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صحت خدمت
صحت عبادت

CHIEF MINISTER'S
INITIATIVE FOR PROMOTING HEALTH AND WELL BEING
THROUGH INTEGRATED SCREENING CAMPS

SECOND HEALTH WEEK FEBRUARY 2018 REPORT



Primary & Secondary
Health care Department

SECOND HEALTH WEEK REPORT - FEBRUARY 2018

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We would like to thank the Chief Minister Punjab, Mian Muhammad Shehbaz Sharif for his vision of effective implementation of healthcare development projects and his continued support for such initiatives that aim to bring quality healthcare in Punjab.

Special thanks to our development partners (WHO, UNICEF, Bill & Melinda Gates Foundation) for their valuable inputs on first health week report which paved the way for improvements.

The Second Health Week shall play a pivotal role to fulfil the Government of Punjab commitment towards disease prevention through raising self-consciousness of health and disease screening among masses. The success of this event was not possible without the dedication and tireless efforts of all the elements of department including DGHS, Vertical Programs, PHFMC and DHAs.

KHAWAJA IMRAN NAZIR

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Resolve of the Leadership

MIAN MUHAMMAD SHEHBAZ SHARIF

CHIEF MINISTER PUNJAB

Government of the Punjab is committed to provide quality health services to the people of Punjab. Disease prevention is a key priority area for improving health of general population and has been given due focus in our roadmap to achieve health for all in Punjab. P&SHD is working tirelessly to translate this vision into reality. The efforts made by P&SHD in this regard are commendable. By the grace of God, I as Chief Minister Punjab, have been blessed with an opportunity to fulfill this commitment with unfathomable trust of my team.



KHAWAJA IMRAN NAZIR

MINISTER PRIMARY AND SECONDARY HEALTHCARE DEPARTMENT

The prosperity and development of a community is linked with health status of its people. The Government of Punjab is putting efforts on disease prevention and health promotion to raise the health status of population to empower them socially and economically. At the same time, uplifting of standards at primary and secondary healthcare facilities is also being given due focus. Initiatives like Health Week can play a vital role in promoting health seeking behaviors and awareness in the community.



ALI JAN KHAN

SECRETARY PRIMARY AND SECONDARY HEALTHCARE DEPARTMENT

Health Week 2018 was a continuation of department's initiative of disease screening and provision of preventive services to every member of community. It was a great success in terms of overwhelming response from the public to avail the services. The meaningful and practical insights from the data collected during Health Week is a stepping stone for policy makers to improve the delivery of health services and focus on disease prevention and control. The department is devoted to inculcate such activities in the regular healthcare system.



List of Abbreviations

| | |
|-------|---|
| ANC | Antenatal Check up |
| BHU | Basic Health Unit |
| BMI | Body Mass Index |
| BP | Blood Pressure |
| BSR | Blood Sugar Random |
| COPD | Chronic Obstructive Pulmonary Disease |
| DHAs | District Health Authorities |
| DHQH | District Head Quarter Hospital |
| EPI | Expanded Program on Immunization |
| HBV | Hepatitis B Virus |
| HCV | Hepatitis C Virus |
| HISDU | Health Information Service Delivery Unit |
| HIV | Human Immunodeficiency Virus |
| MUAC | Mid Upper Arm Circumference |
| NCDs | Non-Communicable Diseases |
| P&SHD | Primary and Secondary Healthcare Department |
| PHFMC | Punjab Health Facilities Management Company |
| PLWs | Pregnant and Lactating Womens |
| RHC | Rural Health Center |
| TB | Tuberculosis |
| THQH | Tehsil Head Quarter Hospital |

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1 Background

Screening is one of the strategic approaches for any healthcare system to diagnose the unidentified cases falling below the tip of the iceberg of disease in the population. Screening avails the opportunity of lead time by early detection of disease at an uncomplicated stage. In the developed countries, screening against selected diseases is entrenched in their routine healthcare systems. This arrangement has considerably abridged the morbidity and mortality rates of Communicable and Non-communicable diseases. In Pakistan, absence of early screening has been leading to majority of population presenting to hospitals at later stages of disease/s and with complications.

Primary and Secondary Healthcare Department had taken initiative to screen the population against selected diseases and their risk factors along with provision of basic preventive health services following an integrated approach through district level integrated screening camps. One module of these activities was unfolded as Health Week 2017. In continuation of commitment towards the cause, the department conducted second health week in February 2018.

The concept of second Health Week was rooted in the existing basic model of integrated screening camps and first health week 2017. However, in light of the overwhelming response from public and the lessons learnt during the first Health Week, the design was modulated. **Second Health Week** was conducted from 19th to 24th February 2018 across Punjab in the form of integrated screening camps at 700 Health Facilities and community based activities of MCH week.

2 Objectives

- i. To assess the situation related to burden of disease, missed/unknown cases of hypertension, diabetes, asthma and COPD, Tuberculosis, HIV AIDS, Malaria Viral Hepatitis B and C, Anaemia among subject population
- ii. To ensure continuity of care for screened positive cases in terms of diagnosis, treatment and management of disease complications through existing health care system supported by respective vertical program
- iii. To immunize subject population against Hepatitis B and other vaccines under EPI for children while advising adult population about other recommended vaccines
- iv. Deworming of all children aged 2-5 years and school going children through School Health and Nutrition Supervisors
 - v. Identification of anaemic pregnant and lactating women and further management
 - vi. Screening of children aged 6-59 months through LHW in their catchment area to identify moderately and severely acute malnourished children (MAM and SAM) and their appropriate referral
 - vii. Screening and Deworming of Adolescent Girls through LHWs at household level
- viii. To enhance public awareness on healthy lifestyles, importance of antenatal care and immunization by utilizing IEC and Advocacy strategies
- ix. To prepare a central database on the basic demographic profile, risk factors and disease status of people screened during the activity.

3 Scope of Work

After the successful conduction of first Health Week in August 2017, P&SHD immediately initiated planning for second health week to be conducted in February 2018. Operational and screening modalities adopted for second health week were essentially the same as earlier, except enhancement of field operations in terms of increased number of health facilities.

All district health authorities (DHAs) under the supervision and technical assistance of vertical programs of Primary and Secondary Healthcare Department (P&SHD) organized second health week across Punjab. The implementation plan of second Health Week was prepared and shared with the DHAs for effective and efficient execution of activity at all healthcare levels. Logistics were jointly arranged by the provincial programs and districts / Health Facilities. DHAs were overall responsible for microplanning, coordination with relevant tiers, execution, data management, effective supervision and monitoring of the subjective activity on the prescribed format.

4 Operational Methodology

A detailed logistics plan required for the activity was devised in consultation with DGHS and relevant vertical programs. The responsibility for provision of logistics was shared among DGHS office, vertical programs and DHAs. Procurement Cell of P&SHD completed the procurement of provincial logistics through standard procurement process. The logistics were distributed according to distribution plan through TCS to the DHQs, THQs directly and CEO Offices for RHCs and BHUs.

Human resource requirements were modified according to the revised scope & model and was shared with the CEOs and in-charges of the health facilities. DHAs notified and trained HR (doctors and paramedics) to be used for the activity. District Health Managers and Data Entry Operators were also trained on upgraded version of android application by the HISDU before the start of Second Health Week through video link.

Monitoring plan of the Second Health Week 2018 was approved by the Secretary P&SHD. The designated officers carried out the 6 days monitoring of second health week. Performance evaluation of individual health facility was carried out through dedicated android application developed for the purpose. The district health managers were also divided into three teams to carry out monitoring as per the standard checklists.



Figure 1: Methodology used for the Second Health Week 2018

5 Facility Based Integrated Screening Camps

The Step wise approach of integrated screening camps was followed. Different models of screening camps were designed according to the health facility level, targets / expected influx of beneficiaries

Considering the overwhelming response of general population in first health week, number of health facilities was almost doubled with more than 700 health facilities participating in the Second Health Week (all DHQs, THQs, 50% of the RHCs and 15% of the BHUs). (**Annex A – List of Health Facilities**) The minimum targets set against each health facility level remained unchanged.

Table 1: Models Used for Various Level of HFs during Health Week

| HF Level | DHQs | THQs | RHCs | BHUs |
|------------------------------|--|--|---|--|
| No. of HFs | 26 | 110 | 173 | 400 |
| Minimum Target Beneficiaries | 500 per day for 6 days | 300 per day for 6 days | 200 per day for 6 days | 100 per day for 6 days |
| HR Utilized per HF | 30 6 Doctors 6 DEOs 18 Paramed. | 19 3 Doctors 3 DEOs 13 Paramed. | 13 2 Doctors 2 DEOs 9 Paramed. | 4 1 Doctors 1 DEOs 2 Paramed. |

Table 2: HR Requirement for the Screening at various level of HFs

| STEPS | DHQ | THQ | RHC | BHU |
|--------------------------|-----------------------|----------------------|---------------|-----------------------|
| Registration | 5 DEOs | 3 DEOs | 2 DEOs | 1 DEO |
| Physical Parameters | 5 Paramedics | 3 Paramedics | 2 Paramedics | 1 Paramedic |
| Haematological Screening | 6 Paramedics | 4 Paramedics | 2 Paramedics | |
| Vaccination | 4 Vaccinators | 3 Vaccinators | 2 Vaccinators | 1 Vaccinators |
| History & Counselling | 6 Doctors | 3 Doctors | 2 Doctors | 1 Doctor/Paramedic |
| TB Screening | 1 Paramedic | 1 Paramedics | 1 Paramedic | |
| ANC | 1 WMO 2 Paramedics | 1 WMO 1 Paramedic | 2 Paramedic | |

5.1 Screening Tools

Screening for Nutritional status, Non Communicable Diseases like Diabetes, Hypertension, Asthma/ COPD, blood borne Communicable Diseases like Hepatitis B, Hepatitis C, HIV, TB and Malaria was done during Second Health week in integrated screening camps.

Nutritional assessment was done by measuring Height (cm) and weight (kg) of individuals and calculating Body mass index (BMI) that categorizes individuals into underweight (BMI<18.5), Normal (BMI 18.5 – 25), Over weight (BMI 25.1 – 29.9) and Obese (BMI > 30). The waist to Hip ratio (WHR) has been used as an indicator or measure of health, and the risk of developing serious health conditions and abdominal obesity and was calculated by measuring circumference of waist (cm) and Hip (cm). A waist to hip ratio of > 0.9 (> 0.85 for female & >

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0.9 for females) is considered for abdominal Obesity and increased health risk for developing other diseases. Haemoglobin level was tested by using Haemoglobin meters to screen Anaemia (Hb < 8.5 gm/dl = severe anaemia, Hb 8.5 - 9.5 gm/dl = moderate Anaemia, Hb 9.5 - 12 gm/dl for females & 13.5 gm/dl = mild anaemia, Hb > 12 gm/dl for females & 13.5 gm/dl = Normal). Mid upper arm circumference was measured using standard MAUC tape to assess malnutrition in children under 5 years of age and PLWs. Peak expiratory flow rate (PEFR) was measured using Peak flow meter to check airway obstruction that may be caused by asthma or COPD (PEFR < 80% of the normal values = deranged).

To screen the major non communicable disease, Blood Sugar Random (BSR) was tested by glucometer, to screen diabetes (BSR > 140 = High), Blood pressure was checked by mercury sphygmomanometer (B.P > 140/90 = High) to screen for hypertension. Blood borne major infectious diseases like Hepatitis B, C, HIV and malaria were tested using rapid diagnostic kits for whole blood to test HBsAg, Anti-HCV, HIV Ag/Ab, Plasmodium-Ag respectively. The screening for TB was done through sputum collected in a sputum cup. The sputum was sent to lab for microscopy for AFB.

Standard Antenatal care services were provided through trained HR. High risk pregnancies were screened out on the basis of their physical and serological parameters already mentioned in addition to ultrasonography.

5.2 Process Flow – Screening Camps

Separate process flow was followed for the adult and paediatric population. 35-45 min were required by a single person to complete the process flow.

5.2.1 General Process Flow for Adults

In the first Health Week 2017, 8 Steps approach was used. Based on the lessons learnt, Process flow for Second Health Week was redesigned to 7 Steps model. **Step No. 4 “Get Your Lung Health Checked” was merged into Step 2 “Know your Physical Parameters”**. Considering the sensitivity of HIV and possibility of false positive, HIV repeat test was introduced for all screened positive cases. HIV testing was done only at DHQs and THQs. Malaria testing was only performed for the persons with the history of fever within last 15 days. Similarly, TB screening was done only for persons with history of cough for more than 2 weeks. Only pregnant ladies were referred to the ANC counter. At each step, dedicated staff performed the roles assigned related to integrated screening.

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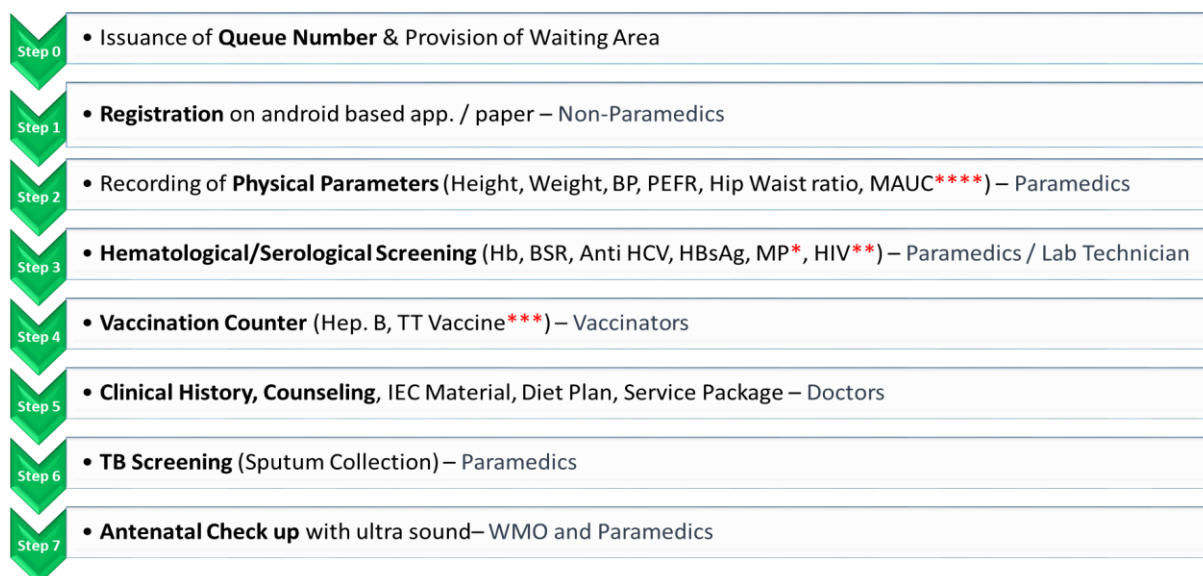


Figure 2: Process Flow for Adults (>14 Years of age)

*MP only for persons with history of fever within last 15 days

**HIV only for Secondary Level Hospitals

***TT Vaccine for women of child bearing age

****For women under 40 years of age

5.2.2 Paediatric Process Flow

The children under 14 years of age were screened only as per following process flow:

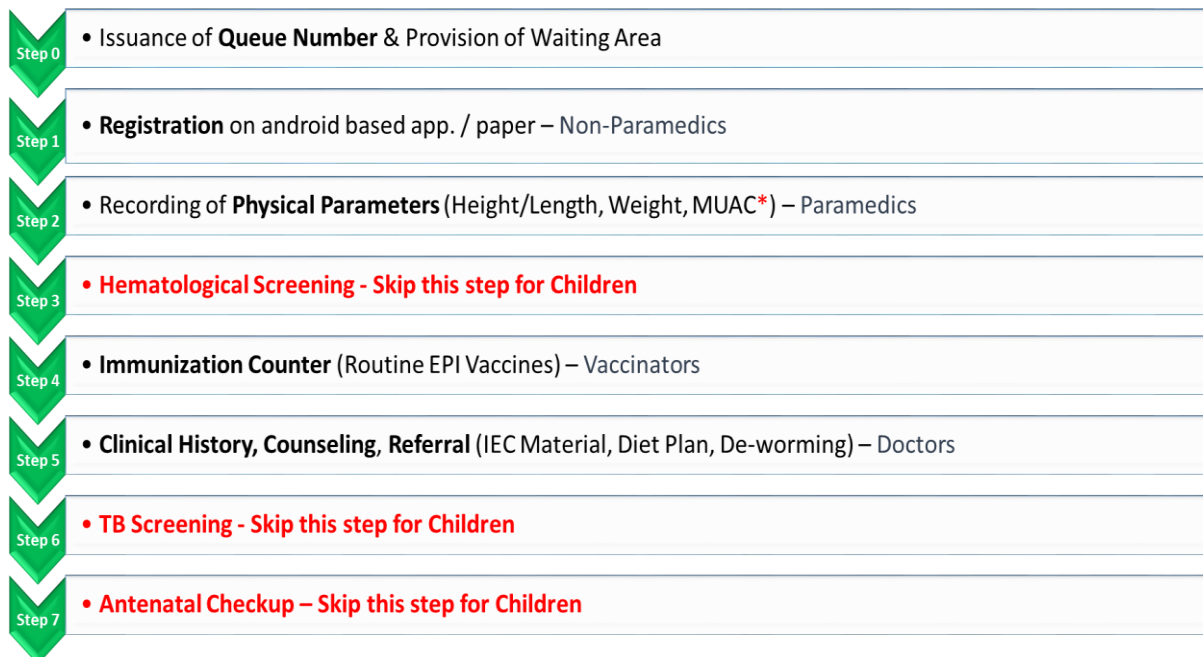


Figure 3: Process Flow for Paediatrics

(Steps marked in red skipped for Paeds)

*MAUC for children under age of 5 years

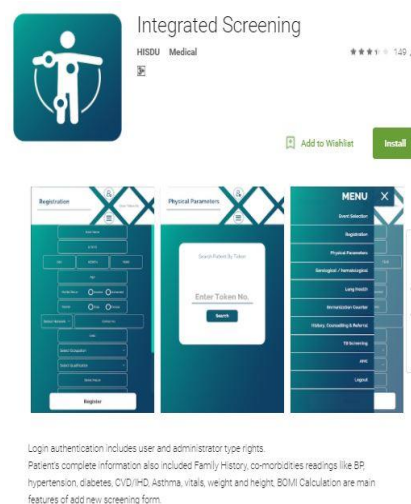
5.3 Data Management

In the first Health Week 2017 activity, *real time* demographic and screening data of more than 300,000 beneficiaries' was managed through a dedicated Integrated Screening App and Monitoring App developed for this purpose. Based on the revised model the android application was improvised through extensive consultative process among all stakeholders. The data was relayed on the central server database in HISDU. Data was masked for personal details, cleaned, analysed, collated and interpreted by experts' personnel of P&SHD.

5.3.1 Integrated Screening App

Integrated Screening Application was used for recording of demographics, physical parameters, screening results and clinical information of the beneficiaries. HISDU in coordination with IT/MIS personnel of vertical programs trained the staff in every district on using android based application. The app was used on Android Tablets with active internet connectivity. All the data was relayed at the servers in HISDU, to ensure access of the data to the relevant vertical programs to be used for planning and policy making.

The app is available on Google Play Store with the name "Integrated Screening App". After downloading the app in android tablets every participating Health Facility was able to use it through a unique Login ID. After signing in, and event selection following series of interfaces were to be filled in sequentially against a unique token no. for **adults**.



5.3.2 Monitoring Checklist App.

The purpose of this android app was to monitor and evaluate each health facility participating in Health Week. The app contains a checklist on which health facilities were rated from a scale of 0-5. Every Provincial Monitor was given a unique login/password to access the Monitoring Checklist App and rate the assigned health facilities.

The app is available at Google Play Store with the name "Monitoring Checklist App".



5.4 Cost

Existing budget of the vertical programs, DG office and DHAs was used for financing the second health week. The only recurring cost involved for this activity is the supplies such as RDTs for Hep B & C, Malaria, HIV, Blood Glucose Testing, Hb testing strips etc. Estimated direct screening cost per person is around 450 Rs.

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5.5 Results

During the second health week, a total of 846,343 were screened from all 36 districts of Punjab, out of which 799,547 were adults above age 14 and 46,796 children of age 14 and below. The data was organized into two separate categories i.e. Adults and Children. On average 23-24 thousand people were screened per district.

After organizing the data into categories, the next step was thorough cleaning by removing incomplete and missing entries, cleaning of outliers and grouping of relevant variables together for ease of processing and analysis.

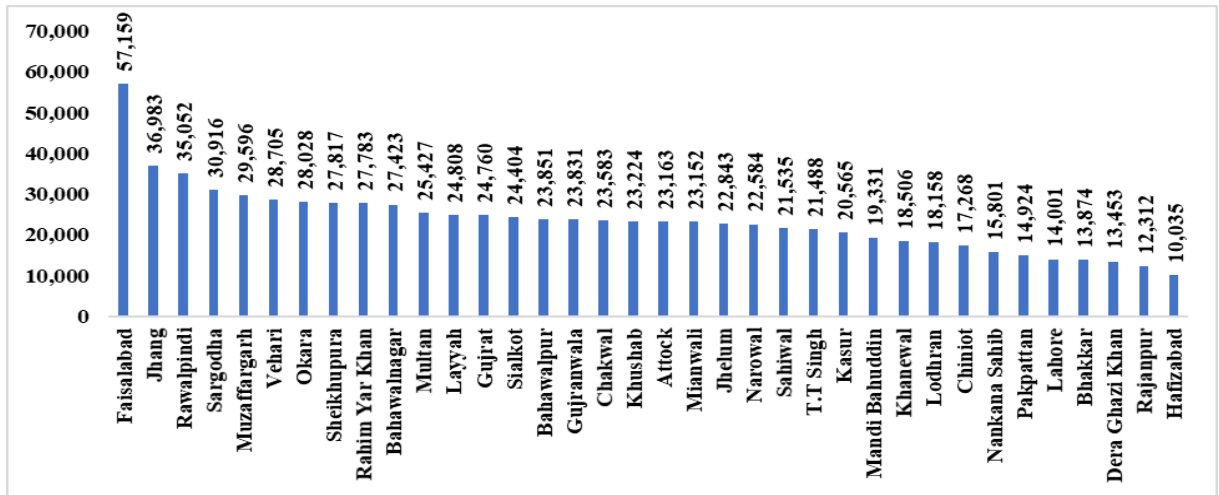


Figure 4: District wise Distribution of People Screened (n = 846,343)

5.5.1 Results-Adults (>14 Years of Age)

The mean age of the adults screened (n=846,343) was 39.44 years (± 15.02). Of these, 64% were females and 36% were males. 85.1% of people were married while 14.9% were unmarried.

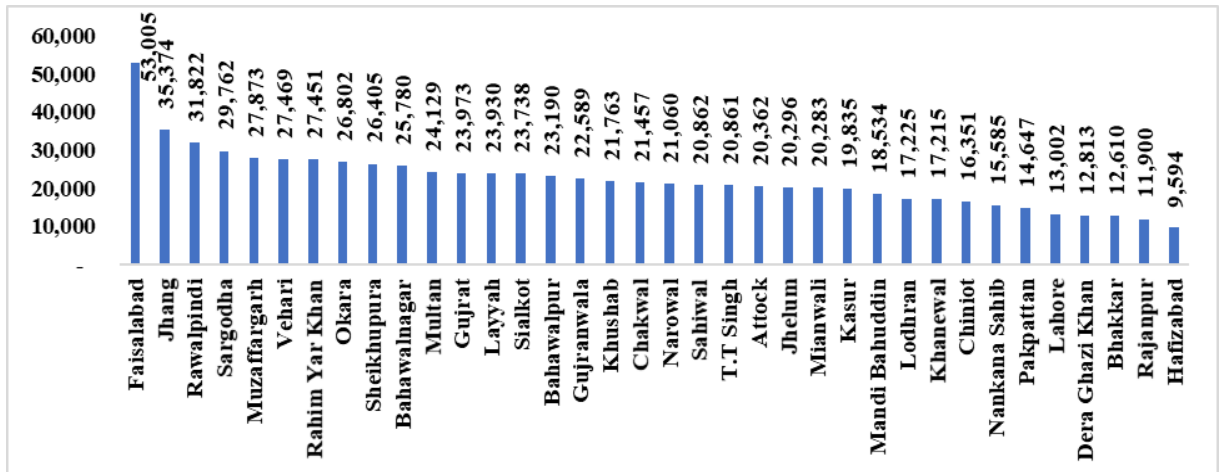


Figure 5: District wise Distribution of Adults (>14 Years) Screened (n = 799,547)

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Age & Gender Distribution - Adults

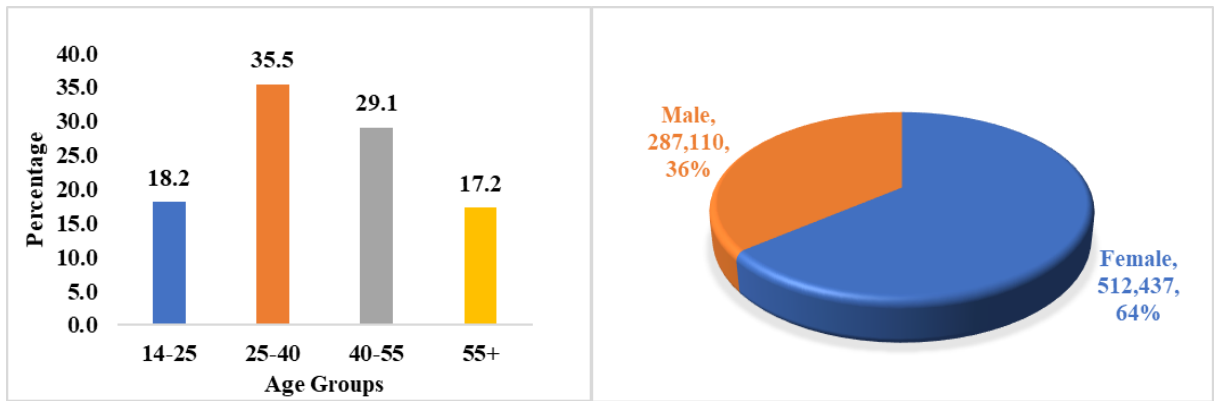


Figure 6: Age & Gender Distribution of Adults (>14 Years) Screened (n = 799,547)

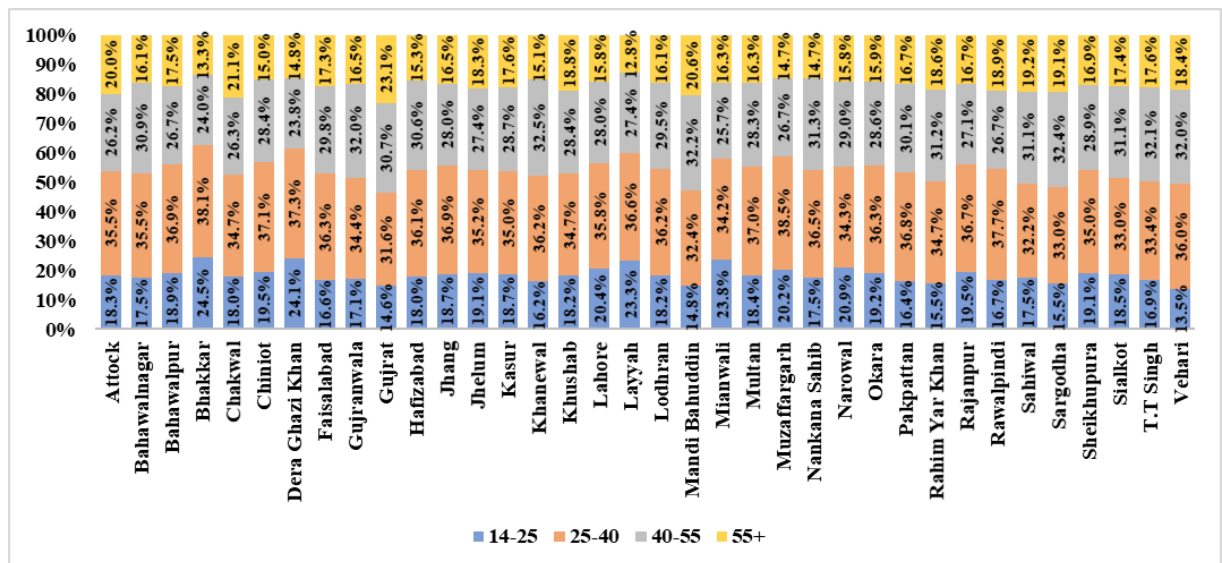


Figure 7: District wise Age Distribution of Adults (>14 Years) Screened (n = 799,547)

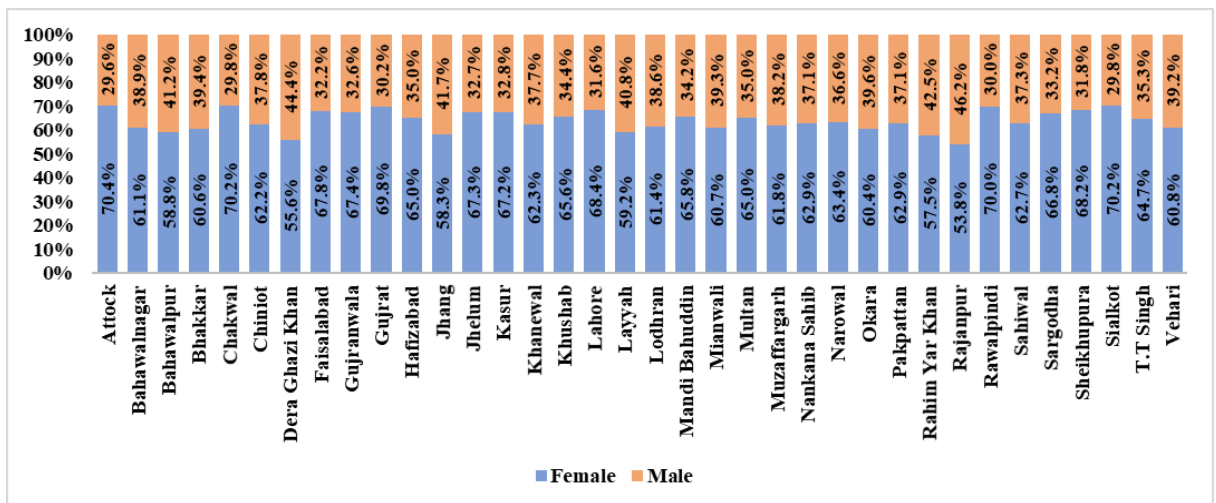


Figure 8: District wise Gender Distribution of Adults (>14 Years) Screened (n= 799,547)

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Table 3: District wise Distribution of People Screened

| District | Age<5 | % | Age 5-14 | % | Age > 14 | % | Total | % |
|-----------------|---------------|------------|---------------|------------|----------------|------------|----------------|------------|
| Attock | 1,748 | 7.4 | 1,053 | 4.5 | 20,362 | 2.5 | 23,163 | 2.74 |
| Bahawalnagar | 932 | 3.9 | 711 | 3.1 | 25,780 | 3.2 | 27,423 | 3.24 |
| Bahawalpur | 359 | 1.5 | 302 | 1.3 | 23,190 | 2.9 | 23,851 | 2.82 |
| Bhakkar | 728 | 3.1 | 536 | 2.3 | 12,610 | 1.6 | 13,874 | 1.64 |
| Chakwal | 1,133 | 4.8 | 993 | 4.3 | 21,457 | 2.7 | 23,583 | 2.79 |
| Chiniot | 451 | 1.9 | 466 | 2 | 16,351 | 2 | 17,268 | 2.04 |
| Dera Ghazi Khan | 409 | 1.7 | 231 | 1 | 12,813 | 1.6 | 13,453 | 1.59 |
| Faisalabad | 1,790 | 7.6 | 2,364 | 10.2 | 53,005 | 6.6 | 57,159 | 6.75 |
| Gujranwala | 496 | 2.1 | 746 | 3.2 | 22,589 | 2.8 | 23,831 | 2.82 |
| Gujrat | 359 | 1.5 | 428 | 1.8 | 23,973 | 3 | 24,760 | 2.93 |
| Hafizabad | 141 | 0.6 | 300 | 1.3 | 9,594 | 1.2 | 10,035 | 1.19 |
| Jhang | 681 | 2.9 | 928 | 4 | 35,374 | 4.4 | 36,983 | 4.37 |
| Jhelum | 1,139 | 4.8 | 1,408 | 6.1 | 20,296 | 2.5 | 22,843 | 2.7 |
| Kasur | 378 | 1.6 | 352 | 1.5 | 19,835 | 2.5 | 20,565 | 2.43 |
| Khaneval | 660 | 2.8 | 631 | 2.7 | 17,215 | 2.2 | 18,506 | 2.19 |
| Khushab | 791 | 3.4 | 670 | 2.9 | 21,763 | 2.7 | 23,224 | 2.74 |
| Lahore | 724 | 3.1 | 275 | 1.2 | 13,002 | 1.6 | 14,001 | 1.65 |
| Layyah | 362 | 1.5 | 516 | 2.2 | 23,930 | 3 | 24,808 | 2.93 |
| Lodhran | 449 | 1.9 | 484 | 2.1 | 17,225 | 2.2 | 18,158 | 2.15 |
| Mandi Bahuddin | 297 | 1.3 | 500 | 2.2 | 18,534 | 2.3 | 19,331 | 2.28 |
| Mianwali | 1,365 | 5.8 | 1,504 | 6.5 | 20,283 | 2.5 | 23,152 | 2.74 |
| Multan | 526 | 2.2 | 772 | 3.3 | 24,129 | 3 | 25,427 | 3 |
| Muzaffargarh | 684 | 2.9 | 1,039 | 4.5 | 27,873 | 3.5 | 29,596 | 3.5 |
| Nankana Sahib | 66 | 0.3 | 150 | 0.6 | 15,585 | 1.9 | 15,801 | 1.87 |
| Narowal | 720 | 3 | 804 | 3.5 | 21,060 | 2.6 | 22,584 | 2.67 |
| Okara | 601 | 2.5 | 625 | 2.7 | 26,802 | 3.4 | 28,028 | 3.31 |
| Pakpattan | 186 | 0.8 | 91 | 0.4 | 14,647 | 1.8 | 14,924 | 1.76 |
| Rahim Yar Khan | 128 | 0.5 | 204 | 0.9 | 27,451 | 3.4 | 27,783 | 3.28 |
| Rajanpur | 160 | 0.7 | 252 | 1.1 | 11,900 | 1.5 | 12,312 | 1.45 |
| Rawalpindi | 2,158 | 9.1 | 1,072 | 4.6 | 31,822 | 4 | 35,052 | 4.14 |
| Sahiwal | 289 | 1.2 | 384 | 1.7 | 20,862 | 2.6 | 21,535 | 2.54 |
| Sargodha | 474 | 2 | 680 | 2.9 | 29,762 | 3.7 | 30,916 | 3.65 |
| Sheikhupura | 897 | 3.8 | 515 | 2.2 | 26,405 | 3.3 | 27,817 | 3.29 |
| Sialkot | 429 | 1.8 | 237 | 1 | 23,738 | 3 | 24,404 | 2.88 |
| T.T Singh | 265 | 1.1 | 362 | 1.6 | 20,861 | 2.6 | 21,488 | 2.54 |
| Vehari | 636 | 2.7 | 600 | 2.6 | 27,469 | 3.4 | 28,705 | 3.39 |
| Total | 23,611 | 100 | 23,185 | 100 | 799,547 | 100 | 846,343 | 100 |

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Table 4: District wise Age Distribution of Adults (>14 Years) Screened

| District | 14-25 | % | 25-40 | % | 40-55 | % | 55+ | % |
|-----------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|
| Attock | 3,730 | 18.3 | 7,220 | 35.5 | 5,339 | 26.2 | 4,073 | 20.0 |
| Bahawalnagar | 4,508 | 17.5 | 9,164 | 35.5 | 7,967 | 30.9 | 4,141 | 16.1 |
| Bahawalpur | 4,391 | 18.9 | 8,561 | 36.9 | 6,191 | 26.7 | 4,047 | 17.5 |
| Bhakkar | 3,091 | 24.5 | 4,808 | 38.1 | 3,028 | 24.0 | 1,683 | 13.3 |
| Chakwal | 3,856 | 18.0 | 7,446 | 34.7 | 5,637 | 26.3 | 4,518 | 21.1 |
| Chiniot | 3,189 | 19.5 | 6,070 | 37.1 | 4,639 | 28.4 | 2,453 | 15.0 |
| Dera Ghazi Khan | 3,084 | 24.1 | 4,784 | 37.3 | 3,047 | 23.8 | 1,898 | 14.8 |
| Faisalabad | 8,779 | 16.6 | 19,266 | 36.3 | 15,792 | 29.8 | 9,168 | 17.3 |
| Gujranwala | 3,857 | 17.1 | 7,774 | 34.4 | 7,239 | 32.0 | 3,719 | 16.5 |
| Gujrat | 3,507 | 14.6 | 7,584 | 31.6 | 7,349 | 30.7 | 5,533 | 23.1 |
| Hafizabad | 1,726 | 18.0 | 3,466 | 36.1 | 2,933 | 30.6 | 1,469 | 15.3 |
| Jhang | 6,602 | 18.7 | 13,055 | 36.9 | 9,894 | 28.0 | 5,823 | 16.5 |
| Jhelum | 3,868 | 19.1 | 7,143 | 35.2 | 5,569 | 27.4 | 3,716 | 18.3 |
| Kasur | 3,711 | 18.7 | 6,950 | 35.0 | 5,684 | 28.7 | 3,490 | 17.6 |
| Khane wal | 2,785 | 16.2 | 6,226 | 36.2 | 5,596 | 32.5 | 2,608 | 15.1 |
| Khushab | 3,950 | 18.2 | 7,551 | 34.7 | 6,179 | 28.4 | 4,083 | 18.8 |
| Lahore | 2,651 | 20.4 | 4,661 | 35.8 | 3,636 | 28.0 | 2,054 | 15.8 |
| Layyah | 5,573 | 23.3 | 8,751 | 36.6 | 6,548 | 27.4 | 3,058 | 12.8 |
| Lodhran | 3,139 | 18.2 | 6,231 | 36.2 | 5,082 | 29.5 | 2,773 | 16.1 |
| Mandi Bahuddin | 2,748 | 14.8 | 6,014 | 32.4 | 5,963 | 32.2 | 3,809 | 20.6 |
| Mianwali | 4,819 | 23.8 | 6,936 | 34.2 | 5,218 | 25.7 | 3,310 | 16.3 |
| Multan | 4,446 | 18.4 | 8,924 | 37.0 | 6,817 | 28.3 | 3,942 | 16.3 |
| Muzaffargarh | 5,628 | 20.2 | 10,726 | 38.5 | 7,435 | 26.7 | 4,084 | 14.7 |
| Nankana Sahib | 2,728 | 17.5 | 5,681 | 36.5 | 4,884 | 31.3 | 2,292 | 14.7 |
| Narowal | 4,399 | 20.9 | 7,225 | 34.3 | 6,108 | 29.0 | 3,328 | 15.8 |
| Okara | 5,139 | 19.2 | 9,736 | 36.3 | 7,675 | 28.6 | 4,252 | 15.9 |
| Pakpattan | 2,405 | 16.4 | 5,385 | 36.8 | 4,407 | 30.1 | 2,450 | 16.7 |
| Rahim Yar Khan | 4,267 | 15.5 | 9,527 | 34.7 | 8,562 | 31.2 | 5,095 | 18.6 |
| Rajanpur | 2,317 | 19.5 | 4,364 | 36.7 | 3,226 | 27.1 | 1,993 | 16.7 |
| Rawalpindi | 5,318 | 16.7 | 11,987 | 37.7 | 8,511 | 26.7 | 6,006 | 18.9 |
| Sahiwal | 3,648 | 17.5 | 6,712 | 32.2 | 6,487 | 31.1 | 4,015 | 19.2 |
| Sargodha | 4,605 | 15.5 | 9,819 | 33.0 | 9,648 | 32.4 | 5,690 | 19.1 |
| Sheikhupura | 5,054 | 19.1 | 9,253 | 35.0 | 7,623 | 28.9 | 4,475 | 16.9 |
| Sialkot | 4,390 | 18.5 | 7,842 | 33.0 | 7,378 | 31.1 | 4,128 | 17.4 |
| T.T Singh | 3,524 | 16.9 | 6,960 | 33.4 | 6,698 | 32.1 | 3,679 | 17.6 |
| Vehari | 3,718 | 13.5 | 9,896 | 36.0 | 8,803 | 32.0 | 5,052 | 18.4 |
| Total | 145,150 | 18.2 | 283,698 | 35.5 | 232,792 | 29.1 | 137,907 | 17.2 |

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Table 5: District wise Gender Distribution of Adults (>14 Years) Screened

| District | Female | % | Male | % | Total |
|------------------------|----------------|-------------|----------------|-------------|----------------|
| Attock | 14,341 | 70.4 | 6,021 | 29.6 | 20,362 |
| Bahawalnagar | 15,745 | 61.1 | 10,035 | 38.9 | 25,780 |
| Bahawalpur | 13,644 | 58.8 | 9,546 | 41.2 | 23,190 |
| Bhakkar | 7,638 | 60.6 | 4,972 | 39.4 | 12,610 |
| Chakwal | 15,067 | 70.2 | 6,390 | 29.8 | 21,457 |
| Chiniot | 10,165 | 62.2 | 6,186 | 37.8 | 16,351 |
| Dera Ghazi Khan | 7,124 | 55.6 | 5,689 | 44.4 | 12,813 |
| Faisalabad | 35,949 | 67.8 | 17,056 | 32.2 | 53,005 |
| Gujranwala | 15,223 | 67.4 | 7,366 | 32.6 | 22,589 |
| Gujrat | 16,725 | 69.8 | 7,248 | 30.2 | 23,973 |
| Hafizabad | 6,239 | 65.0 | 3,355 | 35.0 | 9,594 |
| Jhang | 20,635 | 58.3 | 14,739 | 41.7 | 35,374 |
| Jhelum | 13,662 | 67.3 | 6,634 | 32.7 | 20,296 |
| Kasur | 13,331 | 67.2 | 6,504 | 32.8 | 19,835 |
| Khane wal | 10,720 | 62.3 | 6,495 | 37.7 | 17,215 |
| Khushab | 14,277 | 65.6 | 7,486 | 34.4 | 21,763 |
| Lahore | 8,892 | 68.4 | 4,110 | 31.6 | 13,002 |
| Layyah | 14,169 | 59.2 | 9,761 | 40.8 | 23,930 |
| Lodhran | 10,583 | 61.4 | 6,642 | 38.6 | 17,225 |
| Mandi Bahuddin | 12,190 | 65.8 | 6,344 | 34.2 | 18,534 |
| Mianwali | 12,320 | 60.7 | 7,963 | 39.3 | 20,283 |
| Multan | 15,691 | 65.0 | 8,438 | 35.0 | 24,129 |
| Muzaffargarh | 17,236 | 61.8 | 10,637 | 38.2 | 27,873 |
| Nankana Sahib | 9,806 | 62.9 | 5,779 | 37.1 | 15,585 |
| Narowal | 13,348 | 63.4 | 7,712 | 36.6 | 21,060 |
| Okara | 16,184 | 60.4 | 10,618 | 39.6 | 26,802 |
| Pakpattan | 9,206 | 62.9 | 5,441 | 37.1 | 14,647 |
| Rahim Yar Khan | 15,788 | 57.5 | 11,663 | 42.5 | 27,451 |
| Rajanpur | 6,407 | 53.8 | 5,493 | 46.2 | 11,900 |
| Rawalpindi | 22,264 | 70.0 | 9,558 | 30.0 | 31,822 |
| Sahiwal | 13,075 | 62.7 | 7,787 | 37.3 | 20,862 |
| Sargodha | 19,895 | 66.8 | 9,867 | 33.2 | 29,762 |
| She ikhupura | 18,018 | 68.2 | 8,387 | 31.8 | 26,405 |
| Sialkot | 16,672 | 70.2 | 7,066 | 29.8 | 23,738 |
| T.T Singh | 13,494 | 64.7 | 7,367 | 35.3 | 20,861 |
| Vehari | 16,714 | 60.8 | 10,755 | 39.2 | 27,469 |
| Total | 512,437 | 64.1 | 287,110 | 35.9 | 799,547 |

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Nutritional Status-Adults

Body Mass Index (BMI)

The mean height of adults was 158.93±11.14 cm (5.21 feet) and the mean weight was 63.59±14.53kg. The mean BMI (n= 795,354) was 25.36±6.32. BMI was then recoded into 4 standard categories of underweight (<18.5), normal (18.5-24.9), overweight (25-29.9) and obese (>30). Of these, 9% adults were underweight, 28% were overweight, and 21% were obese whereas 42% were having normal BMI. Among the males 43% and in females 51.6% had BMI above normal (BMI>25). The highest prevalence (58.7%) of BMI>25 was found in age group 40-55. Almost 10.1% males & 9.1% females were underweight with BMI<18.5 and highest prevalence (19.4%) of BMI<18.5% was found in age group 14-25.

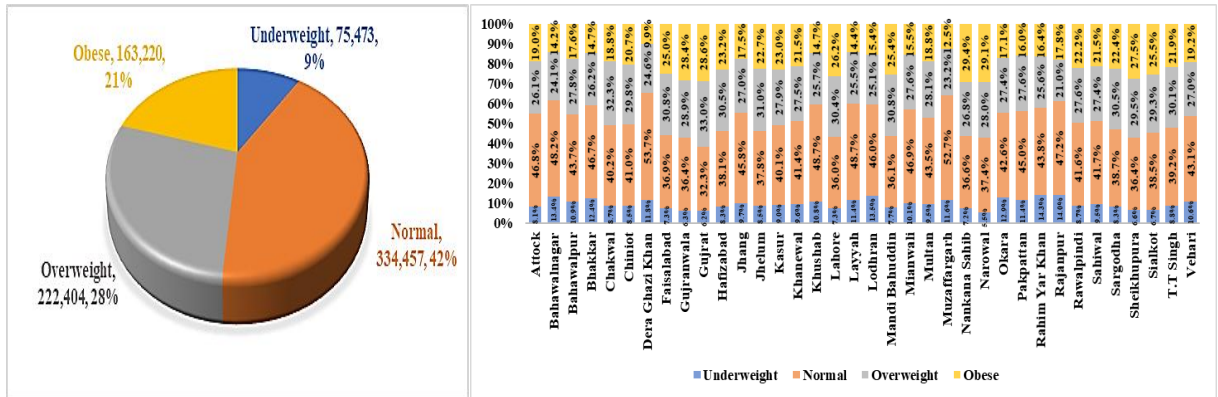


Figure 9: Body Mass Index (BMI) of Adults (n = 795,354)

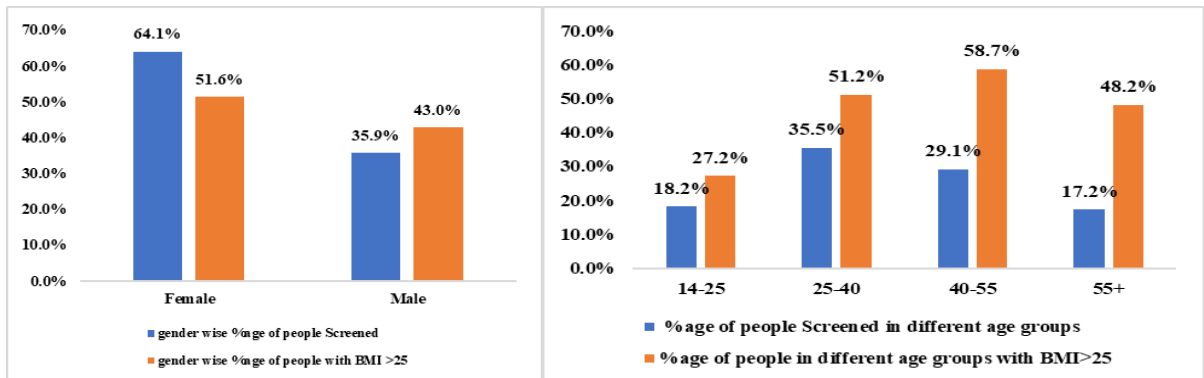


Figure 10: Overweight BMI (>25) – Age & Gender wise distribution of Adults - Punjab

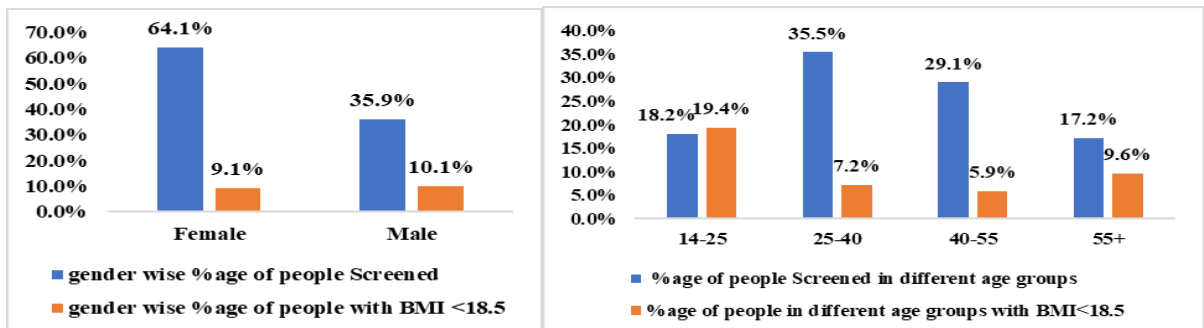


Figure 11: Underweight BMI (<18.5) – Age & Gender wise distribution of Adults - Punjab

Note: The percentage of overweight & underweight is calculated against the percentage of people screened in each age & gender group.

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Table 6: Body Mass Index (BMI) of Adults Punjab

| District | Underweight | | Normal | | Overweight | | Obese | | Total |
|-----------------|---------------|------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|
| | Frequency | % | Frequency | % | Frequency | % | Frequency | % | |
| Attock | 1,651 | 8.1 | 9,506 | 46.8 | 5,316 | 26.1 | 3,856 | 19.0 | 20,329 |
| Bahawalnagar | 3,451 | 13.4 | 12,389 | 48.2 | 6,200 | 24.1 | 3,641 | 14.2 | 25,681 |
| Bahawalpur | 2,531 | 10.9 | 10,114 | 43.7 | 6,450 | 27.8 | 4,067 | 17.6 | 23,162 |
| Bhakkar | 1,558 | 12.4 | 5,873 | 46.7 | 3,302 | 26.2 | 1,851 | 14.7 | 12,584 |
| Chakwal | 1,869 | 8.7 | 8,616 | 40.2 | 6,920 | 32.3 | 4,023 | 18.8 | 21,428 |
| Chiniot | 1,390 | 8.5 | 6,678 | 41.0 | 4,866 | 29.8 | 3,368 | 20.7 | 16,302 |
| Dera Ghazi Khan | 1,502 | 11.8 | 6,869 | 53.7 | 3,144 | 24.6 | 1,267 | 9.9 | 12,782 |
| Faisalabad | 3,888 | 7.3 | 19,503 | 36.9 | 16,272 | 30.8 | 13,237 | 25.0 | 52,900 |
| Gujranwala | 1,430 | 6.3 | 8,201 | 36.4 | 6,520 | 28.9 | 6,391 | 28.4 | 22,542 |
| Gujrat | 1,474 | 6.2 | 7,720 | 32.3 | 7,887 | 33.0 | 6,855 | 28.6 | 23,936 |
| Hafizabad | 794 | 8.3 | 3,641 | 38.1 | 2,913 | 30.5 | 2,215 | 23.2 | 9,563 |
| Jhang | 3,428 | 9.7 | 16,140 | 45.8 | 9,511 | 27.0 | 6,186 | 17.5 | 35,265 |
| Jhelum | 1,728 | 8.5 | 7,652 | 37.8 | 6,277 | 31.0 | 4,591 | 22.7 | 20,248 |
| Kasur | 1,785 | 9.0 | 7,943 | 40.1 | 5,520 | 27.9 | 4,561 | 23.0 | 19,809 |
| Khanewal | 1,645 | 9.6 | 7,089 | 41.4 | 4,707 | 27.5 | 3,681 | 21.5 | 17,122 |
| Khushab | 2,298 | 10.8 | 10,355 | 48.7 | 5,463 | 25.7 | 3,133 | 14.7 | 21,249 |
| Lahore | 951 | 7.3 | 4,661 | 36.0 | 3,942 | 30.4 | 3,400 | 26.2 | 12,954 |
| Layyah | 2,729 | 11.4 | 11,648 | 48.7 | 6,097 | 25.5 | 3,436 | 14.4 | 23,910 |
| Lodhran | 2,324 | 13.5 | 7,906 | 46.0 | 4,311 | 25.1 | 2,644 | 15.4 | 17,185 |
| Mandi Bahuddin | 1,417 | 7.7 | 6,686 | 36.1 | 5,694 | 30.8 | 4,710 | 25.4 | 18,507 |
| Mianwali | 2,046 | 10.1 | 9,494 | 46.9 | 5,586 | 27.6 | 3,137 | 15.5 | 20,263 |
| Multan | 2,299 | 9.5 | 10,472 | 43.5 | 6,780 | 28.1 | 4,540 | 18.8 | 24,091 |
| Muzaffargarh | 3,212 | 11.6 | 14,655 | 52.7 | 6,461 | 23.2 | 3,467 | 12.5 | 27,795 |
| Nankana Sahib | 1,119 | 7.2 | 5,686 | 36.6 | 4,156 | 26.8 | 4,563 | 29.4 | 15,524 |
| Narowal | 1,139 | 5.5 | 7,746 | 37.4 | 5,812 | 28.0 | 6,026 | 29.1 | 20,723 |
| Okara | 3,446 | 12.9 | 11,382 | 42.6 | 7,312 | 27.4 | 4,566 | 17.1 | 26,706 |
| Pakpattan | 1,659 | 11.4 | 6,532 | 45.0 | 4,009 | 27.6 | 2,330 | 16.0 | 14,530 |
| Rahim Yar Khan | 3,909 | 14.3 | 11,999 | 43.8 | 7,008 | 25.6 | 4,490 | 16.4 | 27,406 |
| Rajanpur | 1,652 | 14.0 | 5,561 | 47.2 | 2,469 | 21.0 | 2,103 | 17.8 | 11,785 |
| Rawalpindi | 2,744 | 8.7 | 13,174 | 41.6 | 8,740 | 27.6 | 7,018 | 22.2 | 31,676 |
| Sahiwal | 1,934 | 9.5 | 8,517 | 41.7 | 5,595 | 27.4 | 4,387 | 21.5 | 20,433 |
| Sargodha | 2,478 | 8.3 | 11,527 | 38.7 | 9,084 | 30.5 | 6,659 | 22.4 | 29,748 |
| Sheikhupura | 1,661 | 6.6 | 9,203 | 36.4 | 7,456 | 29.5 | 6,950 | 27.5 | 25,270 |
| Sialkot | 1,583 | 6.7 | 9,130 | 38.5 | 6,940 | 29.3 | 6,044 | 25.5 | 23,697 |
| T.T Singh | 1,831 | 8.8 | 8,165 | 39.2 | 6,280 | 30.1 | 4,563 | 21.9 | 20,839 |
| Vehari | 2,918 | 10.6 | 11,824 | 43.1 | 7,404 | 27.0 | 5,264 | 19.2 | 27,410 |
| Total | 75,473 | 9.0 | 334,257 | 42.0 | 222,404 | 28.0 | 163,220 | 21.0 | 795,354 |

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Overweight (BMI > 25)

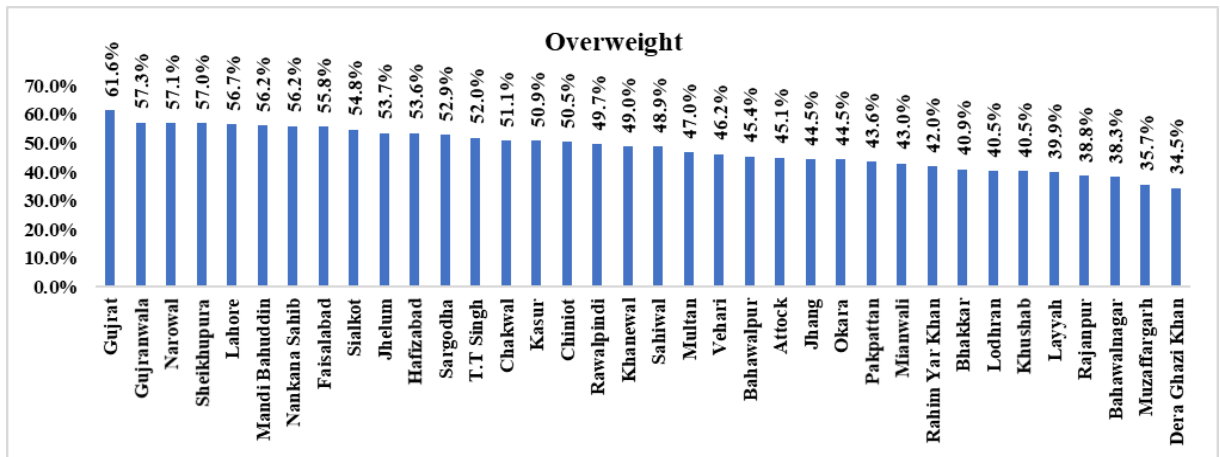


Figure 12: Overweight (BMI > 25) - District wise Distribution in Adults

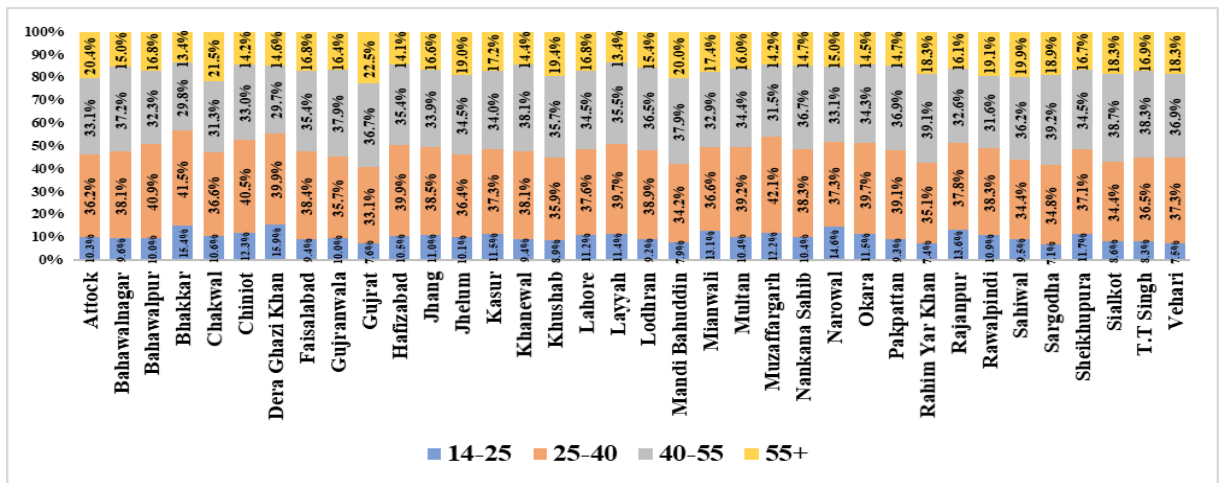


Figure 13: Overweight (BMI > 25) - District wise Age Distribution in Adults

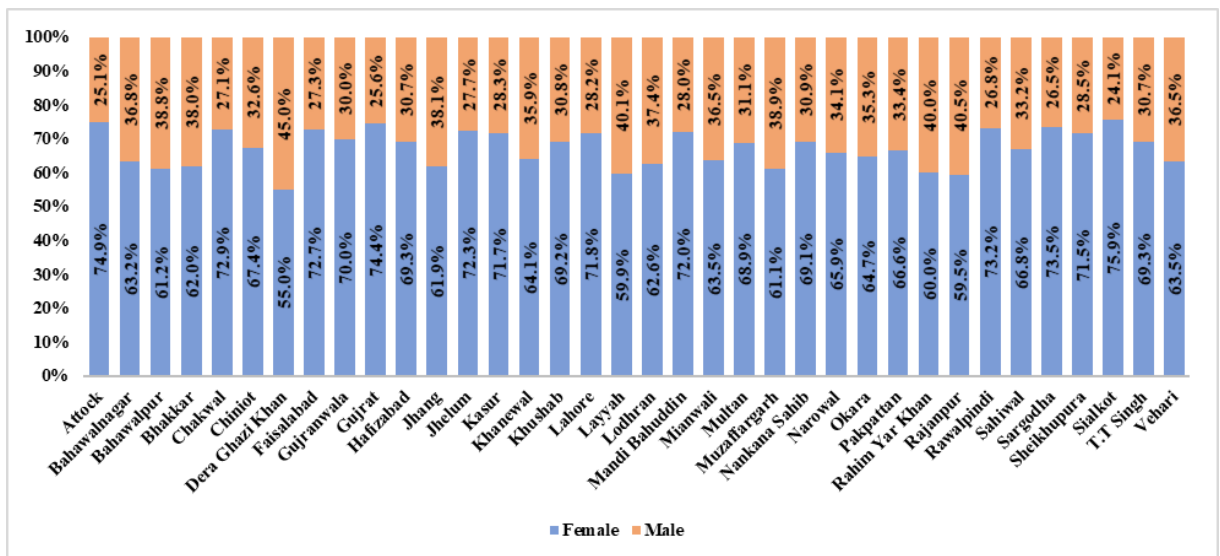


Figure 14: Overweight (BMI > 25) - District wise Gender Distribution in Adults

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Table 7: Overweight (BMI>25) - District wise Distribution in Adults Punjab

| District | Overweight | Percentage | Total |
|-----------------|----------------|-------------|----------------|
| Attock | 9,172 | 45.1 | 20,329 |
| Bahawalnagar | 9,841 | 38.3 | 25,681 |
| Bahawalpur | 10,517 | 45.4 | 23,162 |
| Bhakkar | 5,153 | 40.9 | 12,584 |
| Chakwal | 10,943 | 51.1 | 21,428 |
| Chiniot | 8,234 | 50.5 | 16,302 |
| Dera Ghazi Khan | 4,411 | 34.5 | 12,782 |
| Faisalabad | 29,509 | 55.8 | 52,900 |
| Gujranwala | 12,911 | 57.3 | 22,542 |
| Gujrat | 14,742 | 61.6 | 23,936 |
| Hafizabad | 5,128 | 53.6 | 9,563 |
| Jhang | 15,697 | 44.5 | 35,265 |
| Jhelum | 10,868 | 53.7 | 20,248 |
| Kasur | 10,081 | 50.9 | 19,809 |
| Khanelwal | 8,388 | 49.0 | 17,122 |
| Khushab | 8,596 | 40.5 | 21,249 |
| Lahore | 7,342 | 56.7 | 12,954 |
| Layyah | 9,533 | 39.9 | 23,910 |
| Lodhran | 6,955 | 40.5 | 17,185 |
| Mandi Bahuddin | 10,404 | 56.2 | 18,507 |
| Mianwali | 8,723 | 43.0 | 20,263 |
| Multan | 11,320 | 47.0 | 24,091 |
| Muzaffargarh | 9,928 | 35.7 | 27,795 |
| Nankana Sahib | 8,719 | 56.2 | 15,524 |
| Narowal | 11,838 | 57.1 | 20,723 |
| Okara | 11,878 | 44.5 | 26,706 |
| Pakpattan | 6,339 | 43.6 | 14,530 |
| Rahim Yar Khan | 11,498 | 42.0 | 27,406 |
| Rajanpur | 4,572 | 38.8 | 11,785 |
| Rawalpindi | 15,758 | 49.7 | 31,676 |
| Sahiwal | 9,982 | 48.9 | 20,433 |
| Sargodha | 15,743 | 52.9 | 29,748 |
| Sheikhupura | 14,406 | 57.0 | 25,270 |
| Sialkot | 12,984 | 54.8 | 23,697 |
| T.T Singh | 10,843 | 52.0 | 20,839 |
| Vehari | 12,668 | 46.2 | 27,410 |
| Total | 385,624 | 48.5 | 795,354 |

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Table 8: Overweight (BMI > 25) - District wise Age Distribution in Adults Punjab

| District | 14-25 | | 25-40 | | 40-55 | | 55+ | | Total Overweight |
|-----------------|---------------|-------------|----------------|-------------|----------------|-------------|---------------|-------------|------------------|
| | Frequency | % | Frequency | % | Frequency | % | Frequency | % | |
| Attock | 947 | 10.3 | 3,322 | 36.2 | 3,035 | 33.1 | 1,868 | 20.4 | 9,172 |
| Bahawalnagar | 949 | 9.6 | 3,748 | 38.1 | 3,663 | 37.2 | 1,481 | 15.0 | 9,841 |
| Bahawalpur | 1,051 | 10.0 | 4,303 | 40.9 | 3,400 | 32.3 | 1,763 | 16.8 | 10,517 |
| Bhakkar | 793 | 15.4 | 2,136 | 41.5 | 1,535 | 29.8 | 689 | 13.4 | 5,153 |
| Chakwal | 1,161 | 10.6 | 4,008 | 36.6 | 3,425 | 31.3 | 2,349 | 21.5 | 10,943 |
| Chiniot | 1,011 | 12.3 | 3,335 | 40.5 | 2,720 | 33.0 | 1,168 | 14.2 | 8,234 |
| Dera Ghazi Khan | 700 | 15.9 | 1,758 | 39.9 | 1,311 | 29.7 | 642 | 14.6 | 4,411 |
| Faisalabad | 2,778 | 9.4 | 11,336 | 38.4 | 10,450 | 35.4 | 4,945 | 16.8 | 29,509 |
| Gujranwala | 1,291 | 10.0 | 4,609 | 35.7 | 4,892 | 37.9 | 2,119 | 16.4 | 12,911 |
| Gujrat | 1,121 | 7.6 | 4,884 | 33.1 | 5,417 | 36.7 | 3,320 | 22.5 | 14,742 |
| Hafizabad | 541 | 10.5 | 2,048 | 39.9 | 1,815 | 35.4 | 724 | 14.1 | 5,128 |
| Jhang | 1,725 | 11.0 | 6,047 | 38.5 | 5,322 | 33.9 | 2,603 | 16.6 | 15,697 |
| Jhelum | 1,095 | 10.1 | 3,960 | 36.4 | 3,753 | 34.5 | 2,060 | 19.0 | 10,868 |
| Kasur | 1,163 | 11.5 | 3,761 | 37.3 | 3,424 | 34.0 | 1,733 | 17.2 | 10,081 |
| Khane wal | 792 | 9.4 | 3,198 | 38.1 | 3,194 | 38.1 | 1,204 | 14.4 | 8,388 |
| Khushab | 769 | 8.9 | 3,088 | 35.9 | 3,069 | 35.7 | 1,670 | 19.4 | 8,596 |
| Lahore | 820 | 11.2 | 2,761 | 37.6 | 2,531 | 34.5 | 1,230 | 16.8 | 7,342 |
| Layyah | 1,087 | 11.4 | 3,786 | 39.7 | 3,380 | 35.5 | 1,280 | 13.4 | 9,533 |
| Lodhran | 639 | 9.2 | 2,707 | 38.9 | 2,539 | 36.5 | 1,070 | 15.4 | 6,955 |
| Mandi Bahuddin | 820 | 7.9 | 3,558 | 34.2 | 3,947 | 37.9 | 2,079 | 20.0 | 10,404 |
| Mianwali | 1,146 | 13.1 | 3,192 | 36.6 | 2,870 | 32.9 | 1,515 | 17.4 | 8,723 |
| Multan | 1,177 | 10.4 | 4,442 | 39.2 | 3,889 | 34.4 | 1,812 | 16.0 | 11,320 |
| Muzaffargarh | 1,210 | 12.2 | 4,178 | 42.1 | 3,126 | 31.5 | 1,414 | 14.2 | 9,928 |
| Nankana Sahib | 903 | 10.4 | 3,339 | 38.3 | 3,199 | 36.7 | 1,278 | 14.7 | 8,719 |
| Narowal | 1,727 | 14.6 | 4,420 | 37.3 | 3,919 | 33.1 | 1,772 | 15.0 | 11,838 |
| Okara | 1,368 | 11.5 | 4,718 | 39.7 | 4,075 | 34.3 | 1,717 | 14.5 | 11,878 |
| Pakpattan | 590 | 9.3 | 2,479 | 39.1 | 2,340 | 36.9 | 930 | 14.7 | 6,339 |
| Rahim Yar Khan | 851 | 7.4 | 4,041 | 35.1 | 4,501 | 39.1 | 2,105 | 18.3 | 11,498 |
| Rajanpur | 622 | 13.6 | 1,726 | 37.8 | 1,490 | 32.6 | 734 | 16.1 | 4,572 |
| Rawalpindi | 1,725 | 10.9 | 6,043 | 38.3 | 4,984 | 31.6 | 3,006 | 19.1 | 15,758 |
| Sahiwal | 951 | 9.5 | 3,435 | 34.4 | 3,610 | 36.2 | 1,986 | 19.9 | 9,982 |
| Sargodha | 1,119 | 7.1 | 5,483 | 34.8 | 6,166 | 39.2 | 2,975 | 18.9 | 15,743 |
| Sheikhupura | 1,681 | 11.7 | 5,350 | 37.1 | 4,969 | 34.5 | 2,406 | 16.7 | 14,406 |
| Sialkot | 1,118 | 8.6 | 4,465 | 34.4 | 5,029 | 38.7 | 2,372 | 18.3 | 12,984 |
| T.T Singh | 898 | 8.3 | 3,960 | 36.5 | 4,156 | 38.3 | 1,829 | 16.9 | 10,843 |
| Vehari | 950 | 7.5 | 4,726 | 37.3 | 4,674 | 36.9 | 2,318 | 18.3 | 12,668 |
| Total | 39,289 | 10.2 | 144,350 | 37.4 | 135,819 | 35.2 | 66,166 | 17.2 | 385,624 |

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Table 9: Overweight (BMI > 25) - District wise Gender Distribution in Adults Punjab

| District | Female | | Male | | Total Overweight |
|-----------------|----------------|--------------|----------------|--------------|------------------|
| | Frequency | % | Frequency | % | |
| Attock | 6,870 | 74.9% | 2,302 | 25.1% | 9,172 |
| Bahawalnagar | 6,221 | 63.2% | 3,620 | 36.8% | 9,841 |
| Bahawalpur | 6,440 | 61.2% | 4,077 | 38.8% | 10,517 |
| Bhakkar | 3,196 | 62.0% | 1,957 | 38.0% | 5,153 |
| Chakwal | 7,977 | 72.9% | 2,966 | 27.1% | 10,943 |
| Chiniot | 5,552 | 67.4% | 2,682 | 32.6% | 8,234 |
| Dera Ghazi Khan | 2,424 | 55.0% | 1,987 | 45.0% | 4,411 |
| Faisalabad | 21,449 | 72.7% | 8,060 | 27.3% | 29,509 |
| Gujranwala | 9,044 | 70.0% | 3,867 | 30.0% | 12,911 |
| Gujrat | 10,975 | 74.4% | 3,767 | 25.6% | 14,742 |
| Hafizabad | 3,553 | 69.3% | 1,575 | 30.7% | 5,128 |
| Jhang | 9,711 | 61.9% | 5,986 | 38.1% | 15,697 |
| Jhelum | 7,861 | 72.3% | 3,007 | 27.7% | 10,868 |
| Kasur | 7,228 | 71.7% | 2,853 | 28.3% | 10,081 |
| Khane wal | 5,375 | 64.1% | 3,013 | 35.9% | 8,388 |
| Khushab | 5,947 | 69.2% | 2,649 | 30.8% | 8,596 |
| Lahore | 5,271 | 71.8% | 2,071 | 28.2% | 7,342 |
| Layyah | 5,706 | 59.9% | 3,827 | 40.1% | 9,533 |
| Lodhran | 4,352 | 62.6% | 2,603 | 37.4% | 6,955 |
| Mandi Bahuddin | 7,496 | 72.0% | 2,908 | 28.0% | 10,404 |
| Mianwali | 5,543 | 63.5% | 3,180 | 36.5% | 8,723 |
| Multan | 7,798 | 68.9% | 3,522 | 31.1% | 11,320 |
| Muzaffargarh | 6,062 | 61.1% | 3,866 | 38.9% | 9,928 |
| Nankana Sahib | 6,029 | 69.1% | 2,690 | 30.9% | 8,719 |
| Narowal | 7,800 | 65.9% | 4,038 | 34.1% | 11,838 |
| Okara | 7,680 | 64.7% | 4,198 | 35.3% | 11,878 |
| Pakpattan | 4,221 | 66.6% | 2,118 | 33.4% | 6,339 |
| Rahim Yar Khan | 6,904 | 60.0% | 4,594 | 40.0% | 11,498 |
| Rajanpur | 2,719 | 59.5% | 1,853 | 40.5% | 4,572 |
| Rawalpindi | 11,540 | 73.2% | 4,218 | 26.8% | 15,758 |
| Sahiwal | 6,672 | 66.8% | 3,310 | 33.2% | 9,982 |
| Sargodha | 11,577 | 73.5% | 4,166 | 26.5% | 15,743 |
| Sheikhupura | 10,302 | 71.5% | 4,104 | 28.5% | 14,406 |
| Sialkot | 9,849 | 75.9% | 3,135 | 24.1% | 12,984 |
| T.T Singh | 7,514 | 69.3% | 3,329 | 30.7% | 10,843 |
| Vehari | 8,045 | 63.5% | 4,623 | 36.5% | 12,668 |
| Total | 262,903 | 68.2% | 122,721 | 31.8% | 385,624 |

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Under Weight (BMI < 18.5)

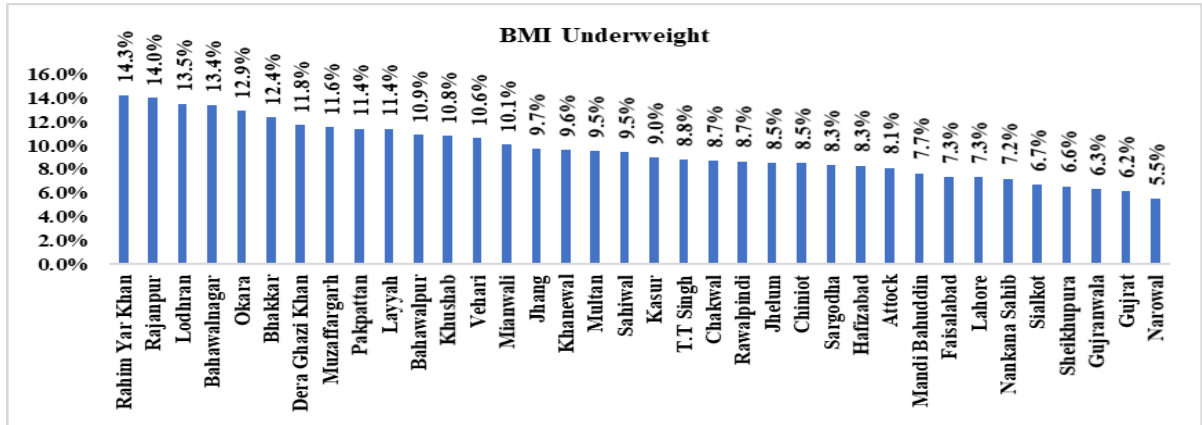


Figure 15: Underweight (BMI<18.5) - District wise Distribution in Adults

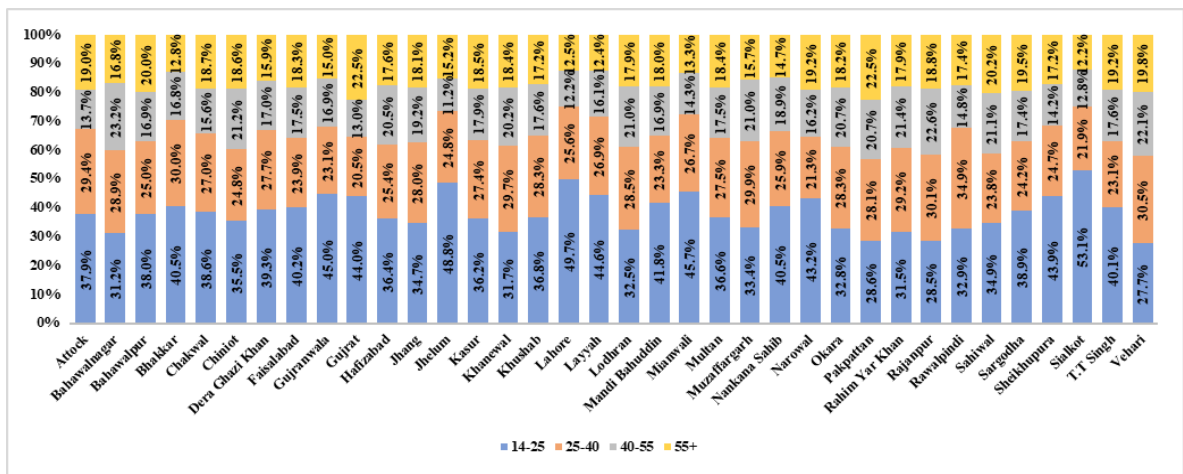


Figure 16: Underweight (BMI<18.5) - District wise Age Distribution in Adults

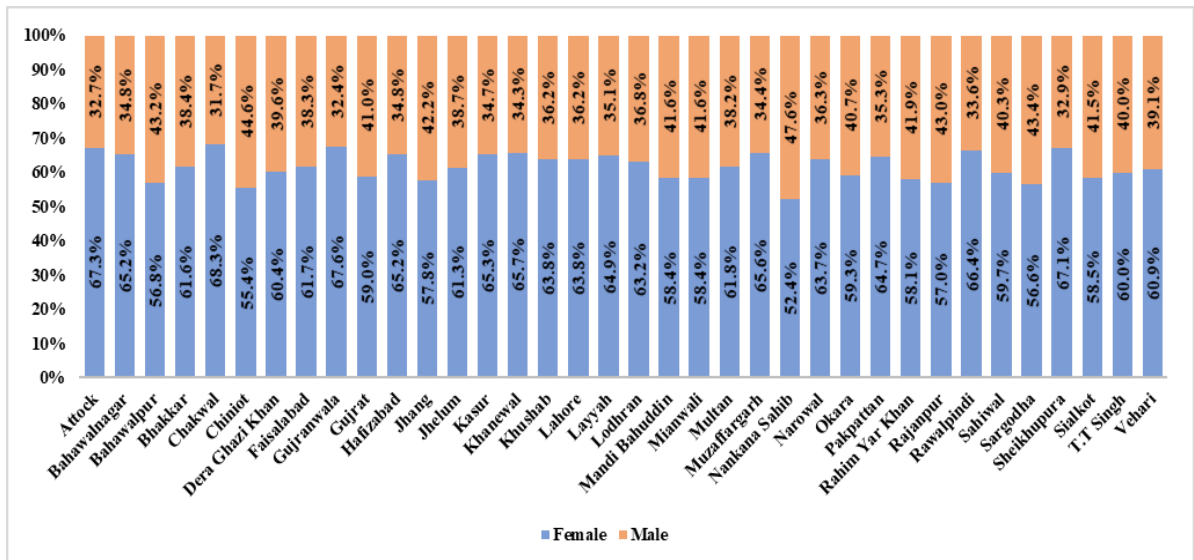


Figure 17: Underweight (BMI<18.5) - District wise Gender Distribution in Adults

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Table 10: Underweight (BMI<18.5) - District wise Distribution in Adults Punjab

| District | Underweight | Percentage | Total |
|-----------------|---------------|-------------|----------------|
| Attock | 1,651 | 8.1 | 20,329 |
| Bahawalnagar | 3,451 | 13.4 | 25,681 |
| Bahawalpur | 2,531 | 10.9 | 23,162 |
| Bhakkar | 1,558 | 12.4 | 12,584 |
| Chakwal | 1,869 | 8.7 | 21,428 |
| Chiniot | 1,390 | 8.5 | 16,302 |
| Dera Ghazi Khan | 1,502 | 11.8 | 12,782 |
| Faisalabad | 3,888 | 7.3 | 52,900 |
| Gujranwala | 1,430 | 6.3 | 22,542 |
| Gujrat | 1,474 | 6.2 | 23,936 |
| Hafizabad | 794 | 8.3 | 9,563 |
| Jhang | 3,428 | 9.7 | 35,265 |
| Jhelum | 1,728 | 8.5 | 20,248 |
| Kasur | 1,785 | 9.0 | 19,809 |
| Khane wal | 1,645 | 9.6 | 17,122 |
| Khus hab | 2,298 | 10.8 | 21,249 |
| Lahore | 951 | 7.3 | 12,954 |
| Layyah | 2,729 | 11.4 | 23,910 |
| Lodhran | 2,324 | 13.5 | 17,185 |
| Mandi Bahuddin | 1,417 | 7.7 | 18,507 |
| Mianwali | 2,046 | 10.1 | 20,263 |
| Multan | 2,299 | 9.5 | 24,091 |
| Muzaffargarh | 3,212 | 11.6 | 27,795 |
| Nankana Sahib | 1,119 | 7.2 | 15,524 |
| Narowal | 1,139 | 5.5 | 20,723 |
| Okara | 3,446 | 12.9 | 26,706 |
| Pakpattan | 1,659 | 11.4 | 14,530 |
| Rahim Yar Khan | 3,909 | 14.3 | 27,406 |
| Rajanpur | 1,652 | 14.0 | 11,785 |
| Rawalpindi | 2,744 | 8.7 | 31,676 |
| Sahiwal | 1,934 | 9.5 | 20,433 |
| Sargodha | 2,478 | 8.3 | 29,748 |
| Sheikhupura | 1,661 | 6.6 | 25,270 |
| Sialkot | 1,583 | 6.7 | 23,697 |
| T.T Singh | 1,831 | 8.8 | 20,839 |
| Vehari | 2,918 | 10.6 | 27,410 |
| Total | 75,473 | 9.00 | 795,354 |

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Table 11: Underweight (BMI<18.5) - District wise Age Distribution in Adults Punjab

| District | 14-25 | | 25-40 | | 40-55 | | 55+ | | Total Underweight |
|-----------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|-------------------|
| | Frequency | % | Frequency | % | Frequency | % | Frequency | % | |
| Attock | 626 | 37.9 | 485 | 29.4 | 226 | 13.7 | 314 | 19.0 | 1,651 |
| Bahawalnagar | 1,075 | 31.2 | 997 | 28.9 | 799 | 23.2 | 580 | 16.8 | 3,451 |
| Bahawalpur | 963 | 38.0 | 633 | 25.0 | 429 | 16.9 | 506 | 20.0 | 2,531 |
| Bhakkar | 631 | 40.5 | 467 | 30.0 | 261 | 16.8 | 199 | 12.8 | 1,558 |
| Chakwal | 722 | 38.6 | 505 | 27.0 | 292 | 15.6 | 350 | 18.7 | 1,869 |
| Chiniot | 493 | 35.5 | 345 | 24.8 | 294 | 21.2 | 258 | 18.6 | 1,390 |
| Dera Ghazi Khan | 591 | 39.3 | 416 | 27.7 | 256 | 17.0 | 239 | 15.9 | 1,502 |
| Faisalabad | 1,564 | 40.2 | 929 | 23.9 | 682 | 17.5 | 713 | 18.3 | 3,888 |
| Gujranwala | 643 | 45.0 | 331 | 23.1 | 241 | 16.9 | 215 | 15.0 | 1,430 |
| Gujrat | 649 | 44.0 | 302 | 20.5 | 192 | 13.0 | 331 | 22.5 | 1,474 |
| Hafizabad | 289 | 36.4 | 202 | 25.4 | 163 | 20.5 | 140 | 17.6 | 794 |
| Jhang | 1,189 | 34.7 | 960 | 28.0 | 657 | 19.2 | 622 | 18.1 | 3,428 |
| Jhelum | 844 | 48.8 | 428 | 24.8 | 193 | 11.2 | 263 | 15.2 | 1,728 |
| Kasur | 647 | 36.2 | 489 | 27.4 | 319 | 17.9 | 330 | 18.5 | 1,785 |
| Khane wal | 522 | 31.7 | 488 | 29.7 | 333 | 20.2 | 302 | 18.4 | 1,645 |
| Khushab | 846 | 36.8 | 651 | 28.3 | 405 | 17.6 | 396 | 17.2 | 2,298 |
| Lahore | 473 | 49.7 | 243 | 25.6 | 116 | 12.2 | 119 | 12.5 | 951 |
| Layyah | 1,217 | 44.6 | 735 | 26.9 | 439 | 16.1 | 338 | 12.4 | 2,729 |
| Lodhran | 756 | 32.5 | 663 | 28.5 | 488 | 21.0 | 417 | 17.9 | 2,324 |
| Mandi Bahuddin | 592 | 41.8 | 330 | 23.3 | 240 | 16.9 | 255 | 18.0 | 1,417 |
| Mianwali | 935 | 45.7 | 546 | 26.7 | 293 | 14.3 | 272 | 13.3 | 2,046 |
| Multan | 842 | 36.6 | 632 | 27.5 | 403 | 17.5 | 422 | 18.4 | 2,299 |
| Muzaffargarh | 1,072 | 33.4 | 959 | 29.9 | 676 | 21.0 | 505 | 15.7 | 3,212 |
| Nankana Sahib | 453 | 40.5 | 290 | 25.9 | 212 | 18.9 | 164 | 14.7 | 1,119 |
| Narowal | 492 | 43.2 | 243 | 21.3 | 185 | 16.2 | 219 | 19.2 | 1,139 |
| Okara | 1,132 | 32.8 | 976 | 28.3 | 712 | 20.7 | 626 | 18.2 | 3,446 |
| Pakpattan | 475 | 28.6 | 467 | 28.1 | 344 | 20.7 | 373 | 22.5 | 1,659 |
| Rahim Yar Khan | 1,233 | 31.5 | 1,142 | 29.2 | 835 | 21.4 | 699 | 17.9 | 3,909 |
| Rajanpur | 470 | 28.5 | 498 | 30.1 | 373 | 22.6 | 311 | 18.8 | 1,652 |
| Rawalpindi | 902 | 32.9 | 959 | 34.9 | 405 | 14.8 | 478 | 17.4 | 2,744 |
| Sahiwal | 674 | 34.9 | 461 | 23.8 | 408 | 21.1 | 391 | 20.2 | 1,934 |
| Sargodha | 965 | 38.9 | 599 | 24.2 | 432 | 17.4 | 482 | 19.5 | 2,478 |
| Sheikhupura | 730 | 43.9 | 410 | 24.7 | 236 | 14.2 | 285 | 17.2 | 1,661 |
| Sialkot | 841 | 53.1 | 346 | 21.9 | 203 | 12.8 | 193 | 12.2 | 1,583 |
| T.T Singh | 735 | 40.1 | 423 | 23.1 | 322 | 17.6 | 351 | 19.2 | 1,831 |
| Vehari | 807 | 27.7 | 890 | 30.5 | 644 | 22.1 | 577 | 19.8 | 2,918 |
| Total | 28,090 | 37.2 | 20,440 | 27.1 | 13,708 | 18.2 | 13,235 | 17.5 | 75,473 |

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Table 12: Underweight (BMI<18.5) - District wise Gender Distribution in Adults Punjab

| District | Female | Percentage | Male | Percentage | Total Underweight |
|-----------------|---------------|-------------|---------------|-------------|-------------------|
| Attock | 1,111 | 67.3 | 540 | 32.7 | 1,651 |
| Bahawalnagar | 2,250 | 65.2 | 1,201 | 34.8 | 3,451 |
| Bahawalpur | 1,438 | 56.8 | 1,093 | 43.2 | 2,531 |
| Bhakkar | 960 | 61.6 | 598 | 38.4 | 1,558 |
| Chakwal | 1,276 | 68.3 | 593 | 31.7 | 1,869 |
| Chiniot | 770 | 55.4 | 620 | 44.6 | 1,390 |
| Dera Ghazi Khan | 907 | 60.4 | 595 | 39.6 | 1,502 |
| Faisalabad | 2,400 | 61.7 | 1,488 | 38.3 | 3,888 |
| Gujranwala | 966 | 67.6 | 464 | 32.4 | 1,430 |
| Gujrat | 869 | 59.0 | 605 | 41.0 | 1,474 |
| Hafizabad | 518 | 65.2 | 276 | 34.8 | 794 |
| Jhang | 1,983 | 57.8 | 1,445 | 42.2 | 3,428 |
| Jhelum | 1,060 | 61.3 | 668 | 38.7 | 1,728 |
| Kasur | 1,166 | 65.3 | 619 | 34.7 | 1,785 |
| Khane wal | 1,081 | 65.7 | 564 | 34.3 | 1,645 |
| Khus hab | 1,467 | 63.8 | 831 | 36.2 | 2,298 |
| Lahore | 607 | 63.8 | 344 | 36.2 | 951 |
| Layyah | 1,770 | 64.9 | 959 | 35.1 | 2,729 |
| Lodhran | 1,469 | 63.2 | 855 | 36.8 | 2,324 |
| Mandi Bahuddin | 827 | 58.4 | 590 | 41.6 | 1,417 |
| Mianwali | 1,194 | 58.4 | 852 | 41.6 | 2,046 |
| Multan | 1,421 | 61.8 | 878 | 38.2 | 2,299 |
| Muzaffargarh | 2,106 | 65.6 | 1,106 | 34.4 | 3,212 |
| Nankana Sahib | 586 | 52.4 | 533 | 47.6 | 1,119 |
| Narowal | 726 | 63.7 | 413 | 36.3 | 1,139 |
| Okara | 2,043 | 59.3 | 1,403 | 40.7 | 3,446 |
| Pakpattan | 1,073 | 64.7 | 586 | 35.3 | 1,659 |
| Rahim Yar Khan | 2,271 | 58.1 | 1,638 | 41.9 | 3,909 |
| Rajapur | 942 | 57.0 | 710 | 43.0 | 1,652 |
| Rawalpindi | 1,821 | 66.4 | 923 | 33.6 | 2,744 |
| Sahiwal | 1,155 | 59.7 | 779 | 40.3 | 1,934 |
| Sargodha | 1,402 | 56.6 | 1,076 | 43.4 | 2,478 |
| Sheikhupura | 1,115 | 67.1 | 546 | 32.9 | 1,661 |
| Sialkot | 926 | 58.5 | 657 | 41.5 | 1,583 |
| T.T Singh | 1,099 | 60.0 | 732 | 40.0 | 1,831 |
| Vehari | 1,778 | 60.9 | 1,140 | 39.1 | 2,918 |
| Total | 46,553 | 61.7 | 28,920 | 38.3 | 75,473 |

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Waist/Hip Ratio

The Waist to hip ratio (n= 798,932) of the population was $0.94 \pm .158$. This was recoded into normal (<0.9) and abdominal obesity (>0.9). 73% adults (75.1% males & 72.1% females) had abdominal obesity with a W/H ratio greater than 0.9. A gradually increasing trend was seen with increasing age.

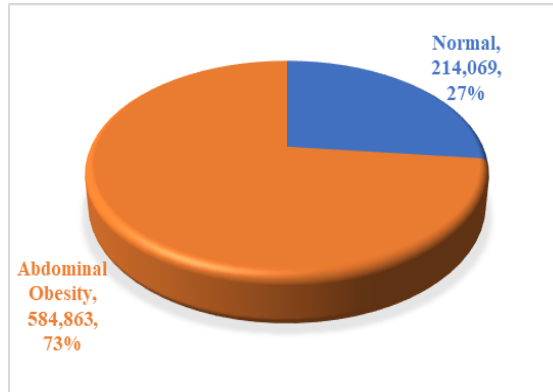


Figure 18: Waist to Hip Ratio of Adults Screened – Punjab

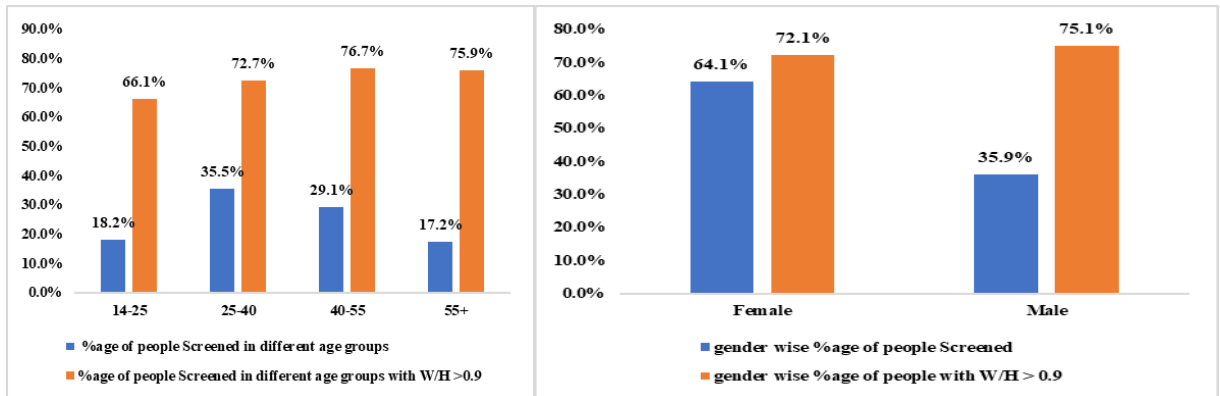


Figure 19: Waist to Hip Ratio (>0.9) - Age and Gender wise Distribution of Adults – Punjab

Note: The percentage of abdominal obesity is calculated against the percentage of people screened in each age & gender group.

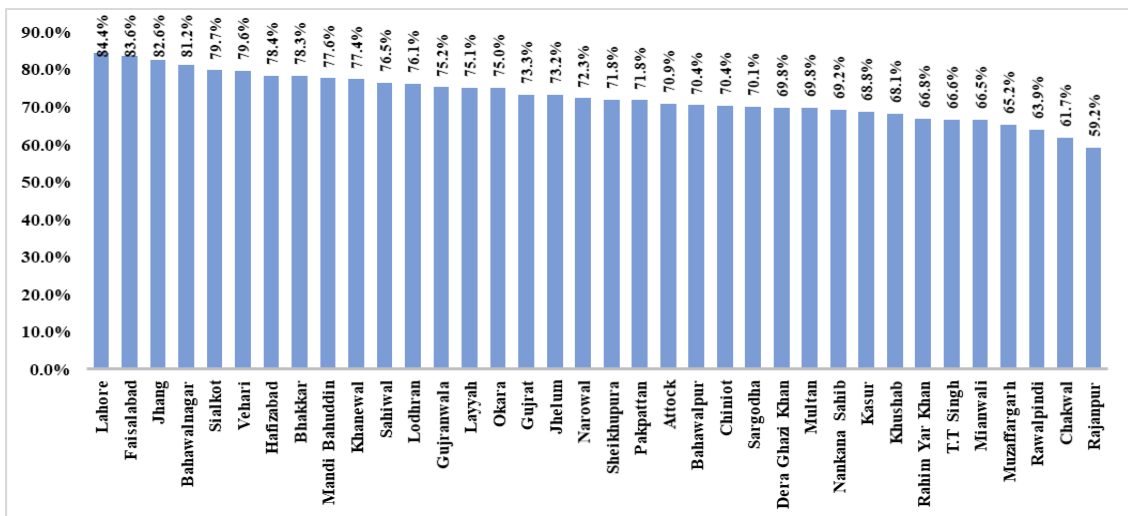


Figure 20: Waist to hip Ratio (>0.9) - District wise Distribution in Adults

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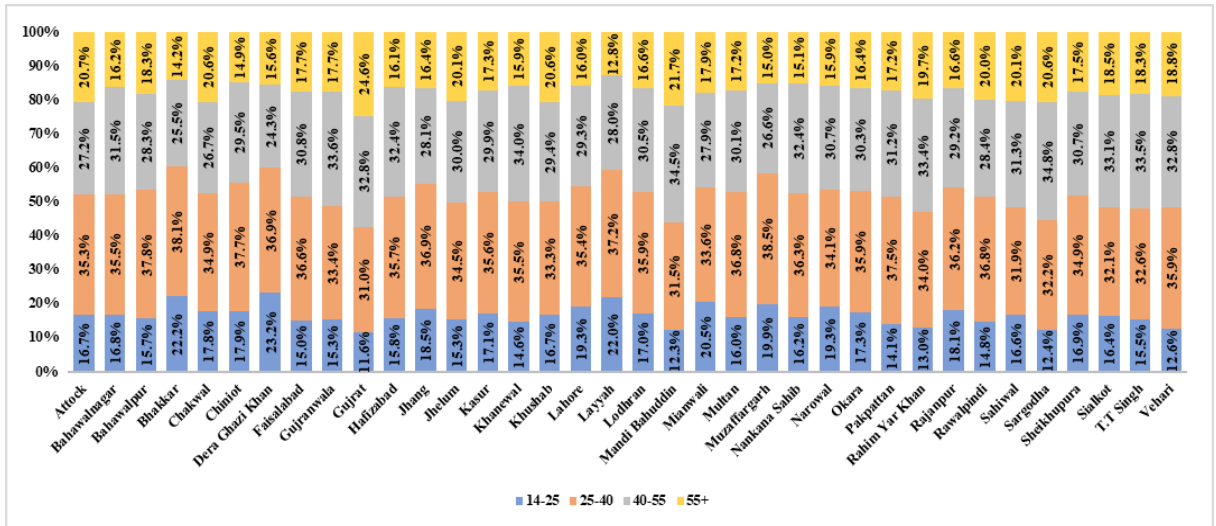


Figure 21: Waist to Hip Ratio (>0.9) - District wise Age Distribution in Adults

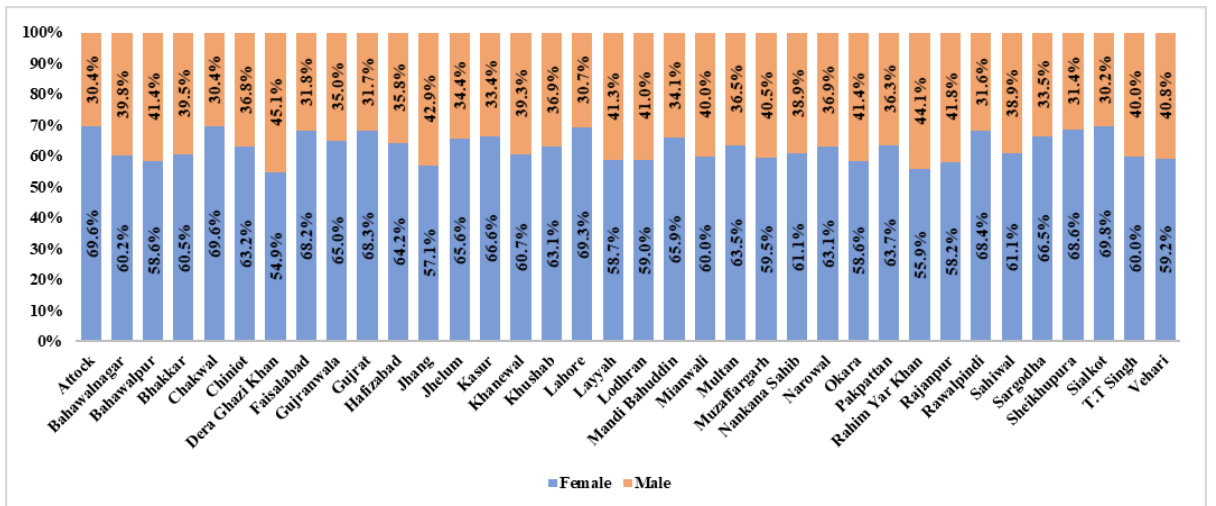


Figure 22: Waist to Hip Ratio (>0.9) - District wise Gender Distribution in Adults

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Table 13: Waist to hip Ratio (>0.9) - District wise Distribution in Adults Punjab

| District | Abdominal Obesity | Percentage | Total |
|------------------------|--------------------------|-------------------|----------------|
| Attock | 14,434 | 70.9 | 20,360 |
| Bahawalnagar | 20,932 | 81.2 | 25,776 |
| Bahawalpur | 16,337 | 70.4 | 23,190 |
| Bhakkar | 9,877 | 78.3 | 12,609 |
| Chakwal | 13,248 | 61.7 | 21,457 |
| Chiniot | 11,495 | 70.4 | 16,335 |
| Dera Ghazi Khan | 8,934 | 69.8 | 12,793 |
| Faisalabad | 44,232 | 83.6 | 52,907 |
| Gujranwala | 16,995 | 75.2 | 22,587 |
| Gujrat | 17,566 | 73.3 | 23,967 |
| Hafizabad | 7,519 | 78.4 | 9,594 |
| Jhang | 29,227 | 82.6 | 35,370 |
| Jhelum | 14,856 | 73.2 | 20,294 |
| Kasur | 13,637 | 68.8 | 19,835 |
| Khane wal | 13,318 | 77.4 | 17,207 |
| Khus hab | 14,812 | 68.1 | 21,754 |
| Lahore | 10,972 | 84.4 | 13,001 |
| Layyah | 17,967 | 75.1 | 23,928 |
| Lodhran | 13,114 | 76.1 | 17,222 |
| Mandi Bahuddin | 14,382 | 77.6 | 18,533 |
| Mianwali | 13,446 | 66.5 | 20,222 |
| Multan | 16,827 | 69.8 | 24,096 |
| Muzaffargarh | 18,154 | 65.2 | 27,833 |
| Nankana Sahib | 10,789 | 69.2 | 15,585 |
| Narowal | 15,231 | 72.3 | 21,058 |
| Okara | 20,100 | 75.0 | 26,796 |
| Pakpattan | 10,512 | 71.8 | 14,646 |
| Rahim Yar Khan | 18,328 | 66.8 | 27,444 |
| Rajanpur | 7,037 | 59.2 | 11,896 |
| Rawalpindi | 20,308 | 63.9 | 31,798 |
| Sahiwal | 15,952 | 76.5 | 20,861 |
| Sargodha | 20,742 | 70.1 | 29,609 |
| Sheikhupura | 18,963 | 71.8 | 26,397 |
| Sialkot | 18,924 | 79.7 | 23,735 |
| T.T Singh | 13,900 | 66.6 | 20,861 |
| Vehari | 21,796 | 79.6 | 27,376 |
| Total | 584,863 | 73.2 | 798,932 |

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Table 14: Waist to Hip Ratio (>0.9) - District wise Age Distribution in Adults Punjab

| District | 14-25 | | 25-40 | | 40-55 | | 55+ | | Total Abdominal Obesity |
|-----------------|---------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|-------------------------|
| | Frequency | % | Frequency | % | Frequency | % | Frequency | % | |
| Attock | 2,417 | 16.7 | 5,094 | 35.3 | 3,929 | 27.2 | 2,994 | 20.7 | 14,434 |
| Bahawalnagar | 3,525 | 16.8 | 7,425 | 35.5 | 6,593 | 31.5 | 3,389 | 16.2 | 20,932 |
| Bahawalpur | 2,557 | 15.7 | 6,168 | 37.8 | 4,627 | 28.3 | 2,985 | 18.3 | 16,337 |
| Bhakkar | 2,196 | 22.2 | 3,764 | 38.1 | 2,515 | 25.5 | 1,402 | 14.2 | 9,877 |
| Chakwal | 2,358 | 17.8 | 4,620 | 34.9 | 3,536 | 26.7 | 2,734 | 20.6 | 13,248 |
| Chiniot | 2,056 | 17.9 | 4,336 | 37.7 | 3,392 | 29.5 | 1,711 | 14.9 | 11,495 |
| Dera Ghazi Khan | 2,076 | 23.2 | 3,295 | 36.9 | 2,173 | 24.3 | 1,390 | 15.6 | 8,934 |
| Faisalabad | 6,615 | 15.0 | 16,187 | 36.6 | 13,621 | 30.8 | 7,809 | 17.7 | 44,232 |
| Gujranwala | 2,606 | 15.3 | 5,680 | 33.4 | 5,702 | 33.6 | 3,007 | 17.7 | 16,995 |
| Gujrat | 2,042 | 11.6 | 5,440 | 31.0 | 5,754 | 32.8 | 4,330 | 24.6 | 17,566 |
| Hafizabad | 1,190 | 15.8 | 2,685 | 35.7 | 2,436 | 32.4 | 1,208 | 16.1 | 7,519 |
| Jhang | 5,417 | 18.5 | 10,785 | 36.9 | 8,222 | 28.1 | 4,803 | 16.4 | 29,227 |
| Jhelum | 2,270 | 15.3 | 5,131 | 34.5 | 4,462 | 30.0 | 2,993 | 20.1 | 14,856 |
| Kasur | 2,334 | 17.1 | 4,859 | 35.6 | 4,084 | 29.9 | 2,360 | 17.3 | 13,637 |
| Khanelwal | 1,939 | 14.6 | 4,730 | 35.5 | 4,529 | 34.0 | 2,120 | 15.9 | 13,318 |
| Khushab | 2,468 | 16.7 | 4,934 | 33.3 | 4,352 | 29.4 | 3,058 | 20.6 | 14,812 |
| Lahore | 2,122 | 19.3 | 3,883 | 35.4 | 3,211 | 29.3 | 1,756 | 16.0 | 10,972 |
| Layyah | 3,954 | 22.0 | 6,692 | 37.2 | 5,029 | 28.0 | 2,292 | 12.8 | 17,967 |
| Lodhran | 2,228 | 17.0 | 4,711 | 35.9 | 4,000 | 30.5 | 2,175 | 16.6 | 13,114 |
| Mandi Bahuddin | 1,773 | 12.3 | 4,529 | 31.5 | 4,961 | 34.5 | 3,119 | 21.7 | 14,382 |
| Mianwali | 2,756 | 20.5 | 4,522 | 33.6 | 3,756 | 27.9 | 2,412 | 17.9 | 13,446 |
| Multan | 2,687 | 16.0 | 6,185 | 36.8 | 5,067 | 30.1 | 2,888 | 17.2 | 16,827 |
| Muzaffargarh | 3,614 | 19.9 | 6,990 | 38.5 | 4,826 | 26.6 | 2,724 | 15.0 | 18,154 |
| Nankana Sahib | 1,752 | 16.2 | 3,914 | 36.3 | 3,496 | 32.4 | 1,627 | 15.1 | 10,789 |
| Narowal | 2,943 | 19.3 | 5,197 | 34.1 | 4,669 | 30.7 | 2,422 | 15.9 | 15,231 |
| Okara | 3,479 | 17.3 | 7,217 | 35.9 | 6,099 | 30.3 | 3,305 | 16.4 | 20,100 |
| Pakpattan | 1,479 | 14.1 | 3,945 | 37.5 | 3,281 | 31.2 | 1,807 | 17.2 | 10,512 |
| Rahim Yar Khan | 2,379 | 13.0 | 6,224 | 34.0 | 6,116 | 33.4 | 3,609 | 19.7 | 18,328 |
| Rajanpur | 1,271 | 18.1 | 2,544 | 36.2 | 2,052 | 29.2 | 1,170 | 16.6 | 7,037 |
| Rawalpindi | 2,999 | 14.8 | 7,482 | 36.8 | 5,760 | 28.4 | 4,067 | 20.0 | 20,308 |
| Sahiwal | 2,650 | 16.6 | 5,091 | 31.9 | 4,997 | 31.3 | 3,214 | 20.1 | 15,952 |
| Sargodha | 2,567 | 12.4 | 6,674 | 32.2 | 7,228 | 34.8 | 4,273 | 20.6 | 20,742 |
| Sheikhupura | 3,210 | 16.9 | 6,613 | 34.9 | 5,828 | 30.7 | 3,312 | 17.5 | 18,963 |
| Sialkot | 3,103 | 16.4 | 6,073 | 32.1 | 6,255 | 33.1 | 3,493 | 18.5 | 18,924 |
| T.T Singh | 2,160 | 15.5 | 4,534 | 32.6 | 4,656 | 33.5 | 2,550 | 18.3 | 13,900 |
| Vehari | 2,739 | 12.6 | 7,814 | 35.9 | 7,148 | 32.8 | 4,095 | 18.8 | 21,796 |
| Total | 95,931 | 16.4 | 205,967 | 35.2 | 178,362 | 30.5 | 104,603 | 17.9 | 584,863 |

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Table 15: Waist to Hip Ratio (>0.9) - District wise Gender Distribution in Adults Punjab

| District | Female | | Male | | Total Abdominal Obesity |
|-----------------|----------------|-------------|----------------|-------------|-------------------------|
| | Frequency | % | Frequency | % | |
| Attock | 10,043 | 69.6 | 4,391 | 30.4 | 14,434 |
| Bahawalnagar | 12,595 | 60.2 | 8,337 | 39.8 | 20,932 |
| Bahawalpur | 9,571 | 58.6 | 6,766 | 41.4 | 16,337 |
| Bhakkar | 5,972 | 60.5 | 3,905 | 39.5 | 9,877 |
| Chakwal | 9,223 | 69.6 | 4,025 | 30.4 | 13,248 |
| Chiniot | 7,269 | 63.2 | 4,226 | 36.8 | 11,495 |
| Dera Ghazi Khan | 4,904 | 54.9 | 4,030 | 45.1 | 8,934 |
| Faisalabad | 30,181 | 68.2 | 14,051 | 31.8 | 44,232 |
| Gujranwala | 11,044 | 65.0 | 5,951 | 35.0 | 16,995 |
| Gujrat | 12,004 | 68.3 | 5,562 | 31.7 | 17,566 |
| Hafizabad | 4,830 | 64.2 | 2,689 | 35.8 | 7,519 |
| Jhang | 16,696 | 57.1 | 12,531 | 42.9 | 29,227 |
| Jhelum | 9,749 | 65.6 | 5,107 | 34.4 | 14,856 |
| Kasur | 9,084 | 66.6 | 4,553 | 33.4 | 13,637 |
| Khane wal | 8,087 | 60.7 | 5,231 | 39.3 | 13,318 |
| Khushab | 9,352 | 63.1 | 5,460 | 36.9 | 14,812 |
| Lahore | 7,599 | 69.3 | 3,373 | 30.7 | 10,972 |
| Layyah | 10,548 | 58.7 | 7,419 | 41.3 | 17,967 |
| Lodhran | 7,736 | 59.0 | 5,378 | 41.0 | 13,114 |
| Mandi Bahuddin | 9,483 | 65.9 | 4,899 | 34.1 | 14,382 |
| Mianwali | 8,066 | 60.0 | 5,380 | 40.0 | 13,446 |
| Multan | 10,689 | 63.5 | 6,138 | 36.5 | 16,827 |
| Muzaffargarh | 10,808 | 59.5 | 7,346 | 40.5 | 18,154 |
| Nankana Sahib | 6,591 | 61.1 | 4,198 | 38.9 | 10,789 |
| Narowal | 9,613 | 63.1 | 5,618 | 36.9 | 15,231 |
| Okara | 11,771 | 58.6 | 8,329 | 41.4 | 20,100 |
| Pakpattan | 6,691 | 63.7 | 3,821 | 36.3 | 10,512 |
| Rahim Yar Khan | 10,252 | 55.9 | 8,076 | 44.1 | 18,328 |
| Rajanpur | 4,099 | 58.2 | 2,938 | 41.8 | 7,037 |
| Rawalpindi | 13,891 | 68.4 | 6,417 | 31.6 | 20,308 |
| Sahiwal | 9,741 | 61.1 | 6,211 | 38.9 | 15,952 |
| Sargodha | 13,800 | 66.5 | 6,942 | 33.5 | 20,742 |
| Sheikhupura | 13,004 | 68.6 | 5,959 | 31.4 | 18,963 |
| Sialkot | 13,200 | 69.8 | 5,724 | 30.2 | 18,924 |
| T.T Singh | 8,339 | 60.0 | 5,561 | 40.0 | 13,900 |
| Vehari | 12,914 | 59.2 | 8,882 | 40.8 | 21,796 |
| Total | 369,439 | 63.2 | 215,424 | 36.8 | 584,863 |

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Hemoglobin Level

The mean hemoglobin level (n= 681,821) was found to be 11.89 ± 1.836 . It was re-coded in 4 categories of normal Hb (>12), Mild anemia (9.6-12), Moderate Anemia (8-9.5) and Severe Anemia (<8). 59% people had normal Hb Level, 34% had mild anemia, 6% had Moderate anemia and 1% were found to have severe anemia. 52.1% of females and 22.7% of males had Hb <12. Highest prevalence of Low Hb <12 was found in age groups 25-40.

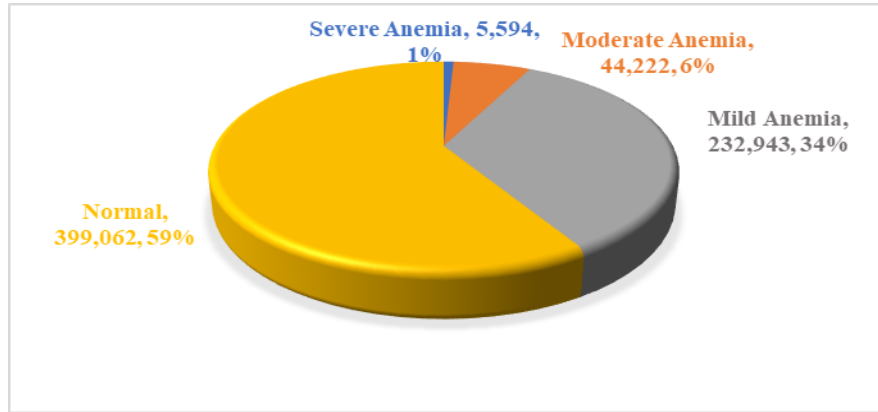


Figure 23: Haemoglobin Level of Adults Screened

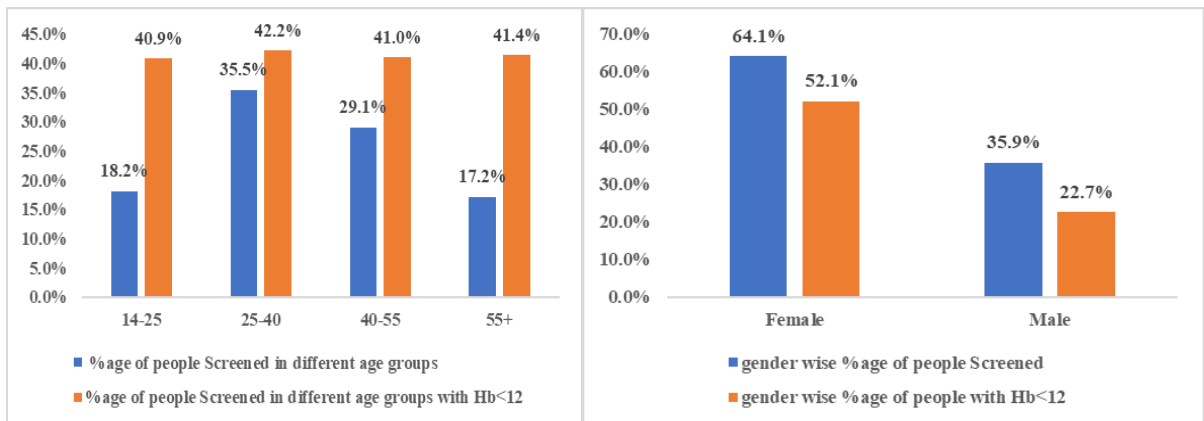


Figure 24: Hb level (<12g/dl) - Age and Gender wise Distribution in Adults – Punjab

Note: The percentage of Anaemia (Hb<12) is calculated against the percentage of people screened in each age & gender group.

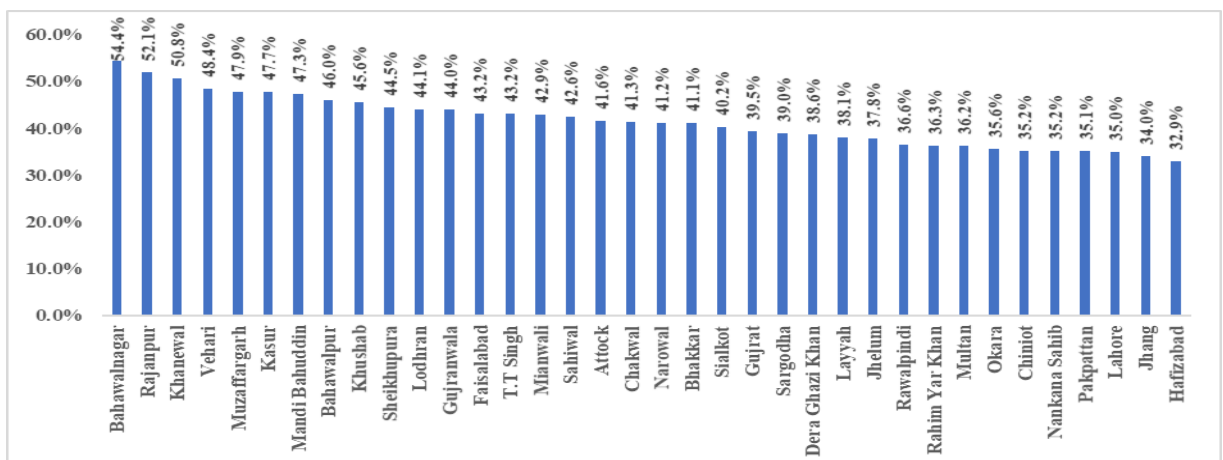


Figure 25: Anaemia (Hb<12g/dl) - District wise Distribution in Adults

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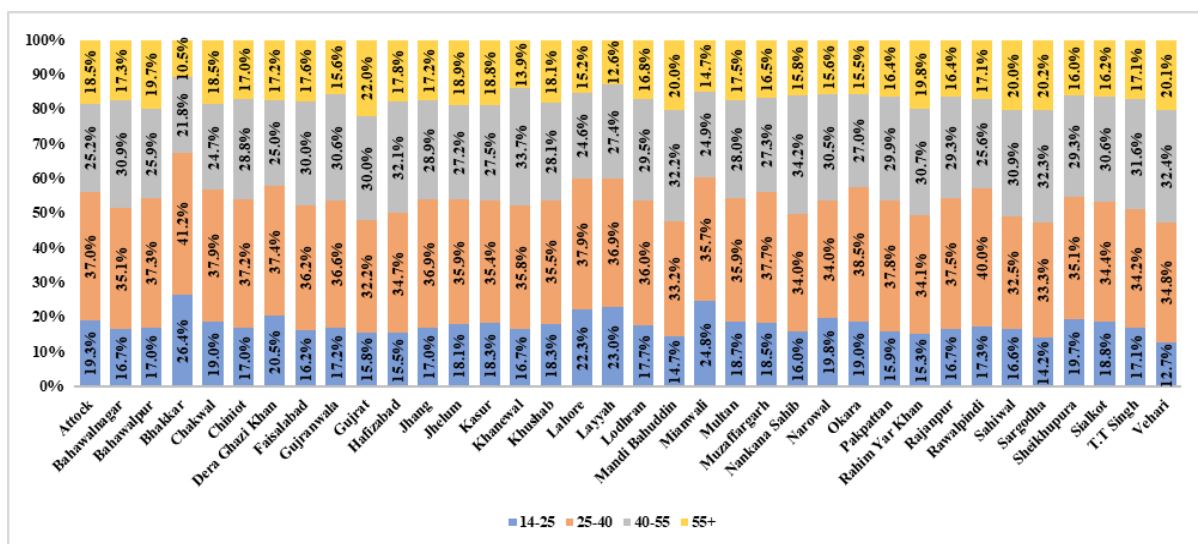


Figure 26: Anaemia (Hb<12g/dl) - District wise Age Distribution in Adults

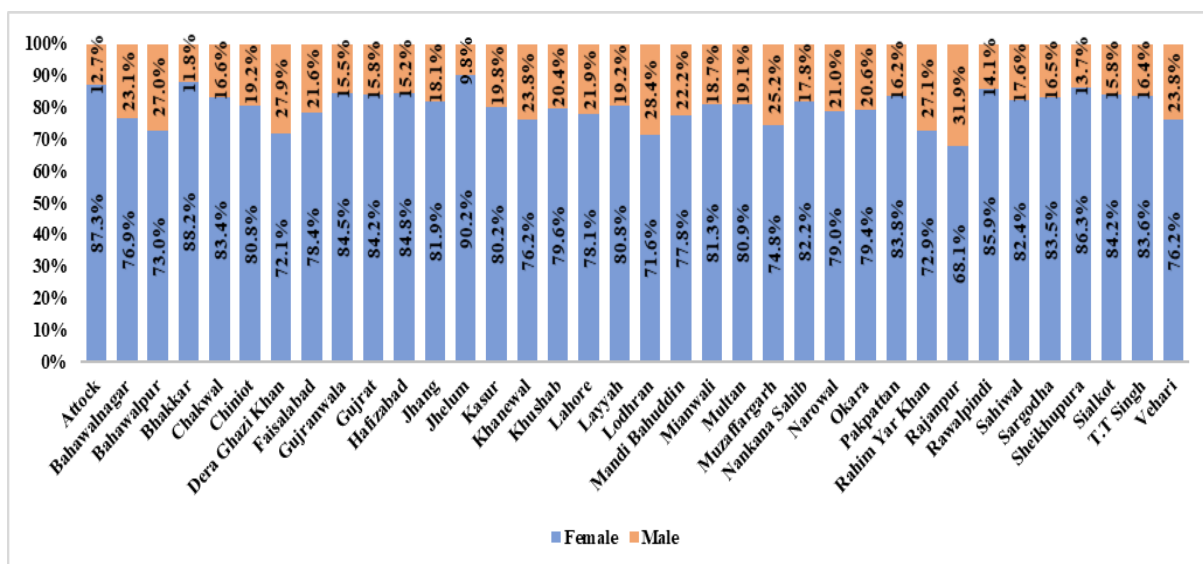


Figure 27: Anaemia (Hb<12g/dl) - District wise Gender Distribution in Adults

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Table 16: Anaemia (Hb<12g/dl) District wise Distribution in Adults Punjab

| District | Anemia Distribution | | Total |
|-----------------|---------------------|-------------|----------------|
| | Frequency | % | |
| Attock | 7,208 | 41.6 | 17,318 |
| Bahawalnagar | 12,481 | 54.4 | 22,923 |
| Bahawalpur | 10,046 | 46.0 | 21,830 |
| Bhakkar | 4,959 | 41.1 | 12,077 |
| Chakwal | 8,080 | 41.3 | 19,545 |
| Chiniot | 5,574 | 35.2 | 15,815 |
| Dera Ghazi Khan | 4,688 | 38.6 | 12,134 |
| Faisalabad | 11,830 | 43.2 | 27,357 |
| Gujranwala | 7,875 | 44.0 | 17,903 |
| Gujrat | 8,267 | 39.5 | 20,953 |
| Hafizabad | 2,711 | 32.9 | 8,237 |
| Jhang | 11,448 | 34.0 | 33,681 |
| Jhelum | 6,137 | 37.8 | 16,239 |
| Kasur | 6,913 | 47.7 | 14,487 |
| Khane wal | 6,041 | 50.8 | 11,898 |
| Khus hab | 8,846 | 45.6 | 19,404 |
| Lahore | 3,293 | 35.0 | 9,408 |
| Layyah | 8,616 | 38.1 | 22,642 |
| Lodhran | 7,197 | 44.1 | 16,311 |
| Mandi Bahuddin | 7,606 | 47.3 | 16,072 |
| Mianwali | 8,053 | 42.9 | 18,763 |
| Multan | 8,219 | 36.2 | 22,703 |
| Muzaffargarh | 12,291 | 47.9 | 25,665 |
| Nankana Sahib | 4,116 | 35.2 | 11,697 |
| Narowal | 6,399 | 41.2 | 15,549 |
| Okara | 8,540 | 35.6 | 24,003 |
| Pakpattan | 3,684 | 35.1 | 10,500 |
| Rahim Yar Khan | 9,698 | 36.3 | 26,738 |
| Rajanpur | 5,439 | 52.1 | 10,440 |
| Rawalpindi | 10,384 | 36.6 | 28,404 |
| Sahiwal | 8,330 | 42.6 | 19,574 |
| Sargodha | 10,583 | 39.0 | 27,127 |
| She ikhupura | 9,952 | 44.5 | 22,379 |
| Sialkot | 8,528 | 40.2 | 21,211 |
| T.T Singh | 8,600 | 43.2 | 19,922 |
| Vehari | 10,127 | 48.4 | 20,912 |
| Total | 282,759 | 41.5 | 681,821 |

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Table 17: Anaemia (Hb<12g/dl) - District wise Age Distribution in Adults Punjab

| District | 14-25 | | 25-40 | | 40-55 | | 55+ | | Total Anemia |
|-----------------|---------------|-------------|----------------|-------------|---------------|-------------|---------------|-------------|----------------|
| | Frequency | % | Frequency | % | Frequency | % | Frequency | % | |
| Attock | 1,388 | 19.3 | 2,667 | 37.0 | 1,819 | 25.2 | 1,334 | 18.5 | 7,208 |
| Bahawalnagar | 2,080 | 16.7 | 4,379 | 35.1 | 3,861 | 30.9 | 2,161 | 17.3 | 12,481 |
| Bahawalpur | 1,711 | 17.0 | 3,752 | 37.3 | 2,601 | 25.9 | 1,982 | 19.7 | 10,046 |
| Bhakkar | 1,311 | 26.4 | 2,042 | 41.2 | 1,083 | 21.8 | 523 | 10.5 | 4,959 |
| Chakwal | 1,532 | 19.0 | 3,060 | 37.9 | 1,995 | 24.7 | 1,493 | 18.5 | 8,080 |
| Chiniot | 946 | 17.0 | 2,075 | 37.2 | 1,606 | 28.8 | 947 | 17.0 | 5,574 |
| Dera Ghazi Khan | 960 | 20.5 | 1,751 | 37.4 | 1,173 | 25.0 | 804 | 17.2 | 4,688 |
| Faisalabad | 1,921 | 16.2 | 4,284 | 36.2 | 3,548 | 30.0 | 2,077 | 17.6 | 11,830 |
| Gujranwala | 1,354 | 17.2 | 2,883 | 36.6 | 2,411 | 30.6 | 1,227 | 15.6 | 7,875 |
| Gujrat | 1,304 | 15.8 | 2,661 | 32.2 | 2,483 | 30.0 | 1,819 | 22.0 | 8,267 |
| Hafizabad | 419 | 15.5 | 940 | 34.7 | 869 | 32.1 | 483 | 17.8 | 2,711 |
| Jhang | 1,948 | 17.0 | 4,227 | 36.9 | 3,307 | 28.9 | 1,966 | 17.2 | 11,448 |
| Jhelum | 1,108 | 18.1 | 2,205 | 35.9 | 1,667 | 27.2 | 1,157 | 18.9 | 6,137 |
| Kasur | 1,264 | 18.3 | 2,444 | 35.4 | 1,902 | 27.5 | 1,303 | 18.8 | 6,913 |
| Khaneval | 1,006 | 16.7 | 2,161 | 35.8 | 2,033 | 33.7 | 841 | 13.9 | 6,041 |
| Khushab | 1,616 | 18.3 | 3,144 | 35.5 | 2,486 | 28.1 | 1,600 | 18.1 | 8,846 |
| Lahore | 733 | 22.3 | 1,249 | 37.9 | 811 | 24.6 | 500 | 15.2 | 3,293 |
| Layyah | 1,985 | 23.0 | 3,178 | 36.9 | 2,365 | 27.4 | 1,088 | 12.6 | 8,616 |
| Lodhran | 1,273 | 17.7 | 2,591 | 36.0 | 2,123 | 29.5 | 1,210 | 16.8 | 7,197 |
| Mandi Bahuddin | 1,115 | 14.7 | 2,524 | 33.2 | 2,446 | 32.2 | 1,521 | 20.0 | 7,606 |
| Mianwali | 1,994 | 24.8 | 2,871 | 35.7 | 2,003 | 24.9 | 1,185 | 14.7 | 8,053 |
| Multan | 1,535 | 18.7 | 2,949 | 35.9 | 2,300 | 28.0 | 1,435 | 17.5 | 8,219 |
| Muzaffargarh | 2,277 | 18.5 | 4,634 | 37.7 | 3,356 | 27.3 | 2,024 | 16.5 | 12,291 |
| Nankana Sahib | 658 | 16.0 | 1,398 | 34.0 | 1,409 | 34.2 | 651 | 15.8 | 4,116 |
| Narowal | 1,270 | 19.8 | 2,174 | 34.0 | 1,954 | 30.5 | 1,001 | 15.6 | 6,399 |
| Okara | 1,619 | 19.0 | 3,292 | 38.5 | 2,307 | 27.0 | 1,322 | 15.5 | 8,540 |
| Pakpattan | 584 | 15.9 | 1,394 | 37.8 | 1,103 | 29.9 | 603 | 16.4 | 3,684 |
| Rahim Yar Khan | 1,485 | 15.3 | 3,310 | 34.1 | 2,982 | 30.7 | 1,921 | 19.8 | 9,698 |
| Rajanpur | 911 | 16.7 | 2,042 | 37.5 | 1,594 | 29.3 | 892 | 16.4 | 5,439 |
| Rawalpindi | 1,797 | 17.3 | 4,154 | 40.0 | 2,654 | 25.6 | 1,779 | 17.1 | 10,384 |
| Sahiwal | 1,386 | 16.6 | 2,710 | 32.5 | 2,570 | 30.9 | 1,664 | 20.0 | 8,330 |
| Sargodha | 1,500 | 14.2 | 3,529 | 33.3 | 3,414 | 32.3 | 2,140 | 20.2 | 10,583 |
| Sheikhupura | 1,957 | 19.7 | 3,492 | 35.1 | 2,915 | 29.3 | 1,588 | 16.0 | 9,952 |
| Sialkot | 1,603 | 18.8 | 2,937 | 34.4 | 2,608 | 30.6 | 1,380 | 16.2 | 8,528 |
| T.T Singh | 1,468 | 17.1 | 2,945 | 34.2 | 2,718 | 31.6 | 1,469 | 17.1 | 8,600 |
| Vehari | 1,284 | 12.7 | 3,523 | 34.8 | 3,286 | 32.4 | 2,034 | 20.1 | 10,127 |
| Total | 50,302 | 17.8 | 101,571 | 35.9 | 81,762 | 28.9 | 49,124 | 17.4 | 282,759 |

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Table 18: Anaemia (Hb<12g/dl) - District wise Gender Distribution in Adults Punjab

| District | Female | | Male | | Total Anemia |
|-----------------|----------------|-------------|---------------|-------------|----------------|
| | Frequency | % | Frequency | % | |
| Attock | 6,293 | 87.3 | 915 | 12.7 | 7,208 |
| Bahawalnagar | 9,592 | 76.9 | 2,889 | 23.1 | 12,481 |
| Bahawalpur | 7,333 | 73.0 | 2,713 | 27.0 | 10,046 |
| Bhakkar | 4,375 | 88.2 | 584 | 11.8 | 4,959 |
| Chakwal | 6,741 | 83.4 | 1,339 | 16.6 | 8,080 |
| Chiniot | 4,504 | 80.8 | 1,070 | 19.2 | 5,574 |
| Dera Ghazi Khan | 3,380 | 72.1 | 1,308 | 27.9 | 4,688 |
| Faisalabad | 9,275 | 78.4 | 2,555 | 21.6 | 11,830 |
| Gujranwala | 6,653 | 84.5 | 1,222 | 15.5 | 7,875 |
| Gujrat | 6,961 | 84.2 | 1,306 | 15.8 | 8,267 |
| Hafizabad | 2,300 | 84.8 | 411 | 15.2 | 2,711 |
| Jhang | 9,381 | 81.9 | 2,067 | 18.1 | 11,448 |
| Jhelum | 5,537 | 90.2 | 600 | 9.8 | 6,137 |
| Kasur | 5,546 | 80.2 | 1,367 | 19.8 | 6,913 |
| Khane wal | 4,605 | 76.2 | 1,436 | 23.8 | 6,041 |
| Khus hab | 7,042 | 79.6 | 1,804 | 20.4 | 8,846 |
| Lahore | 2,573 | 78.1 | 720 | 21.9 | 3,293 |
| Layyah | 6,961 | 80.8 | 1,655 | 19.2 | 8,616 |
| Lodhran | 5,156 | 71.6 | 2,041 | 28.4 | 7,197 |
| Mandi Bahuddin | 5,920 | 77.8 | 1,686 | 22.2 | 7,606 |
| Mianwali | 6,550 | 81.3 | 1,503 | 18.7 | 8,053 |
| Multan | 6,652 | 80.9 | 1,567 | 19.1 | 8,219 |
| Muzaffargarh | 9,190 | 74.8 | 3,101 | 25.2 | 12,291 |
| Nankana Sahib | 3,383 | 82.2 | 733 | 17.8 | 4,116 |
| Narowal | 5,055 | 79.0 | 1,344 | 21.0 | 6,399 |
| Okara | 6,781 | 79.4 | 1,759 | 20.6 | 8,540 |
| Pakpattan | 3,088 | 83.8 | 596 | 16.2 | 3,684 |
| Rahim Yar Khan | 7,069 | 72.9 | 2,629 | 27.1 | 9,698 |
| Rajanpur | 3,704 | 68.1 | 1,735 | 31.9 | 5,439 |
| Rawalpindi | 8,916 | 85.9 | 1,468 | 14.1 | 10,384 |
| Sahiwal | 6,866 | 82.4 | 1,464 | 17.6 | 8,330 |
| Sargodha | 8,833 | 83.5 | 1,750 | 16.5 | 10,583 |
| Sheikhupura | 8,584 | 86.3 | 1,368 | 13.7 | 9,952 |
| Sialkot | 7,182 | 84.2 | 1,346 | 15.8 | 8,528 |
| T.T Singh | 7,187 | 83.6 | 1,413 | 16.4 | 8,600 |
| Vehari | 7,715 | 76.2 | 2,412 | 23.8 | 10,127 |
| Total | 226,883 | 80.2 | 55,876 | 19.8 | 282,759 |

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Screening for Non Communicable Diseases

Peak Expiratory Flow Rate (PEFR)

The PEFR (n= 737,379) was found to be normal in 73% cases. It was mildly deranged in 16.8%, moderately deranged in 9.6% and severely deranged in 0.96% people. PEFR was found to be deranged in 10.6 % females and 10.5 % males with a gradual increase in prevalence with age (Max. of 14.5% in age group 55+).

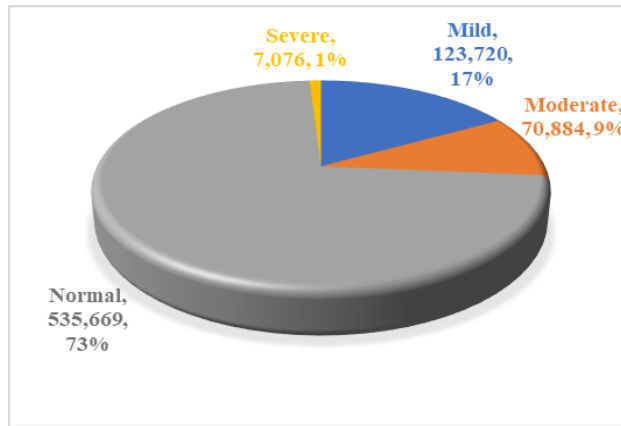


Figure 28: PEFR of Adults Screened

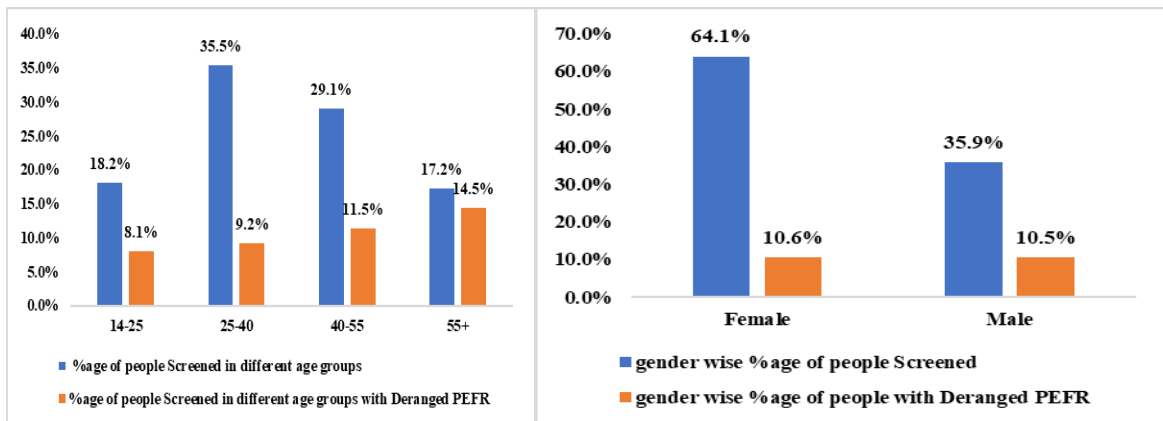


Figure 29: Deranged PEFR - Age and Gender wise Distribution in Adults – Punjab

Note: The percentage of persons with deranged PEFR is calculated against the percentage of people screened in each age & gender group.

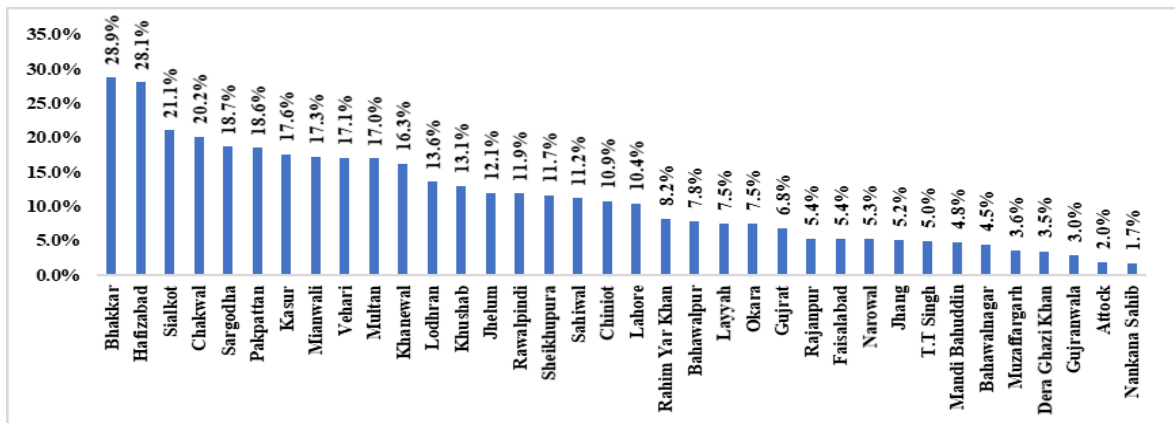


Figure 30: Deranged PEFR - District wise Distribution in Adults

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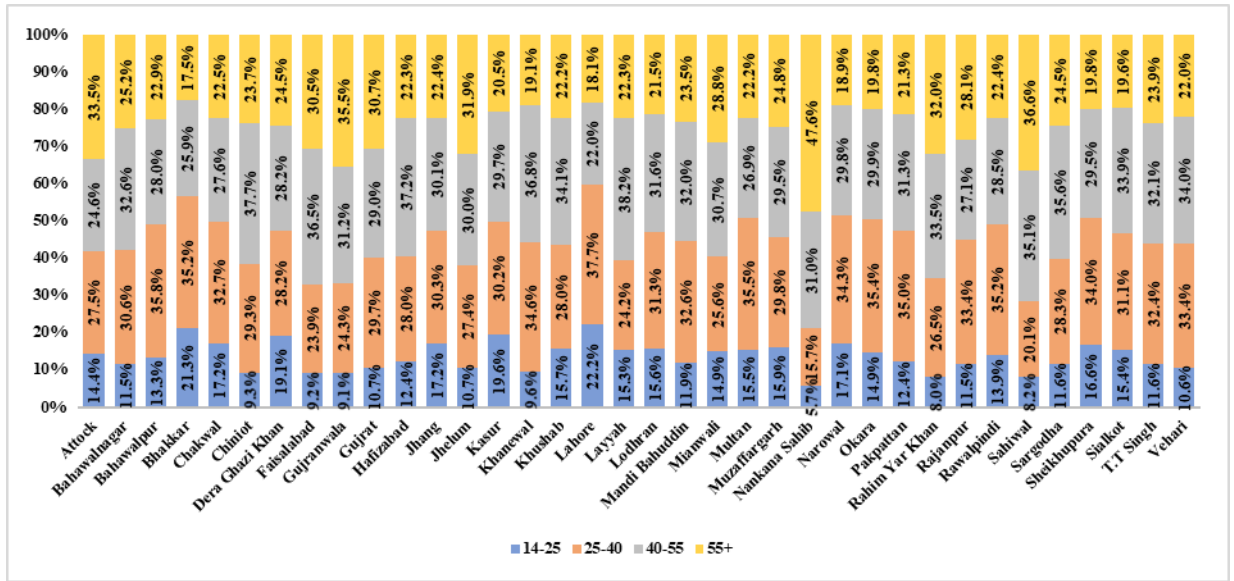


Figure 31: Deranged PEFR - District wise Age Distribution in Adults

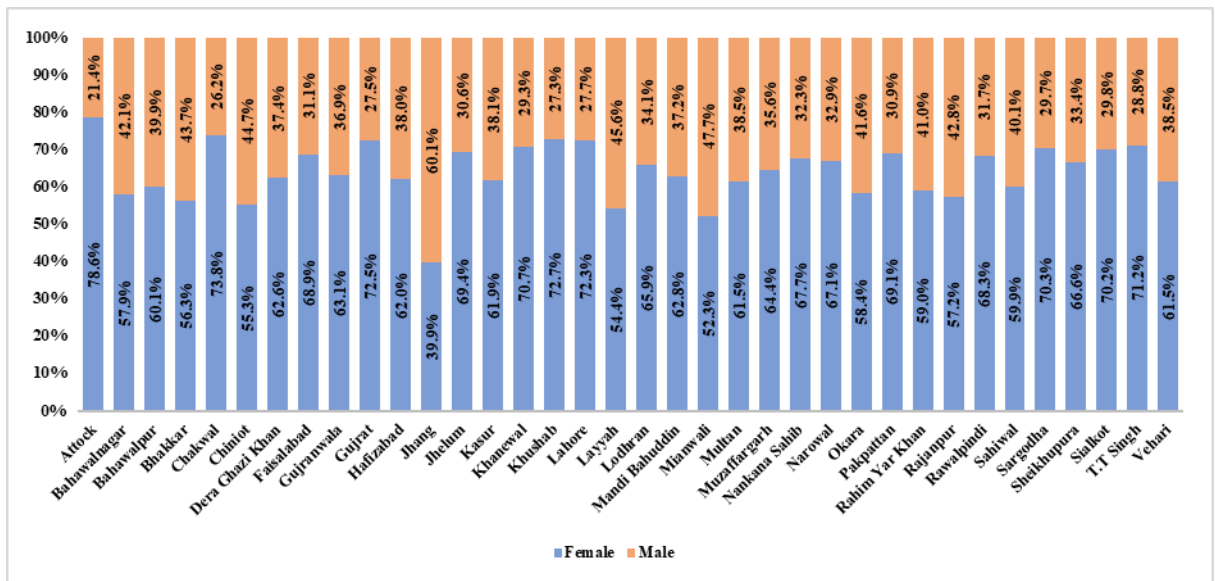


Figure 32: Deranged PEFR - District wise Gender Distribution of Adults Screened

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Table 19: Deranged PEFR - District wise Distribution in Adults Punjab

| District | Deranged PEFR | | Total |
|-----------------|---------------|-------------|----------------|
| | Frequency | % | |
| Attock | 313 | 2.0 | 16,047 |
| Bahawalnagar | 956 | 4.5 | 21,338 |
| Bahawalpur | 1,740 | 7.8 | 22,222 |
| Bhakkar | 3,398 | 28.9 | 11,778 |
| Chakwal | 3,859 | 20.2 | 19,145 |
| Chiniot | 1,723 | 10.9 | 15,863 |
| Dera Ghazi Khan | 444 | 3.5 | 12,570 |
| Faisalabad | 2,620 | 5.4 | 48,703 |
| Gujranwala | 626 | 3.0 | 20,855 |
| Gujrat | 1,568 | 6.8 | 23,010 |
| Hafizabad | 2,484 | 28.1 | 8,832 |
| Jhang | 1,735 | 5.2 | 33,253 |
| Jhelum | 2,317 | 12.1 | 19,227 |
| Kasur | 2,751 | 17.6 | 15,590 |
| Khane wal | 2,583 | 16.3 | 15,843 |
| Khushab | 2,745 | 13.1 | 21,005 |
| Lahore | 1,285 | 10.4 | 12,332 |
| Layyah | 1,739 | 7.5 | 23,169 |
| Lodhran | 2,208 | 13.6 | 16,206 |
| Mandi Bahuddin | 868 | 4.8 | 18,000 |
| Mianwali | 3,314 | 17.3 | 19,167 |
| Multan | 3,836 | 17.0 | 22,533 |
| Muzaffargarh | 872 | 3.6 | 24,533 |
| Nankana Sahib | 229 | 1.7 | 13,641 |
| Narowal | 1,013 | 5.3 | 19,012 |
| Okara | 1,797 | 7.5 | 24,061 |
| Pakpattan | 2,560 | 18.6 | 13,794 |
| Rahim Yar Khan | 2,005 | 8.2 | 24,576 |
| Rajanpur | 584 | 5.4 | 10,850 |
| Rawalpindi | 3,636 | 11.9 | 30,542 |
| Sahiwal | 2,289 | 11.2 | 20,426 |
| Sargodha | 5,175 | 18.7 | 27,610 |
| Sheikhupura | 2,941 | 11.7 | 25,158 |
| Sialkot | 4,366 | 21.1 | 20,698 |
| T.T Singh | 1,030 | 5.0 | 20,409 |
| Vehari | 4,351 | 17.1 | 25,381 |
| Total | 77,960 | 10.6 | 737,379 |

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Table 20: Deranged PEFR - District wise Age Distribution in Adults Punjab

| District | 14-25 | | 25-40 | | 40-55 | | 55+ | | Total Deranged PEFR |
|-----------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------------|
| | Frequency | % | Frequency | % | Frequency | % | Frequency | % | |
| Attock | 45 | 14.4 | 86 | 27.5 | 77 | 24.6 | 105 | 33.5 | 313 |
| Bahawalnagar | 110 | 11.5 | 293 | 30.6 | 312 | 32.6 | 241 | 25.2 | 956 |
| Bahawalpur | 232 | 13.3 | 623 | 35.8 | 487 | 28.0 | 398 | 22.9 | 1,740 |
| Bhakkar | 725 | 21.3 | 1,197 | 35.2 | 881 | 25.9 | 595 | 17.5 | 3,398 |
| Chakwal | 664 | 17.2 | 1,261 | 32.7 | 1,066 | 27.6 | 868 | 22.5 | 3,859 |
| Chiniot | 160 | 9.3 | 505 | 29.3 | 649 | 37.7 | 409 | 23.7 | 1,723 |
| Dera Ghazi Khan | 85 | 19.1 | 125 | 28.2 | 125 | 28.2 | 109 | 24.5 | 444 |
| Faisalabad | 240 | 9.2 | 625 | 23.9 | 956 | 36.5 | 799 | 30.5 | 2,620 |
| Gujranwala | 57 | 9.1 | 152 | 24.3 | 195 | 31.2 | 222 | 35.5 | 626 |
| Gujrat | 167 | 10.7 | 465 | 29.7 | 454 | 29.0 | 482 | 30.7 | 1,568 |
| Hafizabad | 309 | 12.4 | 696 | 28.0 | 924 | 37.2 | 555 | 22.3 | 2,484 |
| Jhang | 298 | 17.2 | 526 | 30.3 | 522 | 30.1 | 389 | 22.4 | 1,735 |
| Jhelum | 247 | 10.7 | 635 | 27.4 | 695 | 30.0 | 740 | 31.9 | 2,317 |
| Kasur | 538 | 19.6 | 832 | 30.2 | 816 | 29.7 | 565 | 20.5 | 2,751 |
| Khaneval | 247 | 9.6 | 893 | 34.6 | 950 | 36.8 | 493 | 19.1 | 2,583 |
| Khushab | 431 | 15.7 | 769 | 28.0 | 935 | 34.1 | 610 | 22.2 | 2,745 |
| Lahore | 285 | 22.2 | 484 | 37.7 | 283 | 22.0 | 233 | 18.1 | 1,285 |
| Layyah | 266 | 15.3 | 421 | 24.2 | 664 | 38.2 | 388 | 22.3 | 1,739 |
| Lodhran | 344 | 15.6 | 691 | 31.3 | 698 | 31.6 | 475 | 21.5 | 2,208 |
| Mandi Bahuddin | 103 | 11.9 | 283 | 32.6 | 278 | 32.0 | 204 | 23.5 | 868 |
| Mianwali | 493 | 14.9 | 847 | 25.6 | 1,019 | 30.7 | 955 | 28.8 | 3,314 |
| Multan | 593 | 15.5 | 1,360 | 35.5 | 1,031 | 26.9 | 852 | 22.2 | 3,836 |
| Muzaffargarh | 139 | 15.9 | 260 | 29.8 | 257 | 29.5 | 216 | 24.8 | 872 |
| Nankana Sahib | 13 | 5.7 | 36 | 15.7 | 71 | 31.0 | 109 | 47.6 | 229 |
| Narowal | 173 | 17.1 | 347 | 34.3 | 302 | 29.8 | 191 | 18.9 | 1,013 |
| Okara | 267 | 14.9 | 637 | 35.4 | 537 | 29.9 | 356 | 19.8 | 1,797 |
| Pakpattan | 317 | 12.4 | 897 | 35.0 | 800 | 31.3 | 546 | 21.3 | 2,560 |
| Rahim Yar Khan | 161 | 8.0 | 531 | 26.5 | 672 | 33.5 | 641 | 32.0 | 2,005 |
| Rajanpur | 67 | 11.5 | 195 | 33.4 | 158 | 27.1 | 164 | 28.1 | 584 |
| Rawalpindi | 504 | 13.9 | 1,281 | 35.2 | 1,037 | 28.5 | 814 | 22.4 | 3,636 |
| Sahiwal | 187 | 8.2 | 461 | 20.1 | 804 | 35.1 | 837 | 36.6 | 2,289 |
| Sargodha | 599 | 11.6 | 1,466 | 28.3 | 1,840 | 35.6 | 1,270 | 24.5 | 5,175 |
| Sheikhupura | 489 | 16.6 | 1,001 | 34.0 | 868 | 29.5 | 583 | 19.8 | 2,941 |
| Sialkot | 672 | 15.4 | 1,360 | 31.1 | 1,478 | 33.9 | 856 | 19.6 | 4,366 |
| T.T Singh | 119 | 11.6 | 334 | 32.4 | 331 | 32.1 | 246 | 23.9 | 1,030 |
| Vehari | 461 | 10.6 | 1,452 | 33.4 | 1,481 | 34.0 | 957 | 22.0 | 4,351 |
| Total | 10,807 | 13.9 | 24,027 | 30.8 | 24,653 | 31.6 | 18,473 | 23.7 | 77,960 |

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Table 21: Deranged PEFR - District wise Gender Distribution in Adults Punjab

| District | Female | | Male | | Total Deranged PEFR |
|-----------------|---------------|-------------|---------------|-------------|---------------------|
| | Frequency | % | Frequency | % | |
| Attock | 246 | 78.6 | 67 | 21.4 | 313 |
| Bahawalnagar | 554 | 57.9 | 402 | 42.1 | 956 |
| Bahawalpur | 1,046 | 60.1 | 694 | 39.9 | 1,740 |
| Bhakkar | 1,914 | 56.3 | 1,484 | 43.7 | 3,398 |
| Chakwal | 2,848 | 73.8 | 1,011 | 26.2 | 3,859 |
| Chiniot | 953 | 55.3 | 770 | 44.7 | 1,723 |
| Dera Ghazi Khan | 278 | 62.6 | 166 | 37.4 | 444 |
| Faisalabad | 1,804 | 68.9 | 816 | 31.1 | 2,620 |
| Gujranwala | 395 | 63.1 | 231 | 36.9 | 626 |
| Gujrat | 1,137 | 72.5 | 431 | 27.5 | 1,568 |
| Hafizabad | 1,540 | 62.0 | 944 | 38.0 | 2,484 |
| Jhang | 692 | 39.9 | 1,043 | 60.1 | 1,735 |
| Jhelum | 1,609 | 69.4 | 708 | 30.6 | 2,317 |
| Kasur | 1,703 | 61.9 | 1,048 | 38.1 | 2,751 |
| Khane wal | 1,826 | 70.7 | 757 | 29.3 | 2,583 |
| Khushab | 1,995 | 72.7 | 750 | 27.3 | 2,745 |
| Lahore | 929 | 72.3 | 356 | 27.7 | 1,285 |
| Layyah | 946 | 54.4 | 793 | 45.6 | 1,739 |
| Lodhran | 1,456 | 65.9 | 752 | 34.1 | 2,208 |
| Mandi Bahuddin | 545 | 62.8 | 323 | 37.2 | 868 |
| Mianwali | 1,734 | 52.3 | 1,580 | 47.7 | 3,314 |
| Multan | 2,361 | 61.5 | 1,475 | 38.5 | 3,836 |
| Muzaffargarh | 562 | 64.4 | 310 | 35.6 | 872 |
| Nankana Sahib | 155 | 67.7 | 74 | 32.3 | 229 |
| Narowal | 680 | 67.1 | 333 | 32.9 | 1,013 |
| Okara | 1,049 | 58.4 | 748 | 41.6 | 1,797 |
| Pakpattan | 1,769 | 69.1 | 791 | 30.9 | 2,560 |
| Rahim Yar Khan | 1,182 | 59.0 | 823 | 41.0 | 2,005 |
| Rajanpur | 334 | 57.2 | 250 | 42.8 | 584 |
| Rawalpindi | 2,483 | 68.3 | 1,153 | 31.7 | 3,636 |
| Sahiwal | 1,372 | 59.9 | 917 | 40.1 | 2,289 |
| Sargodha | 3,636 | 70.3 | 1,539 | 29.7 | 5,175 |
| Sheikhupura | 1,958 | 66.6 | 983 | 33.4 | 2,941 |
| Sialkot | 3,063 | 70.2 | 1,303 | 29.8 | 4,366 |
| T.T Singh | 733 | 71.2 | 297 | 28.8 | 1,030 |
| Vehari | 2,676 | 61.5 | 1,675 | 38.5 | 4,351 |
| Total | 50,163 | 64.3 | 27,797 | 35.7 | 77,960 |

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Random Blood Sugar

The mean Blood Sugar level (n= 760,655) of the population was 121.98 ± 52.4 . It was recoded in Normal (BSR<140) and High (BSR>140). BSR was high in 14% adults (14.6% males & 14.0% females) with a gradual rise with increasing age group (highest prevalence 24.5% in age group 55+).

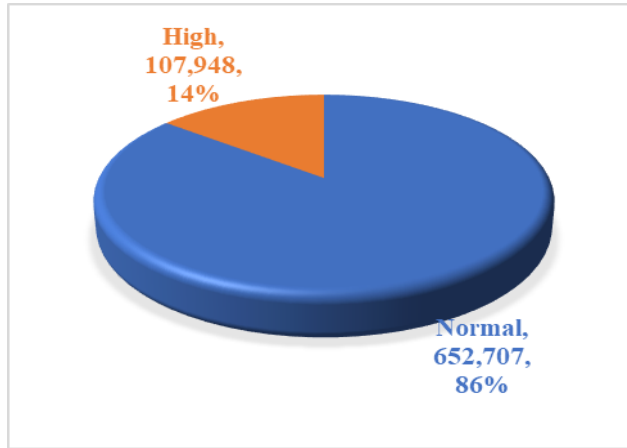


Figure 33: Blood Sugar Random (BSR) of the Adults Screened (n =760,655)

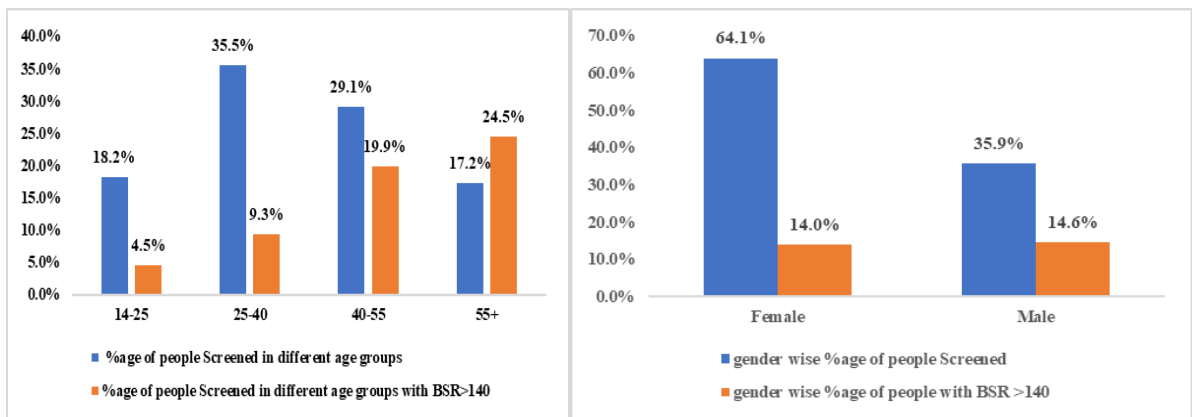


Figure 34: BSR > 140 mg/dl - Age and Gender wise Distribution in Adults - Punjab

Note: The percentage of people with BSR>140 is calculated against the percentage of people screened in each age & gender group.

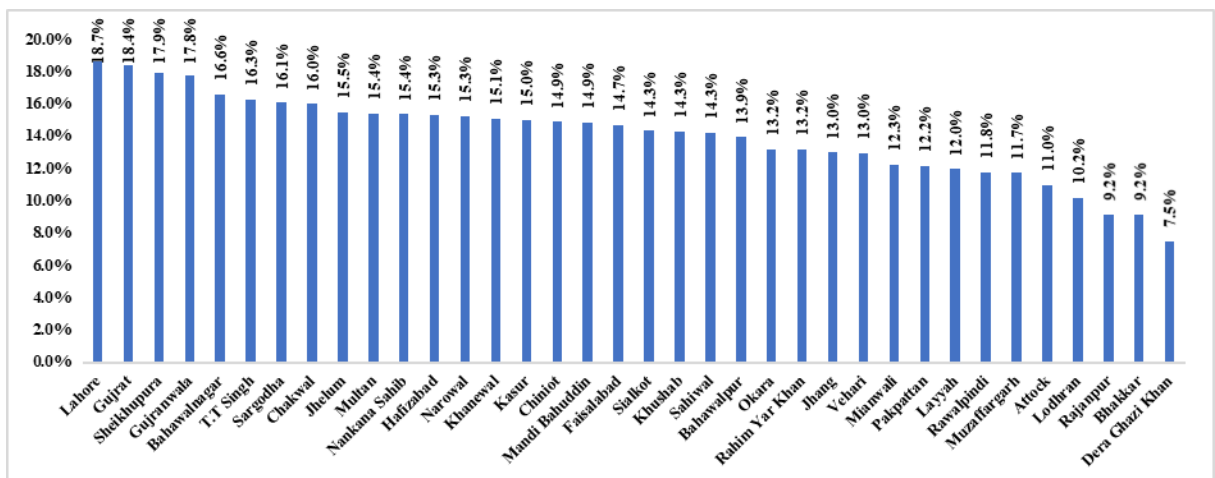


Figure 35: High BSR (>140mg/dl) - District wise Distribution in Adults

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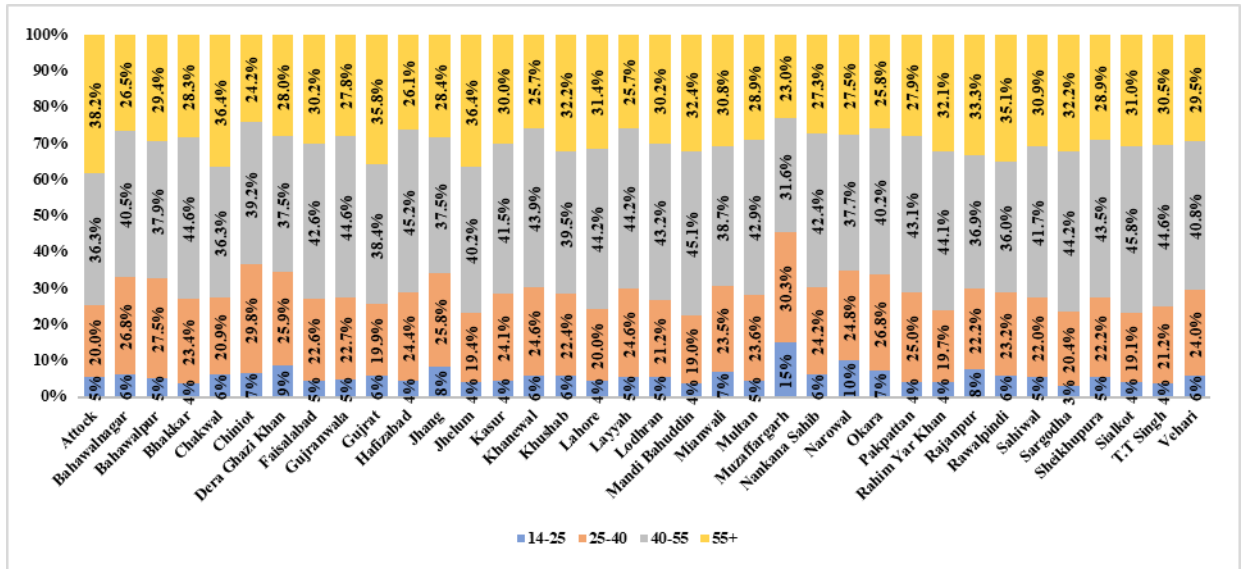


Figure 36: High BSR (>140mg/dl) - District wise Age Distribution in Adults

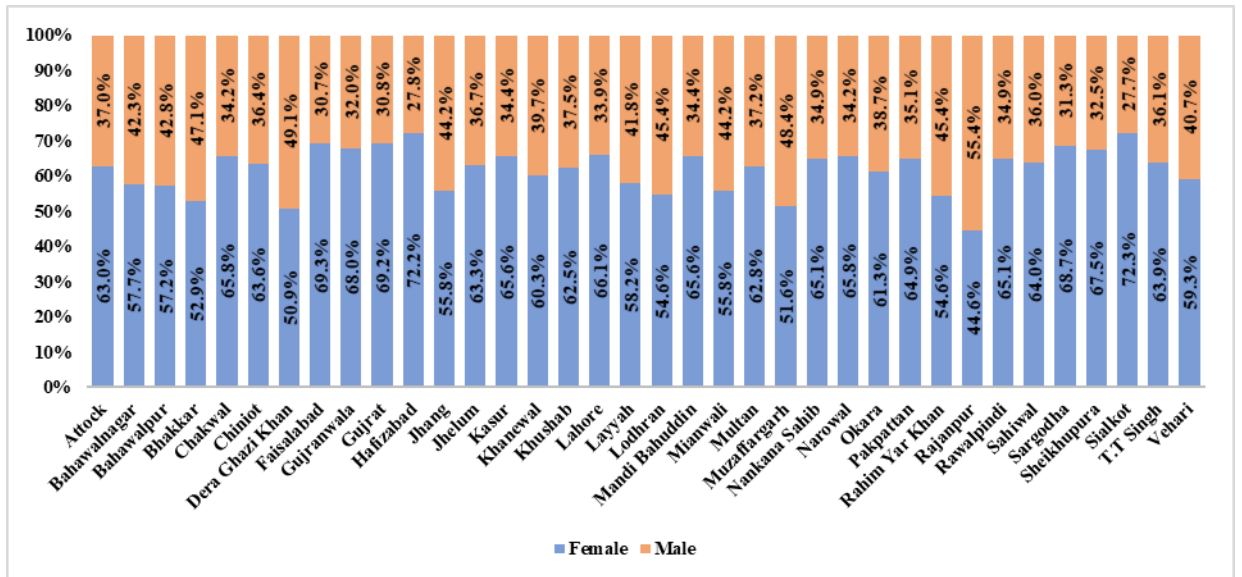


Figure 37: High BSR (>140mg/dl) - District wise Gender Distribution in Adults

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Table 22: High BSR (>140mg/dl) - District wise Distribution in Adults Punjab

| District | High BSR | | Total |
|-----------------|----------------|-------------|----------------|
| | Frequency | % | |
| Attock | 2,003 | 11.0 | 18,201 |
| Bahawalnagar | 3,886 | 16.6 | 23,392 |
| Bahawalpur | 3,153 | 13.9 | 22,620 |
| Bhakkar | 1,108 | 9.2 | 12,106 |
| Chakwal | 3,259 | 16.0 | 20,369 |
| Chiniot | 2,359 | 14.9 | 15,840 |
| Dera Ghazi Khan | 915 | 7.5 | 12,195 |
| Faisalabad | 7,544 | 14.7 | 51,319 |
| Gujranwala | 3,762 | 17.8 | 21,156 |
| Gujrat | 4,375 | 18.4 | 23,720 |
| Hafizabad | 1,289 | 15.3 | 8,403 |
| Jhang | 4,412 | 13.0 | 33,946 |
| Jhelum | 3,009 | 15.5 | 19,438 |
| Kasur | 2,739 | 15.0 | 18,242 |
| Khane wal | 2,508 | 15.1 | 16,606 |
| Khushab | 2,873 | 14.3 | 20,085 |
| Lahore | 2,242 | 18.7 | 12,006 |
| Layyah | 2,746 | 12.0 | 22,947 |
| Lodhran | 1,713 | 10.2 | 16,783 |
| Mandi Bahuddin | 2,591 | 14.9 | 17,414 |
| Mianwali | 2,396 | 12.3 | 19,518 |
| Multan | 3,595 | 15.4 | 23,292 |
| Muzaffargarh | 3,084 | 11.7 | 26,286 |
| Nankana Sahib | 2,288 | 15.4 | 14,880 |
| Narowal | 2,955 | 15.3 | 19,363 |
| Okara | 3,336 | 13.2 | 25,227 |
| Pakpattan | 1,740 | 12.2 | 14,298 |
| Rahim Yar Khan | 3,581 | 13.2 | 27,080 |
| Rajanpur | 962 | 9.2 | 10,504 |
| Rawalpindi | 3,555 | 11.8 | 30,202 |
| Sahiwal | 2,831 | 14.3 | 19,863 |
| Sargodha | 4,646 | 16.1 | 28,857 |
| Sheikhupura | 4,477 | 17.9 | 24,982 |
| Sialkot | 3,311 | 14.3 | 23,098 |
| T.T Singh | 3,353 | 16.3 | 20,557 |
| Vehari | 3,352 | 13.0 | 25,860 |
| Total | 107,948 | 14.2 | 760,655 |

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Table 23: High BSR (>140mg/dl) - District wise Age Distribution in Adults Punjab

| District | 14-25 | | 25-40 | | 40-55 | | 55+ | | Total High BSR |
|-----------------|--------------|------------|---------------|-------------|---------------|-------------|---------------|-------------|----------------|
| | Frequency | % | Frequency | % | Frequency | % | Frequency | % | |
| Attock | 110 | 5.0 | 400 | 20.0 | 728 | 36.3 | 765 | 38.2 | 2,003 |
| Bahawalnagar | 239 | 6.0 | 1,043 | 26.8 | 1,575 | 40.5 | 1,029 | 26.5 | 3,886 |
| Bahawalpur | 166 | 5.0 | 866 | 27.5 | 1,195 | 37.9 | 926 | 29.4 | 3,153 |
| Bhakkar | 41 | 4.0 | 259 | 23.4 | 494 | 44.6 | 314 | 28.3 | 1,108 |
| Chakwal | 208 | 6.0 | 682 | 20.9 | 1,184 | 36.3 | 1,185 | 36.4 | 3,259 |
| Chiniot | 159 | 7.0 | 704 | 29.8 | 924 | 39.2 | 572 | 24.2 | 2,359 |
| Dera Ghazi Khan | 79 | 9.0 | 237 | 25.9 | 343 | 37.5 | 256 | 28.0 | 915 |
| Faisalabad | 346 | 5.0 | 1,705 | 22.6 | 3,212 | 42.6 | 2,281 | 30.2 | 7,544 |
| Gujranwala | 184 | 5.0 | 853 | 22.7 | 1,678 | 44.6 | 1,047 | 27.8 | 3,762 |
| Gujrat | 260 | 6.0 | 870 | 19.9 | 1,678 | 38.4 | 1,567 | 35.8 | 4,375 |
| Hafizabad | 56 | 4.0 | 314 | 24.4 | 583 | 45.2 | 336 | 26.1 | 1,289 |
| Jhang | 365 | 8.0 | 1,139 | 25.8 | 1,653 | 37.5 | 1,255 | 28.4 | 4,412 |
| Jhelum | 120 | 4.0 | 583 | 19.4 | 1,210 | 40.2 | 1,096 | 36.4 | 3,009 |
| Kasur | 120 | 4.0 | 661 | 24.1 | 1,136 | 41.5 | 822 | 30.0 | 2,739 |
| Khanewal | 145 | 6.0 | 618 | 24.6 | 1,101 | 43.9 | 644 | 25.7 | 2,508 |
| Khushab | 171 | 6.0 | 644 | 22.4 | 1,134 | 39.5 | 924 | 32.2 | 2,873 |
| Lahore | 99 | 4.0 | 449 | 20.0 | 991 | 44.2 | 703 | 31.4 | 2,242 |
| Layyah | 149 | 5.0 | 675 | 24.6 | 1,215 | 44.2 | 707 | 25.7 | 2,746 |
| Lodhran | 92 | 5.0 | 364 | 21.2 | 740 | 43.2 | 517 | 30.2 | 1,713 |
| Mandi Bahuddin | 93 | 4.0 | 491 | 19.0 | 1,168 | 45.1 | 839 | 32.4 | 2,591 |
| Mianwali | 170 | 7.0 | 562 | 23.5 | 927 | 38.7 | 737 | 30.8 | 2,396 |
| Multan | 165 | 5.0 | 849 | 23.6 | 1,543 | 42.9 | 1,038 | 28.9 | 3,595 |
| Muzaffargarh | 464 | 15.0 | 934 | 30.3 | 976 | 31.6 | 710 | 23.0 | 3,084 |
| Nankana Sahib | 141 | 6.0 | 553 | 24.2 | 969 | 42.4 | 625 | 27.3 | 2,288 |
| Narowal | 295 | 10.0 | 733 | 24.8 | 1,114 | 37.7 | 813 | 27.5 | 2,955 |
| Okara | 240 | 7.0 | 894 | 26.8 | 1,340 | 40.2 | 862 | 25.8 | 3,336 |
| Pakpattan | 69 | 4.0 | 435 | 25.0 | 750 | 43.1 | 486 | 27.9 | 1,740 |
| Rahim Yar Khan | 147 | 4.0 | 704 | 19.7 | 1,579 | 44.1 | 1,151 | 32.1 | 3,581 |
| Rajapur | 73 | 8.0 | 214 | 22.2 | 355 | 36.9 | 320 | 33.3 | 962 |
| Rawalpindi | 203 | 6.0 | 826 | 23.2 | 1,279 | 36.0 | 1,247 | 35.1 | 3,555 |
| Sahiwal | 153 | 5.0 | 623 | 22.0 | 1,180 | 41.7 | 875 | 30.9 | 2,831 |
| Sargodha | 148 | 3.0 | 950 | 20.4 | 2,053 | 44.2 | 1,495 | 32.2 | 4,646 |
| Sheikhupura | 243 | 5.0 | 992 | 22.2 | 1,948 | 43.5 | 1,294 | 28.9 | 4,477 |
| Sialkot | 137 | 4.0 | 634 | 19.1 | 1,515 | 45.8 | 1,025 | 31.0 | 3,311 |
| T.T Singh | 124 | 4.0 | 712 | 21.2 | 1,495 | 44.6 | 1,022 | 30.5 | 3,353 |
| Vehari | 193 | 6.0 | 804 | 24.0 | 1,366 | 40.8 | 989 | 29.5 | 3,352 |
| Total | 6,167 | 6.0 | 24,976 | 23.1 | 44,331 | 41.1 | 32,474 | 30.1 | 107,948 |

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Table 24: High BSR (>140mg/dl) - District wise Gender Distribution in Adults Punjab

| District | Female | | Male | | Total High BSR |
|-----------------|---------------|-------------|---------------|-------------|----------------|
| | Frequency | % | Frequency | % | |
| Attock | 1,261 | 63.0 | 742 | 37.0 | 2,003 |
| Bahawalnagar | 2,243 | 57.7 | 1,643 | 42.3 | 3,886 |
| Bahawalpur | 1,805 | 57.2 | 1,348 | 42.8 | 3,153 |
| Bhakkar | 586 | 52.9 | 522 | 47.1 | 1,108 |
| Chakwal | 2,146 | 65.8 | 1,113 | 34.2 | 3,259 |
| Chiniot | 1,500 | 63.6 | 859 | 36.4 | 2,359 |
| Dera Ghazi Khan | 466 | 50.9 | 449 | 49.1 | 915 |
| Faisalabad | 5,229 | 69.3 | 2,315 | 30.7 | 7,544 |
| Gujranwala | 2,559 | 68.0 | 1,203 | 32.0 | 3,762 |
| Gujrat | 3,029 | 69.2 | 1,346 | 30.8 | 4,375 |
| Hafizabad | 931 | 72.2 | 358 | 27.8 | 1,289 |
| Jhang | 2,462 | 55.8 | 1,950 | 44.2 | 4,412 |
| Jhelum | 1,905 | 63.3 | 1,104 | 36.7 | 3,009 |
| Kasur | 1,796 | 65.6 | 943 | 34.4 | 2,739 |
| Khane wal | 1,513 | 60.3 | 995 | 39.7 | 2,508 |
| Khushab | 1,795 | 62.5 | 1,078 | 37.5 | 2,873 |
| Lahore | 1,481 | 66.1 | 761 | 33.9 | 2,242 |
| Layyah | 1,598 | 58.2 | 1,148 | 41.8 | 2,746 |
| Lodhran | 936 | 54.6 | 777 | 45.4 | 1,713 |
| Mandi Bahuddin | 1,699 | 65.6 | 892 | 34.4 | 2,591 |
| Mianwali | 1,336 | 55.8 | 1,060 | 44.2 | 2,396 |
| Multan | 2,259 | 62.8 | 1,336 | 37.2 | 3,595 |
| Muzaffargarh | 1,590 | 51.6 | 1,494 | 48.4 | 3,084 |
| Nankana Sahib | 1,490 | 65.1 | 798 | 34.9 | 2,288 |
| Narowal | 1,943 | 65.8 | 1,012 | 34.2 | 2,955 |
| Okara | 2,044 | 61.3 | 1,292 | 38.7 | 3,336 |
| Pakpattan | 1,130 | 64.9 | 610 | 35.1 | 1,740 |
| Rahim Yar Khan | 1,955 | 54.6 | 1,626 | 45.4 | 3,581 |
| Rajanpur | 429 | 44.6 | 533 | 55.4 | 962 |
| Rawalpindi | 2,314 | 65.1 | 1,241 | 34.9 | 3,555 |
| Sahiwal | 1,812 | 64.0 | 1,019 | 36.0 | 2,831 |
| Sargodha | 3,194 | 68.7 | 1,452 | 31.3 | 4,646 |
| Sheikhupura | 3,020 | 67.5 | 1,457 | 32.5 | 4,477 |
| Sialkot | 2,394 | 72.3 | 917 | 27.7 | 3,311 |
| T.T Singh | 2,143 | 63.9 | 1,210 | 36.1 | 3,353 |
| Vehari | 1,987 | 59.3 | 1,365 | 40.7 | 3,352 |
| Total | 67,980 | 63.0 | 39,968 | 37.0 | 107,948 |

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Blood Pressure

The mean systolic BP (n= 799,547) was 120.13+16.19 and the mean Diastolic BP was 77.81+10.31. This was recoded into normal (139/89) and high (140/90). Of the population, 22% (22.1% in males and 21.2% females) were hypertensive (n= 172,103) with either high Systolic / Diastolic P.B or both with a gradual rising prevalence with rising age group, highest (39.4%) in age group 55 +.

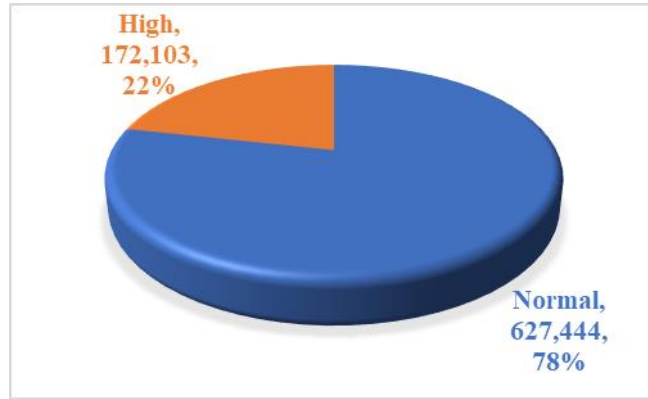


Figure 38: Blood Pressure of Adults Screened (n = 799,547)

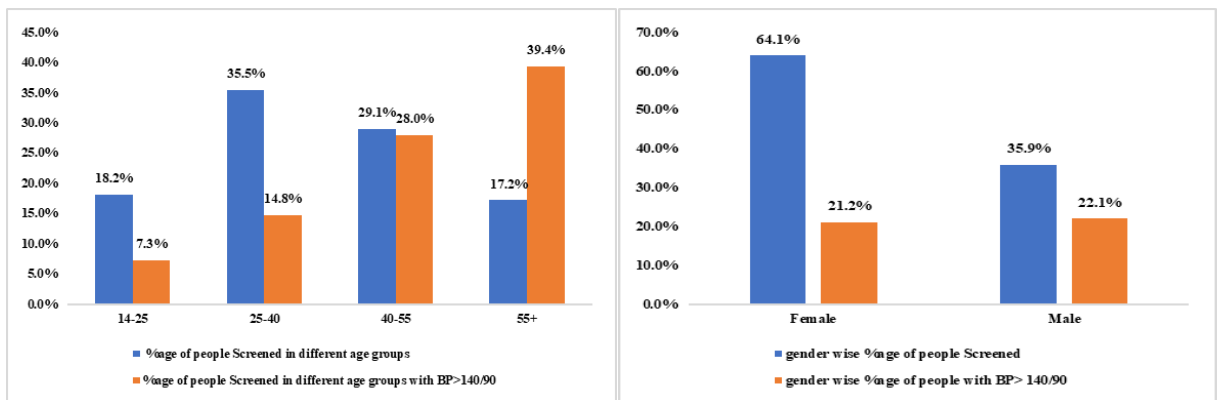


Figure 39: BP >140/90mmHg - Age & Gender wise Distribution in Adults – Punjab

Note: The percentage of person with BP>140/90 is calculated against the percentage of people screened in each age & gender group.

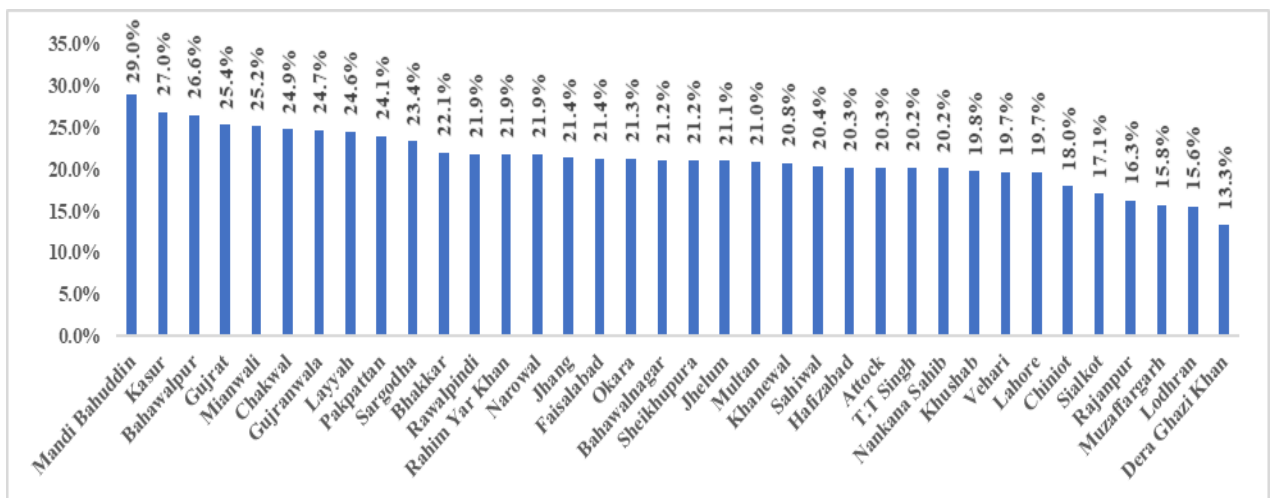


Figure 40: High BP (>140/90mmHg) - District wise Distribution in Adults

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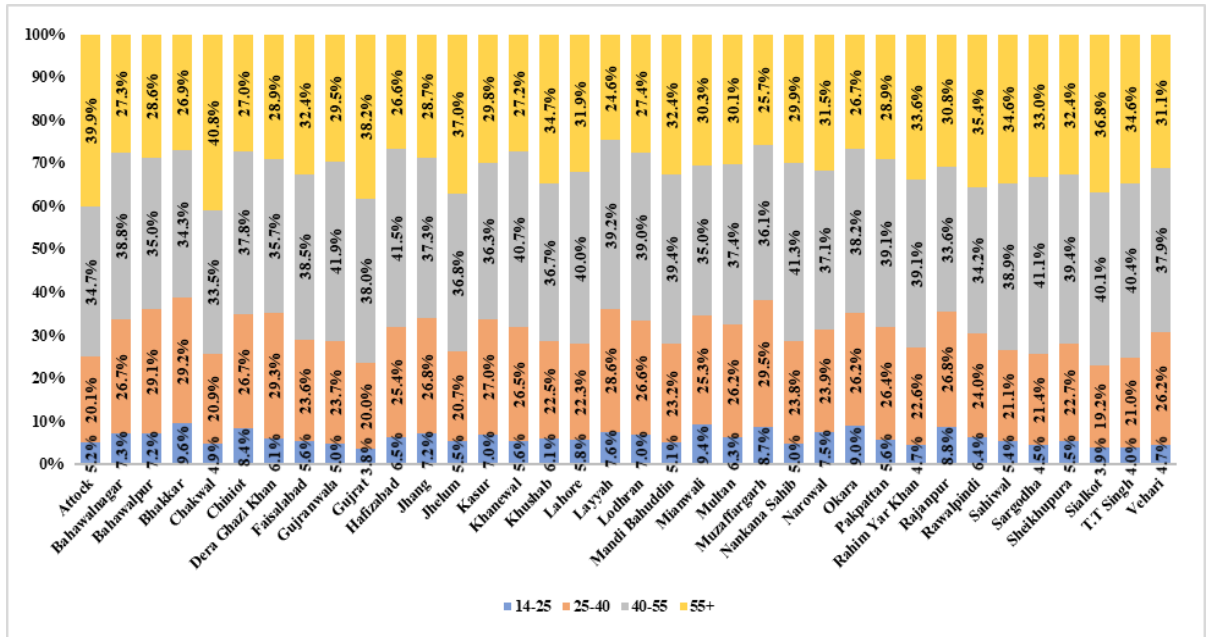


Figure 41: High BP (>140/90mmHg) - District wise Age Distribution in Adults (n = 18,178)

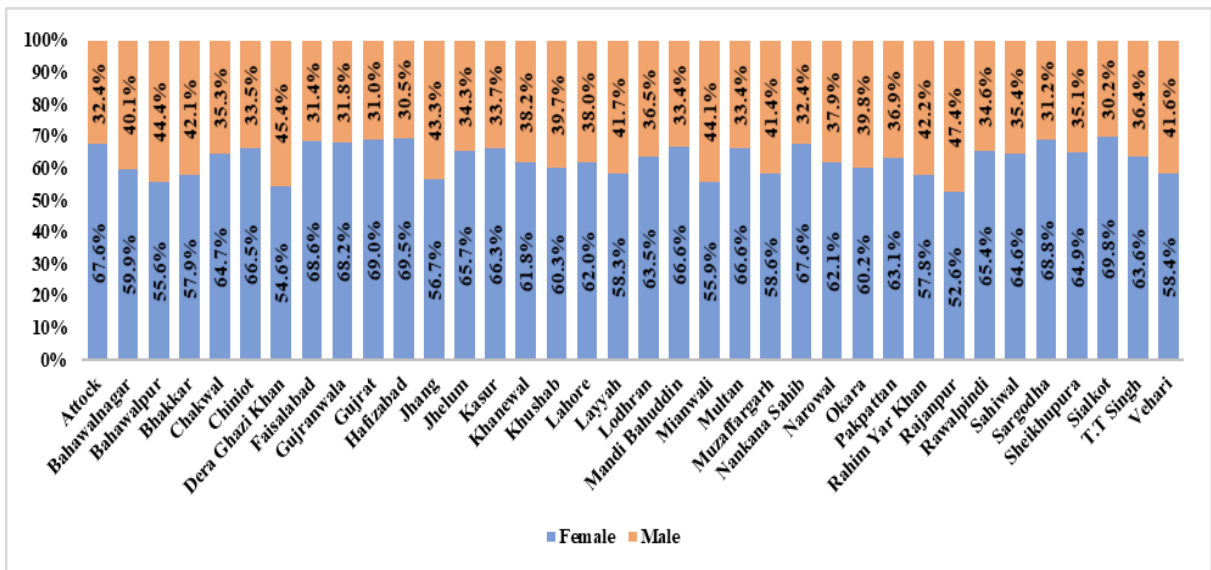


Figure 42: High BP (>140/90mmHg) - District wise Gender Distribution in Adults (n = 18,178)

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Table 25: High BP (>140/90mmHg) - District wise Distribution in Adults Punjab

| District | High Blood Pressure | | Total |
|-----------------|---------------------|-------------|----------------|
| | Frequency | % | |
| Attock | 4,136 | 20.3 | 20,362 |
| Bahawalnagar | 5,466 | 21.2 | 25,780 |
| Bahawalpur | 6,170 | 26.6 | 23,190 |
| Bhakkar | 2,784 | 22.1 | 12,610 |
| Chakwal | 5,337 | 24.9 | 21,457 |
| Chiniot | 2,940 | 18.0 | 16,351 |
| Dera Ghazi Khan | 1,709 | 13.3 | 12,813 |
| Faisalabad | 11,332 | 21.4 | 53,005 |
| Gujranwala | 5,588 | 24.7 | 22,589 |
| Gujrat | 6,085 | 25.4 | 23,973 |
| Hafizabad | 1,949 | 20.3 | 9,594 |
| Jhang | 7,577 | 21.4 | 35,374 |
| Jhelum | 4,275 | 21.1 | 20,296 |
| Kasur | 5,349 | 27.0 | 19,835 |
| Khane wal | 3,582 | 20.8 | 17,215 |
| Khus hab | 4,306 | 19.8 | 21,763 |
| Lahore | 2,561 | 19.7 | 13,002 |
| Layyah | 5,891 | 24.6 | 23,930 |
| Lodhran | 2,687 | 15.6 | 17,225 |
| Mandi Bahuddin | 5,376 | 29.0 | 18,534 |
| Mianwali | 5,112 | 25.2 | 20,283 |
| Multan | 5,067 | 21.0 | 24,129 |
| Muzaffargarh | 4,401 | 15.8 | 27,873 |
| Nankana Sahib | 3,150 | 20.2 | 15,585 |
| Narowal | 4,602 | 21.9 | 21,060 |
| Okara | 5,713 | 21.3 | 26,802 |
| Pakpattan | 3,523 | 24.1 | 14,647 |
| Rahim Yar Khan | 6,004 | 21.9 | 27,451 |
| Rajanpur | 1,945 | 16.3 | 11,900 |
| Rawalpindi | 6,981 | 21.9 | 31,822 |
| Sahiwal | 4,256 | 20.4 | 20,862 |
| Sargodha | 6,967 | 23.4 | 29,762 |
| She ikhupura | 5,592 | 21.2 | 26,405 |
| Sialkot | 4,055 | 17.1 | 23,738 |
| T.T Singh | 4,218 | 20.2 | 20,861 |
| Vehari | 5,417 | 19.7 | 27,469 |
| Total | 172,103 | 21.5 | 799,547 |

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Table 26: High BP (>140/90mmHg) - District wise Age Distribution in Adults Punjab

| District | 14-25 | | 25-40 | | 40-55 | | 55+ | | Total High BP |
|-----------------|---------------|------------|---------------|-------------|---------------|-------------|---------------|-------------|----------------|
| | Frequency | % | Frequency | % | Frequency | % | Frequency | % | |
| Attock | 214 | 5.2 | 833 | 20.1 | 1,437 | 34.7 | 1,652 | 39.9 | 4,136 |
| Bahawalnagar | 398 | 7.3 | 1,457 | 26.7 | 2,119 | 38.8 | 1,492 | 27.3 | 5,466 |
| Bahawalpur | 445 | 7.2 | 1,797 | 29.1 | 2,162 | 35.0 | 1,766 | 28.6 | 6,170 |
| Bhakkar | 266 | 9.6 | 814 | 29.2 | 956 | 34.3 | 748 | 26.9 | 2,784 |
| Chakwal | 261 | 4.9 | 1,115 | 20.9 | 1,786 | 33.5 | 2,175 | 40.8 | 5,337 |
| Chiniot | 248 | 8.4 | 785 | 26.7 | 1,112 | 37.8 | 795 | 27.0 | 2,940 |
| Dera Ghazi Khan | 104 | 6.1 | 501 | 29.3 | 610 | 35.7 | 494 | 28.9 | 1,709 |
| Faisalabad | 631 | 5.6 | 2,672 | 23.6 | 4,360 | 38.5 | 3,669 | 32.4 | 11,332 |
| Gujranwala | 278 | 5.0 | 1,323 | 23.7 | 2,341 | 41.9 | 1,646 | 29.5 | 5,588 |
| Gujrat | 233 | 3.8 | 1,214 | 20.0 | 2,315 | 38.0 | 2,323 | 38.2 | 6,085 |
| Hafizabad | 127 | 6.5 | 495 | 25.4 | 808 | 41.5 | 519 | 26.6 | 1,949 |
| Jhang | 542 | 7.2 | 2,033 | 26.8 | 2,828 | 37.3 | 2,174 | 28.7 | 7,577 |
| Jhelum | 234 | 5.5 | 887 | 20.7 | 1,572 | 36.8 | 1,582 | 37.0 | 4,275 |
| Kasur | 373 | 7.0 | 1,443 | 27.0 | 1,941 | 36.3 | 1,592 | 29.8 | 5,349 |
| Khane wal | 202 | 5.6 | 948 | 26.5 | 1,457 | 40.7 | 975 | 27.2 | 3,582 |
| Khushab | 263 | 6.1 | 969 | 22.5 | 1,579 | 36.7 | 1,495 | 34.7 | 4,306 |
| Lahore | 149 | 5.8 | 570 | 22.3 | 1,024 | 40.0 | 818 | 31.9 | 2,561 |
| Layyah | 445 | 7.6 | 1,686 | 28.6 | 2,312 | 39.2 | 1,448 | 24.6 | 5,891 |
| Lodhran | 188 | 7.0 | 715 | 26.6 | 1,048 | 39.0 | 736 | 27.4 | 2,687 |
| Mandi Bahuddin | 273 | 5.1 | 1,247 | 23.2 | 2,116 | 39.4 | 1,740 | 32.4 | 5,376 |
| Mianwali | 479 | 9.4 | 1,293 | 25.3 | 1,791 | 35.0 | 1,549 | 30.3 | 5,112 |
| Multan | 320 | 6.3 | 1,327 | 26.2 | 1,897 | 37.4 | 1,523 | 30.1 | 5,067 |
| Muzaffargarh | 383 | 8.7 | 1,299 | 29.5 | 1,589 | 36.1 | 1,130 | 25.7 | 4,401 |
| Nankana Sahib | 158 | 5.0 | 751 | 23.8 | 1,300 | 41.3 | 941 | 29.9 | 3,150 |
| Narowal | 347 | 7.5 | 1,099 | 23.9 | 1,706 | 37.1 | 1,450 | 31.5 | 4,602 |
| Okara | 514 | 9.0 | 1,495 | 26.2 | 2,181 | 38.2 | 1,523 | 26.7 | 5,713 |
| Pakpattan | 199 | 5.6 | 929 | 26.4 | 1,378 | 39.1 | 1,017 | 28.9 | 3,523 |
| Rahim Yar Khan | 280 | 4.7 | 1,357 | 22.6 | 2,350 | 39.1 | 2,017 | 33.6 | 6,004 |
| Rajanpur | 172 | 8.8 | 521 | 26.8 | 653 | 33.6 | 599 | 30.8 | 1,945 |
| Rawalpindi | 448 | 6.4 | 1,676 | 24.0 | 2,388 | 34.2 | 2,469 | 35.4 | 6,981 |
| Sahiwal | 231 | 5.4 | 900 | 21.1 | 1,654 | 38.9 | 1,471 | 34.6 | 4,256 |
| Sargodha | 314 | 4.5 | 1,488 | 21.4 | 2,865 | 41.1 | 2,300 | 33.0 | 6,967 |
| Sheikhupura | 306 | 5.5 | 1,269 | 22.7 | 2,203 | 39.4 | 1,814 | 32.4 | 5,592 |
| Sialkot | 159 | 3.9 | 779 | 19.2 | 1,625 | 40.1 | 1,492 | 36.8 | 4,055 |
| T.T Singh | 170 | 4.0 | 884 | 21.0 | 1,705 | 40.4 | 1,459 | 34.6 | 4,218 |
| Vehari | 257 | 4.7 | 1,420 | 26.2 | 2,054 | 37.9 | 1,686 | 31.1 | 5,417 |
| Total | 10,611 | 6.2 | 41,991 | 24.4 | 65,222 | 37.9 | 54,279 | 31.5 | 172,103 |

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Table 27: High BP (>140/90mmHg) - District wise Gender Distribution in Adults Punjab

| District | Female | | Male | | Total High BP |
|-----------------|----------------|-------------|---------------|-------------|----------------|
| | Frequency | % | Frequency | % | |
| Attock | 2,795 | 67.6 | 1,341 | 32.4 | 4,136 |
| Bahawalnagar | 3,275 | 59.9 | 2,191 | 40.1 | 5,466 |
| Bahawalpur | 3,428 | 55.6 | 2,742 | 44.4 | 6,170 |
| Bhakkar | 1,612 | 57.9 | 1,172 | 42.1 | 2,784 |
| Chakwal | 3,453 | 64.7 | 1,884 | 35.3 | 5,337 |
| Chiniot | 1,956 | 66.5 | 984 | 33.5 | 2,940 |
| Dera Ghazi Khan | 933 | 54.6 | 776 | 45.4 | 1,709 |
| Faisalabad | 7,771 | 68.6 | 3,561 | 31.4 | 11,332 |
| Gujranwala | 3,812 | 68.2 | 1,776 | 31.8 | 5,588 |
| Gujrat | 4,196 | 69.0 | 1,889 | 31.0 | 6,085 |
| Hafizabad | 1,355 | 69.5 | 594 | 30.5 | 1,949 |
| Jhang | 4,293 | 56.7 | 3,284 | 43.3 | 7,577 |
| Jhelum | 2,807 | 65.7 | 1,468 | 34.3 | 4,275 |
| Kasur | 3,547 | 66.3 | 1,802 | 33.7 | 5,349 |
| Khane wal | 2,215 | 61.8 | 1,367 | 38.2 | 3,582 |
| Khus hab | 2,598 | 60.3 | 1,708 | 39.7 | 4,306 |
| Lahore | 1,587 | 62.0 | 974 | 38.0 | 2,561 |
| Layyah | 3,432 | 58.3 | 2,459 | 41.7 | 5,891 |
| Lodhran | 1,707 | 63.5 | 980 | 36.5 | 2,687 |
| Mandi Bahuddin | 3,579 | 66.6 | 1,797 | 33.4 | 5,376 |
| Mianwali | 2,860 | 55.9 | 2,252 | 44.1 | 5,112 |
| Multan | 3,373 | 66.6 | 1,694 | 33.4 | 5,067 |
| Muzaffargarh | 2,579 | 58.6 | 1,822 | 41.4 | 4,401 |
| Nankana Sahib | 2,129 | 67.6 | 1,021 | 32.4 | 3,150 |
| Narowal | 2,856 | 62.1 | 1,746 | 37.9 | 4,602 |
| Okara | 3,440 | 60.2 | 2,273 | 39.8 | 5,713 |
| Pakpattan | 2,223 | 63.1 | 1,300 | 36.9 | 3,523 |
| Rahim Yar Khan | 3,472 | 57.8 | 2,532 | 42.2 | 6,004 |
| Rajanpur | 1,023 | 52.6 | 922 | 47.4 | 1,945 |
| Rawalpindi | 4,566 | 65.4 | 2,415 | 34.6 | 6,981 |
| Sahiwal | 2,749 | 64.6 | 1,507 | 35.4 | 4,256 |
| Sargodha | 4,794 | 68.8 | 2,173 | 31.2 | 6,967 |
| Sheikhupura | 3,632 | 64.9 | 1,960 | 35.1 | 5,592 |
| Sialkot | 2,829 | 69.8 | 1,226 | 30.2 | 4,055 |
| T.T Singh | 2,683 | 63.6 | 1,535 | 36.4 | 4,218 |
| Vehari | 3,163 | 58.4 | 2,254 | 41.6 | 5,417 |
| Total | 108,722 | 63.2 | 63,381 | 36.8 | 172,103 |

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Table 28: Age wise breakup of Nutritional Status-Punjab

| Age | Percentage | BMI <18.5 | BMI > 25 | W/H > 0.9 | Hb < 12 |
|---------------------|-------------|--------------|---------------|---------------|---------------|
| 14-25 | 18.20% | 19.40% | 27.20% | 66.10% | 40.90% |
| 25-40 | 35.50% | 7.20% | 51.20% | 72.70% | 42.20% |
| 40-55 | 29.10% | 5.90% | 58.70% | 76.70% | 41.00% |
| 55+ | 17.20% | 9.60% | 48.20% | 75.90% | 41.40% |
| Punjab Total | 100% | 9.50% | 48.50% | 73.20% | 41.50% |

Table 29: Gender wise break up of Nutritional Status - Punjab

| Gender | Percentage | BMI <18.5 | BMI > 25 | W/H > 0.9 | Hb < 12 |
|---------------------|------------|--------------|---------------|---------------|---------------|
| Female | 64.1 | 9.10% | 51.60% | 72.10% | 52.10% |
| Male | 35.9 | 10.10% | 43.00% | 75.10% | 22.70% |
| Punjab Total | 100 | 9.50% | 48.50% | 73.20% | 41.50% |

Table 30: Age wise breakup of Non-Communicable Disease Screening

| Age | % age | BSR>140 | BP>140/90 | PEFR Deranged |
|---------------------|-------------|---------------|---------------|---------------|
| 14-25 | 18.20% | 4.50% | 7.30% | 13.90% |
| 25-40 | 35.50% | 9.30% | 14.80% | 30.80% |
| 40-55 | 29.10% | 19.90% | 28.00% | 31.60% |
| 55+ | 17.20% | 24.50% | 39.40% | 23.70% |
| Punjab Total | 100% | 14.20% | 21.50% | 10.60% |

Table 31: Gender wise breakup of Non-Communicable Disease Screening

| Gender | % age | BSR >140 | BP >140/90 | PEFR Deranged |
|---------------------|-------------|---------------|---------------|---------------|
| Male | 64.1 | 14.00% | 21.20% | 10.60% |
| Female | 35.9 | 14.60% | 22.10% | 10.50% |
| Punjab Total | 100% | 14.20% | 21.50% | 10.60% |

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Table 32: District Wise Burden of NCDs Punjab

| District | High BSR | Hypertension | BMI > Normal | Anemia | PEFR Deranged |
|---------------|---------------|---------------|---------------|---------------|---------------|
| Attock | 11.00% | 20.30% | 45.10% | 41.60% | 2.00% |
| Bahawalnagar | 16.60% | 21.20% | 38.30% | 54.40% | 4.50% |
| Bahawalpur | 13.90% | 26.60% | 45.40% | 46.00% | 7.80% |
| Bhakkar | 9.20% | 22.10% | 40.90% | 41.10% | 28.90% |
| Chakwal | 16.00% | 24.90% | 51.10% | 41.30% | 20.20% |
| Chiniot | 14.90% | 18.00% | 50.50% | 35.20% | 10.90% |
| D G Khan | 7.50% | 13.30% | 34.50% | 38.60% | 3.50% |
| Faisalabad | 14.70% | 21.40% | 55.80% | 43.20% | 5.40% |
| Gujranwala | 17.80% | 24.70% | 57.30% | 44.00% | 3.00% |
| Gujrat | 18.40% | 25.40% | 61.60% | 39.50% | 6.80% |
| Hafizabad | 15.30% | 20.30% | 53.60% | 32.90% | 28.10% |
| Jhang | 13.00% | 21.40% | 44.50% | 34.00% | 5.20% |
| Jhelum | 15.50% | 21.10% | 53.70% | 37.80% | 12.10% |
| Kasur | 15.00% | 27.00% | 50.90% | 47.70% | 17.60% |
| Khane wal | 15.10% | 20.80% | 49.00% | 50.80% | 16.30% |
| Khushab | 14.30% | 19.80% | 40.50% | 45.60% | 13.10% |
| Lahore | 18.70% | 19.70% | 56.70% | 35.00% | 10.40% |
| Layyah | 12.00% | 24.60% | 39.90% | 38.10% | 7.50% |
| Lodhran | 10.20% | 15.60% | 40.50% | 44.10% | 13.60% |
| Mandi B.Din | 14.90% | 29.00% | 56.20% | 47.30% | 4.80% |
| Mianwali | 12.30% | 25.20% | 43.00% | 42.90% | 17.30% |
| Multan | 15.40% | 21.00% | 47.00% | 36.20% | 17.00% |
| Muzaffargarh | 11.70% | 15.80% | 35.70% | 47.90% | 3.60% |
| Nankana Sahib | 15.40% | 20.20% | 56.20% | 35.20% | 1.70% |
| Narowal | 15.30% | 21.90% | 57.10% | 41.20% | 5.30% |
| Okara | 13.20% | 21.30% | 44.50% | 35.60% | 7.50% |
| Pakpattan | 12.20% | 24.10% | 43.60% | 35.10% | 18.60% |
| R Y Khan | 13.20% | 21.90% | 42.00% | 36.30% | 8.20% |
| Rajanpur | 9.20% | 16.30% | 38.80% | 52.10% | 5.40% |
| Rawalpindi | 11.80% | 21.90% | 49.70% | 36.60% | 11.90% |
| Sahiwal | 14.30% | 20.40% | 48.90% | 42.60% | 11.20% |
| Sargodha | 16.10% | 23.40% | 52.90% | 39.00% | 18.70% |
| Sheikhupura | 17.90% | 21.20% | 57.00% | 44.50% | 11.70% |
| Sialkot | 14.30% | 17.10% | 54.80% | 40.20% | 21.10% |
| T.T Singh | 16.30% | 20.20% | 52.00% | 43.20% | 5.00% |
| Vehari | 13.00% | 19.70% | 46.20% | 48.40% | 17.10% |
| Total | 14.20% | 21.50% | 48.50% | 41.50% | 10.60% |

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Screening for Blood Borne Diseases - Punjab

Serological findings revealed that 1.58% (n= 760,655) people were found reactive for HBsAg antigen. 14.8% (n=760,655) were reactive for Anti HCV, 0.07% (n=760,655) were screened positive for Malaria, 2.1% (n=760,655) were suspected for TB.

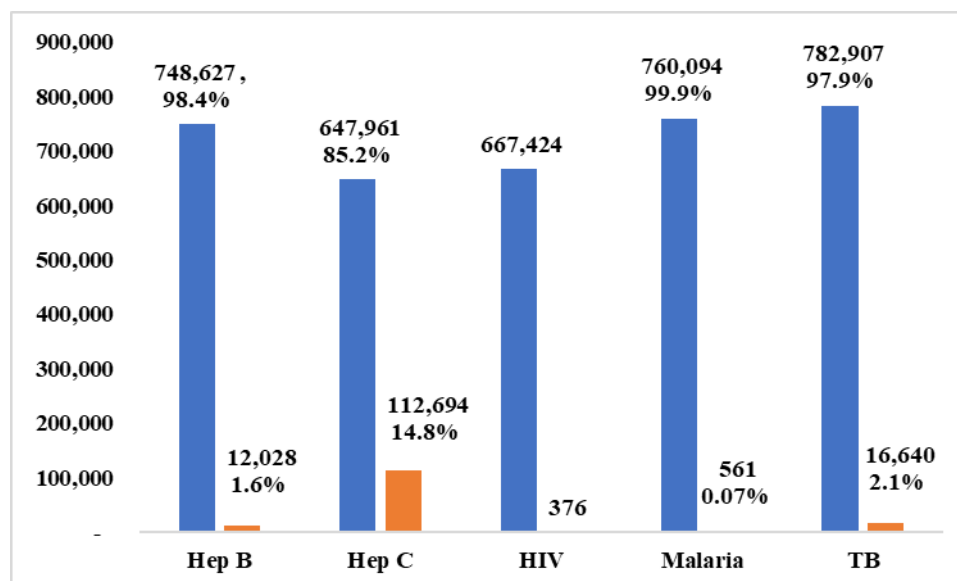


Figure 43: Percentage of Hepatitis B, C, Malaria, and TB Suspects in Adults Screened - Punjab

Table 33: Age wise Distribution of Blood Borne Diseases – Punjab

| Age | % age | Hep. B Suspects | Hep. C Suspects | HIV Suspects | Malaria Suspects | TB Suspects |
|---------------------|-------------|-----------------|-----------------|--------------|------------------|-------------|
| 14-25 | 18.2 | 1.8% | 5.2% | 0.0% | 0.1% | 1.6% |
| 25-40 | 35.5 | 1.8% | 14.0% | 0.1% | 0.1% | 1.7% |
| 40-55 | 29.1 | 1.4% | 19.6% | 0.1% | 0.1% | 2.2% |
| 55+ | 17.2 | 1.1% | 18.2% | 0.1% | 0.1% | 3.3% |
| Punjab Total | 100% | 1.6% | 14.8% | 0.1% | 0.1% | 2.1% |

Table 34: Gender wise Distribution of Blood Borne Diseases – Punjab

| Gender | % age | Hepatitis B Suspects | Hepatitis C Suspects | HIV Suspects | Malaria Suspects | TB Suspects |
|---------------------|-------------|----------------------|----------------------|--------------|------------------|--------------|
| Male | 64.1 | 1.10% | 14.80% | 0.05% | 0.07% | 1.70% |
| Female | 35.9 | 2.50% | 14.90% | 0.07% | 0.08% | 2.70% |
| Punjab Total | 100% | 1.60% | 14.80% | 0.06% | 0.07% | 2.10% |

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Hepatitis B Suspects - Districts

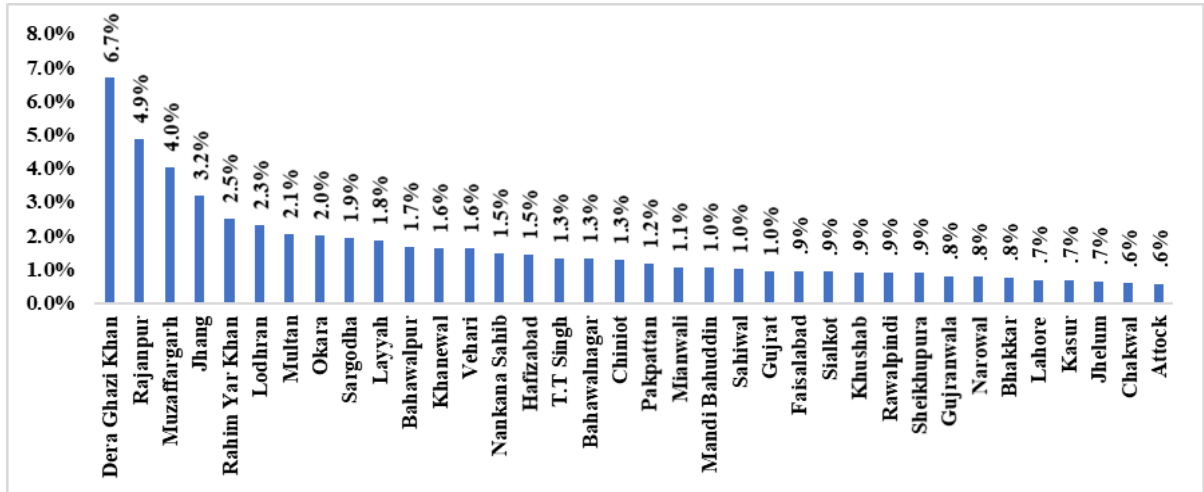


Figure 44: Hepatitis B Suspects - District wise Distribution in Adults

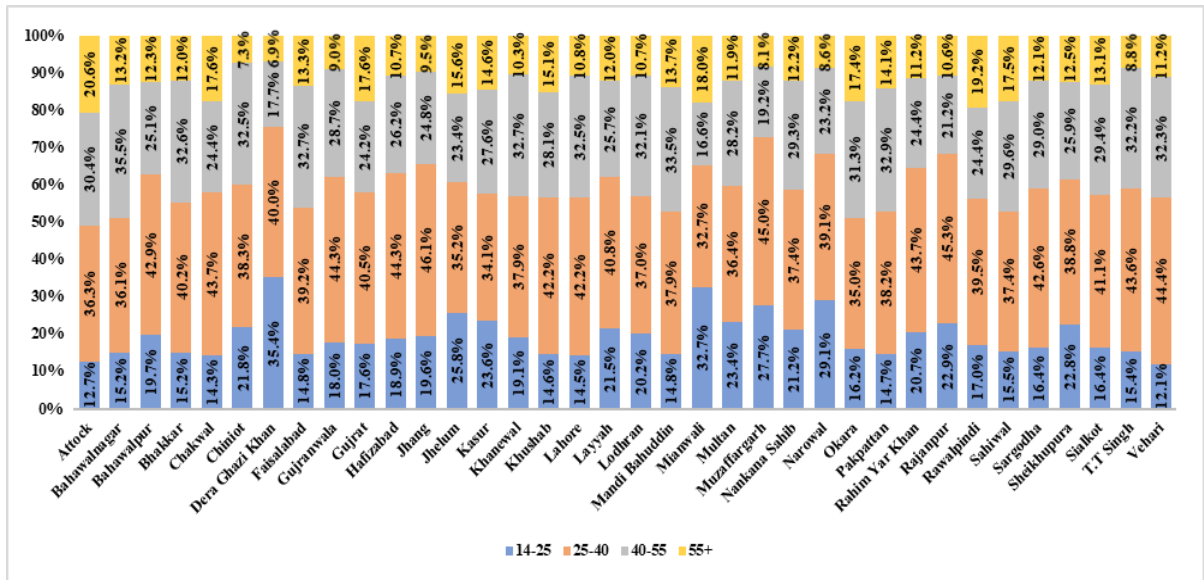


Figure 45: Hepatitis B Suspects - District wise Age Distribution in Adults

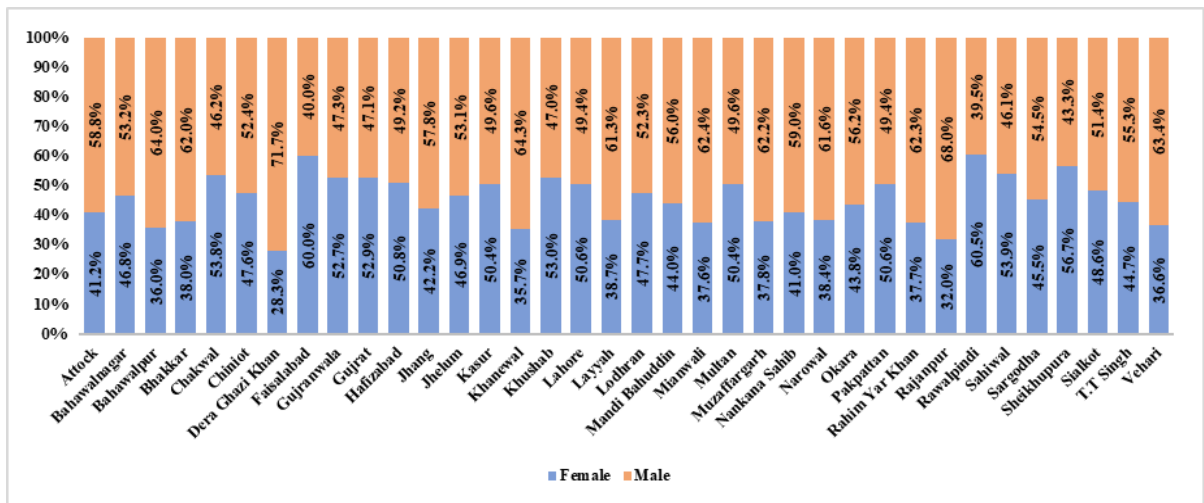


Figure 46: Hepatitis B Suspects - District wise Gender Distribution in Adults

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Table 35: Hepatitis B Suspects - District wise Distribution in Adults Punjab

| District | Reactive | | Total |
|-----------------|---------------|------------|----------------|
| | Frequency | % | |
| Attock | 102 | 0.6 | 18,201 |
| Bahawalnagar | 310 | 1.3 | 23,392 |
| Bahawalpur | 375 | 1.7 | 22,620 |
| Bhakkar | 92 | 0.8 | 12,106 |
| Chakwal | 119 | 0.6 | 20,369 |
| Chiniot | 206 | 1.3 | 15,840 |
| Dera Ghazi Khan | 817 | 6.7 | 12,195 |
| Faisalabad | 480 | 0.9 | 51,319 |
| Gujranwala | 167 | 0.8 | 21,156 |
| Gujrat | 227 | 1.0 | 23,720 |
| Hafizabad | 122 | 1.5 | 8,403 |
| Jhang | 1,079 | 3.2 | 33,946 |
| Jhelum | 128 | 0.7 | 19,438 |
| Kasur | 123 | 0.7 | 18,242 |
| Khane wal | 272 | 1.6 | 16,606 |
| Khushab | 185 | 0.9 | 20,085 |
| Lahore | 83 | 0.7 | 12,006 |
| Layyah | 424 | 1.8 | 22,947 |
| Lodhran | 392 | 2.3 | 16,783 |
| Mandi Bahuddin | 182 | 1.0 | 17,414 |
| Mianwali | 205 | 1.1 | 19,518 |
| Multan | 478 | 2.1 | 23,292 |
| Muzaffargarh | 1,060 | 4.0 | 26,286 |
| Nankana Sahib | 222 | 1.5 | 14,880 |
| Narowal | 151 | 0.8 | 19,363 |
| Okara | 505 | 2.0 | 25,227 |
| Pakpattan | 170 | 1.2 | 14,298 |
| Rahim Yar Khan | 677 | 2.5 | 27,080 |
| Rajanpur | 510 | 4.9 | 10,504 |
| Rawalpindi | 271 | 0.9 | 30,202 |
| Sahiwal | 206 | 1.0 | 19,863 |
| Sargodha | 556 | 1.9 | 28,857 |
| Sheikhupura | 224 | 0.9 | 24,982 |
| Sialkot | 214 | 0.9 | 23,098 |
| T.T Singh | 273 | 1.3 | 20,557 |
| Vehari | 421 | 1.6 | 25,860 |
| Total | 12,028 | 1.6 | 760,655 |

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Table 36: Hepatitis B Suspects - District wise Age Distribution in Adults Punjab

| District | 14-25 | | 25-40 | | 40-55 | | 55+ | | Total Hep. B Suspects |
|-----------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-----------------------|
| | Frequency | % | Frequency | % | Frequency | % | Frequency | % | |
| Attock | 13 | 12.7 | 37 | 36.3 | 31 | 30.4 | 21 | 20.6 | 102 |
| Bahawalnagar | 47 | 15.2 | 112 | 36.1 | 110 | 35.5 | 41 | 13.2 | 310 |
| Bahawalpur | 74 | 19.7 | 161 | 42.9 | 94 | 25.1 | 46 | 12.3 | 375 |
| Bhakkar | 14 | 15.2 | 37 | 40.2 | 30 | 32.6 | 11 | 12.0 | 92 |
| Chakwal | 17 | 14.3 | 52 | 43.7 | 29 | 24.4 | 21 | 17.6 | 119 |
| Chiniot | 45 | 21.8 | 79 | 38.3 | 67 | 32.5 | 15 | 7.3 | 206 |
| Dera Ghazi Khan | 289 | 35.4 | 327 | 40.0 | 145 | 17.7 | 56 | 6.9 | 817 |
| Faisalabad | 71 | 14.8 | 188 | 39.2 | 157 | 32.7 | 64 | 13.3 | 480 |
| Gujranwala | 30 | 18.0 | 74 | 44.3 | 48 | 28.7 | 15 | 9.0 | 167 |
| Gujrat | 40 | 17.6 | 92 | 40.5 | 55 | 24.2 | 40 | 17.6 | 227 |
| Hafizabad | 23 | 18.9 | 54 | 44.3 | 32 | 26.2 | 13 | 10.7 | 122 |
| Jhang | 211 | 19.6 | 497 | 46.1 | 268 | 24.8 | 103 | 9.5 | 1,079 |
| Jhelum | 33 | 25.8 | 45 | 35.2 | 30 | 23.4 | 20 | 15.6 | 128 |
| Kasur | 29 | 23.6 | 42 | 34.1 | 34 | 27.6 | 18 | 14.6 | 123 |
| Khanelwal | 52 | 19.1 | 103 | 37.9 | 89 | 32.7 | 28 | 10.3 | 272 |
| Khushab | 27 | 14.6 | 78 | 42.2 | 52 | 28.1 | 28 | 15.1 | 185 |
| Lahore | 12 | 14.5 | 35 | 42.2 | 27 | 32.5 | 9 | 10.8 | 83 |
| Layyah | 91 | 21.5 | 173 | 40.8 | 109 | 25.7 | 51 | 12.0 | 424 |
| Lodhran | 79 | 20.2 | 145 | 37.0 | 126 | 32.1 | 42 | 10.7 | 392 |
| Mandi Bahuddin | 27 | 14.8 | 69 | 37.9 | 61 | 33.5 | 25 | 13.7 | 182 |
| Mianwali | 67 | 32.7 | 67 | 32.7 | 34 | 16.6 | 37 | 18.0 | 205 |
| Multan | 112 | 23.4 | 174 | 36.4 | 135 | 28.2 | 57 | 11.9 | 478 |
| Muzaffargarh | 294 | 27.7 | 477 | 45.0 | 203 | 19.2 | 86 | 8.1 | 1,060 |
| Nankana Sahib | 47 | 21.2 | 83 | 37.4 | 65 | 29.3 | 27 | 12.2 | 222 |
| Narowal | 44 | 29.1 | 59 | 39.1 | 35 | 23.2 | 13 | 8.6 | 151 |
| Okara | 82 | 16.2 | 177 | 35.0 | 158 | 31.3 | 88 | 17.4 | 505 |
| Pakpattan | 25 | 14.7 | 65 | 38.2 | 56 | 32.9 | 24 | 14.1 | 170 |
| Rahim Yar Khan | 140 | 20.7 | 296 | 43.7 | 165 | 24.4 | 76 | 11.2 | 677 |
| Rajanpur | 117 | 22.9 | 231 | 45.3 | 108 | 21.2 | 54 | 10.6 | 510 |
| Rawalpindi | 46 | 17.0 | 107 | 39.5 | 66 | 24.4 | 52 | 19.2 | 271 |
| Sahiwal | 32 | 15.5 | 77 | 37.4 | 61 | 29.6 | 36 | 17.5 | 206 |
| Sargodha | 91 | 16.4 | 237 | 42.6 | 161 | 29.0 | 67 | 12.1 | 556 |
| Sheikhupura | 51 | 22.8 | 87 | 38.8 | 58 | 25.9 | 28 | 12.5 | 224 |
| Sialkot | 35 | 16.4 | 88 | 41.1 | 63 | 29.4 | 28 | 13.1 | 214 |
| T.T Singh | 42 | 15.4 | 119 | 43.6 | 88 | 32.2 | 24 | 8.8 | 273 |
| Vehari | 51 | 12.1 | 187 | 44.4 | 136 | 32.3 | 47 | 11.2 | 421 |
| Total | 2,500 | 20.8 | 4,931 | 41.0 | 3,186 | 26.5 | 1,411 | 11.7 | 12,028 |

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Table 37: Hepatitis B Suspects - District wise Gender Distribution in Adults Punjab

| District | Female | | Male | | Total Hep. B Suspects |
|-----------------|--------------|-------------|--------------|-------------|-----------------------|
| | Frequency | % | Frequency | % | |
| Attock | 42 | 41.2 | 60 | 58.8 | 102 |
| Bahawalnagar | 145 | 46.8 | 165 | 53.2 | 310 |
| Bahawalpur | 135 | 36.0 | 240 | 64.0 | 375 |
| Bhakkar | 35 | 38.0 | 57 | 62.0 | 92 |
| Chakwal | 64 | 53.8 | 55 | 46.2 | 119 |
| Chiniot | 98 | 47.6 | 108 | 52.4 | 206 |
| Dera Ghazi Khan | 231 | 28.3 | 586 | 71.7 | 817 |
| Faisalabad | 288 | 60.0 | 192 | 40.0 | 480 |
| Gujranwala | 88 | 52.7 | 79 | 47.3 | 167 |
| Gujrat | 120 | 52.9 | 107 | 47.1 | 227 |
| Hafizabad | 62 | 50.8 | 60 | 49.2 | 122 |
| Jhang | 455 | 42.2 | 624 | 57.8 | 1,079 |
| Jhelum | 60 | 46.9 | 68 | 53.1 | 128 |
| Kasur | 62 | 50.4 | 61 | 49.6 | 123 |
| Khaneval | 97 | 35.7 | 175 | 64.3 | 272 |
| Khushab | 98 | 53.0 | 87 | 47.0 | 185 |
| Lahore | 42 | 50.6 | 41 | 49.4 | 83 |
| Layyah | 164 | 38.7 | 260 | 61.3 | 424 |
| Lodhran | 187 | 47.7 | 205 | 52.3 | 392 |
| Mandi Bahuddin | 80 | 44.0 | 102 | 56.0 | 182 |
| Mianwali | 77 | 37.6 | 128 | 62.4 | 205 |
| Multan | 241 | 50.4 | 237 | 49.6 | 478 |
| Muzaffargarh | 401 | 37.8 | 659 | 62.2 | 1,060 |
| Nankana Sahib | 91 | 41.0 | 131 | 59.0 | 222 |
| Narowal | 58 | 38.4 | 93 | 61.6 | 151 |
| Okara | 221 | 43.8 | 284 | 56.2 | 505 |
| Pakpattan | 86 | 50.6 | 84 | 49.4 | 170 |
| Rahim Yar Khan | 255 | 37.7 | 422 | 62.3 | 677 |
| Rajanpur | 163 | 32.0 | 347 | 68.0 | 510 |
| Rawalpindi | 164 | 60.5 | 107 | 39.5 | 271 |
| Sahiwal | 111 | 53.9 | 95 | 46.1 | 206 |
| Sargodha | 253 | 45.5 | 303 | 54.5 | 556 |
| Sheikhupura | 127 | 56.7 | 97 | 43.3 | 224 |
| Sialkot | 104 | 48.6 | 110 | 51.4 | 214 |
| T.T Singh | 122 | 44.7 | 151 | 55.3 | 273 |
| Vehari | 154 | 36.6 | 267 | 63.4 | 421 |
| Total | 5,181 | 43.1 | 6,847 | 56.9 | 12,028 |

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Hepatitis C Suspects - Districts

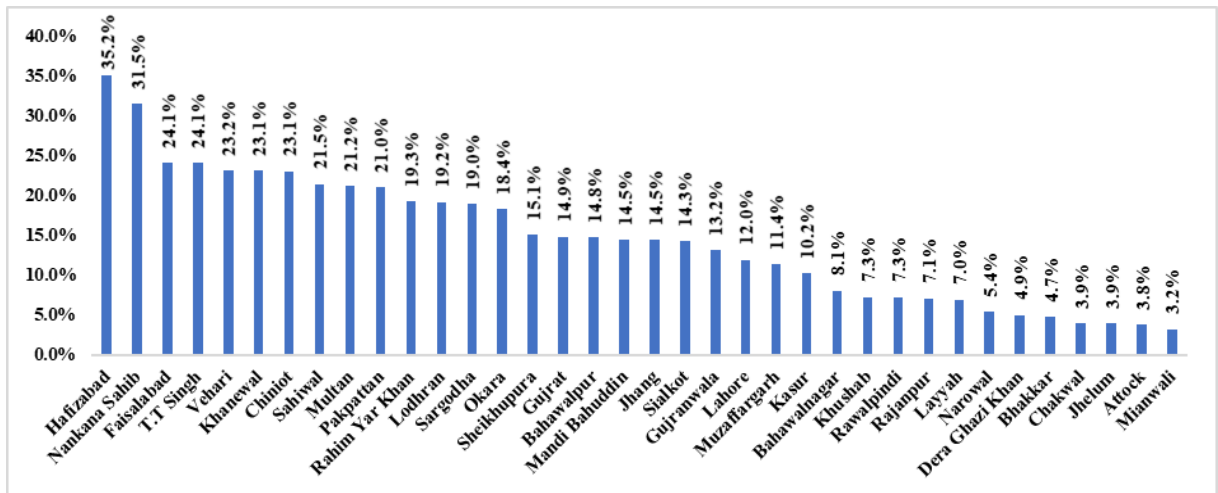


Figure 47: Hepatitis C Suspects - District wise Distribution in Adults

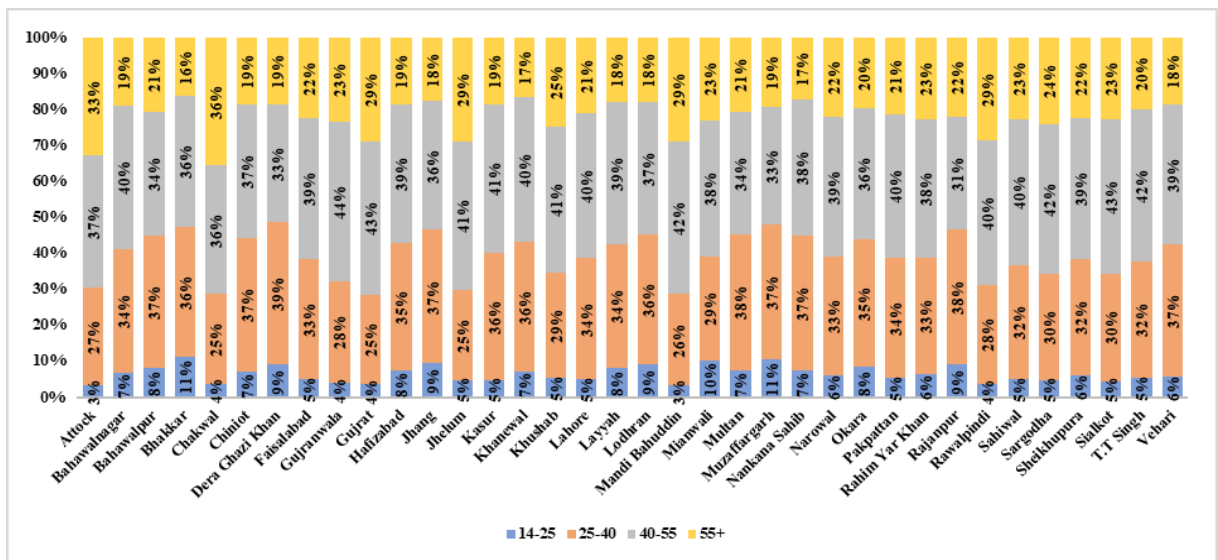


Figure 48: Hepatitis C Suspects - District wise Age Distribution in Adults

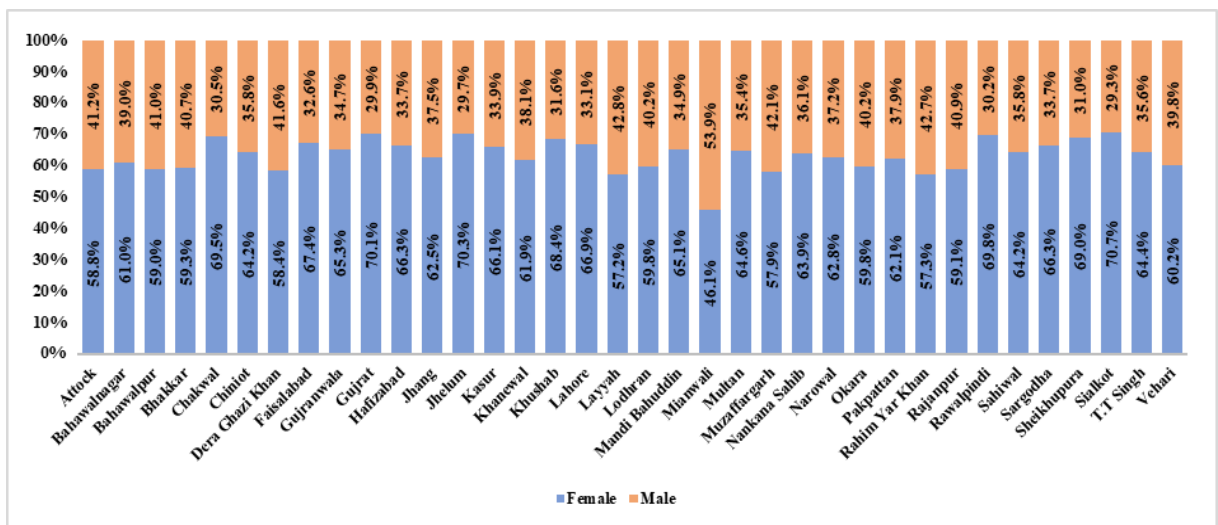


Figure 49: Hepatitis C Suspects - District wise Gender Distribution in Adults

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Table 38: Hepatitis C Suspects - District wise Distribution in Adults Punjab

| District | Reactive | | Total |
|-----------------|----------------|-------------|----------------|
| | Frequency | % | |
| Attock | 684 | 3.8 | 18,201 |
| Bahawalnagar | 1,888 | 8.1 | 23,392 |
| Bahawalpur | 3,339 | 14.8 | 22,620 |
| Bhakkar | 570 | 4.7 | 12,106 |
| Chakwal | 804 | 3.9 | 20,369 |
| Chiniot | 3,660 | 23.1 | 15,840 |
| Dera Ghazi Khan | 603 | 4.9 | 12,195 |
| Faisalabad | 12,390 | 24.1 | 51,319 |
| Gujranwala | 2,795 | 13.2 | 21,156 |
| Gujrat | 3,527 | 14.9 | 23,720 |
| Hafizabad | 2,956 | 35.2 | 8,403 |
| Jhang | 4,915 | 14.5 | 33,946 |
| Jhelum | 764 | 3.9 | 19,438 |
| Kasur | 1,867 | 10.2 | 18,242 |
| Khane wal | 3,844 | 23.1 | 16,606 |
| Khushab | 1,458 | 7.3 | 20,085 |
| Lahore | 1,436 | 12.0 | 12,006 |
| Layyah | 1,595 | 7.0 | 22,947 |
| Lodhran | 3,221 | 19.2 | 16,783 |
| Mandi Bahuddin | 2,526 | 14.5 | 17,414 |
| Mianwali | 633 | 3.2 | 19,518 |
| Multan | 4,947 | 21.2 | 23,292 |
| Muzaffargarh | 2,986 | 11.4 | 26,286 |
| Nankana Sahib | 4,690 | 31.5 | 14,880 |
| Narowal | 1,042 | 5.4 | 19,363 |
| Okara | 4,636 | 18.4 | 25,227 |
| Pakpattan | 3,006 | 21.0 | 14,298 |
| Rahim Yar Khan | 5,231 | 19.3 | 27,080 |
| Rajanpur | 741 | 7.1 | 10,504 |
| Rawalpindi | 2,192 | 7.3 | 30,202 |
| Sahiwal | 4,261 | 21.5 | 19,863 |
| Sargodha | 5,476 | 19.0 | 28,857 |
| Sheikhupura | 3,766 | 15.1 | 24,982 |
| Sialkot | 3,299 | 14.3 | 23,098 |
| T.T Singh | 4,953 | 24.1 | 20,557 |
| Vehari | 5,993 | 23.2 | 25,860 |
| Total | 112,694 | 14.8 | 760,655 |

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Table 39: Hepatitis C Suspects - District wise Age Distribution in Adults Punjab

| District | 14-25 | | 25-40 | | 40-55 | | 55+ | | Total Hep. C Suspects |
|-----------------|--------------|------------|---------------|-------------|---------------|-------------|---------------|-------------|-----------------------|
| | Frequency | % | Frequency | % | Frequency | % | Frequency | % | |
| Attock | 23 | 3.4 | 186 | 27.2 | 251 | 36.7 | 224 | 32.7 | 684 |
| Bahawalnagar | 131 | 6.9 | 645 | 34.2 | 753 | 39.9 | 359 | 19.0 | 1,888 |
| Bahawalpur | 272 | 8.1 | 1,229 | 36.8 | 1,151 | 34.5 | 687 | 20.6 | 3,339 |
| Bhakkar | 65 | 11.4 | 205 | 36.0 | 208 | 36.5 | 92 | 16.1 | 570 |
| Chakwal | 31 | 3.9 | 200 | 24.9 | 287 | 35.7 | 286 | 35.6 | 804 |
| Chiniot | 263 | 7.2 | 1,363 | 37.2 | 1,348 | 36.8 | 686 | 18.7 | 3,660 |
| Dera Ghazi Khan | 55 | 9.1 | 238 | 39.5 | 198 | 32.8 | 112 | 18.6 | 603 |
| Faisalabad | 633 | 5.1 | 4,117 | 33.2 | 4,865 | 39.3 | 2,775 | 22.4 | 12,390 |
| Gujranwala | 109 | 3.9 | 791 | 28.3 | 1,239 | 44.3 | 656 | 23.5 | 2,795 |
| Gujrat | 132 | 3.7 | 868 | 24.6 | 1,508 | 42.8 | 1,019 | 28.9 | 3,527 |
| Hafizabad | 226 | 7.6 | 1,037 | 35.1 | 1,145 | 38.7 | 548 | 18.5 | 2,956 |
| Jhang | 462 | 9.4 | 1,828 | 37.2 | 1,754 | 35.7 | 871 | 17.7 | 4,915 |
| Jhelum | 36 | 4.7 | 192 | 25.1 | 314 | 41.1 | 222 | 29.1 | 764 |
| Kasur | 88 | 4.7 | 664 | 35.6 | 766 | 41.0 | 349 | 18.7 | 1,867 |
| Khane wal | 280 | 7.3 | 1,381 | 35.9 | 1,543 | 40.1 | 640 | 16.6 | 3,844 |
| Khushab | 78 | 5.3 | 428 | 29.4 | 591 | 40.5 | 361 | 24.8 | 1,458 |
| Lahore | 71 | 4.9 | 484 | 33.7 | 580 | 40.4 | 301 | 21.0 | 1,436 |
| Layyah | 129 | 8.1 | 549 | 34.4 | 629 | 39.4 | 288 | 18.1 | 1,595 |
| Lodhran | 292 | 9.1 | 1,162 | 36.1 | 1,186 | 36.8 | 581 | 18.0 | 3,221 |
| Mandi Bahuddin | 81 | 3.2 | 645 | 25.5 | 1,072 | 42.4 | 728 | 28.8 | 2,526 |
| Mianwali | 65 | 10.3 | 183 | 28.9 | 240 | 37.9 | 145 | 22.9 | 633 |
| Multan | 371 | 7.5 | 1,869 | 37.8 | 1,689 | 34.1 | 1,018 | 20.6 | 4,947 |
| Muzaffargarh | 315 | 10.5 | 1,119 | 37.5 | 978 | 32.8 | 574 | 19.2 | 2,986 |
| Nankana Sahib | 344 | 7.3 | 1,757 | 37.5 | 1,783 | 38.0 | 806 | 17.2 | 4,690 |
| Narowal | 65 | 6.2 | 342 | 32.8 | 404 | 38.8 | 231 | 22.2 | 1,042 |
| Okara | 394 | 8.5 | 1,643 | 35.4 | 1,688 | 36.4 | 911 | 19.7 | 4,636 |
| Pakpattan | 159 | 5.3 | 1,011 | 33.6 | 1,196 | 39.8 | 640 | 21.3 | 3,006 |
| Rahim Yar Khan | 329 | 6.3 | 1,703 | 32.6 | 2,011 | 38.4 | 1,188 | 22.7 | 5,231 |
| Rajanpur | 68 | 9.2 | 278 | 37.5 | 232 | 31.3 | 163 | 22.0 | 741 |
| Rawalpindi | 80 | 3.6 | 606 | 27.6 | 879 | 40.1 | 627 | 28.6 | 2,192 |
| Sahiwal | 213 | 5.0 | 1,358 | 31.9 | 1,715 | 40.2 | 975 | 22.9 | 4,261 |
| Sargodha | 256 | 4.7 | 1,618 | 29.5 | 2,278 | 41.6 | 1,324 | 24.2 | 5,476 |
| Sheikhupura | 236 | 6.3 | 1,215 | 32.3 | 1,471 | 39.1 | 844 | 22.4 | 3,766 |
| Sialkot | 150 | 4.5 | 983 | 29.8 | 1,419 | 43.0 | 747 | 22.6 | 3,299 |
| T.T Singh | 268 | 5.4 | 1,607 | 32.4 | 2,083 | 42.1 | 995 | 20.1 | 4,953 |
| Vehari | 336 | 5.6 | 2,206 | 36.8 | 2,343 | 39.1 | 1,108 | 18.5 | 5,993 |
| Total | 7,106 | 6.3 | 37,710 | 33.5 | 43,797 | 38.9 | 24,081 | 21.4 | 112,694 |

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Table 40: Hepatitis C Suspects - District wise Gender Distribution in Adults Punjab

| District | Female | | Male | | Total Hep. C Suspects |
|-----------------|---------------|-------------|---------------|-------------|-----------------------|
| | Frequency | % | Frequency | % | |
| Attock | 402 | 58.8 | 282 | 41.2 | 684 |
| Bahawalnagar | 1,151 | 61.0 | 737 | 39.0 | 1,888 |
| Bahawalpur | 1,969 | 59.0 | 1,370 | 41.0 | 3,339 |
| Bhakkar | 338 | 59.3 | 232 | 40.7 | 570 |
| Chakwal | 559 | 69.5 | 245 | 30.5 | 804 |
| Chiniot | 2,350 | 64.2 | 1,310 | 35.8 | 3,660 |
| Dera Ghazi Khan | 352 | 58.4 | 251 | 41.6 | 603 |
| Faisalabad | 8,356 | 67.4 | 4,034 | 32.6 | 12,390 |
| Gujranwala | 1,825 | 65.3 | 970 | 34.7 | 2,795 |
| Gujrat | 2,471 | 70.1 | 1,056 | 29.9 | 3,527 |
| Hafizabad | 1,959 | 66.3 | 997 | 33.7 | 2,956 |
| Jhang | 3,071 | 62.5 | 1,844 | 37.5 | 4,915 |
| Jhelum | 537 | 70.3 | 227 | 29.7 | 764 |
| Kasur | 1,234 | 66.1 | 633 | 33.9 | 1,867 |
| Khanelwal | 2,379 | 61.9 | 1,465 | 38.1 | 3,844 |
| Khushab | 997 | 68.4 | 461 | 31.6 | 1,458 |
| Lahore | 960 | 66.9 | 476 | 33.1 | 1,436 |
| Layyah | 912 | 57.2 | 683 | 42.8 | 1,595 |
| Lodhran | 1,925 | 59.8 | 1,296 | 40.2 | 3,221 |
| Mandi Bahuddin | 1,644 | 65.1 | 882 | 34.9 | 2,526 |
| Mianwali | 292 | 46.1 | 341 | 53.9 | 633 |
| Multan | 3,197 | 64.6 | 1,750 | 35.4 | 4,947 |
| Muzaffargarh | 1,730 | 57.9 | 1,256 | 42.1 | 2,986 |
| Nankana Sahib | 2,998 | 63.9 | 1,692 | 36.1 | 4,690 |
| Narowal | 654 | 62.8 | 388 | 37.2 | 1,042 |
| Okara | 2,771 | 59.8 | 1,865 | 40.2 | 4,636 |
| Pakpattan | 1,866 | 62.1 | 1,140 | 37.9 | 3,006 |
| Rahim Yar Khan | 2,995 | 57.3 | 2,236 | 42.7 | 5,231 |
| Rajanpur | 438 | 59.1 | 303 | 40.9 | 741 |
| Rawalpindi | 1,530 | 69.8 | 662 | 30.2 | 2,192 |
| Sahiwal | 2,735 | 64.2 | 1,526 | 35.8 | 4,261 |
| Sargodha | 3,632 | 66.3 | 1,844 | 33.7 | 5,476 |
| Sheikhupura | 2,600 | 69.0 | 1,166 | 31.0 | 3,766 |
| Sialkot | 2,332 | 70.7 | 967 | 29.3 | 3,299 |
| T.T Singh | 3,192 | 64.4 | 1,761 | 35.6 | 4,953 |
| Vehari | 3,606 | 60.2 | 2,387 | 39.8 | 5,993 |
| Total | 71,959 | 63.9 | 40,735 | 36.1 | 112,694 |

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Malaria - Districts

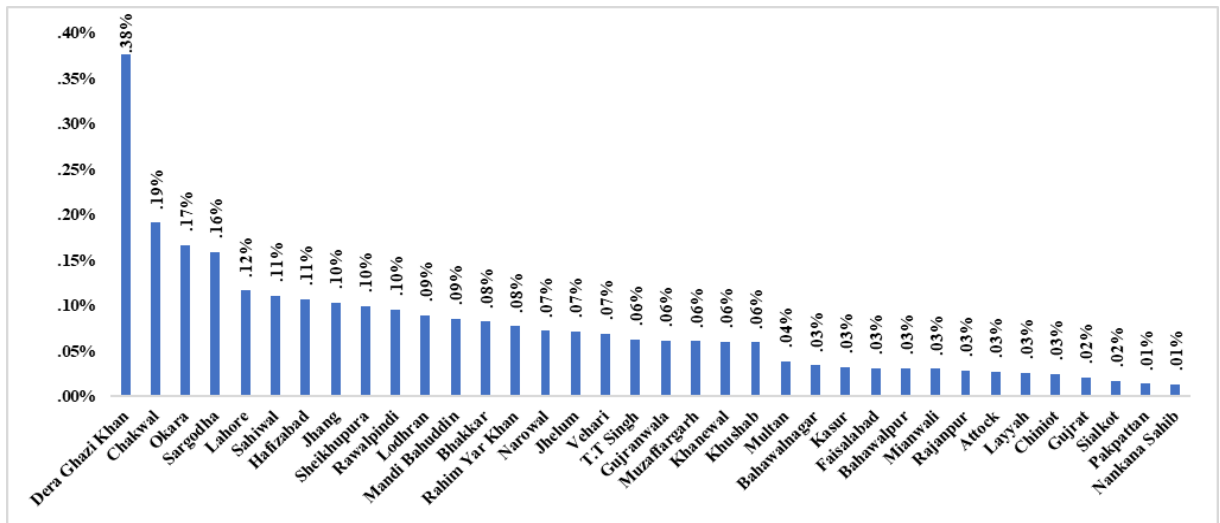


Figure 50: Malaria - District wise Distribution in Adults

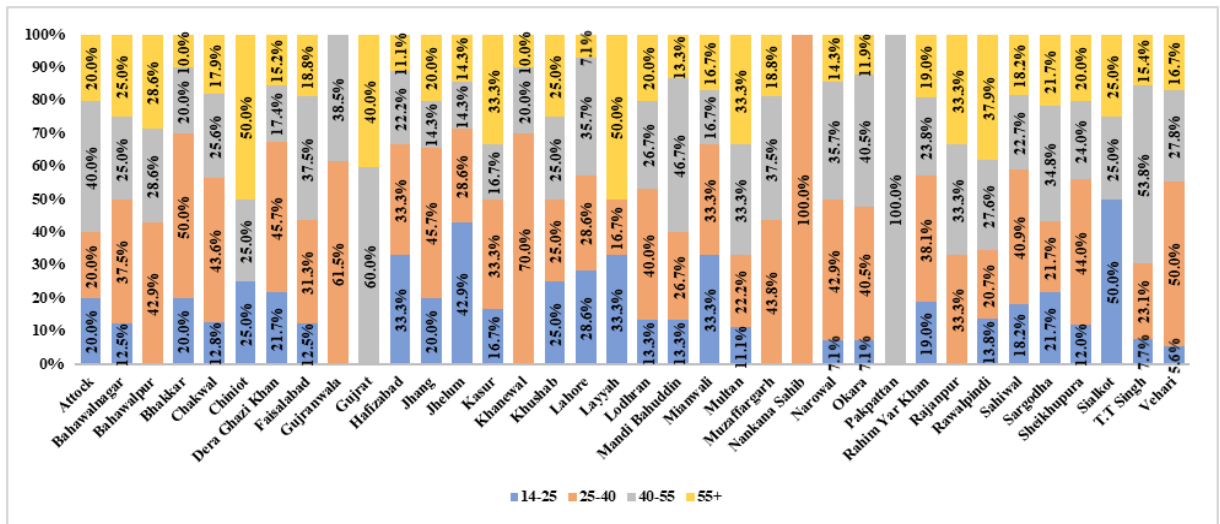


Figure 51: Malaria - District wise Age Distribution in Adults

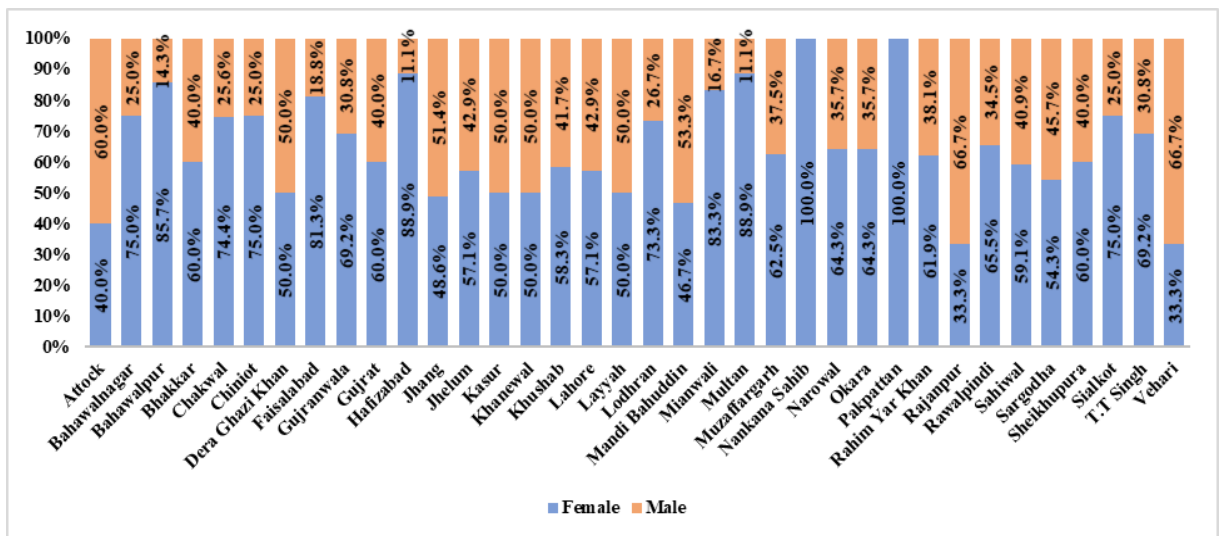


Figure 52: Malaria - District wise Gender Distribution in Adults

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Table 41: Malaria - District wise Distribution in Adults Punjab

| District | Positive | | Total |
|-----------------|------------|--------------|----------------|
| | Frequency | % | |
| Attock | 5 | 0.03% | 18,201 |
| Bahawalnagar | 8 | 0.03% | 23,392 |
| Bahawalpur | 7 | 0.03% | 22,620 |
| Bhakkar | 10 | 0.08% | 12,106 |
| Chakwal | 39 | 0.19% | 20,369 |
| Chiniot | 4 | 0.03% | 15,840 |
| Dera Ghazi Khan | 46 | 0.38% | 12,195 |
| Faisalabad | 16 | 0.03% | 51,319 |
| Gujranwala | 13 | 0.06% | 21,156 |
| Gujrat | 5 | 0.02% | 23,720 |
| Hafizabad | 9 | 0.11% | 8,403 |
| Jhang | 35 | 0.10% | 33,946 |
| Jhelum | 14 | 0.07% | 19,438 |
| Kasur | 6 | 0.03% | 18,242 |
| Khane wal | 10 | 0.06% | 16,606 |
| Khushab | 12 | 0.06% | 20,085 |
| Lahore | 14 | 0.12% | 12,006 |
| Layyah | 6 | 0.03% | 22,947 |
| Lodhran | 15 | 0.09% | 16,783 |
| Mandi Bahuddin | 15 | 0.09% | 17,414 |
| Mianwali | 6 | 0.03% | 19,518 |
| Multan | 9 | 0.04% | 23,292 |
| Muzaffargarh | 16 | 0.06% | 26,286 |
| Nankana Sahib | 2 | 0.01% | 14,880 |
| Narowal | 14 | 0.07% | 19,363 |
| Okara | 42 | 0.17% | 25,227 |
| Pakpattan | 2 | 0.01% | 14,298 |
| Rahim Yar Khan | 21 | 0.08% | 27,080 |
| Rajanpur | 3 | 0.03% | 10,504 |
| Rawalpindi | 29 | 0.10% | 30,202 |
| Sahiwal | 22 | 0.11% | 19,863 |
| Sargodha | 46 | 0.16% | 28,857 |
| Sheikhupura | 25 | 0.10% | 24,982 |
| Sialkot | 4 | 0.02% | 23,098 |
| T.T Singh | 13 | 0.06% | 20,557 |
| Vehari | 18 | 0.07% | 25,860 |
| Total | 561 | 0.07% | 760,655 |

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Table 42: Malaria - District wise Age Distribution in Adults Punjab

| District | 14-25 | | 25-40 | | 40-55 | | 55+ | | Total Malaria |
|-----------------|-----------|-------------|------------|-------------|------------|-------------|------------|-------------|---------------|
| | Frequency | % | Frequency | % | Frequency | % | Frequency | % | |
| Attock | 1 | 20.0 | 1 | 20.0 | 2 | 40.0 | 1 | 20.0 | 5 |
| Bahawalnagar | 1 | 12.5 | 3 | 37.5 | 2 | 25.0 | 2 | 25.0 | 8 |
| Bahawalpur | 0 | | 3 | 42.9 | 2 | 28.6 | 2 | 28.6 | 7 |
| Bhakkar | 2 | 20.0 | 5 | 50.0 | 2 | 20.0 | 1 | 10.0 | 10 |
| Chakwal | 5 | 12.8 | 17 | 43.6 | 10 | 25.6 | 7 | 17.9 | 39 |
| Chiniot | 1 | 25.0 | 0 | | 1 | 25.0 | 2 | 50.0 | 4 |
| Dera Ghazi Khan | 10 | 21.7 | 21 | 45.7 | 8 | 17.4 | 7 | 15.2 | 46 |
| Faisalabad | 2 | 12.5 | 5 | 31.3 | 6 | 37.5 | 3 | 18.8 | 16 |
| Gujranwala | 0 | | 8 | 61.5 | 5 | 38.5 | 0 | | 13 |
| Gujrat | 0 | | 0 | | 3 | 60.0 | 2 | 40.0 | 5 |
| Hafizabad | 3 | 33.3 | 3 | 33.3 | 2 | 22.2 | 1 | 11.1 | 9 |
| Jhang | 7 | 20.0 | 16 | 45.7 | 5 | 14.3 | 7 | 20.0 | 35 |
| Jhelum | 6 | 42.9 | 4 | 28.6 | 2 | 14.3 | 2 | 14.3 | 14 |
| Kasur | 1 | 16.7 | 2 | 33.3 | 1 | 16.7 | 2 | 33.3 | 6 |
| Khanelal | 0 | | 7 | 70.0 | 2 | 20.0 | 1 | 10.0 | 10 |
| Khushab | 3 | 25.0 | 3 | 25.0 | 3 | 25.0 | 3 | 25.0 | 12 |
| Lahore | 4 | 28.6 | 4 | 28.6 | 5 | 35.7 | 1 | 7.1 | 14 |
| Layyah | 2 | 33.3 | 1 | 16.7 | 0 | | 3 | 50.0 | 6 |
| Lodhran | 2 | 13.3 | 6 | 40.0 | 4 | 26.7 | 3 | 20.0 | 15 |
| Mandi Bahuddin | 2 | 13.3 | 4 | 26.7 | 7 | 46.7 | 2 | 13.3 | 15 |
| Mianwali | 2 | 33.3 | 2 | 33.3 | 1 | 16.7 | 1 | 16.7 | 6 |
| Multan | 1 | 11.1 | 2 | 22.2 | 3 | 33.3 | 3 | 33.3 | 9 |
| Muzaffargarh | 0 | | 7 | 43.8 | 6 | 37.5 | 3 | 18.8 | 16 |
| Nankana Sahib | 0 | | 2 | 100.0 | 0 | | 0 | | 2 |
| Narowal | 1 | 7.1 | 6 | 42.9 | 5 | 35.7 | 2 | 14.3 | 14 |
| Okara | 3 | 7.1 | 17 | 40.5 | 17 | 40.5 | 5 | 11.9 | 42 |
| Pakpattan | 0 | | 0 | | 2 | 100.0 | 0 | | 2 |
| Rahim Yar Khan | 4 | 19.0 | 8 | 38.1 | 5 | 23.8 | 4 | 19.0 | 21 |
| Rajanpur | 0 | | 1 | 33.3 | 1 | 33.3 | 1 | 33.3 | 3 |
| Rawalpindi | 4 | 13.8 | 6 | 20.7 | 8 | 27.6 | 11 | 37.9 | 29 |
| Sahiwal | 4 | 18.2 | 9 | 40.9 | 5 | 22.7 | 4 | 18.2 | 22 |
| Sargodha | 10 | 21.7 | 10 | 21.7 | 16 | 34.8 | 10 | 21.7 | 46 |
| Sheikhupura | 3 | 12.0 | 11 | 44.0 | 6 | 24.0 | 5 | 20.0 | 25 |
| Sialkot | 2 | 50.0 | 0 | | 1 | 25.0 | 1 | 25.0 | 4 |
| T.T Singh | 1 | 7.7 | 3 | 23.1 | 7 | 53.8 | 2 | 15.4 | 13 |
| Vehari | 1 | 5.6 | 9 | 50.0 | 5 | 27.8 | 3 | 16.7 | 18 |
| Total | 88 | 15.7 | 206 | 36.7 | 160 | 28.5 | 107 | 19.1 | 561 |

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Table 43: Malaria - District wise Gender Distribution in Adults Punjab

| District | Female | | Male | | Total Malaria |
|-----------------|------------|-------------|------------|-------------|---------------|
| | Frequency | % | Frequency | % | |
| Attock | 2 | 40.0 | 3 | 60.0 | 5 |
| Bahawalnagar | 6 | 75.0 | 2 | 25.0 | 8 |
| Bahawalpur | 6 | 85.7 | 1 | 14.3 | 7 |
| Bhakkar | 6 | 60.0 | 4 | 40.0 | 10 |
| Chakwal | 29 | 74.4 | 10 | 25.6 | 39 |
| Chiniot | 3 | 75.0 | 1 | 25.0 | 4 |
| Dera Ghazi Khan | 23 | 50.0 | 23 | 50.0 | 46 |
| Faisalabad | 13 | 81.3 | 3 | 18.8 | 16 |
| Gujranwala | 9 | 69.2 | 4 | 30.8 | 13 |
| Gujrat | 3 | 60.0 | 2 | 40.0 | 5 |
| Hafizabad | 8 | 88.9 | 1 | 11.1 | 9 |
| Jhang | 17 | 48.6 | 18 | 51.4 | 35 |
| Jhelum | 8 | 57.1 | 6 | 42.9 | 14 |
| Kasur | 3 | 50.0 | 3 | 50.0 | 6 |
| Khane wal | 5 | 50.0 | 5 | 50.0 | 10 |
| Khushab | 7 | 58.3 | 5 | 41.7 | 12 |
| Lahore | 8 | 57.1 | 6 | 42.9 | 14 |
| Layyah | 3 | 50.0 | 3 | 50.0 | 6 |
| Lodhran | 11 | 73.3 | 4 | 26.7 | 15 |
| Mandi Bahuddin | 7 | 46.7 | 8 | 53.3 | 15 |
| Mianwali | 5 | 83.3 | 1 | 16.7 | 6 |
| Multan | 8 | 88.9 | 1 | 11.1 | 9 |
| Muzaffargarh | 10 | 62.5 | 6 | 37.5 | 16 |
| Nankana Sahib | 2 | 100.0 | 0 | | 2 |
| Narowal | 9 | 64.3 | 5 | 35.7 | 14 |
| Okara | 27 | 64.3 | 15 | 35.7 | 42 |
| Pakpattan | 2 | 100.0 | 0 | | 2 |
| Rahim Yar Khan | 13 | 61.9 | 8 | 38.1 | 21 |
| Rajanpur | 1 | 33.3 | 2 | 66.7 | 3 |
| Rawalpindi | 19 | 65.5 | 10 | 34.5 | 29 |
| Sahiwal | 13 | 59.1 | 9 | 40.9 | 22 |
| Sargodha | 25 | 54.3 | 21 | 45.7 | 46 |
| Sheikhupura | 15 | 60.0 | 10 | 40.0 | 25 |
| Sialkot | 3 | 75.0 | 1 | 25.0 | 4 |
| T.T Singh | 9 | 69.2 | 4 | 30.8 | 13 |
| Vehari | 6 | 33.3 | 12 | 66.7 | 18 |
| Total | 344 | 61.3 | 217 | 38.7 | 561 |

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TB

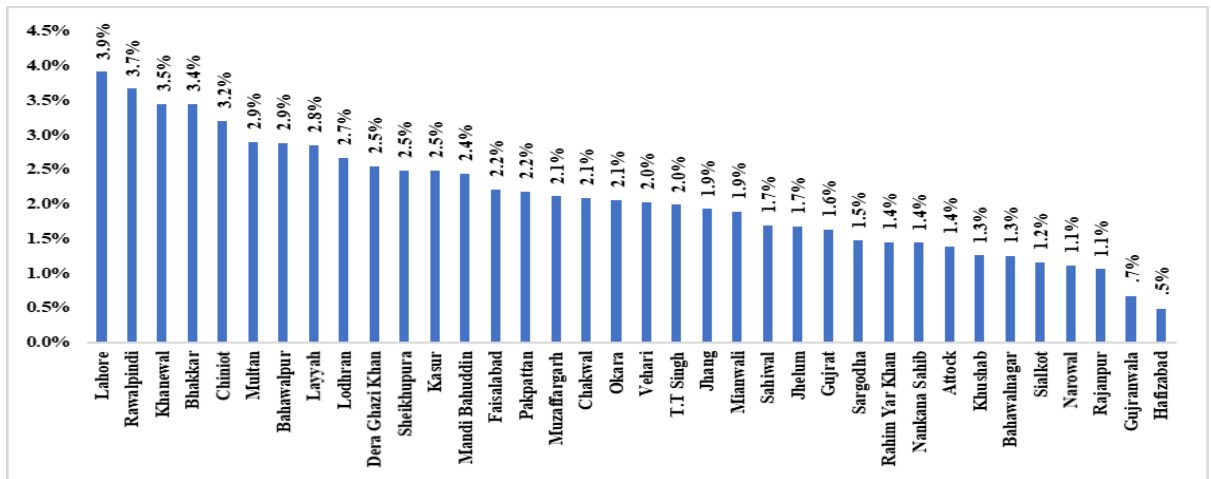


Figure 53: TB - District wise Distribution in Adults

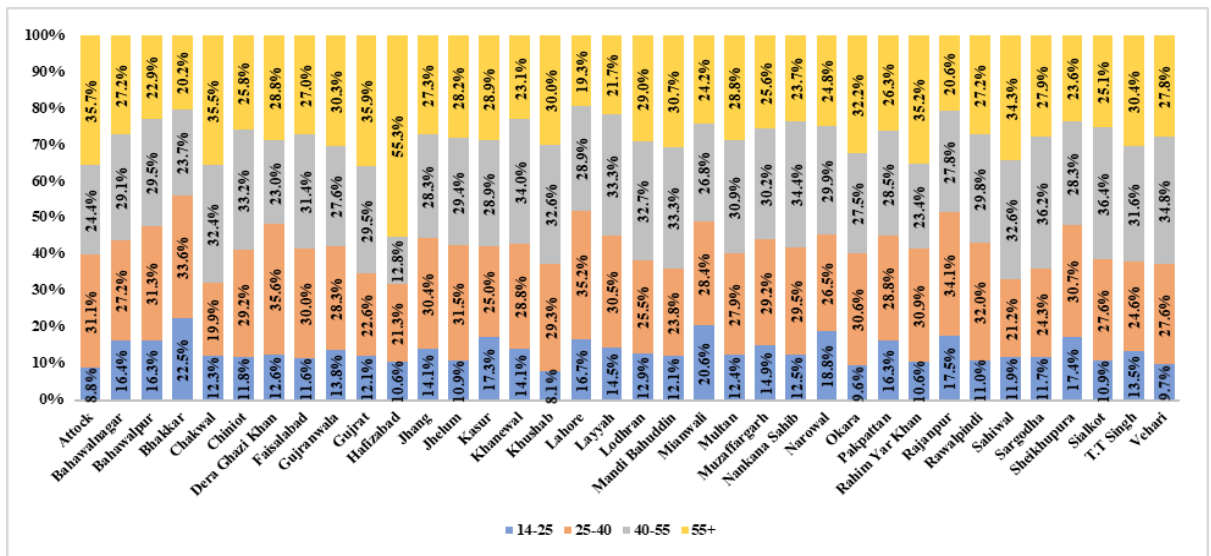


Figure 54: TB - District wise Age Distribution in Adults

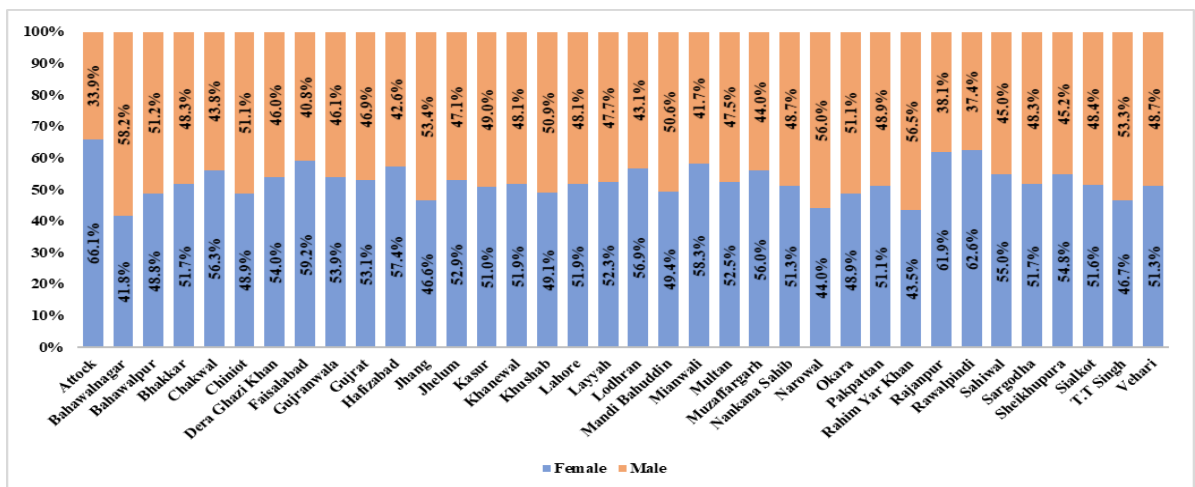


Figure 55: TB - District wise Gender Distribution in Adults

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Table 44: TB - District wise Distribution in Adults Punjab

| District | TB Suspects | | Total |
|-----------------|---------------|------------|----------------|
| | Frequency | % | |
| Attock | 283 | 1.4 | 20,362 |
| Bahawalnagar | 323 | 1.3 | 25,780 |
| Bahawalpur | 668 | 2.9 | 23,190 |
| Bhakkar | 435 | 3.4 | 12,610 |
| Chakwal | 448 | 2.1 | 21,457 |
| Chiniot | 524 | 3.2 | 16,351 |
| Dera Ghazi Khan | 326 | 2.5 | 12,813 |
| Faisalabad | 1,173 | 2.2 | 53,005 |
| Gujranwala | 152 | 0.7 | 22,589 |
| Gujrat | 390 | 1.6 | 23,973 |
| Hafizabad | 47 | 0.5 | 9,594 |
| Jhang | 682 | 1.9 | 35,374 |
| Jhelum | 340 | 1.7 | 20,296 |
| Kasur | 492 | 2.5 | 19,835 |
| Khanelwal | 594 | 3.5 | 17,215 |
| Khushab | 273 | 1.3 | 21,763 |
| Lahore | 509 | 3.9 | 13,002 |
| Layyah | 682 | 2.8 | 23,930 |
| Lodhran | 459 | 2.7 | 17,225 |
| Mandi Bahuddin | 453 | 2.4 | 18,534 |
| Mianwali | 384 | 1.9 | 20,283 |
| Multan | 699 | 2.9 | 24,129 |
| Muzaffargarh | 589 | 2.1 | 27,873 |
| Nankana Sahib | 224 | 1.4 | 15,585 |
| Narowal | 234 | 1.1 | 21,060 |
| Okara | 552 | 2.1 | 26,802 |
| Pakpattan | 319 | 2.2 | 14,647 |
| Rahim Yar Khan | 398 | 1.4 | 27,451 |
| Rajanpur | 126 | 1.1 | 11,900 |
| Rawalpindi | 1,168 | 3.7 | 31,822 |
| Sahiwal | 353 | 1.7 | 20,862 |
| Sargodha | 437 | 1.5 | 29,762 |
| Sheikhupura | 657 | 2.5 | 26,405 |
| Sialkot | 275 | 1.2 | 23,738 |
| T.T Singh | 415 | 2.0 | 20,861 |
| Vehari | 557 | 2.0 | 27,469 |
| Total | 16,640 | 2.1 | 799,547 |

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Table 45: TB - District wise Age Distribution in Adults Punjab

| District | 14-25 | | 25-40 | | 40-55 | | 55+ | | Total TB Suspects |
|-----------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------------|
| | Frequency | % | Frequency | % | Frequency | % | Frequency | % | |
| Attock | 25 | 8.8 | 88 | 31.1 | 69 | 24.4 | 101 | 35.7 | 283 |
| Bahawalnagar | 53 | 16.4 | 88 | 27.2 | 94 | 29.1 | 88 | 27.2 | 323 |
| Bahawalpur | 109 | 16.3 | 209 | 31.3 | 197 | 29.5 | 153 | 22.9 | 668 |
| Bhakkar | 98 | 22.5 | 146 | 33.6 | 103 | 23.7 | 88 | 20.2 | 435 |
| Chakwal | 55 | 12.3 | 89 | 19.9 | 145 | 32.4 | 159 | 35.5 | 448 |
| Chiniot | 62 | 11.8 | 153 | 29.2 | 174 | 33.2 | 135 | 25.8 | 524 |
| Dera Ghazi Khan | 41 | 12.6 | 116 | 35.6 | 75 | 23.0 | 94 | 28.8 | 326 |
| Faisalabad | 136 | 11.6 | 352 | 30.0 | 368 | 31.4 | 317 | 27.0 | 1,173 |
| Gujranwala | 21 | 13.8 | 43 | 28.3 | 42 | 27.6 | 46 | 30.3 | 152 |
| Gujrat | 47 | 12.1 | 88 | 22.6 | 115 | 29.5 | 140 | 35.9 | 390 |
| Hafizabad | 5 | 10.6 | 10 | 21.3 | 6 | 12.8 | 26 | 55.3 | 47 |
| Jhang | 96 | 14.1 | 207 | 30.4 | 193 | 28.3 | 186 | 27.3 | 682 |
| Jhelum | 37 | 10.9 | 107 | 31.5 | 100 | 29.4 | 96 | 28.2 | 340 |
| Kasur | 85 | 17.3 | 123 | 25.0 | 142 | 28.9 | 142 | 28.9 | 492 |
| Khanewal | 84 | 14.1 | 171 | 28.8 | 202 | 34.0 | 137 | 23.1 | 594 |
| Khushab | 22 | 8.1 | 80 | 29.3 | 89 | 32.6 | 82 | 30.0 | 273 |
| Lahore | 85 | 16.7 | 179 | 35.2 | 147 | 28.9 | 98 | 19.3 | 509 |
| Layyah | 99 | 14.5 | 208 | 30.5 | 227 | 33.3 | 148 | 21.7 | 682 |
| Lodhran | 59 | 12.9 | 117 | 25.5 | 150 | 32.7 | 133 | 29.0 | 459 |
| Mandi Bahuddin | 55 | 12.1 | 108 | 23.8 | 151 | 33.3 | 139 | 30.7 | 453 |
| Mianwali | 79 | 20.6 | 109 | 28.4 | 103 | 26.8 | 93 | 24.2 | 384 |
| Multan | 87 | 12.4 | 195 | 27.9 | 216 | 30.9 | 201 | 28.8 | 699 |
| Muzaffargarh | 88 | 14.9 | 172 | 29.2 | 178 | 30.2 | 151 | 25.6 | 589 |
| Nankana Sahib | 28 | 12.5 | 66 | 29.5 | 77 | 34.4 | 53 | 23.7 | 224 |
| Narowal | 44 | 18.8 | 62 | 26.5 | 70 | 29.9 | 58 | 24.8 | 234 |
| Okara | 53 | 9.6 | 169 | 30.6 | 152 | 27.5 | 178 | 32.2 | 552 |
| Pakpattan | 52 | 16.3 | 92 | 28.8 | 91 | 28.5 | 84 | 26.3 | 319 |
| Rahim Yar Khan | 42 | 10.6 | 123 | 30.9 | 93 | 23.4 | 140 | 35.2 | 398 |
| Rajanpur | 22 | 17.5 | 43 | 34.1 | 35 | 27.8 | 26 | 20.6 | 126 |
| Rawalpindi | 128 | 11.0 | 374 | 32.0 | 348 | 29.8 | 318 | 27.2 | 1,168 |
| Sahiwal | 42 | 11.9 | 75 | 21.2 | 115 | 32.6 | 121 | 34.3 | 353 |
| Sargodha | 51 | 11.7 | 106 | 24.3 | 158 | 36.2 | 122 | 27.9 | 437 |
| Sheikhupura | 114 | 17.4 | 202 | 30.7 | 186 | 28.3 | 155 | 23.6 | 657 |
| Sialkot | 30 | 10.9 | 76 | 27.6 | 100 | 36.4 | 69 | 25.1 | 275 |
| T.T Singh | 56 | 13.5 | 102 | 24.6 | 131 | 31.6 | 126 | 30.4 | 415 |
| Vehari | 54 | 9.7 | 154 | 27.6 | 194 | 34.8 | 155 | 27.8 | 557 |
| Total | 2,244 | 13.5 | 4,802 | 28.9 | 5,036 | 30.3 | 4,558 | 27.4 | 16,640 |

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Table 46: TB - District wise Gender Distribution in Adults Punjab

| District | Female | | Male | | Total TB Suspects |
|-----------------|--------------|-------------|--------------|-------------|-------------------|
| | Frequency | % | Frequency | % | |
| Attock | 187 | 66.1 | 96 | 33.9 | 283 |
| Bahawalnagar | 135 | 41.8 | 188 | 58.2 | 323 |
| Bahawalpur | 326 | 48.8 | 342 | 51.2 | 668 |
| Bhakkar | 225 | 51.7 | 210 | 48.3 | 435 |
| Chakwal | 252 | 56.3 | 196 | 43.8 | 448 |
| Chiniot | 256 | 48.9 | 268 | 51.1 | 524 |
| Dera Ghazi Khan | 176 | 54.0 | 150 | 46.0 | 326 |
| Faisalabad | 694 | 59.2 | 479 | 40.8 | 1,173 |
| Gujranwala | 82 | 53.9 | 70 | 46.1 | 152 |
| Gujrat | 207 | 53.1 | 183 | 46.9 | 390 |
| Hafizabad | 27 | 57.4 | 20 | 42.6 | 47 |
| Jhang | 318 | 46.6 | 364 | 53.4 | 682 |
| Jhelum | 180 | 52.9 | 160 | 47.1 | 340 |
| Kasur | 251 | 51.0 | 241 | 49.0 | 492 |
| Khane wal | 308 | 51.9 | 286 | 48.1 | 594 |
| Khus hab | 134 | 49.1 | 139 | 50.9 | 273 |
| Lahore | 264 | 51.9 | 245 | 48.1 | 509 |
| Layyah | 357 | 52.3 | 325 | 47.7 | 682 |
| Lodhran | 261 | 56.9 | 198 | 43.1 | 459 |
| Mandi Bahuddin | 224 | 49.4 | 229 | 50.6 | 453 |
| Mianwali | 224 | 58.3 | 160 | 41.7 | 384 |
| Multan | 367 | 52.5 | 332 | 47.5 | 699 |
| Muzaffargarh | 330 | 56.0 | 259 | 44.0 | 589 |
| Nankana Sahib | 115 | 51.3 | 109 | 48.7 | 224 |
| Narowal | 103 | 44.0 | 131 | 56.0 | 234 |
| Okara | 270 | 48.9 | 282 | 51.1 | 552 |
| Pakpattan | 163 | 51.1 | 156 | 48.9 | 319 |
| Rahim Yar Khan | 173 | 43.5 | 225 | 56.5 | 398 |
| Rajanpur | 78 | 61.9 | 48 | 38.1 | 126 |
| Rawalpindi | 731 | 62.6 | 437 | 37.4 | 1,168 |
| Sahiwal | 194 | 55.0 | 159 | 45.0 | 353 |
| Sargodha | 226 | 51.7 | 211 | 48.3 | 437 |
| Sheikhupura | 360 | 54.8 | 297 | 45.2 | 657 |
| Sialkot | 142 | 51.6 | 133 | 48.4 | 275 |
| T.T Singh | 194 | 46.7 | 221 | 53.3 | 415 |
| Ve hari | 286 | 51.3 | 271 | 48.7 | 557 |
| Total | 8,820 | 53.0 | 7,820 | 47.0 | 16,640 |

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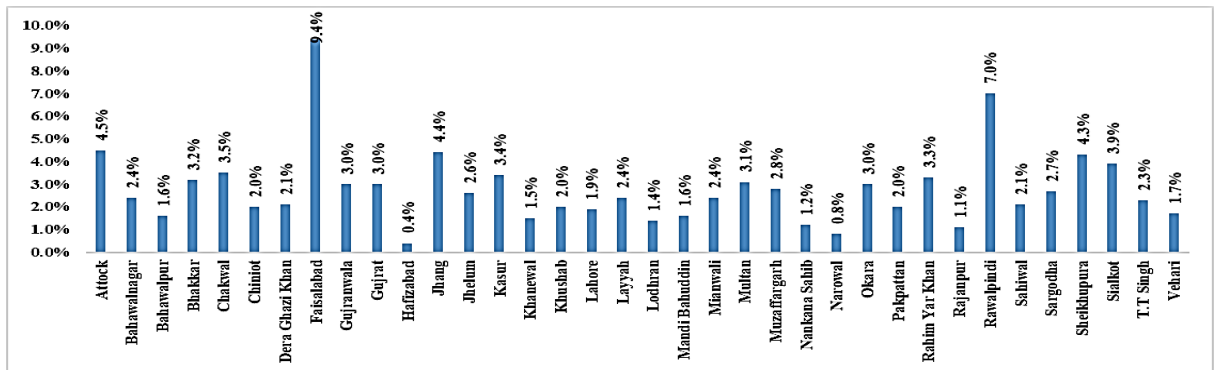
Table 47: District wise Blood Borne Disease burden Punjab

| District | Malaria | Hepatitis B | Hepatitis C | HIV | TB |
|------------------------|----------------|--------------------|--------------------|--------------|--------------|
| Attock | 0.03% | 0.60% | 3.80% | 0.01% | 1.40% |
| Bahawalnagar | 0.03% | 1.30% | 8.10% | 0.01% | 1.30% |
| Bahawalpur | 0.03% | 1.70% | 14.80% | 0.01% | 2.90% |
| Bhakkar | 0.08% | 0.80% | 4.70% | 0% | 3.40% |
| Chakwal | 0.19% | 0.60% | 3.90% | 0.07% | 2.10% |
| Chiniot | 0.03% | 1.30% | 23.10% | 0.06% | 3.20% |
| Dera Ghazi Khan | 0.38% | 6.70% | 4.90% | 0% | 2.50% |
| Faisalabad | 0.03% | 0.90% | 24.10% | 0.07% | 2.20% |
| Gujranwala | 0.06% | 0.80% | 13.20% | 0.01% | 0.70% |
| Gujrat | 0.02% | 1.00% | 14.90% | 0.02% | 1.60% |
| Hafizabad | 0.11% | 1.50% | 35.20% | 0% | 0.50% |
| Jhang | 0.10% | 3.20% | 14.50% | 0.10% | 1.90% |
| Jhelum | 0.07% | 0.70% | 3.90% | 0.07% | 1.70% |
| Kasur | 0.03% | 0.70% | 10.20% | 0.01% | 2.50% |
| Khane wal | 0.06% | 1.60% | 23.10% | 0.01% | 3.50% |
| Khushab | 0.06% | 0.90% | 7.30% | 0.07% | 1.30% |
| Lahore | 0.12% | 0.70% | 12.00% | 0.04% | 3.90% |
| Layyah | 0.03% | 1.80% | 7.00% | 0.02% | 2.80% |
| Lodhran | 0.09% | 2.30% | 19.20% | 0.02% | 2.70% |
| Mandi Bahuddin | 0.09% | 1.00% | 14.50% | 0.06% | 2.40% |
| Mianwali | 0.03% | 1.10% | 3.20% | 0.01% | 1.90% |
| Multan | 0.04% | 2.10% | 21.20% | 0.01% | 2.90% |
| Muzaffargarh | 0.06% | 4.00% | 11.40% | 0.02% | 2.10% |
| Nankana Sahib | 0.01% | 1.50% | 31.50% | 0.31% | 1.40% |
| Narowal | 0.07% | 0.80% | 5.40% | 0.05% | 1.10% |
| Okara | 0.17% | 2.00% | 18.40% | 0.66% | 2.10% |
| Pakpattan | 0.01% | 1.20% | 21.00% | 0.01% | 2.20% |
| Rahim Yar Khan | 0.08% | 2.50% | 19.30% | 0.02% | 1.40% |
| Rajanpur | 0.03% | 4.90% | 7.10% | 0.06% | 1.10% |
| Rawalpindi | 0.10% | 0.90% | 7.30% | 0.02% | 3.70% |
| Sahiwal | 0.11% | 1.00% | 21.50% | 0.01% | 1.70% |
| Sargodha | 0.16% | 1.90% | 19.00% | 0.01% | 1.50% |
| Sheikhupura | 0.10% | 0.90% | 15.10% | 0.03% | 2.50% |
| Sialkot | 0.02% | 0.90% | 14.30% | 0% | 1.20% |
| T.T Singh | 0.06% | 1.30% | 24.10% | 0.01% | 2.00% |
| Vehari | 0.07% | 1.60% | 23.20% | 0.02% | 2.00% |
| Total | 0.07% | 1.60% | 14.80% | 0.06% | 2.10% |

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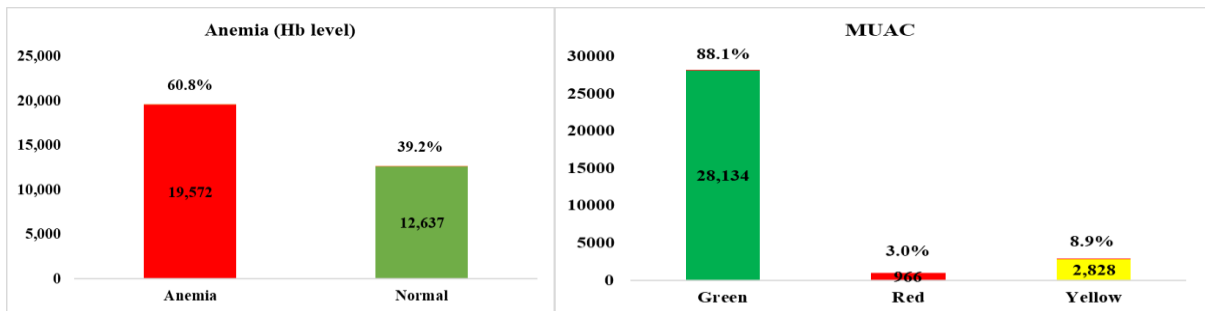
5.5.2 Screening of Pregnant Ladies

During the second health week a total of 38,467 women were screened across Punjab and given antenatal care.



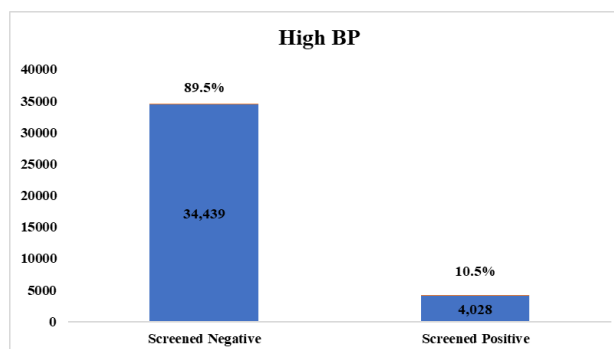
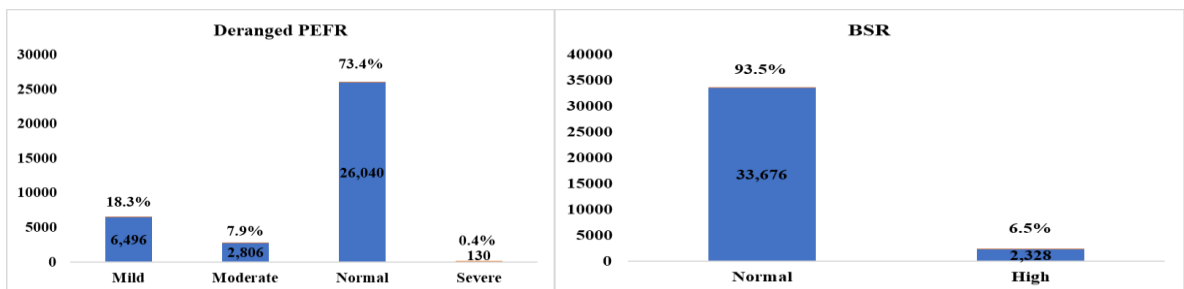
District wise Distribution of women given antenatal care (n = 38,467)

60.8% pregnant ladies were found to be anaemic, 8.9% were moderately malnourished and 3.0% were severely malnourished.



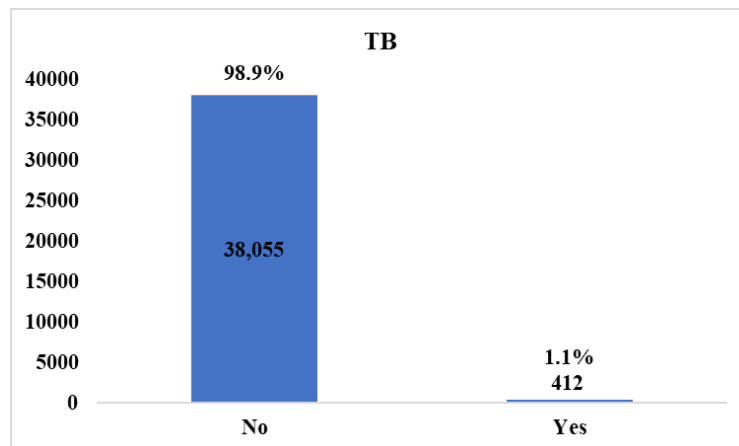
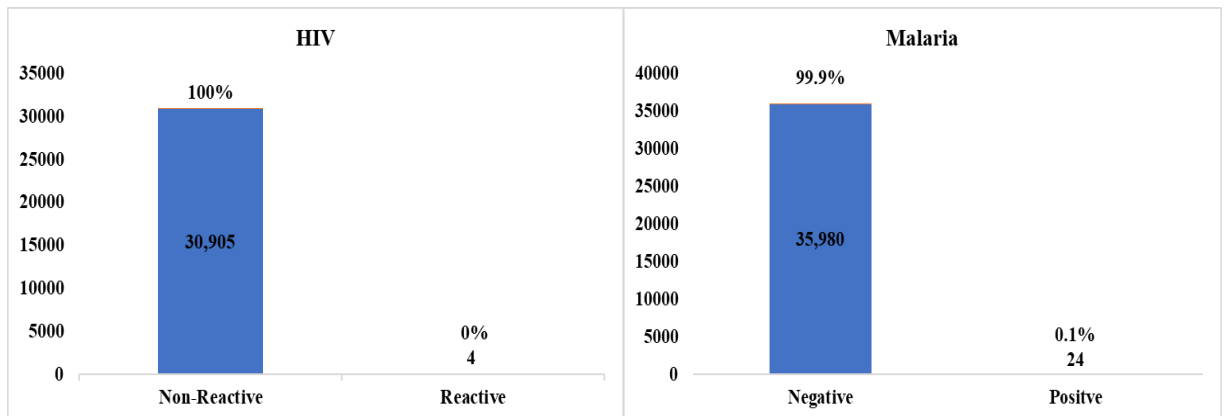
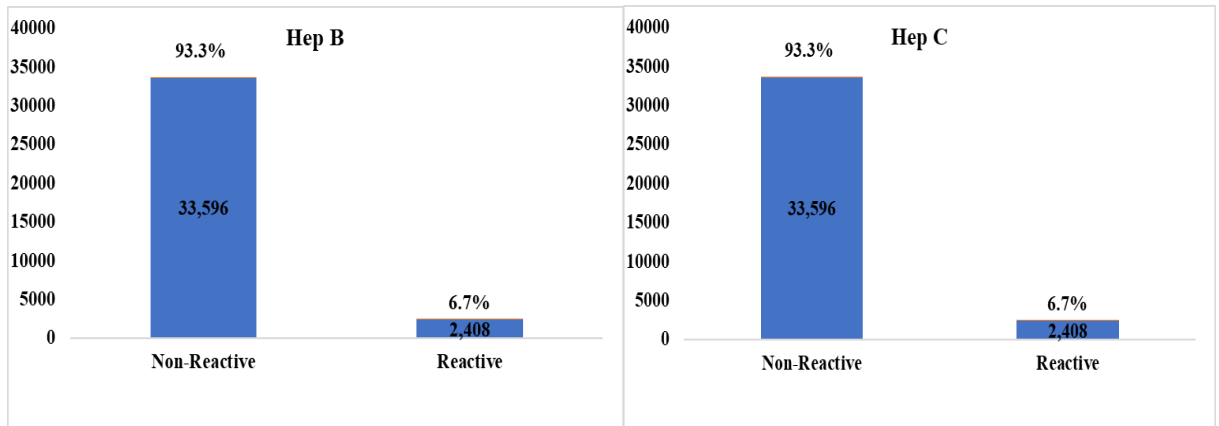
Nutritional Status

26.6% of pregnant ladies were found with deranged PEFR, BSR was high in 6.5% pregnant ladies whereas 10.5% pregnant ladies had high BP.



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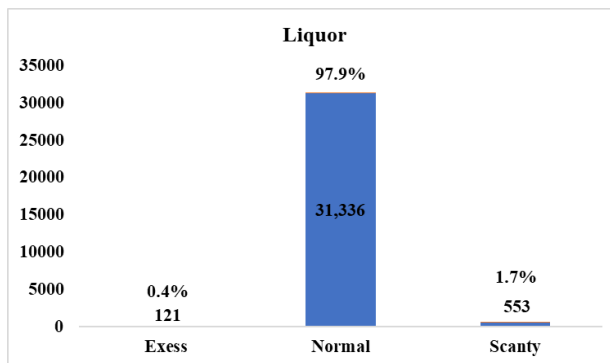
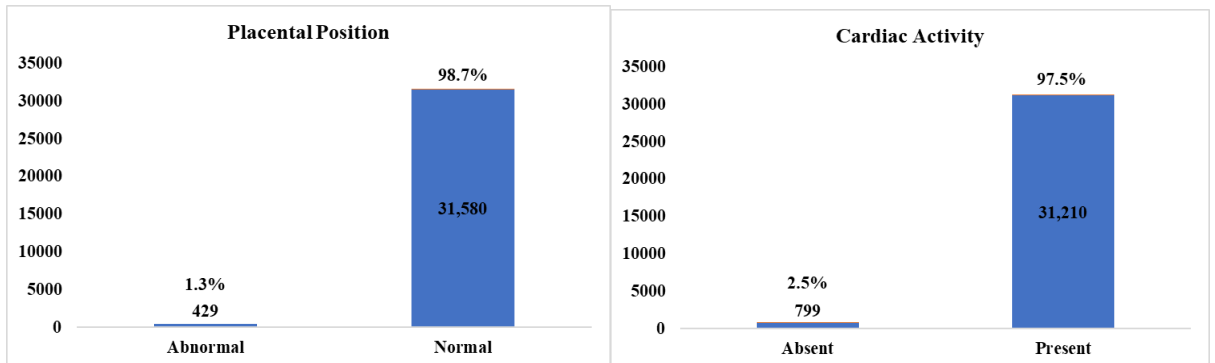
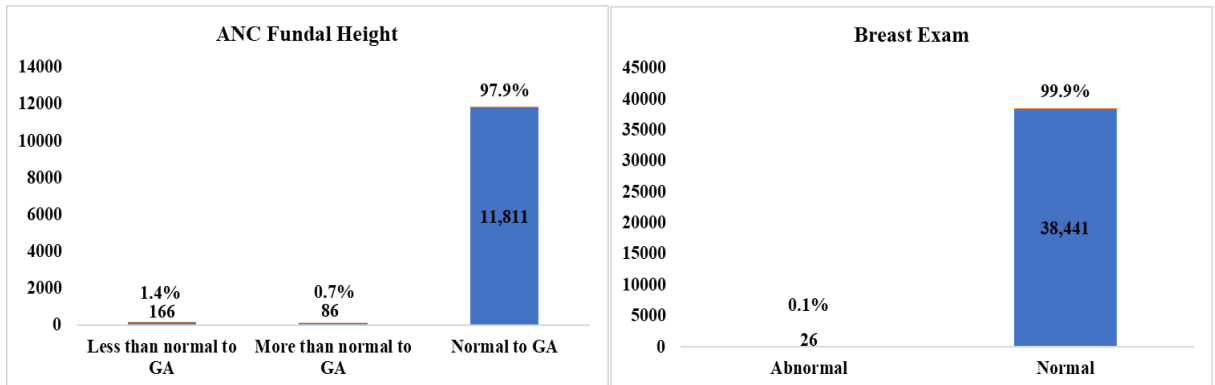
6.7% of the pregnant women were hepatitis B suspects which were found reactive for HBsAg antigen. 6.7% were found reactive for Hepatitis C, 0.00% (4 cases) for HIV and 0.1% were screened positive for malaria. TB suspects accounted for 0.1% of the pregnant women. Out of the 4 reactive cases screened for HIV, 25% were found positive again on repeat test.



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Antenatal Check up

The pregnant ladies screened during second health week were given antenatal check-up at Step-7 ANC counter. On Ultra Sonography pregnancy of 97.9% women were normal to GA, 0.7% was more than normal to GA and 1.4% women were having pregnancy less than normal to GA. Only 0.1% were screened for abnormality during breast screening while 99.9% were normal. Placental position was found to be normal in 98.7% women while 1.3% were screened for an abnormality in position. Cardiac activity of the foetus was present in 97.5% of the women screened while it was absent in 2.5% of them. Liquor was normal in 97.9% of the women, whereas it was in excess in 0.4% of cases, and was scanty in 1.7% of the pregnant women being screened.



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5.5.3 Pediatrics (<14 Years of Age)

Mean age of children < 5 years (n= 23,531) reporting to screening camp was 2.10 (±1.425) years. Of these 55% were males and 45% were females. For age group 5-14, the mean age was 9.07(±2.631) years. Out of which, 52.2% were males and 47.8% were females.

Out of children age < 5 years, 86.4% of the children measured for MUAC were in the Green category, 9.9% were in Yellow and 3.7% were in the Red category. Children below 2 years were vaccinated for BCG (36.2%), OPV (77.6%), Penta (63.7%), PCV10 (59.1%) and measles (29%).

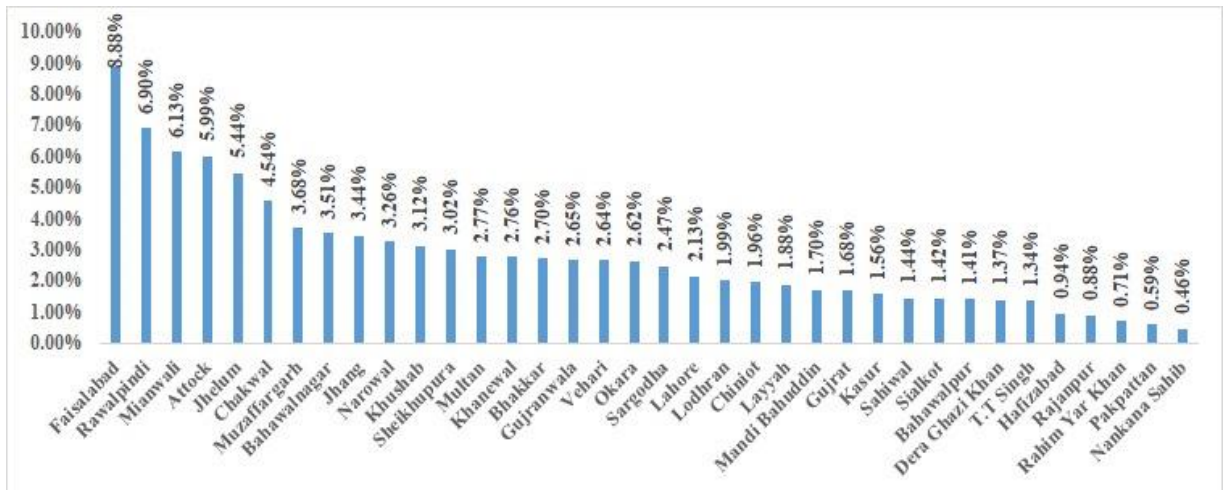


Figure 56: District wise Distribution of Paediatrics (<14 Years) Screened (n= 46,796)

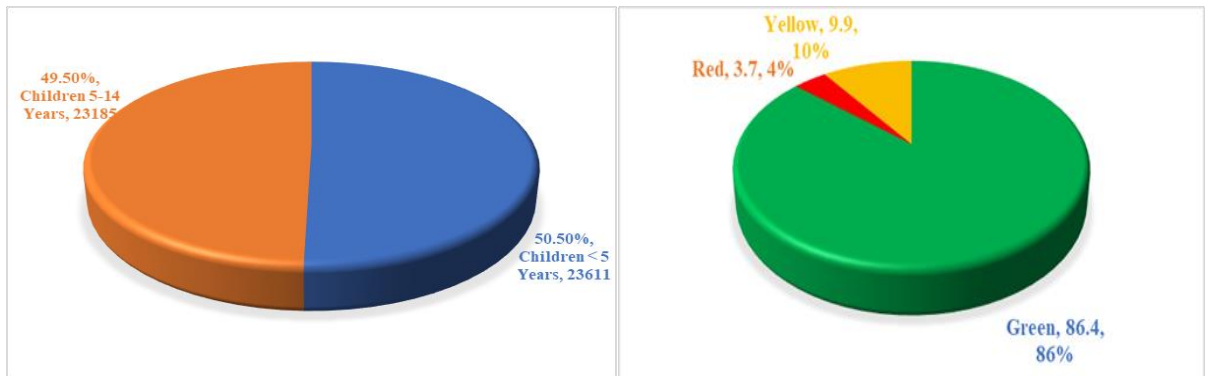


Figure 57: Age Distribution of Children (<14 Years)

Figure 58: Results of MUAC in Children Screened

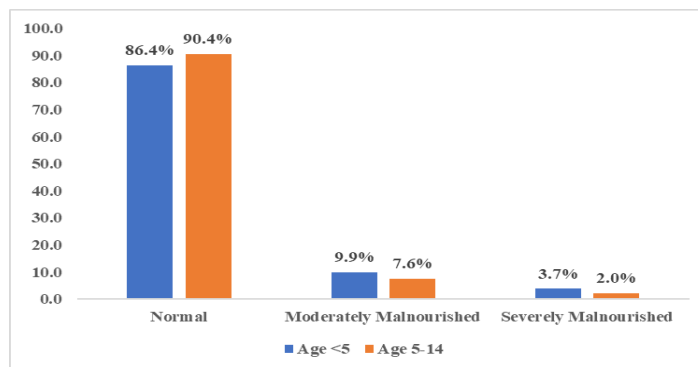


Figure 59: Results of Nutritional Status in Children Screened

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Table 48: District wise Age Distribution of Paediatrics (<14 Years) Screened Punjab

| District | <5 Years | | 5-14 Years | | Total Children <14 |
|-----------------|---------------|-------------|---------------|-------------|--------------------|
| | Frequency | % | Frequency | % | |
| Attock | 1,748 | 62.4 | 1,053 | 37.6 | 2,801 |
| Bahawalnagar | 932 | 56.7 | 711 | 43.3 | 1,643 |
| Bahawalpur | 359 | 54.3 | 302 | 45.7 | 661 |
| Bhakkar | 728 | 57.6 | 536 | 42.4 | 1,264 |
| Chakwal | 1,133 | 53.3 | 993 | 46.7 | 2,126 |
| Chiniot | 451 | 49.2 | 466 | 50.8 | 917 |
| Dera Ghazi Khan | 409 | 63.9 | 231 | 36.1 | 640 |
| Faisalabad | 1,790 | 43.1 | 2,364 | 56.9 | 4,154 |
| Gujranwala | 496 | 39.9 | 746 | 60.1 | 1,242 |
| Gujrat | 359 | 45.6 | 428 | 54.4 | 787 |
| Hafizabad | 141 | 32 | 300 | 68 | 441 |
| Jhang | 681 | 42.3 | 928 | 57.7 | 1,609 |
| Jhelum | 1,139 | 44.7 | 1,408 | 55.3 | 2,547 |
| Kasur | 378 | 51.8 | 352 | 48.2 | 730 |
| Khane wal | 660 | 51.1 | 631 | 48.9 | 1,291 |
| Khushab | 791 | 54.1 | 670 | 45.9 | 1,461 |
| Lahore | 724 | 72.5 | 275 | 27.5 | 999 |
| Layyah | 362 | 41.2 | 516 | 58.8 | 878 |
| Lodhran | 449 | 48.1 | 484 | 51.9 | 933 |
| Mandi Bahuddin | 297 | 37.3 | 500 | 62.7 | 797 |
| Mianwali | 1,365 | 47.6 | 1,504 | 52.4 | 2,869 |
| Multan | 526 | 40.5 | 772 | 59.5 | 1,298 |
| Muzaffargarh | 684 | 39.7 | 1,039 | 60.3 | 1,723 |
| Nankana Sahib | 66 | 30.6 | 150 | 69.4 | 216 |
| Narowal | 720 | 47.2 | 804 | 52.8 | 1,524 |
| Okara | 601 | 49 | 625 | 51 | 1,226 |
| Pakpattan | 186 | 67.1 | 91 | 32.9 | 277 |
| Rahim Yar Khan | 128 | 38.6 | 204 | 61.4 | 332 |
| Rajanpur | 160 | 38.8 | 252 | 61.2 | 412 |
| Rawalpindi | 2,158 | 66.8 | 1,072 | 33.2 | 3,230 |
| Sahiwal | 289 | 42.9 | 384 | 57.1 | 673 |
| Sargodha | 474 | 41.1 | 680 | 58.9 | 1,154 |
| Sheikhupura | 897 | 63.5 | 515 | 36.5 | 1,412 |
| Sialkot | 429 | 64.4 | 237 | 35.6 | 666 |
| T.T Singh | 265 | 42.3 | 362 | 57.7 | 627 |
| Vehari | 636 | 51.5 | 600 | 48.5 | 1,236 |
| Total | 23,611 | 50.5 | 23,185 | 49.5 | 46,796 |

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Table 49: District wise Results of MUAC (Paediatrics <14 Years) Punjab

| District | Green | | Red | | Yellow | | Total |
|-----------------|---------------|---------------|------------|--------------|-------------|--------------|---------------|
| | Frequency | % | Frequency | % | Frequency | % | |
| Attock | 1669 | 95.50% | 5 | 0.30% | 74 | 4.20% | 1748 |
| Bahawalnagar | 703 | 75.40% | 46 | 4.90% | 183 | 19.60% | 932 |
| Bahawalpur | 288 | 80.20% | 36 | 10.00% | 35 | 9.70% | 359 |
| Bhakkar | 628 | 86.30% | 16 | 2.20% | 84 | 11.50% | 728 |
| Chakwal | 1071 | 94.50% | 17 | 1.50% | 45 | 4.00% | 1133 |
| Chiniot | 345 | 76.50% | 95 | 21.10% | 11 | 2.40% | 451 |
| Dera Ghazi Khan | 356 | 87.00% | 9 | 2.20% | 44 | 10.80% | 409 |
| Faisalabad | 1438 | 80.30% | 40 | 2.20% | 312 | 17.40% | 1790 |
| Gujranwala | 469 | 94.60% | 7 | 1.40% | 20 | 4.00% | 496 |
| Gujrat | 333 | 92.80% | 3 | 0.80% | 23 | 6.40% | 359 |
| Hafizabad | 95 | 67.40% | 24 | 17.00% | 22 | 15.60% | 141 |
| Jhang | 626 | 91.90% | 15 | 2.20% | 40 | 5.90% | 681 |
| Jhelum | 1045 | 91.70% | 10 | 0.90% | 84 | 7.40% | 1139 |
| Kasur | 252 | 66.70% | 24 | 6.30% | 102 | 27.00% | 378 |
| Khane wal | 582 | 88.20% | 14 | 2.10% | 64 | 9.70% | 660 |
| Khushab | 684 | 86.50% | 16 | 2.00% | 91 | 11.50% | 791 |
| Lahore | 495 | 68.40% | 68 | 9.40% | 161 | 22.20% | 724 |
| Layyah | 330 | 91.20% | 11 | 3.00% | 21 | 5.80% | 362 |
| Lodhran | 362 | 80.60% | 22 | 4.90% | 65 | 14.50% | 449 |
| Mandi Bahuddin | 260 | 87.50% | 15 | 5.10% | 22 | 7.40% | 297 |
| Mianwali | 1258 | 92.20% | 10 | 0.70% | 97 | 7.10% | 1365 |
| Multan | 469 | 89.20% | 13 | 2.50% | 44 | 8.40% | 526 |
| Muzaffargarh | 645 | 94.30% | 9 | 1.30% | 30 | 4.40% | 684 |
| Nankana Sahib | 37 | 56.10% | 7 | 10.60% | 22 | 33.30% | 66 |
| Narowal | 682 | 94.70% | 10 | 1.40% | 28 | 3.90% | 720 |
| Okara | 559 | 93.00% | 12 | 2.00% | 30 | 5.00% | 601 |
| Pakpattan | 174 | 93.50% | 2 | 1.10% | 10 | 5.40% | 186 |
| Rahim Yar Khan | 108 | 84.40% | 8 | 6.30% | 12 | 9.40% | 128 |
| Rajanpur | 138 | 86.30% | 5 | 3.10% | 17 | 10.60% | 160 |
| Rawalpindi | 1858 | 86.10% | 167 | 7.70% | 133 | 6.20% | 2158 |
| Sahiwal | 243 | 84.10% | 4 | 1.40% | 42 | 14.50% | 289 |
| Sargodha | 317 | 66.90% | 78 | 16.50% | 79 | 16.70% | 474 |
| Sheikhupura | 728 | 81.20% | 41 | 4.60% | 128 | 14.30% | 897 |
| Sialkot | 380 | 88.60% | 10 | 2.30% | 39 | 9.10% | 429 |
| T.T Singh | 233 | 87.90% | 4 | 1.50% | 28 | 10.60% | 265 |
| Vehari | 546 | 86.00% | 5 | 0.80% | 84 | 13.20% | 635 |
| Total | 20,406 | 86.40% | 878 | 3.70% | 2326 | 9.90% | 23,610 |

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5.5.4 Comparison with First Health Week (August 2017)

The results of Health Week 2 (February 2018) (n=846,343) were compared with results of screening on same pattern through Integrated Screening Camps done during Health Week 2017 (n=326,721).

It was observed that the population screened during Health Week 2 was more overweight (48.5%) and abdominally obese (73.2%) as compared to general population screened during Health Week 1. The frequency of BMI<18 was less in Health Week 2 population screened than in Health Week 1.

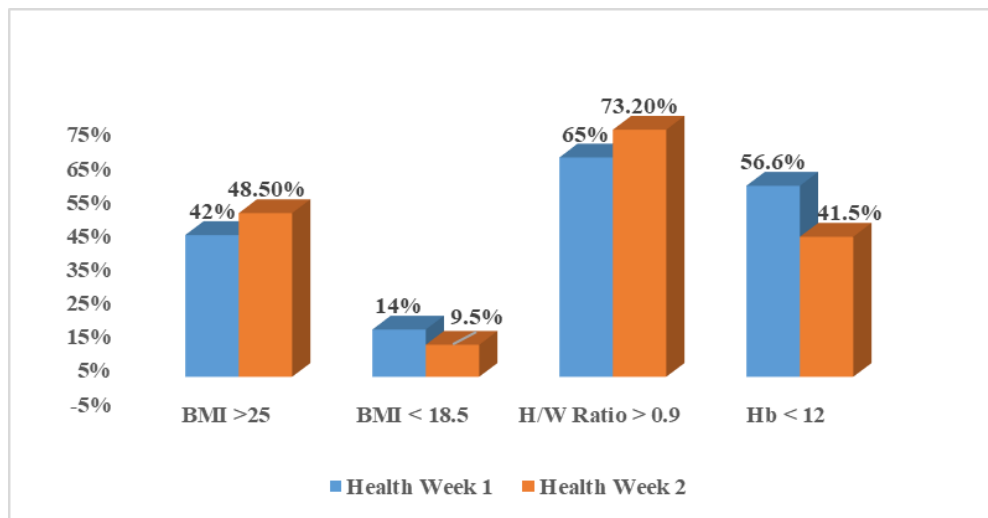


Figure 60: Nutritional Status Comparison – Health Week 1 vs Health Week 2

Similarly raised BP was more in Health Week 2 (21.53%) while Deranged PEFR was significantly high (41%) in general population screened during Health Week 1. High BSR was slightly more in Health Week 1 as compared to the screened population of Health Week 2.

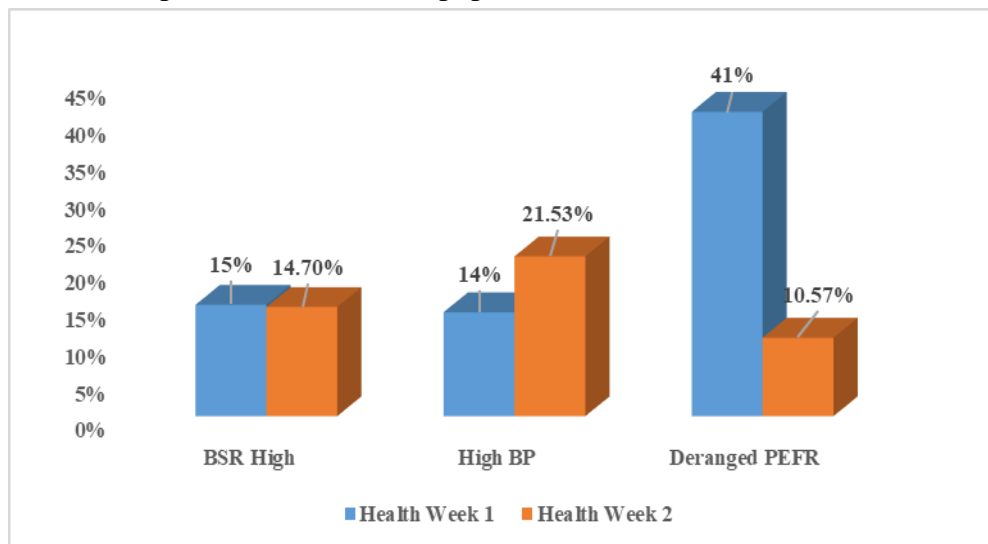


Figure 61: NCDs Comparison – Health Week 1 vs Health Week 2

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All blood borne infectious diseases were count to be more in Health Week 1 than in Health Week 2 except there were slightly high TB suspects in Health Week 2.

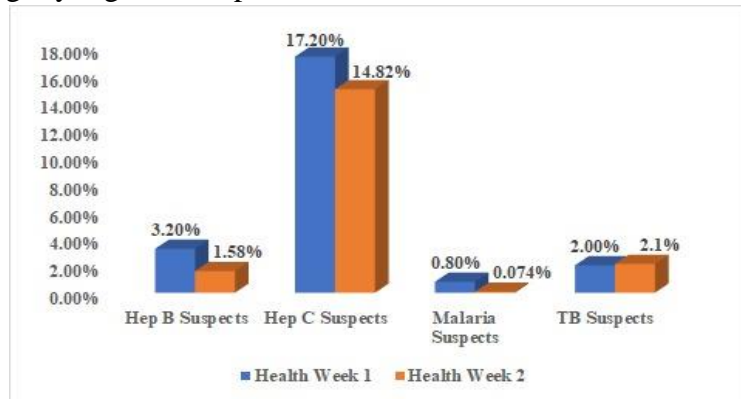


Figure 62: Blood Borne Diseases– Health Week 1 vs Health Week 2

5.5.5 District-wise Comparison of Health Week 1 and 2

High BP

There was a significant increase in high BP in all districts of Punjab during Health Week2 as compared to Health week1.

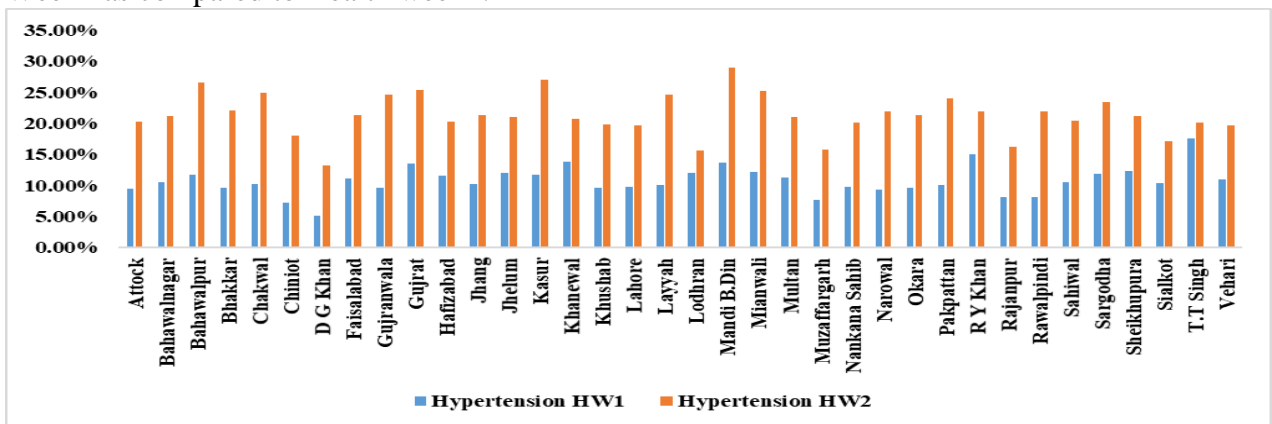


Figure 63: High BP-District wise change in Frequency of Health week1 and Health Week 2

BSR

District-wise pattern of high BSR during Health Week1 and 2 is shown below. Bahawalnagar, Chakwal, Chiniot, Gujranwala, Kasur, Lahore, Mianwali, Muzaffargarh, Narowal and Sheikhupura showed an increase in High BSR cases during Health Week 2.

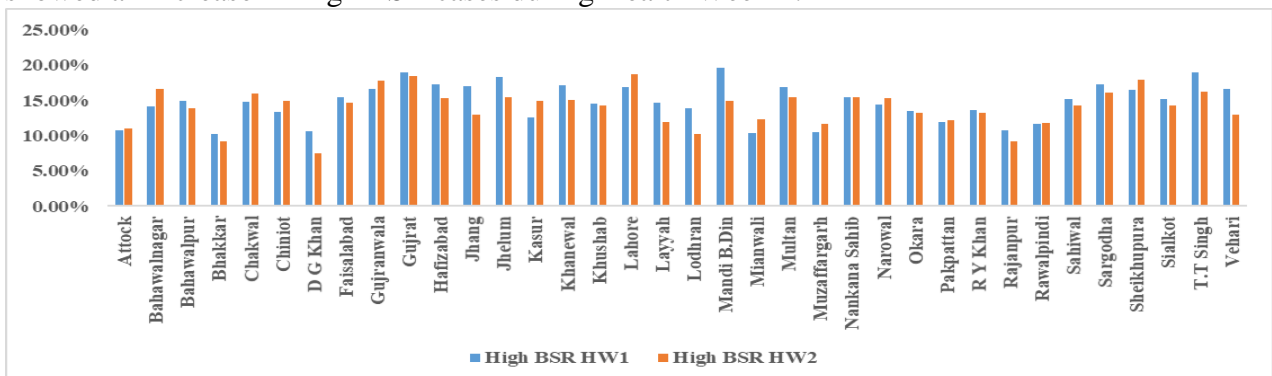


Figure 64: High BSR-District wise change in Frequency of Health week1 and Health Week 2

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BMI>25

Almost all the districts showed an increasing trend of overweight BMI during Health week2.

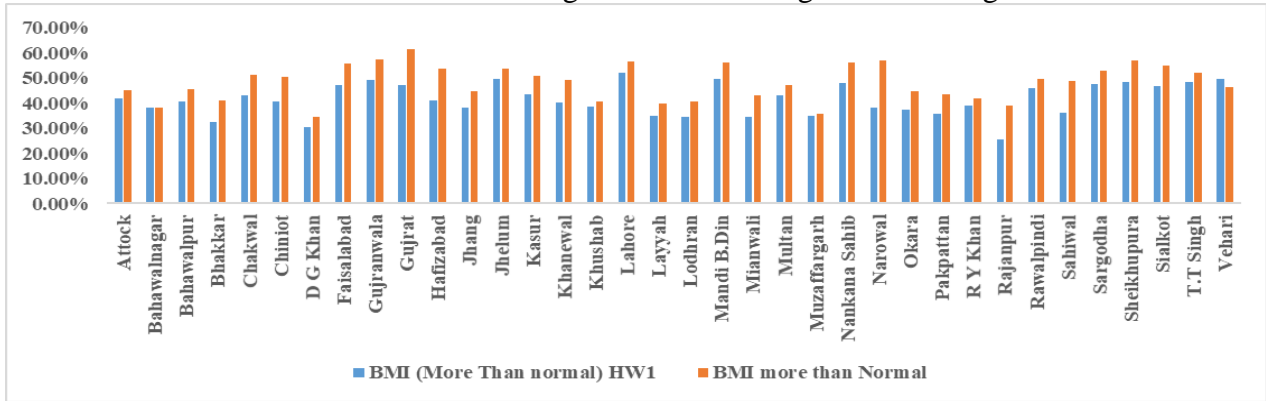


Figure 65: BMI Overweight-District wise change in Frequency of Health week1 and Health Week 2

Anaemia

The population of Health Week2 was found less anaemic as compared to screened population of Health Week1.

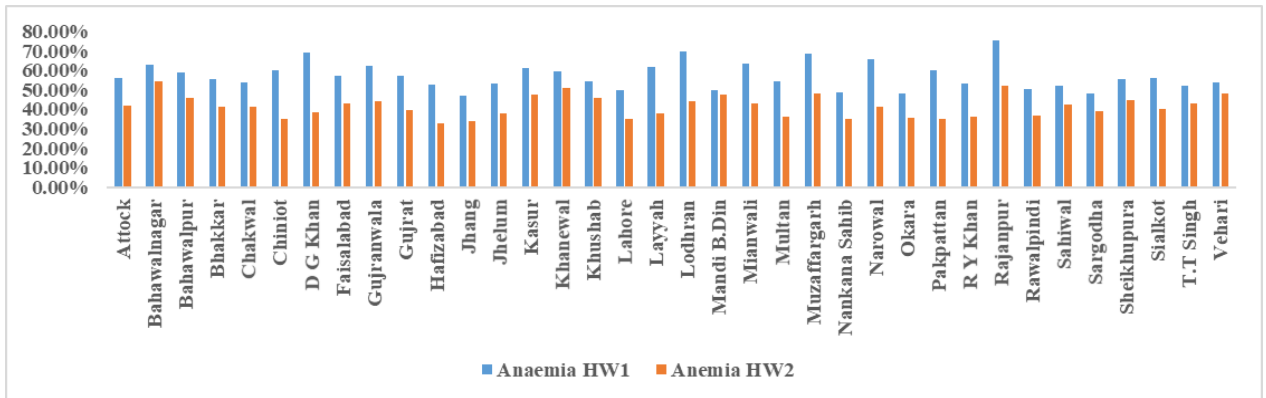


Figure 66: Anaemia-District wise change in Frequency of Health week1 and Health Week 2

Deranged PEFR

There was a significant decrease in number of cases having deranged PEFR during Health Week2 as compared to Health Week1.

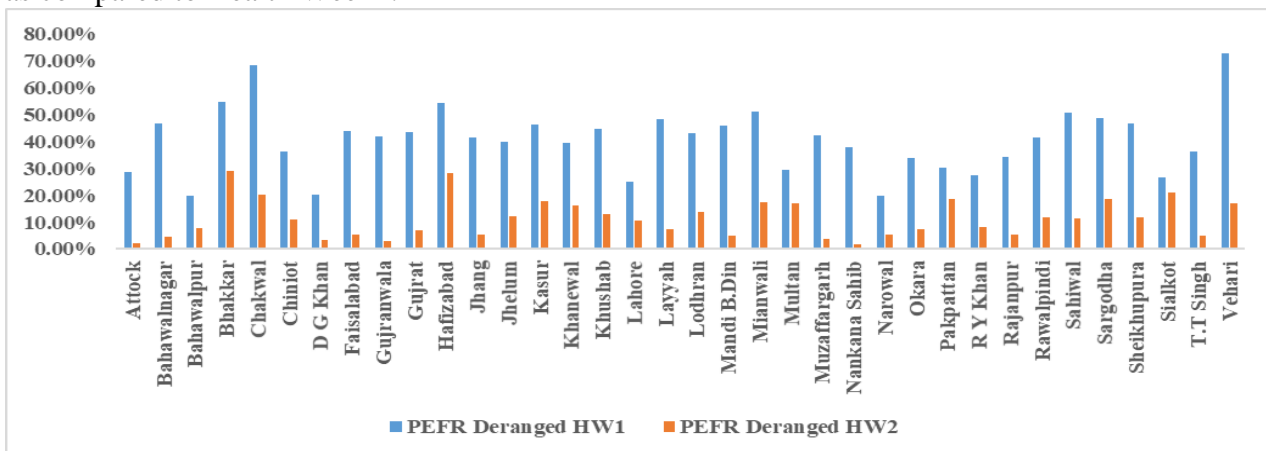


Figure 67: Deranged PEFR-District wise change in Frequency of Health week1 and Health Week 2

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Malaria

There were significantly low cases of malaria during Health Week2 as compared to Health Week1.

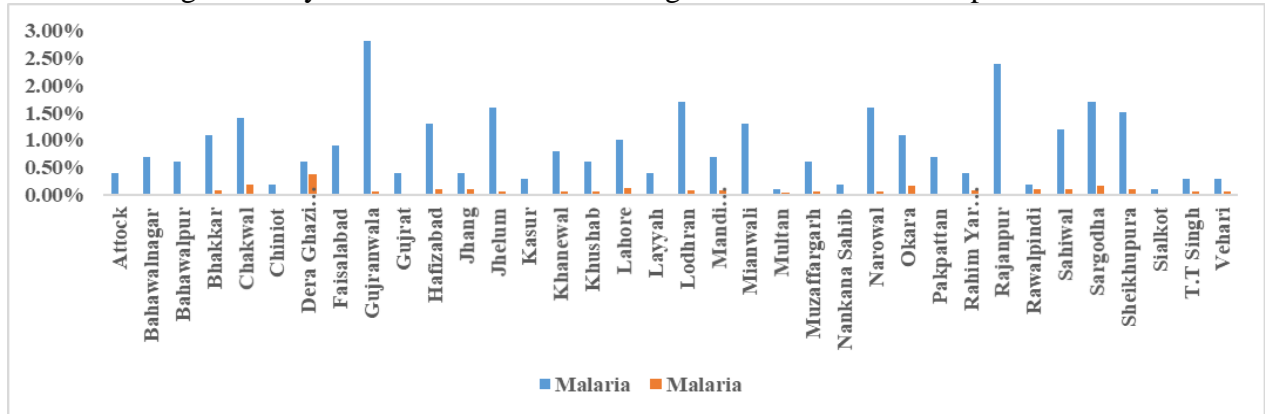


Figure 68: Malaria-District wise change in Frequency of Health week1 and Health Week 2

Hepatitis B

There was a slight decreasing trend of Hepatitis B reactive cases during Health Week2 as compared to Health Week1.

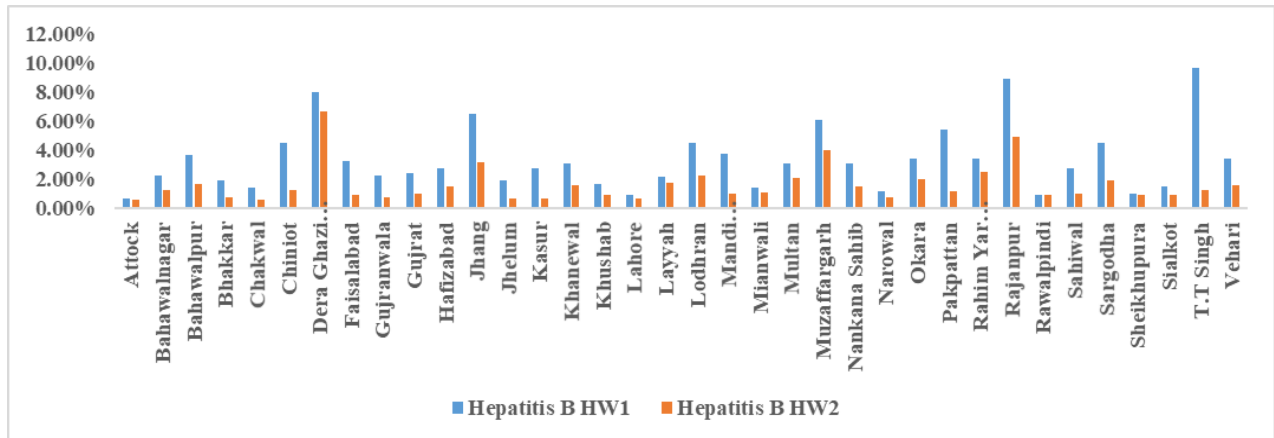


Figure 69: Hepatitis B-District wise change in Frequency of Health week1 and Health Week 2

Hepatitis C

There was a slight decreasing trend of Hepatitis C reactive cases during Health Week2 as compared to Health Week1.

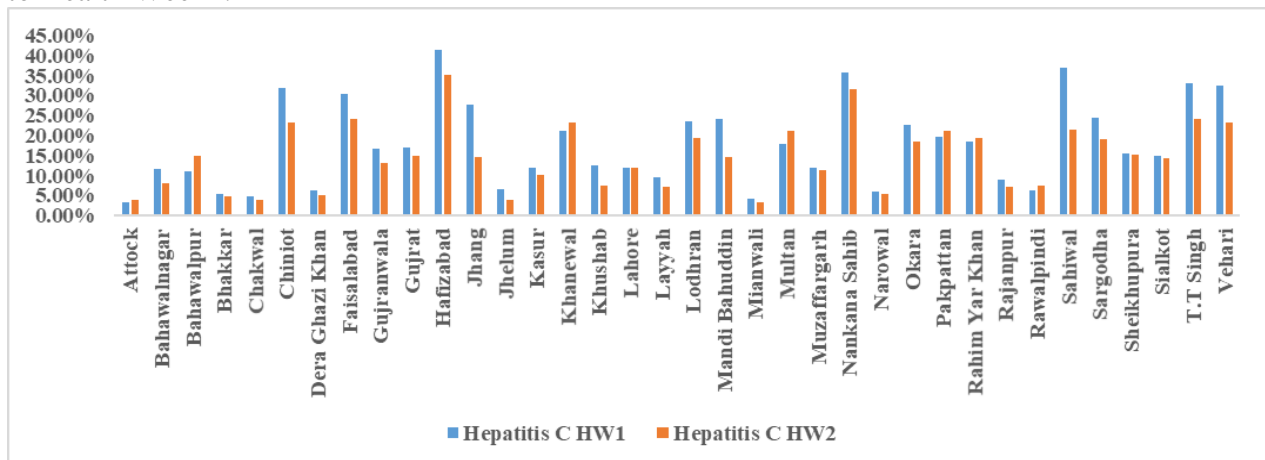


Figure 70: Hepatitis C-District wise change in Frequency of Health week1 and Health Week 2

6 Community Based Activity

IRMNCH & Nutrition Program, Department of Primary and Secondary Health Care celebrated the Mother & Child Health Week across all 36 districts as a part of the Health Week 2018 (19th to 24th Feb). The community component of this week was focused on maternal and child health and nutrition and was implemented through all the Lady Health Workers in their covered areas; and in un-covered areas where possible. The theme of this week at community level was **awareness on diarrhea prevention and treatment**.

The Lady Health Workers moved from door to door during the health week and provide relevant services to target population at household level. The LHWs pre-registered children under five years for deworming a week prior to the start of health week activities. This helps them in easy identification of children later for deworming during the week. During the week, when the LHW visits a household, she marks the door with a chalk using standard format. The door marking includes date of visit, number of children (due/ defaulter) vs number vaccinated, number of children dewormed in the household and number of women given TT vaccine.

A new initiative taken during this round of the Health Week was deworming of school going children through SHNS and deworming of adolescent girls who were not going to schools.

A brief description of the activities is mentioned below:

1. Immunization

- a. Immunization of children 0 to 2 years of age: LHWs identified due and defaulter children and established linkage with the vaccinator for immunization of the identified children. Mobile immunization stations were set-up by the vaccinators in each LHW covered area as per schedule given by the district in the micro-plan.
- b. T.T. Vaccination for all pregnant women: All pregnant women who had not received TT vaccination were identified by the LHWs and vaccinated by the vaccinator.

Achievements in immunization

3 lac 56 thousand children were vaccinated during the week

167 thousand women were given TT vaccine during the week

2. Deworming

- Deworming at Community:
 - a. LHWs pre-registered the children aged 2-5 years before the start of health week.
 - b. All children aged 2-5 years registered by the LHWs were dewormed by them under their own supervision. Mebendazole tablets were provided to each LHW in sufficient quantity for this purpose.

Deworming of Adolescent Girls

1.4 million Adolescent Girls Dewormed through LHWs at household level

Deworming Exercise by LHWs

Over 3 million children were dewormed during the health week through door to door campaign

3. Deworming at Schools.

- a. All Students were dewormed through SHNS in the rural areas. All public schools of Punjab were targeted during health week for deworming and awareness campaigns.

Deworming Exercise by SHNSs

1.1 million students were dewormed in 7512 Schools during Health week

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4. Iron Tablets for pregnant and lactating women

- a. LHWs identified anemic PLWs in their catchment areas and counseled them on increasing intake of iron rich foods available to them

Provision of Iron tablet to women

7 million tablets were distributed among pregnant and lactating women by the LHWs.

- b. Provision of iron tablets to the women who were identified as anemic by LHW was also done

5. Nutrition Screening

- a. Screening of 100% PLWs by LHWs using MUAC tapes was done; total number of women screened were 1,343,953
- b. Screening of 100% children using MUAC tapes was done.
- c. Screening of Adolescent Girls (10-19 Yrs.) by LHWs: 1.6 million Girls screened and out of which 90 thousand Adolescent Girls were identified as Anemic. These girls were provided with Iron Tablet and further referred to health facilities for follow-up.

| Nutrition Screening (Women) | Nutrition Screening (Adolescent Girls) | Nutrition Screening (Children) |
|--|--|--|
| 1.3 million Pregnant & Lactating women were screened out of which 72 thousand MAM cases were identified and counseled regarding balanced diet and increased dietary requirements during pregnancy and lactation. | 1.6 Million Adolescent Girls (Age 10-19) Years screened for Anemia and out of which 90 thousand identified as Anemic | 5.8 million children were screened during the week. Out of these, 32 thousand SAM and 318 thousand MAM children were identified and referred to OTPs for further management. |

6. Health Education Sessions

- a. LHWs organized health education sessions in their catchment area; one session per day
- b. Two priority topics for the health education session during this round were:
 - i. Diarrhea prevention
 - ii. Importance of breast feeding (early initiation, exclusive and IYCF)
- c. LHWs also raised awareness about 1034 ambulance service during these sessions
- d. Moreover, the LHWs also highlighted the importance of antenatal care, skilled birth attendance, hand hygiene, use of safe drinking water, etc.
- e. Total participation in health education session was approximately 2.9 million women, including pregnant and lactating women as well. In some areas, electronic media was also used for this purpose whereby LHWs / LHSs displayed awareness videos through use of laptops, DVD players and portable projectors.
- f. Diarrhea Prevention and Management
 - i. LHWs gave orientation to all households (during health educations sessions) regarding preparation of LoORS, use of LoORS and Zinc Sulphate during diarrhea
 - ii. LHWs also provided LoORS and Zinc Sulphate syrup to households where a diarrhea child was found during her visit
- g. Family Planning
 - i. LHWs visited every eligible couple in their catchment area and counselled the women on healthy timing and spacing of pregnancy; and informed about available services and how to access them
 - ii. LHWs also provided condoms, oral contraceptive pills and injectable contraceptives to women who were willing to use any of these methods.

Health Session Participations

Approximately 2.9 million women participated in the health education sessions

7 Output - Health Week

- Basic Demographic & Health Profile database of around 850,000 People
- Screening of around 800,000 adults for Nutritional status, Anaemia, Diabetes, Hypertension, Asthma, COPD, Hepatitis B, C, HIV, TB & Malaria
- Hepatitis B vaccination of around 650,000 adults
- Tetanus vaccination of more than 200,000 Females
- Routine EPI vaccination of more than 400,000 children according to age
- Deworming of more than 3,000,000 children above 5 years of age
- 5.8 Million Children screened for malnutrition
- Antenatal check-up of approx. 40,000 pregnant ladies

8 Expected Outcomes

- Provision of diagnostic and curative services to all the screened positive cases thus lowering the respective disease burden.
- The subject activity is expected to bring change in the health seeking behaviours among beneficiaries and their families especially regarding life style modifications, importance of early disease screening and seeking medical care at the initial stages of diseases instead of ending up in a tertiary care hospital with complications of disease.
- Reduced patient burden on tertiary healthcare system thus lowering the cost related to management of disease complications.

9 Limitations

The health week activity was a well-coordinated and organized activity in all districts of Punjab. However, considering the scale of activity involving over 700 health facilities and staff of various cadres and professional backgrounds, few glitches were not unexpected. As such, there were a few limitations in the screening activity procedures, data collection and analysis of the health week activity.

- Timely delivery of logistics was one of the major limitation especially for the remote areas. The limitation was addressed through timely planning, procurement and distribution of logistics. Though, timely provision of buffer stock to districts still remained a challenge.
- Direct and indirect costs involved in execution of the activity raised the toll of the financial liabilities on the part of the department and DHAs.
- HR designated for the health facilities was taken from the existing lot available which led to temporary suspension of routine health service delivery at some of the health facilities.
- Deworming campaign was suspended in last three days due to an episode of ADR associated with the use of Albendazole tablets.
- Incomplete collection and recording of screening data at screening desks leading to many NULL entries in the main database.

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- Cleaning of the enormous health week data was a difficult and strenuous task due to the large amount of data and coping with the above mentioned limitations. Cleaning was required for incomplete personal data, Null entries, incomplete entries, missing values, outliers, and various other issues.
- Inter-observer bias cannot be ruled out as the number of staff exceeds 5000 in number all over Punjab.

10 Way Forward

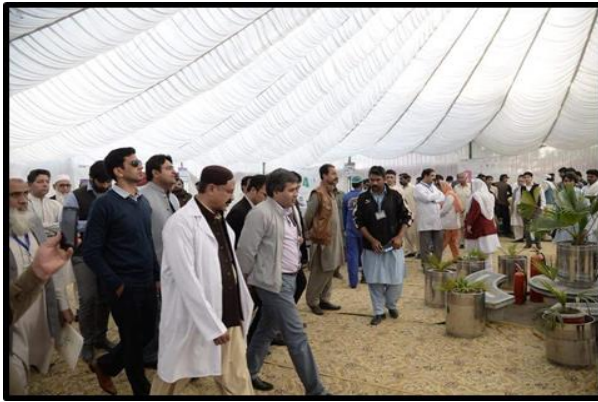
Health Week activity was planned as a concentrated activity in terms of time and resources. This mass level activity not only helped the community in terms of benefitting from standardized healthcare and screening services but also led to many lessons learnt on the part of the department. Following are major avenues to look forward and improvise.

- Collaboration between different social sector stake holders for enhancing the canvas of screening activity.
- Further Training of HR for district level management of screening activities in health facilities, and paramedics for physiological and serological screening.
- Conduct further screening activities to register remaining unknown cases of Infectious and Non Communicable Diseases among subject population.
- Ensure continuity of care for screened positive cases in terms of treatment of the diseases through existing health care system and vaccination of Hepatitis B and other vaccines under EPI for children.
- Enhance public awareness on healthy lifestyles, antenatal care and immunization by Health Education and Advocacy strategies.
- Central Database to be used for follow-up of screened positive patients
- Development of a new 3 in 1 app to be utilized for screening camps and NCD desks for simpler and efficient data entry
- Collaboration with HISDU for improvement in data entry and retrieval on dedicated high bandwidth servers.

11 Conclusion

Evidence suggest the success of integration efforts among various components of the healthcare such as MNCH, HIV/AIDS, EPI and non-communicable disease, though there is limited published literature available on the integration of 'Screening Programs' per se. As, screening against prioritized communicable and non-communicable diseases is becoming the need of time due to its proven efficacy in serving some essential functions such as early detection of cases and silent carriers of the diseases. Further, if early preventive and control measures are taken this can reduce burden of patients on the tertiary level of healthcare. Thus, establishment of integrated screening program shall serve not only to estimate the existing burden of disease, but can also play role in educating and counselling populations about evidence based risk reduction strategies. Surely this shall prove to be a sound step towards promoting comprehensive health & well-being among populations.

12 Picture Gallery



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Annex-A

List of Health Facilities

| DISTRICT (725 HF's) | DHQ Hospitals (26) | THQs (110) | RHCs (173) | BHUs (400) |
|--------------------------------|-----------------------------------|--|--|--|
| ATTOCK | ISFANDYAR BUKHARI HOSPITAL | FATEH JANG HASSANABDAL HAZRO JAND | RANGOO BAHTAR MAGHIAN | BHU MUSA BHU CHAKKI BHU KHUDDA BHU DHURNAL BHU AKHORI BHU MULLAH MANSOOR BHU JHAMAT BHU KHUNDA BHU GALI JAGEER |
| BAHAWALNAGAR | DHQ HOSPITAL | PINDI GHEB FORT ABBAS HAROONABAD MINCHANABAD | FAQEERWALI DAHARANWALA MADRISSA DUNGABUNGA KHICHIWALA MACLOAD GANJ | BHU AKBAR MARI NIHAL BHU 54 F BHU T.Q.SHAH BHU KOT HEMRAJ BHU165/7R BHU 98/F BHU 177/M BHU LALEKA BHU KABUTRI BHU RODA SINGH BHU MANHAR WALI BHU 20/G BHU 227/9R BHU 38/3R BHU 69/4R |
| BAHAWALPUR | - | AHMEDPUR EAST THQH HASILPUR THQH KHAIRPUR TAMEWALI THQH YAZMAN | KHANQAH SHARIF LAL SOHANRA QAIM PUR MUBARAKPUR HEAD RAJKAN UCH SHAREEF | BHU BASTI RANA IQBAL BHU HATHEJI BHU MARI SHEIKH SHUJAR BHU JAMALPUR BHU 1DNB BHU MEHRAB WALA BHU 88/F BHU BHELI BHU 91/DB BHU 153/M BHU 106/DB BHU JAMAL CHANNAR |
| BHAKKAR | DHQ HOSPITAL | DARYA KHAN KALLURKOT THQH MANKERA | RHC JANDANWALA RHC DULLEYWALA | BHU HASSAN SHAH BHU DAGGAR REHTAS BHU 67 ML BHU 63 DB BHU NOTAK |
| CHAKWAL | DHQ HOSPITAL | CHOA SAIDAN SHAH TALAGANG CITY TALAGANG KALAR KAHAR | RHC BALKASSAR BUCHAL KALAN RHC PIR PHULAI RHC TAMMON RHC JHATIA RHC LAWLA | BHU DAB BHU KARYALA BHU TEHI BHU MALHAL MUGHLAN BHU BHEEN BHU BHUAN BHU MUNARA BHU ROOPWAL BHU BUSHARAT |

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| | | | | |
|-------------------|-----------------|---|---|---|
| CHINIOT | DHQ HOSPITAL | THQH BHOWANA THQH LALIAN | RHC CHAK NO 14 JB RHC BARANA | BHU CHAK NO 126 JB BHU KANVEE WALA BHU KALRI BHU T.M SHAH BHU RAJOA |
| DG KHAN | - | THQH TAUNSA SHARIF | SARWAR WALI CHOTTI ZAREEN TIBBI QAISRANI SHADAN LUND RHC KOT CHUTTA | BHU MAKWAL BHU GHOUS ABAD BHU MANA AHMDANI BHU SAMEENA BHU CHABRI CH FORTMANRO CH SAKHI SARWER BHU LITRA |
| FAISALABAD | - | CHAK JHUMRA GOVT. GENERAL HOSPITAL SAMMANABAD CITY JARANWALA SAMUNDRI TANDLIANWALA | RHC 65/GB RHC DIJKOL RHC KANJWANI RHC 30/JB RHC 153/RB RHC KHURRIANWALA RHC SITIANA RHC MAMUKANJAN RHC 134 GB RHC 469 GB | BHU 189/RB BHU44/JB BHU 283/GB BHU404/GB BHU143/GB BHU 192/RB BHU 222/RB BHU 105/RB BHU 76/RB BHU 200/JB BHU 635/GB BHU 560/GB BHU 353/GB BHU 133/RB BHU 66/JB BHU 214/RB BHU 222/RB BHU 74 JB BHU 209 RB BHU 258 RB BHU 57 JB BHU 427 GB BHU 400 GB BHU 603 GB BHU 228 GB BHU 50 GB BHU 198 GB BHU 136 GB BHU 433 GB BHU 115 GB |
| GUJRANWALA | | THQH KAMOKE THQH NOWSHERA VIRKAN THQH WAZIRABAD | RHC DHONKAL RHC EMINABAD RHC ALI PUR CHATHA RHC WAHNDU RHC SOHDRA RHC GHAKHAR | BHU KALI SUBA BHU KALASKE BHU VERPAL CHATTHA BHU RAJA BHU GUNNA AUR BHU TATLY AALI BHU BOTALA SHARM SINGH BHU AROOP BHU NATT KALAN BHU NOKHAR BHU LALU PUR BHU BHATTIKE BHU MANDIALA TEGA BHU PAPNAKHA |

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| | | | | |
|------------------|-----------------|---|---|---|
| GUJRAT | | THQH KHARIAN SARAI ALAMGIR MAJOR SHABBIR SHARIF HOSP. | RHC TANDA RHC DAULAT NAGAR RHC LALAMUSA RHC DINGA RHC SARAI ALAMGIR | BHU MANDHAR BHU FATEHPUR BHU BESA BHU KHOKHAR BHU BHAGOWAL KHURD BHU KARRIANWALA BHU GORALA BHU GOLEKI BHU BAREELA SHARIF BHU LAKHANWAL BHU PASWAL BHU BAGRIANWALA BHU DANDI BIESA BHU GANJA BHU PANJAN KASSANA BHU KOHAAR |
| HAFIZABAD | DHQ HOSPITAL | THQH PINDI BHATTIAN | RHC VANIKE TARAR RHC JALALPUR BHATTIAN RHC KALI KI MANDI | BHU LAWARAY BHU KOT NAKA BHU KOT SARWAR BHU CHAK CHATTHA BHU KOT NAWAN BHU VINNI |
| JHANG | DHQ HOSPITAL | AHMADPUR SIAL THQH SHORKOT 18-HAZARI | RHC BAGH RHC HAVELI BAHADUR SHAH RHC HAVELI SHEIKH RAJU RHC KOT SHAKIR RHC GM RAJA | BHU KAKI NOU BHU MANDI SHA JEVNA BHU MALOHANA BHU MACHIWAL BHU SULTAN BAHU BHU KHANUANA BHU CHAK NO 446/JB BHU CHAK NO 482/JB BHU RASHID PUR |
| JHELUM | DHQ HOSPITAL | THQH PIND DADAN KHAN THQH SOHAWA | RHC DOMELI RHC JALAL PUR SHARIF RHC DINA RHC KHALAS PUR | BHU PAIL MIRZA BHU MOTA GHARBI BHU GU SINGH BHU JANGO RARYALA BHU DHARYALA JALAP BHU PANDORI BHU TOBA BHU KALA GUJRAN |
| KASUR | DHQ HOSPITAL | THQH CHUNIAN AZIZ BIBI THQH ROSHAN BHEELA THQH PATTOKI | RHC MUSTAFABAD RHC ELLAHABAD RHC HABIB ABAD RHC GANDA SINGH WALA RHC CHANGA MANGA RHC HALLA | BHU KOTAH BHU SERHALI KALAN BHU FATEH PUR BHU RAO KHAN WALA BHU JAMBER KHURAD BHU BHAMBA KALAN BHU PAKHOKI BHU GHELAN HITHAR BHU MOJO KEY BHU MADDAR C.N 26 BHU HUSSAIN WALA BHU KHAN KEY MORE |

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| | | | | |
|-----------------|-----------------|--|---|--|
| KHANEWAL | DHQ HOSPITAL | THQH JAHANIAN THQH KABIRWALA THQH MIAN CHANNU | RHC KACHA KHUH RHC TULAMBA RHC ABDUL HAKEEM RHC THATHA | BHU133/16-L BHU58/10-R BHU 9/V BHU NOURANG SHAH BHU9-GARH BHU 50/15-L BHU 157/10-R BHU SHAM KOT BHU 70/15L BHU 100/15L BHU 1/8R BHU KAKAR HATTA BHU QATAAL PUR |
| KHUSHAB | DHQ HOSPITAL | THQH KHUSHAB THQH NAUSHERA THQH NOORPUR THAL THQH QUAIDABAD | RHC PADHRAR RHC HADALI RHC RODA | BHU BIJAR BHU TALUKAR BHU UCHALI BHU KHURA BHU CHAN BHU SHUMMAR BHU BANDIAL BHU KATHA SAGHRAL BHU MAJOKA BHU CHAK NO 23/MB BHU GIROTE BHU JABBI BHU RAHDARI |
| LAHORE | | THQH, RAIWIND SHAHDARA HOSPITAL, LAHORE CITY SAMANABAD HOSPITAL 129 BEDDED HOSPITAL, MIAN MEER | RHC MANGA MANDI RHC CHUNG RHC BARKI | BHU HADYARA BHU LIDHER BHU DOGRAN KALLAN BHU ALI RAZA ABADA BHU KACHA BHU SHAHZADA BHU SHAMKE BHATYAN |
| LAYYAH | DHQ HOSPITAL | THQ THAL THQ FATEH PUR TRAUMA CENTER FATEH PUR KAROR KOT SULTAN CHAUBARA, CHOWK AZAM | RHC JAMAN SHAH RHC MIRHAN RHC PAHAR PUR | BHU BHAGHAL BHU LASKANI WALA BHU GARRAY WALA BHU SHEER GARH BHU BAKHRI AHMED KHAN |
| LODHRAN | DHQ HOSPITAL | MALIK TAYAB AWAN THQH THQH KAHROR PACCA | RHC 231 WB RHC MAKHDOOM ALI RHC GOGRAN | BHU RAJA PUR BHU ALI PUR KANJOO BHU DHANOT BHU 237 WB BHU JALLA ARAIN BHU MALIK PUR BHU GAILAY WALA BHU MASSA KOTHA |

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| | | | | |
|----------------------|---|---|---|---|
| M.B. DIN | DHQ HOSPITAL | THQH PHALIA | RHC MIANA GONDAL RHC PAHRIANWALI RHC MALAKWAL RHCCHALIANWALA RHC BHEKO MORE RHC MONG | BHU WARYAIT BHU CHOT DHEIRAN BHU GHANIAN BHU BHIKHI SHAREEF BHU CHARANWALA BHU SOHAWA BOLANI BHU HARIA BHU QADARABAD BHU MURALA |
| MIANWALI | DHQ HOSPITAL | THQH ESA KHEL THQH KALABAGH ESA KHEL THQH PIPLAN | RHC DAUD KHEL RHC KAMAR MASHANI RHC TABBISAR RHC HAFIZWALA RHC MUSA KHEL RHC TRAG | BHU JALAL PUR BHU DHOK AYYUB BHU KUNDIAN RURAL BHU LALU KHEL BHU MUZAFFAR PUR BHU PAI KHEL |
| MULTAN | DHQ HOSPITAL SHAHBAZ SHARIF HOSPITAL MULTAN | THQH, SHUJA ABAD, MULTAN MUSHTAQ LANG THQH, JALALPUR PIRWALA, MULTAN | RHC QADIR PUR RAWAN RHC AYYAZABAD MARRAL RHC MAKHDOOM RASHID (MT) RHC MATOTLI TOWN HOSPITAL, RAHIMABAD TH, S BLOCK | BHU DURABPUR BHU NUWABPUR BHU KOHJA BHU GARDAIZPUR BHU LUTAFABAD BHU PIRAN GHAIB BHU KHOKHRAN BHU BUDHLA SANT BHU BHAKAR ARBI BHU MATITAL BHU BASTI ALAMGIR BHU BASTI MALOOK BHU JUGGO WALA BHU SKANDRABAD |
| MUZAFFARGARH | DHQ HOSPITAL | THQH, JATOI, MUZAFFARGARH THQH, CHOWK SARWAR SHAHEED, KOT ADU, MUZAFFARGARH THQH, ALIPUR, MUZAFFARGARH THQH, KOT ADU, MUZAFFARGARH | RHC BASIRA RHC K.P SADAT RHC RANG PUR RHC KHAN GARH RHC SHEHAR SULTAN RHC GUJRAT | BHU MARIAN BHU BAIT MIR HAZAR BHU 518/TDA BHU THATHA QURESHI BHU MONDKA BHU THATHA GURMANI BHU MEHMOOD KOT BHU ALUDAY WALI BHU KHAN PUR SHUMALI BHU GHAGHRI BHU JHUGGI WALA |
| NANKANA SAHIB | DHQ HOSPITAL | SANGLA HILL SHAH KOT | RHC WARBURTON RHC BARA GHAR RHC BUCHEKI | BHU KHARIAN KALAN BHU MITHRANPUR BHU KOT HUSSAIN BHU PAWAN BHUMARRAH BOLACHAN |
| NAROWAL | DHQ HOSPITAL | THQH SHAKARGARH | RHC SANKHATRA RHC LESSER KALAN RHC SHAH GHAREEB RHC KOT NAINA RHC BADDOMALHI | BHU PEJOWALI BHU ALI PUR SAYEDAN BHU BUA BHU RAIBA KALAN BHU NONAR BHU JANDIALA BHU IKHLAS PUE BHU MANDIALI BHU MANDIALI BHINDRAN BHU DARMAN BHU SHAH PUR BHANGOO |

SECOND HEALTH WEEK REPORT - FEBRUARY 2018

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| OKARA | DHQ HOSPITAL SOUTH CITY DHQ HOSPITAL | THQH DEPALPUR THQH HAVELI LAKHA DEPALPUR | RHC AKTHRABAD RHC GOGERA RHC HAJRA SHAH MUQEEM RHC SHAHBORE RHC WASAWAY WALA | BHU 1/4-L BHU 48/3-R BHU 18/1-L BHU 42/D BHU RUKAN PURA BHU RATTA KHANA BHU RAJ GARH DOLA MEHAR CHAND BHU 39/2L BHU JABOKA BHU PIPLI PAHAR BHU MAHANT DARSHAN BHEELA GHULAB SINGH BHU MANCHARIAN |
| PAKPATTAN | DHQ HOSPITAL | THQH ARIFWALA | RHC 93/D NOOR PUR RHC CHAK NO.163/EB RHC BUNGA HAYAT RHC QABOOLA | BHU PIR GHANI BHU 11/SP BHU 149/EB BHU TIBBI LAL BAIG BHU 66/EB BHU THATHA MANZOOR BHU CHAKSHAFI |
| RAHIMYARKHAN | - | THQH KHANPUR THQH LIAQATPUR THQH SADIQABAD | RHC JAMAL DIN WALI RHC SEHJA RHC TARANDA MUHAMMAD PANAH RHC NAWAZABAD RHC MANTHAR RHC MIANWALI QURESHIAN RHC KHAN BELA RHC ZAHIR PIR RHC TARANDA SAWAY KHAN RHC FERROZA | BHU 186P BHU 116/P BHU KHAIRPUR KHADALI BHU KOTLA PATHAN BHU GHOUSPUR BHU JANPUR BHU GULMERG BHU RUKANPUR BHU 148/P BHU 158/P BHU KOT SABZAL BHU CHACHRAN SHARIF MARI ALLAH BACHAYA BHU 1/A DOSHAKHA BHU 87/A BHU DERA FARIDI |
| RAJANPUR | DHQ HOSPITAL | THQH, JAMPUR, THQH, ROJHAN, THQH, CIVIL HOSPITAL SHAH WALI, , | RHC MUHAMMADPUR RHC KOT MITTHAN RHC FAZILPUR | BHU SALEEMABAD BHU KOTLA MUGHLAN BHU SAHANWALA BHU KOTLA NASEER BHU OMERKOT BHU KOT TAHIR |
| RAWALPINDI | - | THQH GUJAR KHAN THQH KAHUTA THQH KALLAR SYEDAN THQH KOTLI SATTIAN THQH MURREE THQH TAXILA | RHC MANDRA RHC BAGGA SHEIKHAN RHC KHYABAN E SIR SAYYED RHC DAULTALA | HAYAL SHARIF CHOA KHALSA BHU USMAN KHATTER BHU SUI CHEEMIAN BHU TRET BHU CHAKRI CHU CHAK BELLI KHAN BHU BEOR BHU HANASE BHU JARMOT KALLAN BHU CHARHAN BHU DHOKE PARH BHU KALI MITTI BHU MOLOTE SATTIAN BHU PIND NOSHERI BHU JAJJA BHU BAKHRAL |

SECOND HEALTH WEEK REPORT - FEBRUARY 2018

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| SAHIWAL | - | THQH CHICHAWATNI | RHC NOOR SHAH RHC GHAZIABAD RHC KASSOWAL (4/24L) RHC HARRAPAA RHC KAMIL 120/9-L | BHU 132/9L BHU 64/4R 16/11L BHU 32_35/14L BHU 53/12L BHU 110/7-R BHU 100/9-L BHU DADRA BALA BHU 61/4-R BHU 150/9-L BHU 164 -A/9-L |
| SARGODHA | - | THQH BHALWAL THQH KOT MOMIN THQH SAHIWAL THQH BHERA THQH SHAHPUR THQH SILLANWALI | RHC LILLIANI RHC JHAWARIAN RHC FAROOQA RHC MIANI RHC PHULLARWAN RHC MIDH RANJHA | BHU 10ML BHU 12 SB BHU121NB BHU JHANIA SHAH BHU 163/NB BHU 120/SB BHU GUL DA KOT BHU CHABBA PURANA BHU CHAK MUBARAK BHU HAZOOR PUR BHU KOT BAHI KHAN BHU SABOWAL BHU KOREY KOT BHU 103/SB BHU MARI BHU 53/SB BHU 88/SB BHU 109/SB |
| SHEIKHUPURA | DHQ HOSPITAL | THQH, MURIDKEY, SHEIKHUPURA THQH, FEROZEWALA, SHEIKHUPURA THQH, SAFDAR ABAD, SHEIKHUPURA THQH, SHARAQPUR, SHEIKHUPURA | RHC NARANG MANDI RHC KHANQAH DOGRAN RHC FAROOQ ABAD RHC KHARIANWALA RHC KALA SHAH KAKU | BHU NIZAM PUR DECCA BHU BHALIKE BHU NANGAL SADAN BHU FEROS WATWAN BHU AJNIANWALA BHU KOT SOHNDA BHU BAHOMAN BHU KHAN PUR BHU KOT PINDI DAS BHU AHDIAN BHU MARH BHANGWAAN BHU WANDALA DIAL SHAH |
| SIALKOT | - | THQH, KOTLI LOHARAN,SIALK OT,SIALKOT THQH, DASKA, SIALKOT THQH, PASRUR, SIALKOT THQH, SAMBRIAL, SIALKOT | RHC JAMKY CHEEMA RHC KALASWALA RHC CHAWINDA | BHU MURADPUR BHU UGGOKI BHU RAJA HARPAL BHU BHADAL BHU ADAM K CHEEMA BHU VARIO BHU MARAKIWAL BHU SIRANWALI BHU GALOTIAN KHURD BHU KINGRA BHU QILA QALARWALA BHU BAN BAJWA BHU DHANAWALI |

SECOND HEALTH WEEK REPORT - FEBRUARY 2018

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| TOBA TEK SINGH | DHQ HOSPITAL | GOVT. EYE CUM GENERAL HOSPITAL GOJRA THQH KAMALIA | RHC NIA LAHORE RHC PEER MAHAL RHC 316/GB RHC RAJANA RHC 740/GB | BHU190/GB BHU 264/GB BHU737/GB BHU 424/JB BHU388/JB BHU 316/JB BHU 345/JB BHU 668/9 JB BHU 325/GB BHU 149/GB |
| VEHARI | DHQ HOSPITAL | THQH BUREWALA THQH MAILSI | RHC GAGGOO RHC SAHUKA RHC MACHIWAL RHC GARAH MORE RHC TIBBA SULTAN PUR RHC LUDDON RHC 56/WB RHC KARAM PUR | BHU 60/WB BHU LALIPUR BHU455/EB BHU24/WB BHU KIKRI KALAN BHU 128/EB BHU 88/WB BHU 477/EB BHU SARANGA BHU 483/EB BHU QADIRABAD BHU UMAR KHICHI BHU JAMLERA BHU 155/WB BHU 59/WB |



Primary & Secondary
Healthcare Department