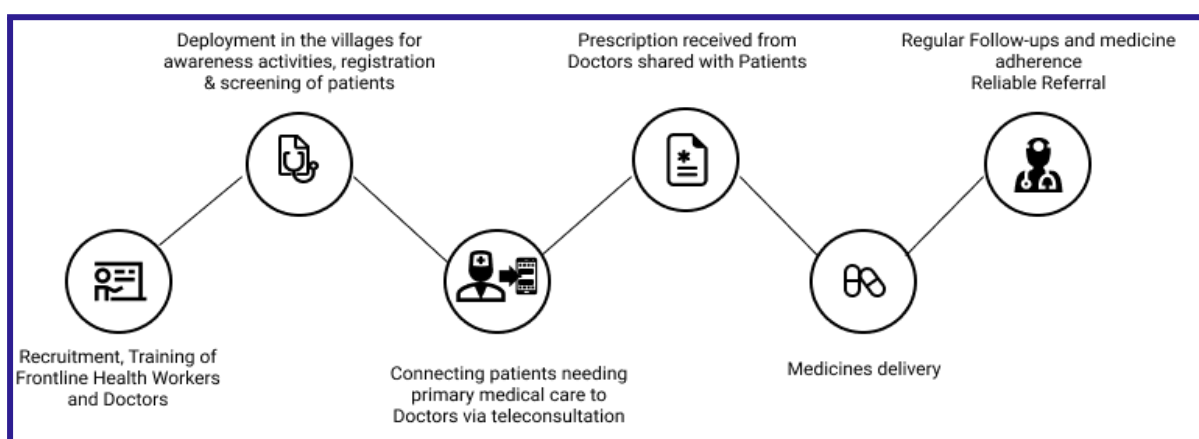


Figure 1: Healthcare Delivery Model of Arogya Sampada Program

## Rationale

The Arogya Sampada (AS) program is a provider-to-provider telemedicine initiative aimed at bridging healthcare access gaps in remote tribal communities of Nashik District, Maharashtra. Through virtual consultations, the program connects frontline health workers in villages with remote doctors, enhancing the quality of clinical assessments and client history-taking. By leveraging telemedicine, the initiative seeks to provide timely, accessible, and equitable care to populations that face geographic, infrastructural, and socio-demographic barriers to healthcare access.

Evaluating the effectiveness of this intervention is essential to understanding whether such telemedicine-based approaches lead to measurable improvements in client recovery and health outcomes. To ensure objectivity and credibility in evaluation, client recovery assessments were independently conducted by a qualified doctor not involved in the delivery of teleconsultations.

## Objective

The primary objective of this study is to assess the impact of the Arogya Sampada telemedicine program on client health outcomes, in terms of client recovery, following virtual consultations.

### Secondary Objectives

1. To examine the distribution of health conditions treated through the Arogya Sampada program and their associated recovery status, stratified by public health importance.
2. To assess recovery patterns among clients with non-self-limiting health conditions.
3. To analyze recovery outcomes by ICD-11-coded diagnoses to understand condition-specific impacts of the telemedicine intervention.

## Research Questions

### Primary Research Questions

1. How does the Arogya Sampada telemedicine program impact the health outcomes of clients in remote tribal populations of Nashik, and to what extent does it facilitate recovery for those seeking care through the program?

### Secondary Research Questions

2. What is the distribution of health conditions based on their level of public health importance and their recovery status in the Arogya Sampada program?

3. What percentage of non-self-limiting health conditions show different recovery outcomes in the Arogya Sampada program?
4. How are various health conditions, categorized by ICD-11 codes, distributed according to their recovery status in the Arogya Sampada program?

## Methodology

### Study Design and Setting

This study follows a cross-sectional follow-up design with retrospective outcome assessment, aimed at evaluating health outcomes among clients who accessed telemedicine services through the Arogya Sampada (AS) program. The primary outcome of interest was client recovery, assessed approximately one month after the initial teleconsultation. To ensure objectivity and eliminate bias, recovery assessments were independently conducted by a qualified doctor who was not involved in the original consultations.

### Study Period and Sample Selection

The sample includes clients who received teleconsultation services between December 16, 2024, and January 30, 2025. A total of 668 consultations were recorded during this period. An initial eligibility screening was conducted using the following inclusion and exclusion criteria:

#### Inclusion Criteria

1. Individuals who accessed telemedicine care under the AS program.
2. Clients with a clearly documented primary provisional or confirmed diagnosis.
3. Clients who had an adequate recovery window, i.e., sufficient time (at least 30 days) had passed since consultation to observe recovery based on their diagnosis.

#### Exclusion Criteria

1. Clients are unwilling or unable to participate in follow-up assessments.
2. Individuals with severe cognitive impairment hindering participation.
3. Clients with terminal illnesses.

Subsequently, cases were screened based on the likelihood of being non-self-limiting and of higher Public Health Importance (PHI)<sup>1</sup>. This determination was made by an independent medical professional through a review of prescription data, symptoms, chief complaints, and advice given during the consultation. Cases coded during pre-screening as likely to be self-limiting and low-PHI were excluded from the follow-up.

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<sup>1</sup> Categorization of diseases as Public Health Importance (PHI) is done as per the Integrated Disease Surveillance (IDSP) P form in children and adults. These include conditions such as Acute Diarrheal Diseases (including Acute Gastroenteritis, Dysentery (Bacillary/Amebic), Acute Respiratory Infections (ARIs)/Influenza Like Illnesses (ILI)

After applying these criteria, 384 clients were identified as eligible for follow-up. Of these, 318 clients responded to follow-up data collection efforts, resulting in 374 analyzable episodes (some clients had multiple diagnoses).

## Data Collection

Follow-up data were collected by an independent doctor via structured questionnaires administered telephonically. All data were collected using the KoBoToolbox platform and mapped to corresponding Electronic Health Record (EHR) data to ensure completeness and consistency. After follow-up, prescriptions and notes from the original consultation were independently reviewed and coded by the doctor to assess the quality of care, treatment appropriateness, and alignment with standard protocols.

## Data Analysis

The primary outcome variables included:

- Type of morbidity
- ICD-11-coded diagnosis
- Public Health Importance (PHI) rating
- Classification as a self-limiting or non-self-limiting condition
- Recovery status (full, partial, or no recovery)
- Referral outcomes
- Medicine adherence

Data analysis was conducted using Microsoft Excel and STATA Version 15.0. Descriptive statistics were used to summarize client characteristics, types of morbidities, and outcome distributions. Univariate and bivariate analyses were performed to examine associations between key variables such as diagnosis category, recovery status, and PHI level.

## Ethical Considerations

This study titled **“Assessing Health Status in the Tribal Populations and Training Gen AI for Improving Telemedicine Services, Maharashtra, India”**, was reviewed and approved by the **Altezza Institutional Ethics Committee, India**, an independent ethics committee. The study was conducted in accordance with the national ethical guidelines for biomedical and health research involving human participants.

- **Principal Investigator (PI):** Dr. Neha Verma – Chief Executive Officer, Intelehealth
- **IRB Number:** Intele/24/25/001

- **Date of IRB Meeting:** 23 June 2024
- **Date of IRB Approval:** 23 June 2024
- **Approval Valid Through:** 22 June 2025

The Ethics Committee reviewed the study protocol, informed consent procedures, data protection mechanisms, and risk mitigation strategies.

This study adhered to the ethical principles outlined in relevant guidelines and regulations. Measures were implemented to protect client confidentiality and privacy throughout the data collection and analysis process. To protect participants' privacy, all data collected were anonymised, and personal identifiers were removed during data analysis and reporting. Confidentiality was rigorously maintained throughout the study, and data were stored securely.

## Data Sharing Policy

The research study findings will be disseminated through a multifaceted approach with the government stakeholders of Maharashtra. The study findings will be further used to collaborate with multi-stakeholders and ensure that the findings will be incorporated into programs. Abstracts will be presented with the key findings to a diverse audience of researchers and policymakers. The shared findings will be incorporated into health department policies and programs, contributing to evidence-based decision-making in public health initiatives.

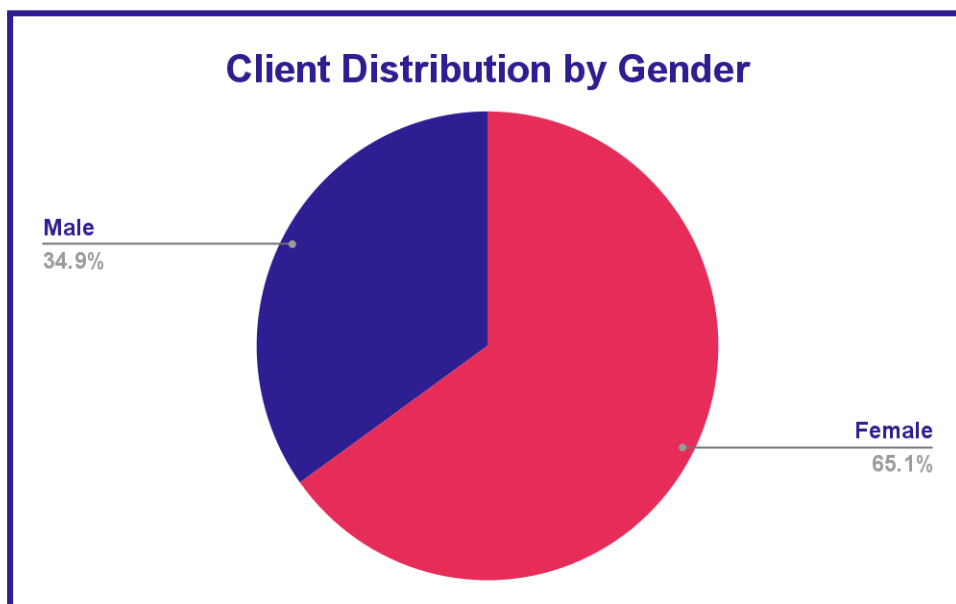
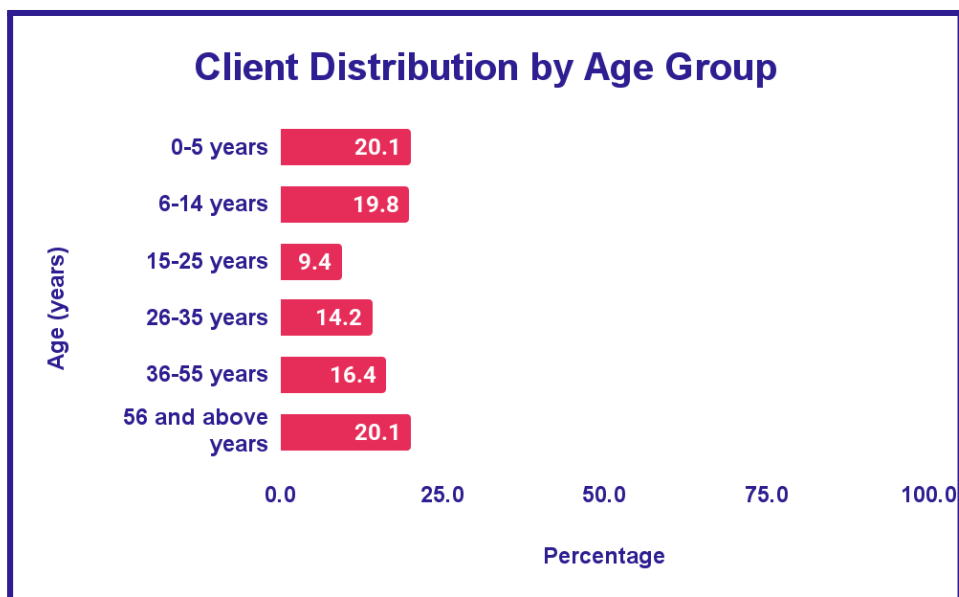


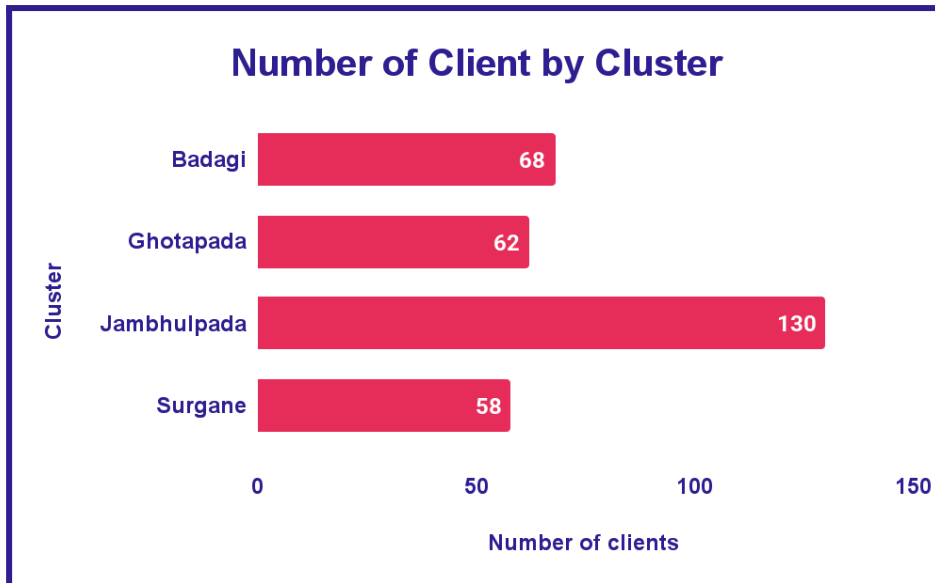
## Results

The Arogya Sampada (AS) telemedicine program provides consultations to clients with various health conditions. This study evaluated the health outcomes of **318 clients**, accounting for **374 recorded episodes** of diagnosis involving multiple health conditions.

### Client's Socio-Demographic Profile

The **majority of teleconsultation clients were female (65.1%, n=207)**, with men comprising **34.9% (n=111)**. Age distribution showed **the highest consultations among children (0-14 years: 39.9%, n=127)** and **older adults (56+ years: 20.1%, n=64)**. Geographically, most clients were from cluster Jambhulpada (n=130), followed by Badagi (n=68), Ghotapada (n=62), and Surgane (n=58).





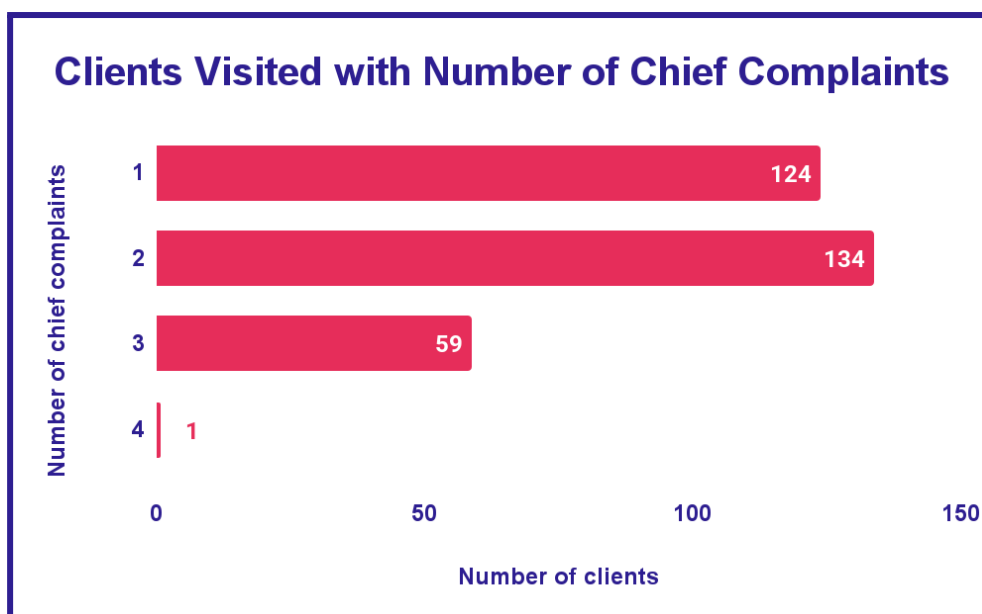
## Morbidity Profiling

### Chief Complaints (Reason for Visit)

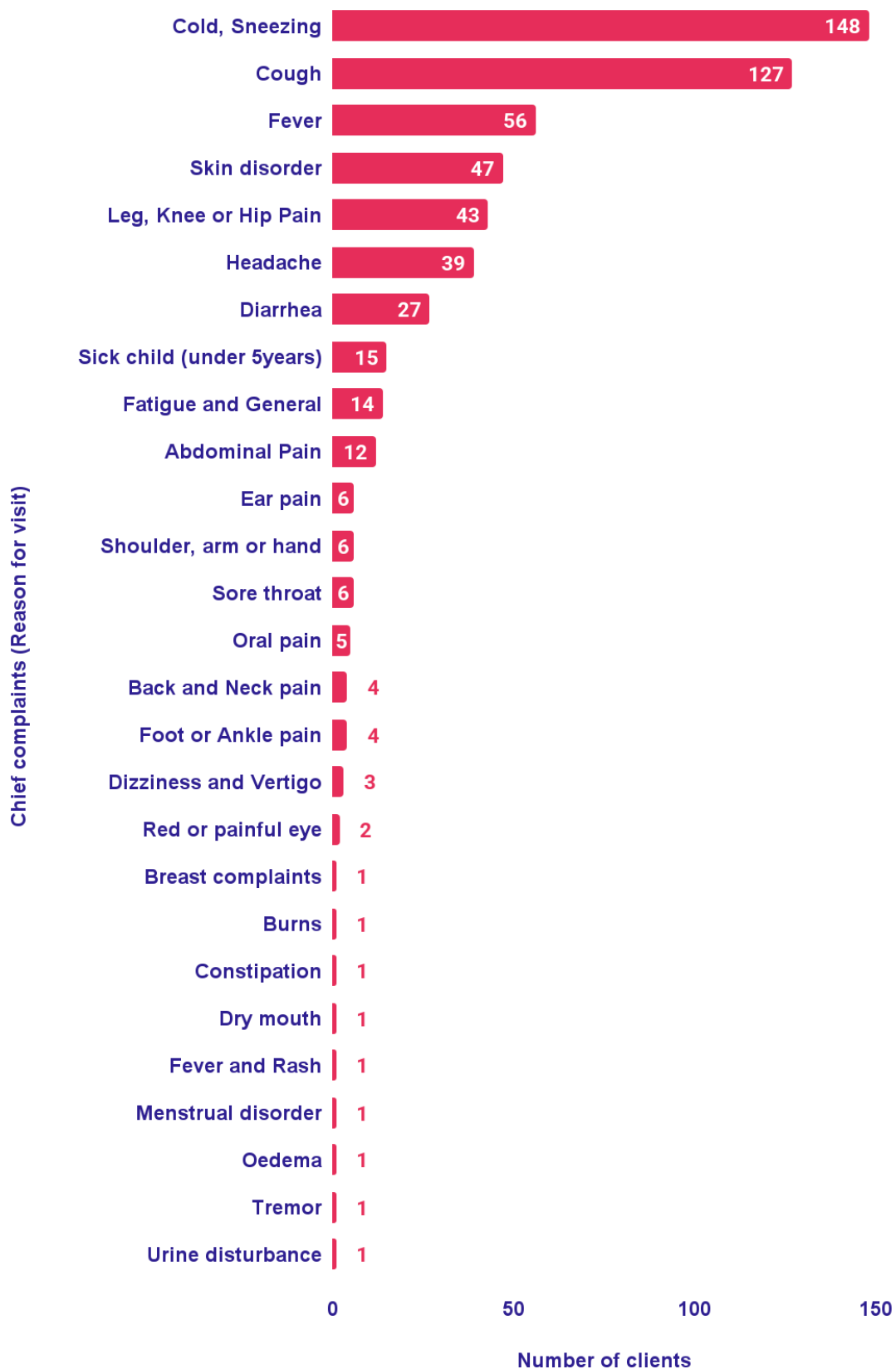
Respiratory issues were the most common reasons for teleconsultations, with cold and sneezing (148 cases) and cough (127 cases) leading, followed by fever (56). Other frequent complaints included skin disorders (47), joint pain (43), headaches (39), and diarrhea (27). Pediatric cases (sick children under five) accounted for 15 visits. Less common issues ranged from ear pain (6) to specific conditions like dizziness (3) and menstrual disorders (1), totaling 573 complaints.

### Clients with Multiple Chief Complaints

Among the 318 clients, 134 (42.1% ) reported two chief complaints, while 124 (39%) had a single complaint. Additionally, 59 (18.6%) presented with three complaints, and only 1 client reported four complaints.



## Distribution of Chief Complaints among Clients

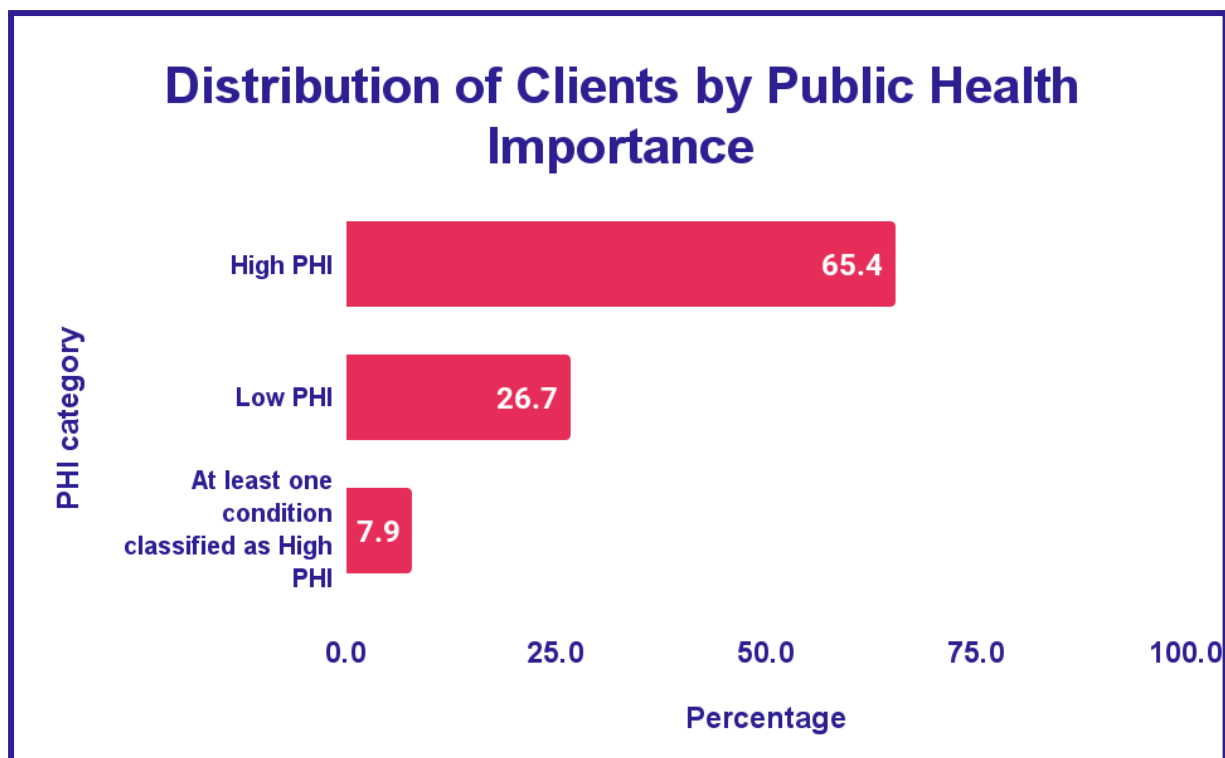


## Public Health Importance and Disease Conditions

Public Health Importance (PHI) categorizes diseases based on their potential impact on community health. Conditions that are highly transmissible, cause significant morbidity, or require immediate public health intervention are classified as High PHI.

- **High PHI (HPI):** Includes conditions such as Acute Diarrheal Diseases (Acute Gastroenteritis, Dysentery) and Acute Respiratory Infections (ARIs)/Influenza-Like Illnesses (ILI) in both children and adults, as defined by the Integrated Disease Surveillance Program (IDSP) Surveillance Reference (P Form). These illnesses are closely monitored due to their potential for outbreaks and public health consequences.
- **Low PHI (LPI):** Includes conditions that are less likely to cause outbreaks or require urgent public health interventions.

Based on diagnostic records, clients were categorized according to their Public Health Importance (PHI). Out of the 318 clients, 208 (65.4%) had a high PHI condition, 85 (26.7%) had a low PHI condition, and 25 (7.9%) had at least one high PHI condition. .

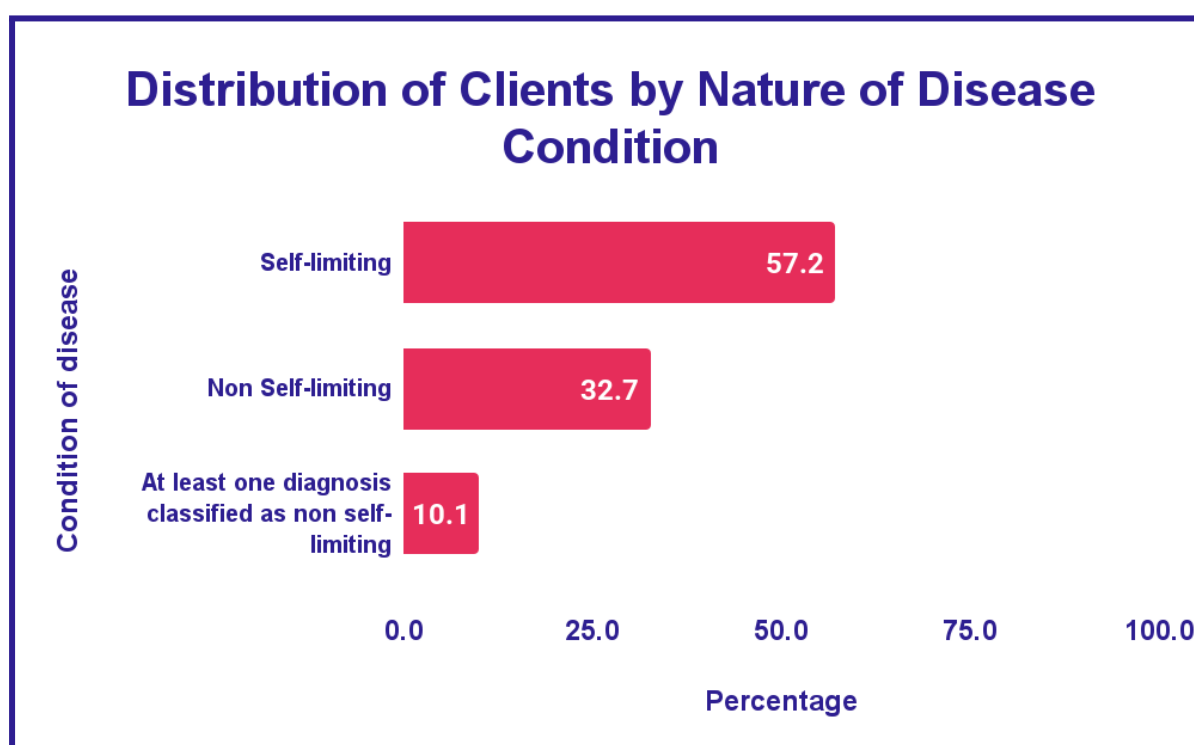


## Disease Conditions: Self-Limiting vs. Non-Self-Limiting

Diseases are also categorized based on their natural course and need for medical intervention:

- **Self-Limiting Conditions:** These diseases resolve on their own without the need for extensive medical intervention.
- **Non-self-limiting Conditions:** These require medical management and may not improve without treatment.

Based on the nature of diagnosed conditions, diseases were categorized as self-limiting or non self-limiting. Out of the 318 clients, 182 (57.2%) had self-limiting conditions, 104 (32.7%) had non self-limiting conditions, and 32 (10.1%) had at least one non self-limiting condition.



#### Distribution of Disease Conditions by Public Health Importance (PHI)

Bivariate analysis using cross-tabulation of Public Health Importance (PHI) and the self-limiting nature of diagnosed conditions provides key insights for clinical prioritization and program strategy. Among 208 clients identified with high PHI conditions, 161 (77.4%) had self-limiting diseases, indicating that most high-burden public health conditions addressed via teleconsultation were acute but likely to resolve without long-term care, such as viral infections or mild respiratory illnesses.

Low PHI conditions were recorded in 85 clients, of whom 59 (69.4%) had non self-limiting diseases, indicating a higher prevalence of chronic or prolonged conditions in this group. For the 25 clients with at least one high PHI diagnosis, 18 (72.0%) had at least one non

self-limiting condition, reflecting a complex clinical profile that may require extended follow-up and management.

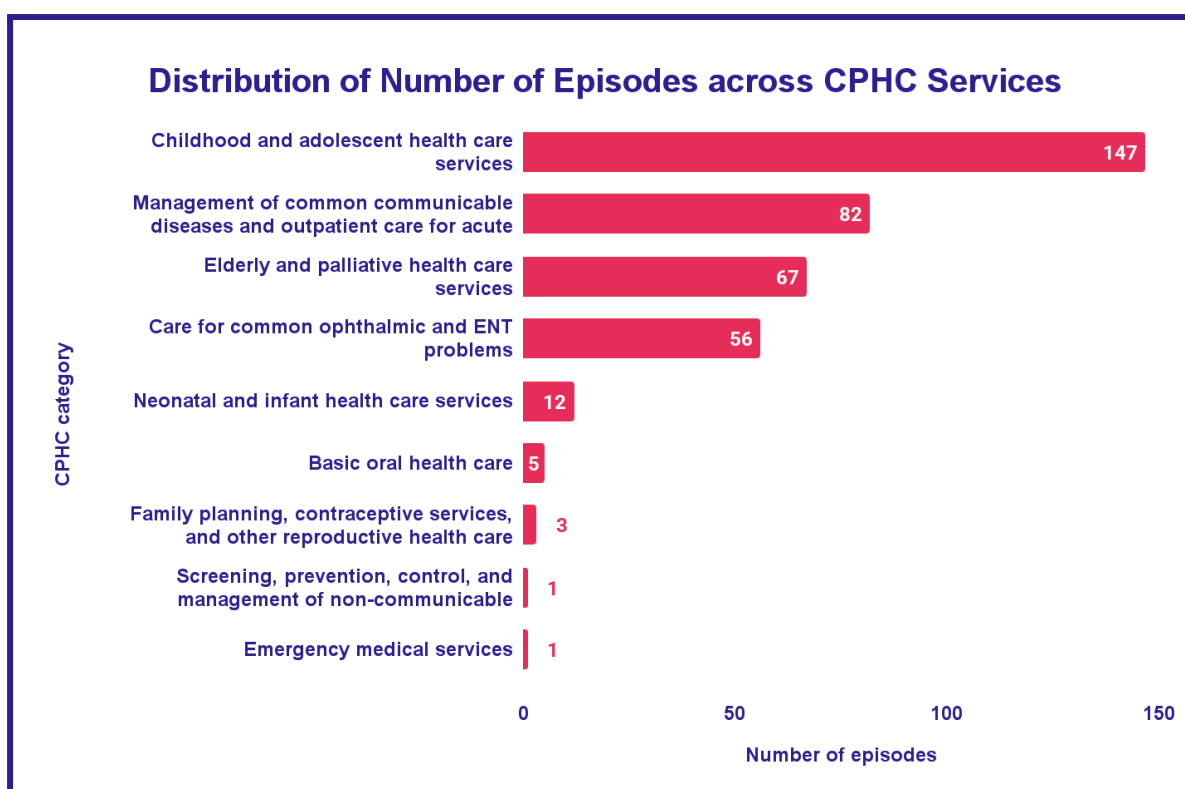
| PHI category                                | Condition of Disease |                       |                                                            |           |
|---------------------------------------------|----------------------|-----------------------|------------------------------------------------------------|-----------|
|                                             | Self-limiting (%)    | Non Self-limiting (%) | At least one diagnosis classified as non self-limiting (%) | Total (%) |
| High PHI (N=208)                            | 77.4                 | 19.2                  | 3.4                                                        | 100       |
| Low PHI (N=85)                              | 22.4                 | 69.4                  | 8.2                                                        | 100       |
| At least one diagnosis will High PHI (N=25) | 8.0                  | 20.0                  | 72.0                                                       | 100       |
| Total (N=318)                               | 57.2                 | 32.7                  | 10.1                                                       | 100       |

### Comprehensive Primary Health Care (CPHC) Service Categories<sup>2</sup>

Observations of 318 clients records a total of 374 episodes of diagnosis that were analysed and categorised into nine **Comprehensive Primary Health Care (CPHC)** service categories. Childhood and adolescent health care accounted for 147 (39.3%) episodes, followed by **management of communicable diseases and minor ailments** with 82 (21.9%) episodes, and **elderly/palliative care** with 67 (17.9%) episodes. **Ophthalmic and ENT care** made up 56 (15.0%) episodes, while **neonatal and infant care** comprised 12 (3.2%) episodes and **basic oral health care** 5 (1.3%) episodes. Family planning services were reported in 3 (0.8%) episodes, non-communicable disease management in 1 (0.3%) episode, and emergency medical services in 1 (0.3%) episode were the least represented categories.

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<sup>2</sup> A total of 374 episodes of diagnosis were analysed and categorised into CPHC service categories.



### Types of Health Issues Assessed

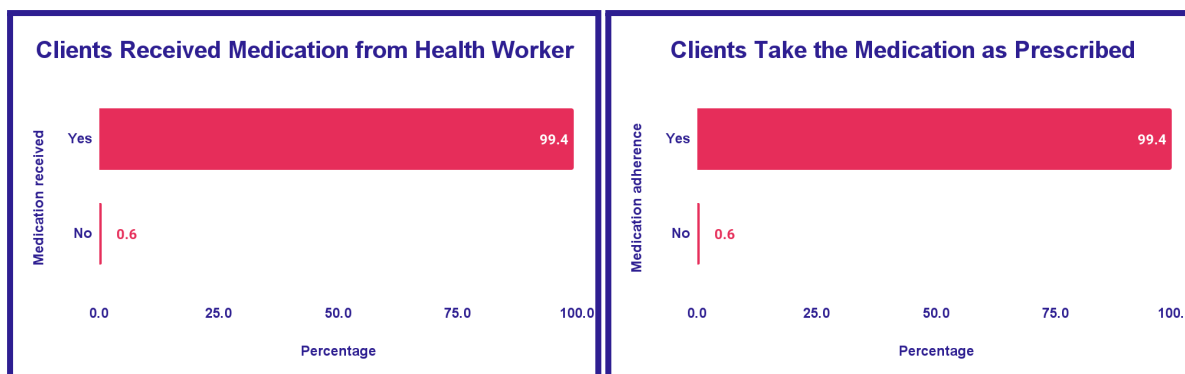
Out of the 374 total episodes analyzed through the Arogya Sampada (AS) telemedicine program, the top ten most frequently diagnosed conditions accounted for a significant proportion of consultations. The most prevalent diagnosis was Upper Respiratory Tract Infection (URTI), representing 77 episodes (20.6%), followed by Acute Pharyngitis (64 episodes, 17.1%) and Acute Rhinitis (39 episodes, 10.4%)—highlighting the dominance of respiratory infections, which together comprised ~48% of the total diagnoses.

Other common conditions included Scabies (27 episodes, 7.2%), Lower Respiratory Tract Infections (19 episodes, 5.1%), and Osteoarthritis (17 episodes, 4.5%), reflecting a mix of infectious diseases and chronic conditions. Gastritis and Gastroenteritis (13 and 10 episodes, respectively) also appeared frequently, indicating a notable burden of gastrointestinal issues. Additionally, Tinea Corporis (13 episodes) and Viral Fever (11 episodes) were recorded, suggesting the persistence of skin infections and non-specific febrile illnesses in these communities. Refer to the annexure for the complete list of diagnosis from 374 episodes.

### Client Medication Adherence

In the **Arogya Sampada (AS) program**, frontline health workers provide prescribed medications **free of cost** to clients following teleconsultation, ensuring access to essential treatment.

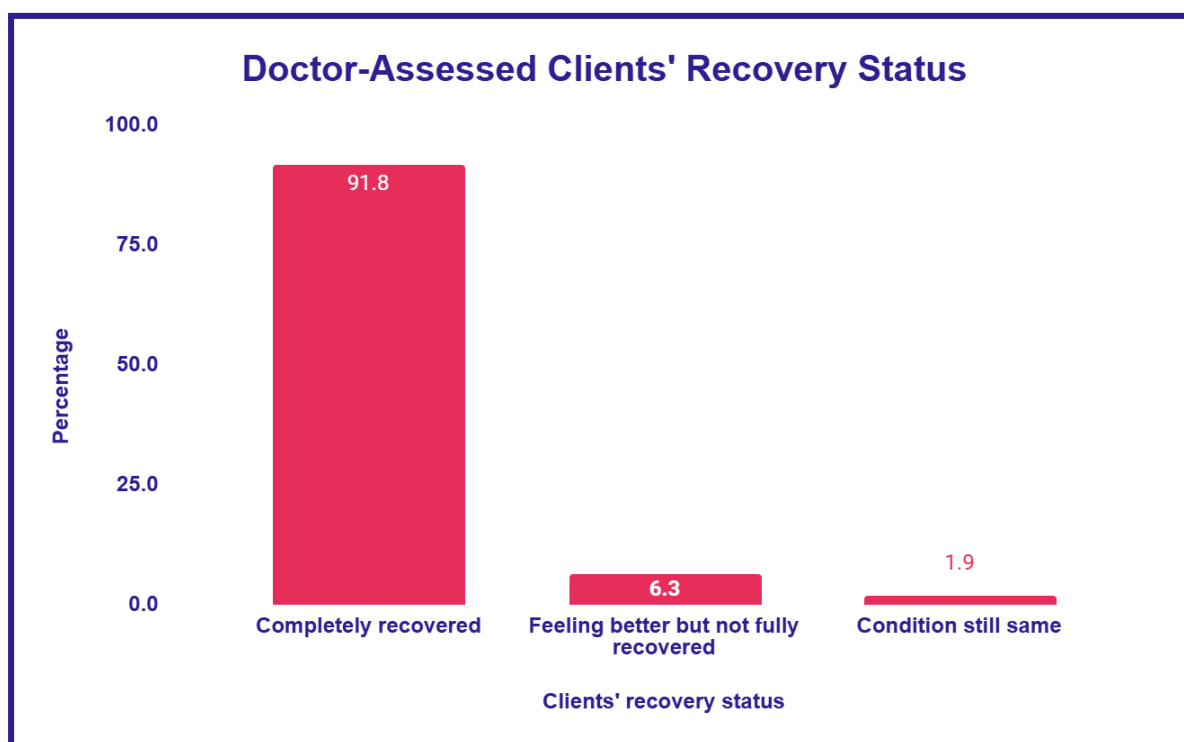




Nearly all clients, **99.4% (N=318)**, received the prescribed medication, and an equal proportion, **99.4% (N=318)**, adhered to their treatment, demonstrating a high level of compliance. Only **0.6% (N=318)** were not prescribed medication because they were referred to a higher facility for further consultation and management.

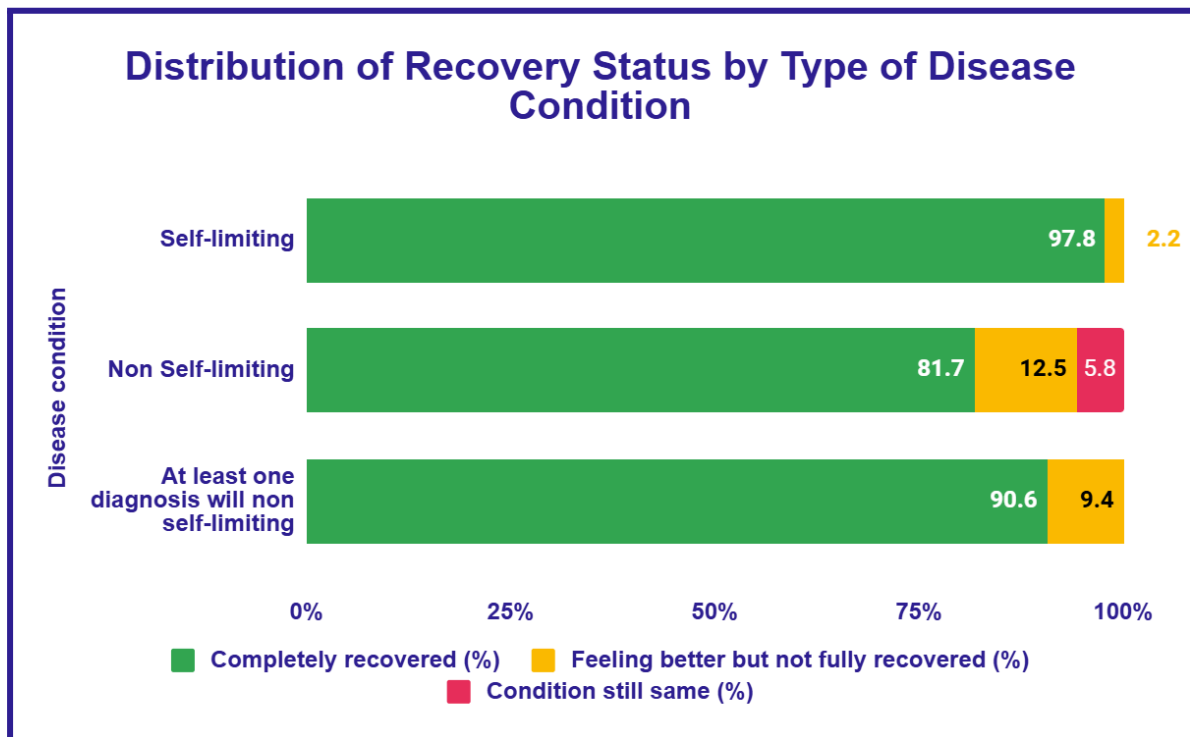
### Doctor-Assessed Clients' Recovery Status (Across Episodes)

The recovery assessments (after follow-up) were conducted by an independent doctor to ensure impartiality. Out of the 318 clients, **292 (91.8%) were completely recovered**, **20 (6.3%) were feeling better but not fully recovered**, and 6 (1.9%) showed no improvement in their condition.



### Client Recovery Status by Disease Condition: Results from Bivariate Cross-tabulation

Client recovery outcomes varied notably by disease condition. Among 182 clients identified with self-limiting conditions, 178 (97.8%) were completely recovered and 4 (2.2%) reported feeling better but not fully recovered. In contrast, among 104 clients with non self-limiting conditions, 85 (81.7%) were completely recovered, 13 (12.5%) were partially recovered, and 6 (5.8%) showed no improvement. Thirty-two clients with at least one non self-limiting diagnosis, 29 (90.6%) completely recovered and 3 (9.4%) were partially recovered.



#### Client Recovery Outcomes for Disease Conditions by PHI Category

A bivariate cross-tabulation was conducted to examine the distribution of disease condition types among clients who were completely recovered (N = 292), stratified by Public Health Importance (PHI) category.

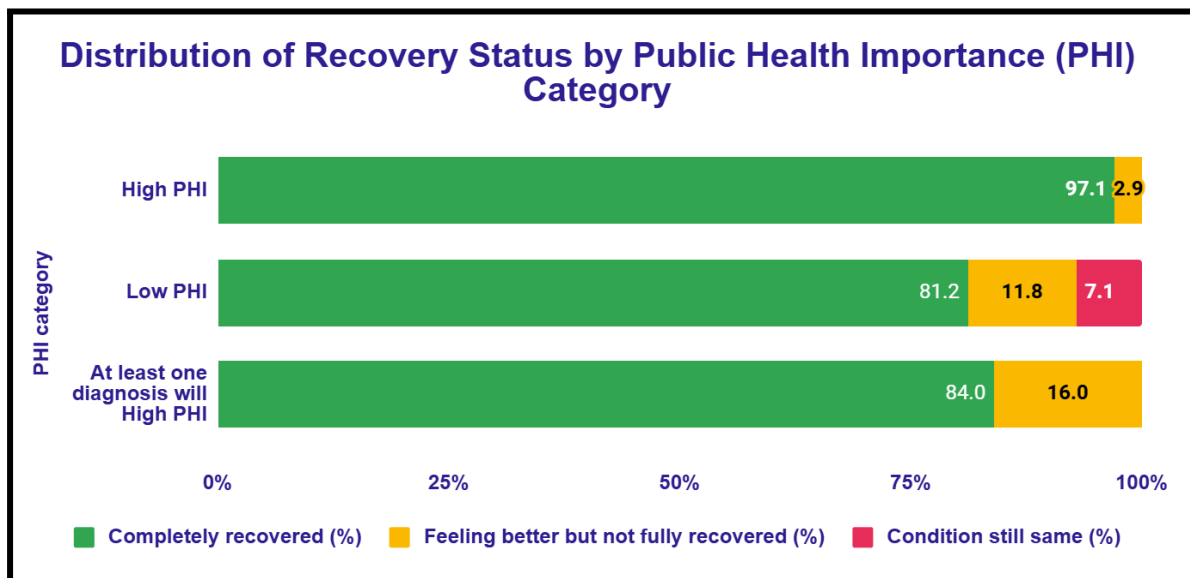
The findings indicate that among 202 high-PHI cases that fully recovered, 158 (78.2%) had self-limiting conditions, 37 (18.3%) had non-self limiting conditions, and 7 (3.5%) had at-least one non-self limiting condition. This suggests that while some clients with High - PHI and self-limiting conditions may have recovered on their own, telemedicine helped manage High PHI-non-self-limiting cases, ensuring timely medical advice, and supporting recovery where intervention was necessary.

|                  | Condition of Disease |                       |                                                   |       |
|------------------|----------------------|-----------------------|---------------------------------------------------|-------|
| PHI category     | Self-limiting (%)    | Non Self-limiting (%) | At least one diagnosis will non self-limiting (%) | Total |
| High PHI (N=202) | 78.2                 | 18.3                  | 3.5                                               | 100   |

|                                             |      |      |      |     |
|---------------------------------------------|------|------|------|-----|
| Low PHI (N=69)                              | 26.1 | 66.7 | 7.3  | 100 |
| At least one diagnosis will High PHI (N=21) | 9.5  | 9.5  | 81.0 | 100 |
| Total (N=292)                               | 61.0 | 29.1 | 9.9  | 100 |

### Client Recovery Status by PHI Category: Results from Bivariate Cross-tabulation

Client recovery outcomes also varied by PHI category. Among 208 clients with high PHI conditions, **202 (97.1%) were completely recovered** and 6 (2.9%) were partially recovered. Among 85 clients with low PHI conditions, **69 (81.2%) were fully recovered**, 10 (11.8%) were partially recovered, and 6 (7.1%) showed no improvement. Among 25 clients with at least one high PHI diagnosis, **21 (84.0%) were completely recovered** and 4 (16.0%) were partially recovered.



### Recovery Status by CPHC Service Category<sup>3</sup>

Recovery outcomes varied across 374 recorded episodes within Comprehensive Primary Health Care (CPHC) services. Neonatal and infant care recorded 100.0% (N=12) episodes of full recovery. Childhood and adolescent health care episodes recorded 98.0% (N=147) episodes of full recovery. All episodes related to family planning services (N=3) and emergency medical services (N=1) also achieved complete recovery. Common communicable diseases and minor ailments recorded 90.2% (N=82) episodes of full recovery. Care for common ophthalmic and ENT problems had 96.4% (N=56) episodes of full recovery. Four out of five episodes of basic oral health care recorded full recovery. Elderly and palliative care had the lowest recovery, with 77.6% (N=67) episodes of full recovery and 8 episodes showed no improvement. In terms of proportions of cases

<sup>3</sup> A total of 374 episodes of diagnosis were analysed and categorised into CPHC service categories.

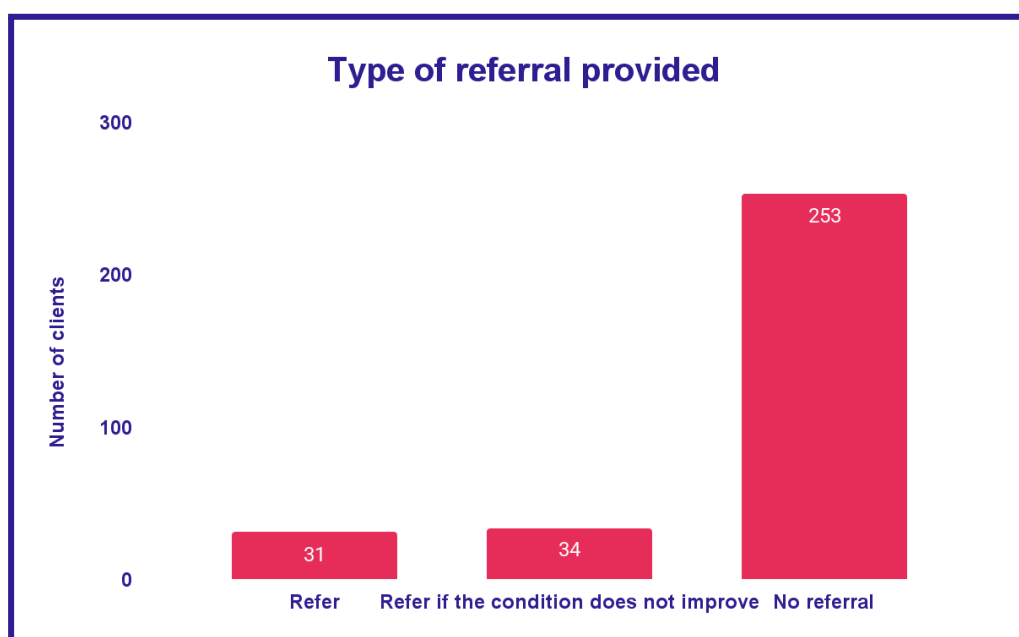
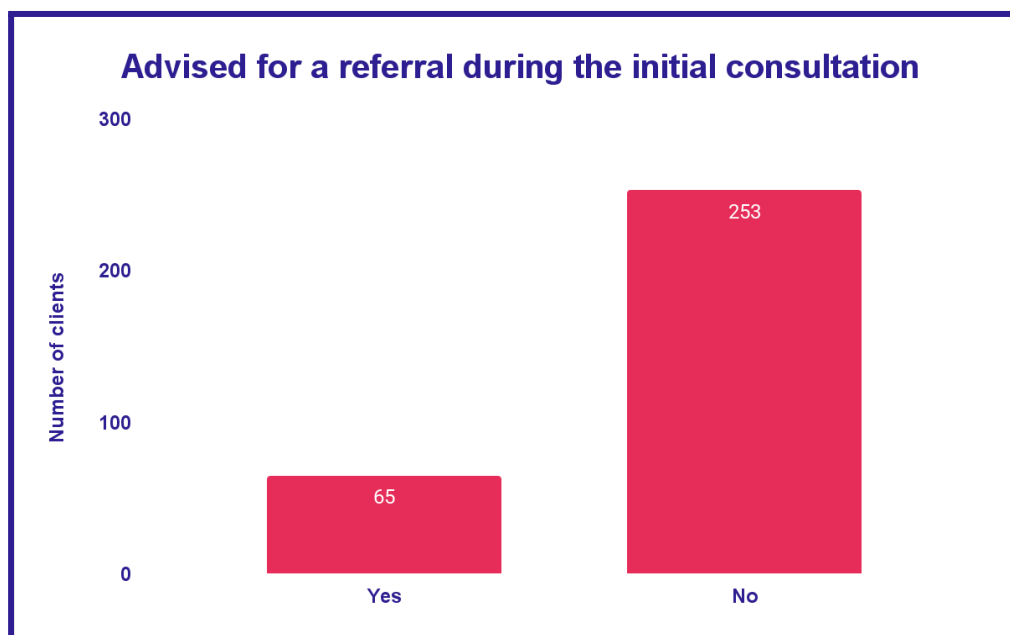
recovered, non-communicable diseases had the poorest outcome overall, with the only recorded episode showing no improvement.

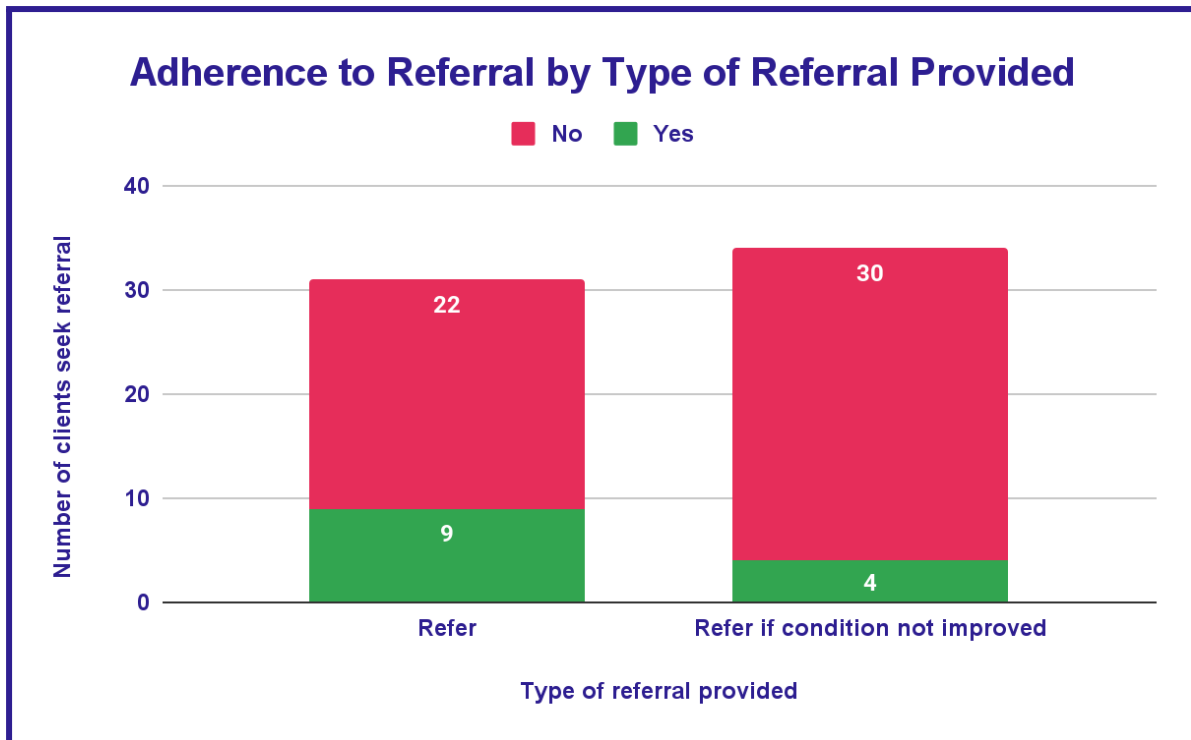
| CPHC Category Services                                                                                       | Recovery Status (N=374)  |                                            |                          |            |
|--------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------|--------------------------|------------|
|                                                                                                              | Completely Recovered (n) | Feeling Better but Not Fully Recovered (n) | Condition Still Same (n) | Total (N)  |
| Neonatal and infant health care services                                                                     | 12                       | 0                                          | 0                        | 12         |
| Childhood and adolescent health care services                                                                | 144                      | 3                                          | 0                        | 147        |
| Family planning, contraceptive services, and other reproductive health care services                         | 3                        | 0                                          | 0                        | 3          |
| Management of common communicable diseases and outpatient care for acute simple illnesses and minor ailments | 74                       | 5                                          | 3                        | 82         |
| Screening, prevention, control, and management of non-communicable diseases                                  | 0                        | 0                                          | 1                        | 1          |
| Care for common ophthalmic and ENT problems                                                                  | 54                       | 2                                          | 0                        | 56         |
| Basic oral health care                                                                                       | 4                        | 0                                          | 1                        | 5          |
| Elderly and palliative health care services                                                                  | 52                       | 7                                          | 8                        | 67         |
| Emergency medical services                                                                                   | 1                        | 0                                          | 0                        | 1          |
| <b>Total</b>                                                                                                 | <b>344</b>               | <b>17</b>                                  | <b>13</b>                | <b>374</b> |

## Client Adherence to Referral

The referrals were categorized as unconditional referrals, where the treating doctor directly advised a referral during the initial consultation, and conditional referrals, where a referral was recommended only if the client's symptoms did not improve.

During initial teleconsultations, **65 of the 318 clients were referred for in-person consultation**. Of those advised, **34 cases (10.7%) were advised to seek a referral only if their condition did not improve**. Among the 65 clients advised for referral, 13 cases adhered to the referral and sought further care.





Thirteen clients sought care, **of whom 5 reported symptom improvement, and 3 felt better after following the referral.** Other reasons for referral outcome are illustrated in the table below:

| Clients' Reported Outcome After Seeking Referral   | Freq.     | Percent    |
|----------------------------------------------------|-----------|------------|
| Symptoms improved with treatment                   | 5         | 38.5       |
| Client took the referral and is now feeling better | 3         | 23.1       |
| Client went to the PHC and started treatment       | 1         | 7.7        |
| Still Experiencing Symptoms                        | 1         | 7.7        |
| Client is visiting PHC for ANC care                | 1         | 7.7        |
| Client is going to the Anganwadi for nutrition     | 1         | 7.7        |
| Client took TT injections                          | 1         | 7.7        |
| <b>Total</b>                                       | <b>13</b> | <b>100</b> |

The reasons for not seeking referral are illustrated in the table below:

| <b>Clients' Reported Reasons for Not Seeking Referral (Unconditional Referral)</b> | <b>Freq.</b> | <b>Percent</b> |
|------------------------------------------------------------------------------------|--------------|----------------|
| Financial constraints                                                              | 2            | 9.1            |
| Transport issues                                                                   | 2            | 9.1            |
| Lack of companion (client stays alone)                                             | 3            | 13.6           |
| Family issues                                                                      | 1            | 4.6            |
| Symptoms improved with treatment                                                   | 13           | 59.1           |
| Reason not specified                                                               | 1            | 4.6            |
| <b>Total</b>                                                                       | <b>22</b>    | <b>100</b>     |

| <b>Clients' Reported Reasons for Not Seeking Referral (Conditional Referral).</b> | <b>Freq.</b> | <b>Percent</b> |
|-----------------------------------------------------------------------------------|--------------|----------------|
| Transport issues                                                                  | 1            | 3.3            |
| Family issues                                                                     | 1            | 3.3            |
| Symptoms improved with treatment                                                  | 24           | 80.0           |
| Pain subsided, so referral was not sought                                         | 2            | 6.7            |
| Reason not specified                                                              | 2            | 6.7            |
| <b>Total</b>                                                                      | <b>30</b>    | <b>100</b>     |

## Discussion

This study offers early evidence on health outcomes following teleconsultations provided through the Arogya Sampada (AS) telemedicine initiative, implemented in two tribal blocks of the Nashik district, Maharashtra. While limited in geographic and sample scope, the findings add to a growing body of evidence on the role of telemedicine in primary care delivery in low-resource settings, particularly in rural India.

The study was designed to assess client recovery after receiving teleconsultations, an area that remains under-researched despite the rapid scale-up of telemedicine services nationally. Most existing evaluations focus on utilization or satisfaction metrics; fewer studies examine clinical outcomes. By using independent medical coding and outcome assessments, this study attempts to bridge that gap, offering a structured approach to validating recovery in real-world settings.

Findings from this study point to the potential utility of teleconsultations in supporting recovery from common conditions, particularly for self-limiting and high public health importance (PHI) illnesses. High rates of reported recovery, coupled with near-universal medication adherence, suggest that in certain clinical scenarios—such as uncomplicated respiratory or gastrointestinal infections—teleconsultations may serve as an effective and acceptable mode of care. However, effectiveness was more limited for non-communicable diseases and geriatric care, where in-person follow-up, longitudinal care plans, and diagnostic capacity are often essential.

In health outcomes research, improvement in non-self-limiting conditions (e.g., hypertension, diabetes, infections requiring antibiotics) is a strong indicator of program impact. These conditions typically require medical intervention—without which they would persist or worsen. In contrast, self-limiting conditions (e.g., the common cold or minor viral fevers) resolve on their own over time, though intervention can reduce symptom duration, severity, and distress. Evaluating outcomes based on a condition's public health importance (PHI) helps highlight the broader value of care. Conditions with high PHI are those with significant implications for individual health, community well-being, or public health infrastructure (e.g., TB, malaria, maternal health issues). Improvements in such areas signal meaningful societal impact.

However, it's important to recognize that even self-limiting or low-PHI conditions matter—particularly when viewed through a health equity lens. Individuals from under-resourced settings often lack access to timely care or even basic symptom relief. For example, while someone in an urban area might treat a fever quickly with over-the-counter medicine and recover in a day or two, a person in rural Nashik may suffer through five to seven days of illness due to lack of access to basic care—resulting in lost income, prolonged discomfort, and avoidable suffering. These equity gaps are especially stark for women, who often deprioritize their own health or face additional barriers to care. Providing care even for “minor” conditions can therefore significantly improve quality of life and affirm the right to health for all.

### **Rights, Gender, and Equity Implications**

The outcomes of the Arogya Sampada program point to more than clinical recovery; they also reflect advances in rights and equity. A recovery rate of over 90% demonstrates that timely teleconsultations can enable meaningful improvements in health status for rural and tribal populations. In rights terms, this reinforces the idea that the right to health is realized not simply when services exist, but when they lead to tangible health gains for those who have historically been excluded.

From a universal health coverage perspective, the evidence of recovery in both self-limiting and non-self-limiting conditions shows that remote care can deliver equitable outcomes across a spectrum of illnesses. For conditions of high public health importance—such as respiratory and diarrheal diseases—rapid recovery prevents community-level transmission and reduces the social burden of illness. Even when addressing common, self-limiting illnesses, the intervention reduces unnecessary suffering, lost wages, and avoidable delays



in recovery—outcomes that are particularly significant for low-income households. For non-self-limiting conditions, early and appropriate care helps avert complications and reduces the risk of catastrophic health expenditure by offering timely treatment closer to home.

The gender dimension is particularly notable. Women comprised two-thirds of clients, and their high rates of adherence and recovery indicate that teleconsultations are not only reaching them but also translating into improved health outcomes. This matters because women often delay or forgo treatment due to competing household priorities. Faster recovery for women translates into greater well-being, reduced caregiving burdens, and improved household stability.

At the same time, outcome gaps—such as lower recovery rates in elderly clients and those with chronic conditions—highlight equity challenges. These groups experience compounded vulnerabilities, and their limited recovery underscores the need for more robust referral pathways, longer-term management strategies, and integrated follow-up. Ensuring equitable outcomes means not only celebrating overall recovery but also addressing where gaps persist.

In sum, the findings show that teleconsultations can generate measurable improvements in recovery across diverse outpatient conditions and populations. Framing these gains as part of a rights-based and equity-focused agenda emphasizes that effective outcomes—not just access—are the true measure of universal health coverage in practice.

While promising, these results must be interpreted cautiously. The study is based on a small selected sample of clients, where disease burden may be limited by the geography of operation, and does not include a control or comparison group. Recovery was assessed retrospectively at a single follow-up point, and client reported responses may be subject to bias. The findings therefore reflect observed associations, not causal impacts. Moreover, the study excluded cases likely to be self-limiting and of low public health importance in the screening stage, limiting generalizability.

Nonetheless, the study offers several important implications for policy and program design. First, teleconsultations may be integrated more systematically as part of India's primary healthcare strategy, especially for conditions where in-person care is not essential. Second, ensuring medication access and follow-up through frontline health workers appears to be a critical success factor and should be prioritized in scaling such models. Third, referral adherence remains a challenge—future iterations of telemedicine programs should explore referral tracking systems, transport support, and community-level education to close this gap.

From a research perspective, this study highlights the feasibility of conducting structured outcome validation in rural telemedicine programs and calls for larger, prospective evaluations that include control groups, track long-term outcomes, and assess cost-effectiveness. Future research should also examine whether improvements observed in

recovery translate into broader gains in service equity, financial protection, and system efficiency.

While limited in scope, this study underscores that teleconsultations—when accompanied by appropriate follow-up mechanisms—can contribute meaningfully to care delivery in underserved settings. However, realizing their full potential will require further evidence, systems-level integration, and intentional program design to ensure they are responsive to the needs of diverse populations.

## Conclusion

This study aimed to assess the impact of teleconsultations under the Arogya Sampada (AS) program on client health outcomes, specifically recovery following remote consultations. Among the 318 clients and 374 diagnostic episodes analyzed, the majority reported full recovery, particularly for self-limiting and high public health importance (PHI) conditions. These results suggest that teleconsultations—when accompanied by medicine delivery and follow-up mechanisms—may support clinical recovery for select conditions in rural tribal settings.

In relation to the secondary objectives, the study documented a diverse distribution of health conditions. Respiratory infections and minor communicable diseases were most common, with over two-thirds of all diagnoses falling under high PHI categories. Furthermore, 41.2% of all conditions were non-self-limiting, of which 83.1% resulted in full recovery—indicating a positive trend but also signaling areas where follow-up care and continuity may be crucial. Recovery outcomes, when categorized by ICD-11 codes, revealed that certain service areas—such as childhood care—achieved higher recovery, while elderly care and NCDs had relatively low recovery, albeit assessed with small sample sizes.

While these findings are promising, they are context-specific and must be interpreted within the study's limitations—most notably the absence of a control group, non-random sampling, and reliance on client reported data. Despite these constraints, the study demonstrates the feasibility of outcome-focused evaluations in telemedicine settings and contributes initial evidence on how remote care may influence recovery in underserved geographies.

In sum, this study answers its central research question by providing early, context-bound evidence that teleconsultations have the potential to support client recovery, particularly for common and acute conditions, in low-access settings. However, broader conclusions about program effectiveness or scalability require further research through more robust, comparative designs.

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## Annexure

### List of all Diagnoses

| Sr.N. | Diagnosis                                | ICD11 code | Episodes of Diagnosis |
|-------|------------------------------------------|------------|-----------------------|
| 1     | Upper Respiratory Tract Infection (URTI) | CA07.0     | 77                    |
| 2     | Acute Pharyngitis                        | CA02.Z     | 64                    |
| 3     | Acute Rhinitis                           | CA00       | 39                    |
| 4     | Scabies                                  | 1G04.Z     | 27                    |
| 5     | Lower Respiratory Tract Infection (LRTI) | CA4Y       | 19                    |
| 6     | Osteoarthritis                           | FA0Z       | 17                    |
| 7     | Gastritis                                | DA42.Z     | 13                    |
| 8     | Tinea Corporis                           | 1F28.Y     | 13                    |
| 9     | Viral Fever                              | 1D86       | 11                    |
| 10    | Gastroenteritis                          | 1A40       | 10                    |
| 11    | Acute Diarrhea                           | 1A40       | 9                     |
| 12    | Muscle sprain                            | FB32.5     | 7                     |
| 13    | Acute Gastroenteritis                    | 1A40.0     | 5                     |
| 14    | Dental caries                            | DA08.0     | 5                     |
| 15    | Amoebiasis                               | 1A36.Z     | 4                     |
| 16    | Dermatitis                               | EA8Z       | 4                     |
| 17    | Fatigue                                  | MG22       | 4                     |
| 18    | Otitis media                             | AB00       | 4                     |
| 19    | Pustule                                  | ME66.Y     | 3                     |
| 20    | Acute Arthritis                          | FA2Z       | 2                     |
| 21    | Cough                                    | MD12       | 2                     |
| 22    | Dysmenorrhea                             | GA34.3     | 2                     |
| 23    | Essential hypertension                   | BA00.Z     | 2                     |
| 24    | Headache                                 | MB4D       | 2                     |
| 25    | Impetigo                                 | 1B72.Z     | 2                     |
| 26    | Migraine                                 | 8A80.Z     | 2                     |
| 27    | Sinusitis                                | CA0A       | 2                     |

| Sr.N.              | Diagnosis                                               | ICD11 code | Episodes of Diagnosis |
|--------------------|---------------------------------------------------------|------------|-----------------------|
| 28                 | Tinea Cruris                                            | 1F28.3     | 2                     |
| 29                 | Abdominal or pelvic pain                                | MD81       | 1                     |
| 30                 | Angular cheilitis                                       | DA00.0     | 1                     |
| 31                 | Burns                                                   | ND95.Z     | 1                     |
| 32                 | Chronic Arthritis                                       | FA2Z       | 1                     |
| 33                 | Colitis                                                 | 1A40.0     | 1                     |
| 34                 | Diarrhea                                                | ME05.1     | 1                     |
| 35                 | Dysuria                                                 | MF50.7     | 1                     |
| 36                 | Functional Constipation                                 | DD91.1     | 1                     |
| 37                 | Glossitis                                               | DA03.0     | 1                     |
| 38                 | Infection of the Skin                                   | 1B7Y       | 1                     |
| 39                 | Mastitis                                                | GB21       | 1                     |
| 40                 | Otitis external                                         | AA3Z       | 1                     |
| 41                 | Paronychia                                              | EE12.0     | 1                     |
| 42                 | Physical trauma                                         | ND56       | 1                     |
| 43                 | Stress Headache                                         | 8A81.Z     | 1                     |
| 44                 | Superficial injury of the abdomen, lower back or pelvis | NB50       | 1                     |
| 45                 | Superficial injury of the forearm                       | NC30.Z     | 1                     |
| 46                 | Superficial injury of lower limb, level unspecified     | ND30       | 1                     |
| 47                 | Tinea Unguium                                           | 1F28.1     | 1                     |
| 48                 | Urinary tract infection                                 | GC08       | 1                     |
| 49                 | Vertigo                                                 | MB48.0Z    | 1                     |
| <b>Grand Total</b> |                                                         |            | <b>374</b>            |

Non-self-limiting diagnoses are conditions that do not resolve on their own without medical intervention. These typically require treatment, management, or ongoing care.

#### List of Non-Self-Limiting with Diagnoses

| Sr.N. | Diagnosis                                | Freq. | Percent |
|-------|------------------------------------------|-------|---------|
| 1     | Abdominal or pelvic pain                 | 1     | 0.7     |
| 2     | Acute Arthritis                          | 1     | 0.7     |
| 3     | Acute Diarrhea                           | 8     | 5.2     |
| 4     | Acute Gastroenteritis                    | 5     | 3.3     |
| 5     | Acute Pharyngitis                        | 1     | 0.7     |
| 6     | Amoebiasis                               | 4     | 2.6     |
| 7     | Angular cheilitis                        | 1     | 0.7     |
| 8     | Burns                                    | 1     | 0.7     |
| 9     | Chronic Arthritis                        | 1     | 0.7     |
| 10    | Colitis                                  | 1     | 0.7     |
| 11    | Dental caries                            | 5     | 3.3     |
| 12    | Dermatitis                               | 2     | 1.3     |
| 13    | Diarrhea                                 | 1     | 0.7     |
| 14    | Dysuria                                  | 1     | 0.7     |
| 15    | Essential hypertension                   | 2     | 1.3     |
| 16    | Fatigue                                  | 4     | 2.6     |
| 17    | Functional Constipation                  | 1     | 0.7     |
| 18    | Gastritis                                | 12    | 7.8     |
| 19    | Gastroenteritis                          | 9     | 5.8     |
| 20    | Glossitis                                | 1     | 0.7     |
| 21    | Impetigo                                 | 2     | 1.3     |
| 22    | Infection of Skin                        | 1     | 0.7     |
| 23    | Lower Respiratory Tract Infection (LRTI) | 16    | 10.4    |
| 24    | Mastitis                                 | 1     | 0.7     |
| 25    | Migraine                                 | 2     | 1.3     |
| 26    | Muscle sprain                            | 1     | 0.7     |

| Sr.N.              | Diagnosis                                           | Freq.      | Percent    |
|--------------------|-----------------------------------------------------|------------|------------|
| 27                 | Osteoarthritis                                      | 10         | 6.5        |
| 28                 | Otitis media                                        | 4          | 2.6        |
| 29                 | Paronychia                                          | 1          | 0.7        |
| 30                 | Pustule                                             | 3          | 2.0        |
| 31                 | Scabies                                             | 27         | 17.5       |
| 32                 | Superficial injury of abdomen, lower back or pelvis | 1          | 0.7        |
| 33                 | Superficial injury of forearm                       | 1          | 0.7        |
| 34                 | Superficial injury of lower limb, level unspecified | 1          | 0.7        |
| 35                 | Tinea Corporis                                      | 13         | 8.4        |
| 36                 | Tinea Cruris                                        | 2          | 1.3        |
| 37                 | Tinea Unguium                                       | 1          | 0.7        |
| 38                 | Upper Respiratory Tract Infection (URTI)            | 4          | 2.6        |
| 39                 | Urinary tract infection                             | 1          | 0.7        |
| <b>Grand Total</b> |                                                     | <b>154</b> | <b>100</b> |

#### List of High-PHI with Diagnoses

| Sr.N. | Diagnosis              | Freq. | Percent |
|-------|------------------------|-------|---------|
| 1     | Acute Diarrhea         | 9     | 3.7     |
| 2     | Acute Gastroenteritis  | 5     | 2.0     |
| 3     | Acute Pharyngitis      | 64    | 26.1    |
| 4     | Acute Rhinitis         | 39    | 15.9    |
| 5     | Amoebiasis             | 4     | 1.6     |
| 6     | Burns                  | 1     | 0.4     |
| 7     | Colitis                | 1     | 0.4     |
| 8     | Cough                  | 2     | 0.8     |
| 9     | Diarrhea               | 1     | 0.4     |
| 10    | Dysmenorrhea           | 1     | 0.4     |
| 11    | Essential hypertension | 2     | 0.8     |
| 12    | Gastroenteritis        | 10    | 4.1     |

| Sr.N.              | Diagnosis                                | Freq.      | Percent    |
|--------------------|------------------------------------------|------------|------------|
| 13                 | Impetigo                                 | 1          | 0.4        |
| 14                 | Lower Respiratory Tract Infection (LRTI) | 19         | 7.8        |
| 15                 | Mastitis                                 | 1          | 0.4        |
| 16                 | Otitis external                          | 1          | 0.4        |
| 17                 | Otitis media                             | 4          | 1.6        |
| 18                 | Sinusitis                                | 2          | 0.8        |
| 19                 | Upper Respiratory Tract Infection (URTI) | 77         | 31.4       |
| 20                 | Viral Fever                              | 1          | 0.4        |
| <b>Grand Total</b> |                                          | <b>245</b> | <b>100</b> |

#### List of Medication Prescribed

| Sr.N. | Medicine Prescribed           | Freq. |
|-------|-------------------------------|-------|
| 1     | Paracetamol                   | 219   |
| 2     | Levocetirizine Tablet         | 140   |
| 3     | Dextromethorphan              | 78    |
| 4     | Ambroxol                      | 57    |
| 5     | Levosulbutamol                | 57    |
| 6     | Guaifensin                    | 57    |
| 7     | Omeprazole                    | 33    |
| 8     | Oral Rehydration Salts (ORS)  | 29    |
| 9     | Permethrin Cream              | 28    |
| 10    | Ibuprofen                     | 23    |
| 11    | Levocetirizine Oral Liquid    | 21    |
| 12    | B-Complex (Multivitamin)      | 16    |
| 13    | Clotrimazole (Lotion & Cream) | 16    |
| 14    | Zinc Sulphate Dispersible     | 15    |
| 15    | Cefixime Oral Liquid          | 14    |
| 16    | Amoxicillin                   | 13    |



| Sr.N.              | Medicine Prescribed             | Freq.      |
|--------------------|---------------------------------|------------|
| 17                 | Cefixime Tablet                 | 12         |
| 18                 | Clavulanic Acid Tablet          | 12         |
| 19                 | Dicyclomine                     | 9          |
| 20                 | Saline Nasal Drops              | 9          |
| 21                 | Mupirocin Ointment              | 8          |
| 22                 | Metronidazole                   | 7          |
| 23                 | IFA (Ferrous Salt + Folic Acid) | 5          |
| 24                 | Calcium Carbonate Tablet        | 4          |
| 25                 | Doxycycline                     | 3          |
| 26                 | Ciprofloxacin                   | 2          |
| 27                 | Chlorpheniramine Maleate        | 1          |
| 28                 | Phenylephrine                   | 1          |
| 29                 | Milk of Magnesia                | 1          |
| <b>Grand Total</b> |                                 | <b>890</b> |



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