DISTRICT HEALTH INFORMATION SYSTEM

EVIDENCE BASED DECISION MAKING

DHIS
DISTRICT HEALTH
INFORMATION SYSTEM

AN OVERVIEW OF ANNUAL REPORT 2014

ACKNOWLEDGMENTS

DHIS Project acknowledges the services of its team and all the personnel who contributed in compilation of this reports, without whose efforts it would not have been possible to generate timely information; that in-turn serves as the basis for optimal decision making.

PURPOSE OF THIS REPORT

District Health Information System project is publishing annual overview report with an intention to examine yearly performance of the Department as a snapshot.

This bird's overview enables the department to take corrective measures strategically, if any.

These reports indicate whether the health services delivery are improving or deteriorating. The provision of timely and effective healthcare services enables the decision makers to Lake optimal decisions in the best public interest.

CONTENTS

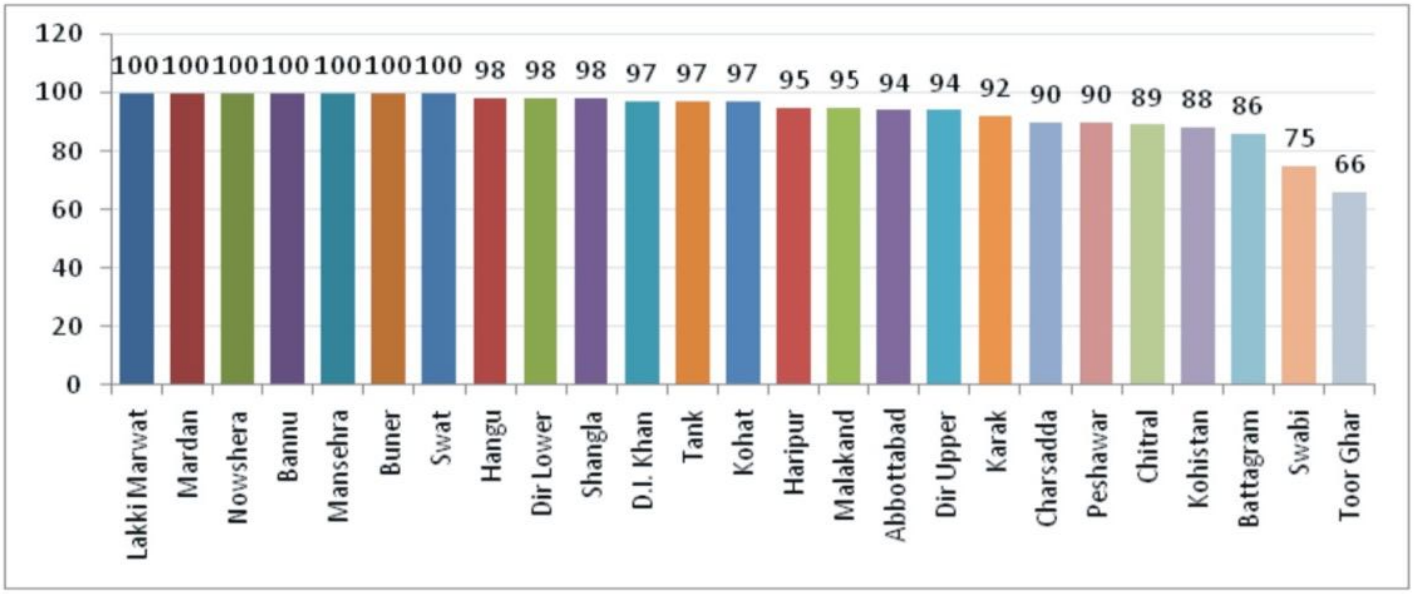
S. No.	SUBJECT	Page #
1.	Reporting Compliance	1
2.	OPD Attendance (Age & Gender wise)	2
3.	Speciality Wise breakup of OPD Vistis	2
4.	Disease Pattern in Out Patients Department	3
5.	Top 10 Disease	3
6.	Communicable and Non-Communicable Diseases	4-7
7.	Deliveries conducted at health facilities	7-9
8.	First Antenatal Care Services (ANC 1)	9-10
9.	Antenatal Care re-visit (ANC re-visit)	11-12
10.	District wise break up of Pregnant women having HB<10g/dl	12-14
11.	Deliveries conducted in Government Health Facilities	14-15
12.	Neonatal deaths, still births, live births with (LBW) under 2.5kg, live birth and	
13.	normal vaginal deliveries in the facilities	15-16
14.	District wise comparison of live births <2.5kg born in Govt. Health facilities	16-18
15.	District wise still births reported in Government Health Facilities	18-20
16.	District wise Neonatal deaths in the facility reported in Govt. Health facilities	20-22
17.	Children< 12 months received 3rd pentavalant vaccine	22-24
18.	Children<12 months received 1st measles vaccine	24-26
19.	Children fully immunized	26-28
20.	Pregnant women received TT-2 vaccine	28-30

Annual Report 2014 (An Overview)

1. Reporting Compliance

Compliance rates are illustrated in figure 1 & 2. This indicator reflects interest and dedication of the staff of each district in submitting the DHIS report timely.

Fig. 1

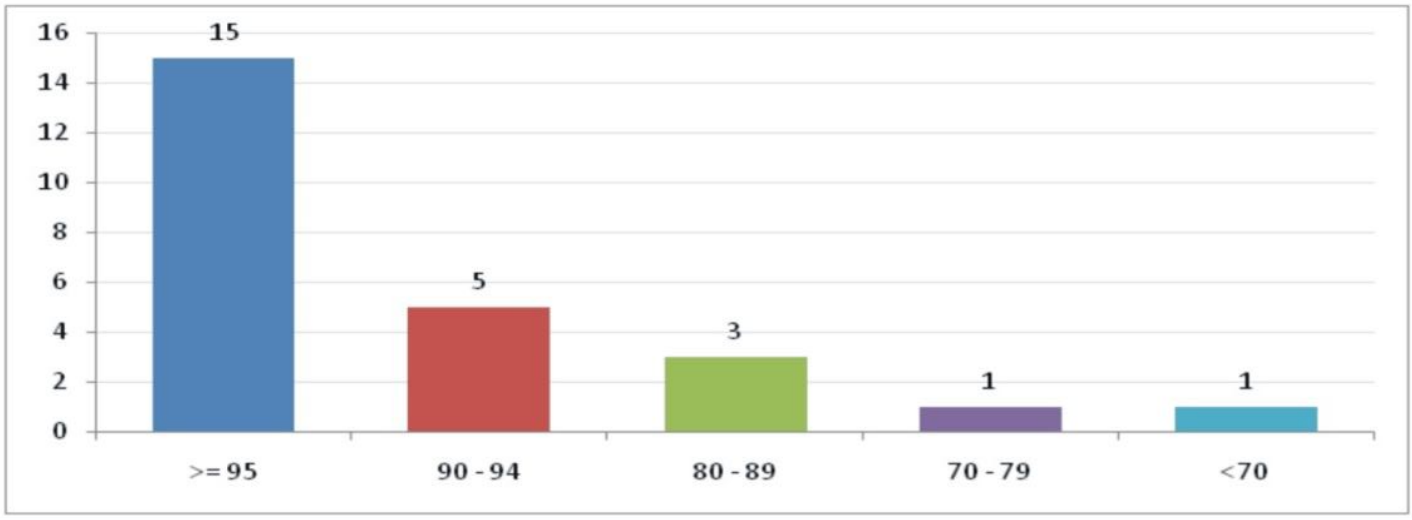


There are 20 districts with a compliance figure of more than 90%.

Districts with compliance figures between 70% and 90% are 04 whereas only one district failed to meet the targets i.e Toor Ghar with 66%.

Fig.2

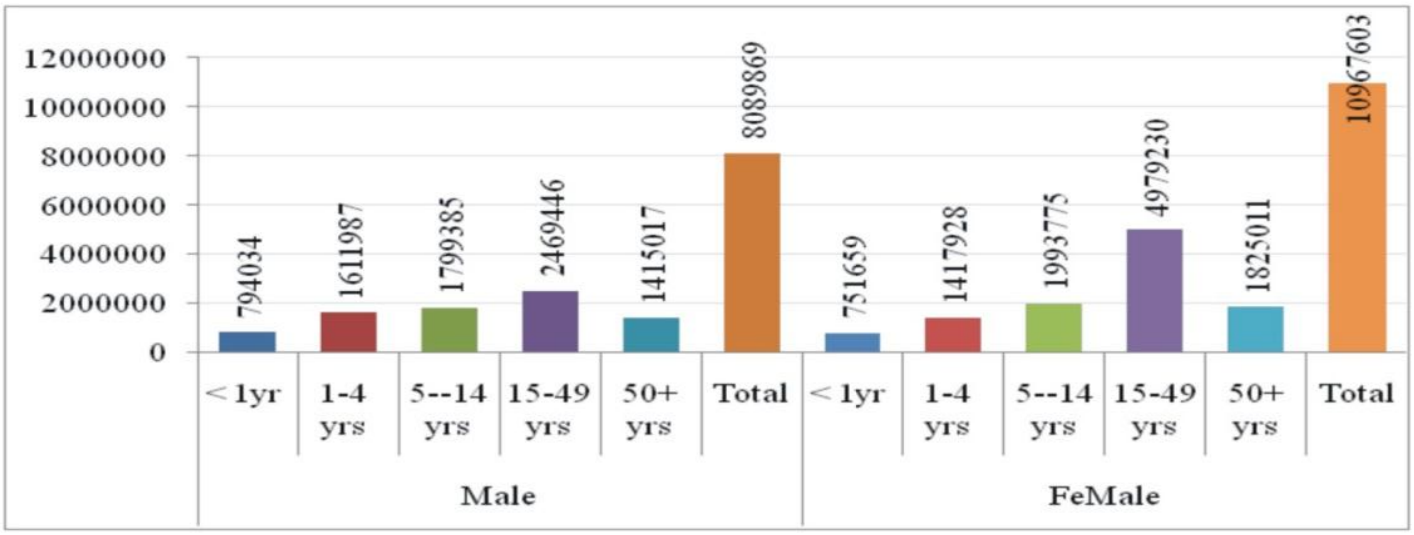
Figure No. 2 show the frequency of the districts with respect to compliance. Fifteen districts stands at more than 95%, five districts in the range of 90-94%, three districts stand between 80-89% while one district each with the 70-79 and less than 70% respectively.



2. OPD Attendance (AGE AND GENDER WISE)

Fig No. 3 shows the general OPD in Secondary Health Care (SHC) and Primary Health Care (PHC) facilities. Total male patients are **8,089,869** while female OPD is **10,967,603;** the total for both male and female patients OPD are **19057472**.

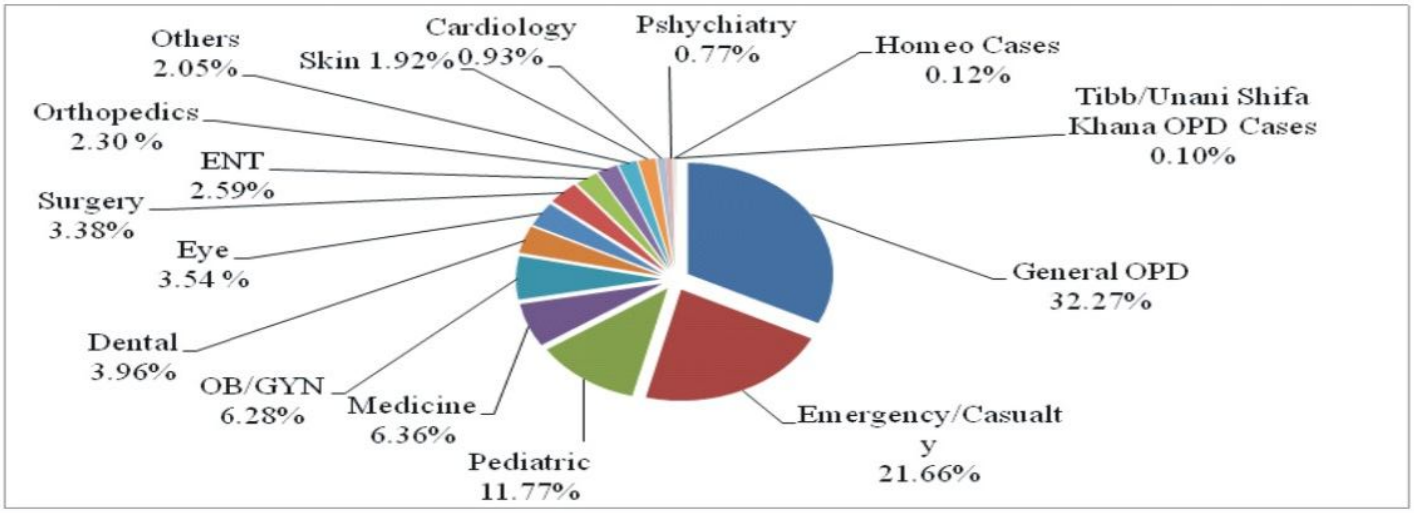
Age wise breakup of patients visiting the OPD is in this report. It shows that the male OPD, for age group 1-14 years, is **3,411,372 (42.17%)** of the total male OPD. The female OPD for the similar age group is **3,411,703** (**31.10%**).



3. Specialty Wise Breakup of OPD Visits in 2014

Fig no.4 indicates Specialty-wise breakup of OPD Visits in the Government Health facilities. Patients visiting Accident and Emergency Department in the hospitals account for 21.66% of the total patients. Pediatric patients are standing at 11.77%. Gynae and Obstetrics patients contribute 6.28% whereas the general OPD is 32.27% of the total patients.

Fig. 4



4. Disease Pattern in Out-Patient Department

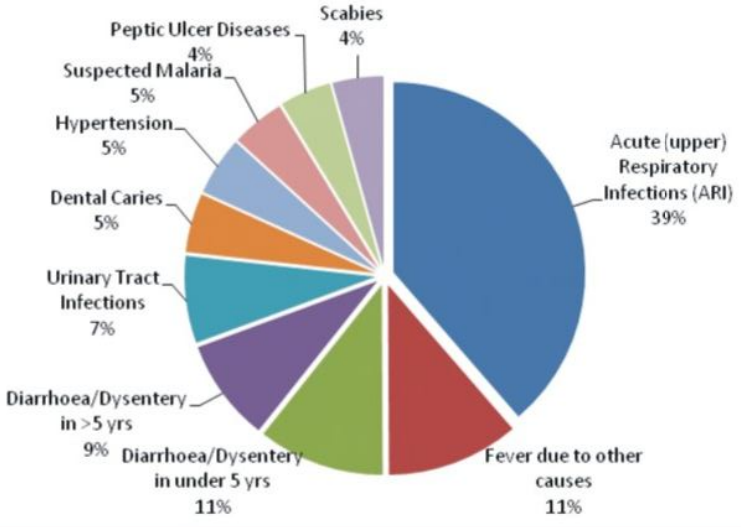
Disease Pattern in Out-Patient Department will help to understand that patients are coming to the health facility with what-kind-of-disease. The indicator provides evidence to focus more at some areas in terms of additional resources allocation and redistribution according to the disease pattern, initiating specific preventive, promotive and/or curative services at specific area.

Top Ten Diseases in Khyber Pakhtunkhwa

Table No. 1

S. No	Name	Total
1	Acute (upper) Respiratory Infections (ARI)	3219364
2	Fever due to other causes	935939
3	Diarrhoea/Dysentery in under 5 yrs	894159
4	Diarrhoea/Dysentery in >5 yrs	724301
5	Urinary Tract Infections	616875
6	Dental Caries	418526
7	Hypertension	416722
8	Suspected Malaria	376087
9	Peptic Ulcer Diseases	362835
10	Scabies	359788

Fig No. 5



5. Communicable and Non-communicable Disease

Out of 43 priority diseases, 19 are communicable and 24 are non-communicable disease.

a. Communicable Disease

The total number of communicable disease for the year 2014 is **6518771** (61%).

Table No. 2

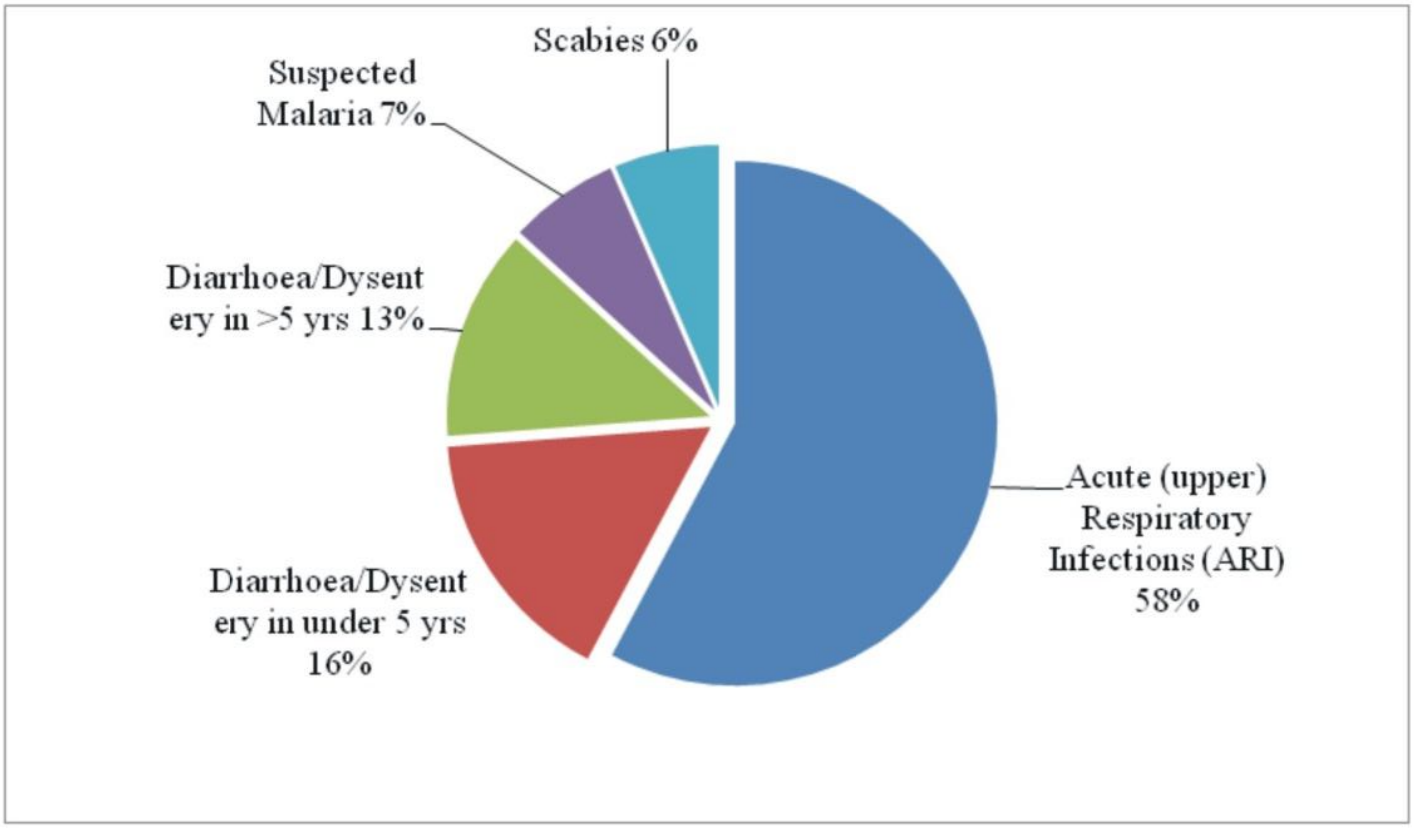
Fig No. 3

S. No	Name	Total
1	Acute (upper) Respiratory Infections (ARI)	3219364
2	Diarrhoea/Dysentery in under 5 yrs	894159
3	Diarrhoea/Dysentery in >5 yrs	724301
4	Suspected Malaria	376087
5	Scabies	359788
6	Worm infestation	287805
7	Pneumonia under 5 years	171382
8	Enteric / Typhoid Fever	147318
9	Pneumonia >5 years	129115
10	Suspected Viral Hepatitis	77211
11	TB Suspects	60723
12	Trachoma	23846
13	Suspected Measles	20248
14	Sexually Transmitted Infections	13587
15	Cutaneous Leishmaniasis	7127
16	Suspected Meningitis	4472
17	Suspected Neonatal Tetanus	1796
18	Acute Flaccid Paralysis	430
19	Suspected HIV/AIDS	12
Total		**6518771**

Top Five Communicable Diseases:

These are as under:

Fig No. 3



B. Non-Communicable Diseases

The total numbers of non-communicable disease for the year 2014 are **4239888. Fever due to other causes** stands on top of the non-communicable diseases and the figures are **935939 (22.07%). This shows ineffective management in the health facilities as diagnosis should be figured out in most of the cases and atleast this head should not be reported at the top of the list.**

Top Non Communicable Diseases

Table No. 3

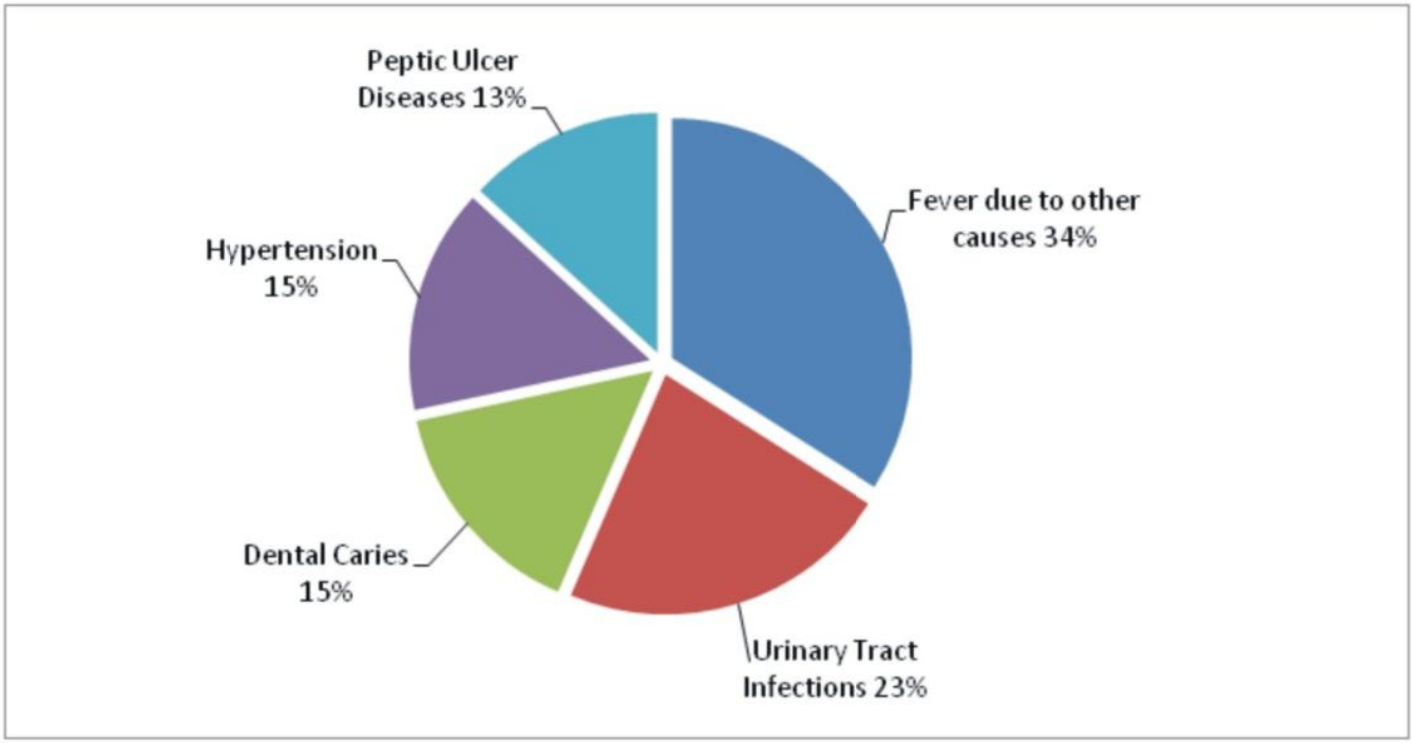
S. No	Name	Total
1	Fever due to other causes	935939
2	Urinary Tract Infections	616875
3	Dental Caries	418526
4	Hypertension	416722

5	Peptic Ulcer Diseases	362835
6	Depression	202616
7	Dermatitis	200755
8	Otitis Media	197513
9	Diabetes Mellitus	196115
10	Road traffic accidents	184233
11	Asthma	174646
12	Cataract	63641
13	Fractures	54910
14	Dog bite	42622
15	Ischemic Heart Disease	40472
16	Chronic Obstructive Pulmonary Diseases	35866
17	Burns	20151
18	Glaucoma	13874
19	Epilepsy	13145
20	Drug Dependence	13140
21	Cirrhosis of Liver	12133
22	Nephritis/Nephrosis	11752
23	Benign Enlargement of Prostrate	10108
24	Snake bits (with signs/symptoms of poisoning)	1299
Total		**4239888**

Top Five Non Communicable Diseases

These are as under:

Fig No. 7



6. Deliveries Conducted at Health Facilities

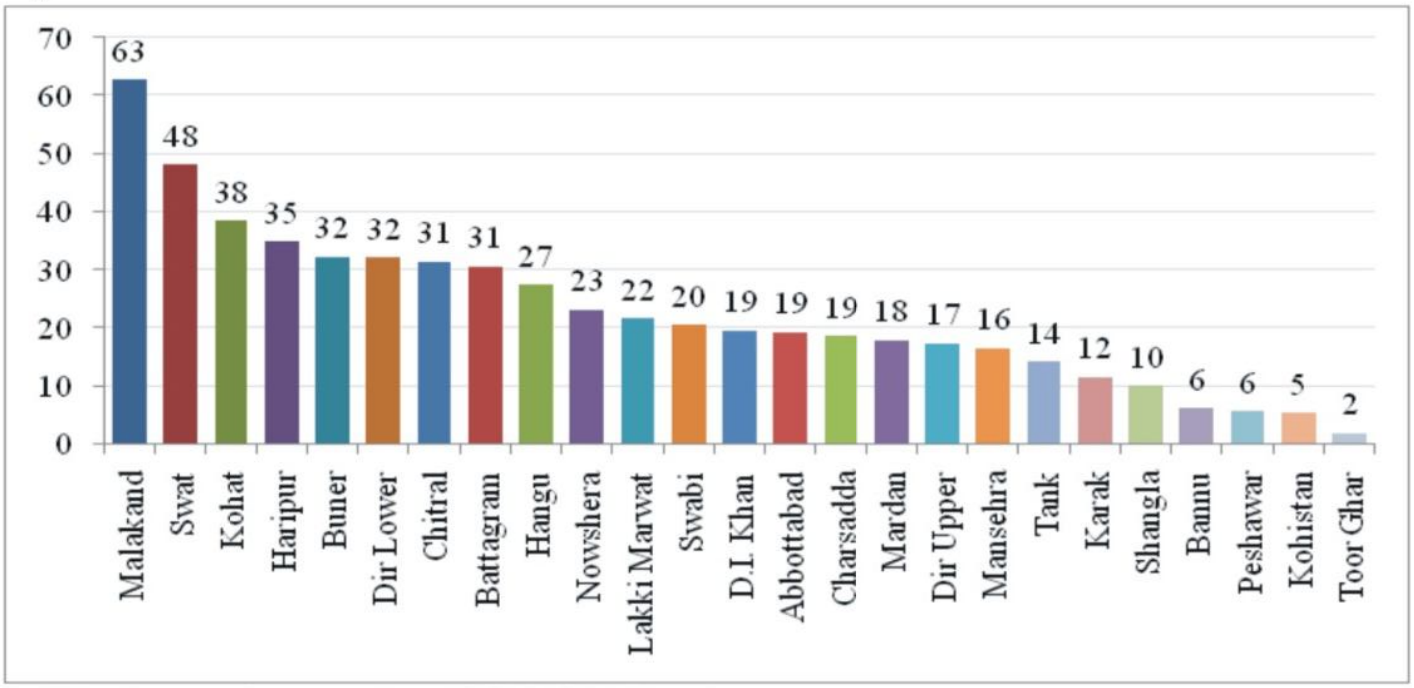
This indicator carries importance as it is reflective of the confidence shown by the general public on Government health facilities for carrying out, mostly, normal deliveries.

Table No. 4

S. No	District	Catchment Population	Expected Pregnancies (3.4%)	Expected Births (2.9%)	Deliveries Conducted at Health Facilities	
					No.	%age
1	Malakand	703000	23902	20387	12789	63
2	Swat	1956000	66504	56724	27267	48
3	Kohat	862000	29308	24998	9594	38

4	Haripur	924000	31416	26796	9340	35
5	Buner	838000	28492	24302	7838	32
6	Dir Lower	1124000	38216	32596	10445	32
7	Chitral	444000	15096	12876	4032	31
8	Battagram	422000	14348	12238	3734	31
9	Hangu	482000	16388	13978	3821	27
10	Nowshera	1280000	43520	37120	8582	23
11	Lakki Marwat	742000	25228	21518	4633	22
12	Swabi	1515000	51510	43935	8996	20
13	D.I. Khan	1308000	44472	37932	7394	19
14	Abbottabad	1120000	38080	32480	6224	19
15	Charsadda	1493000	50762	43297	8035	19
16	Mardan	2168000	73712	62872	11217	18
17	Dir Upper	828000	28152	24012	4132	17
18	Mansehra	1582000	53788	45878	7567	16
19	Tank	359000	12206	10411	1464	14
20	Karak	661000	22474	19169	2211	12
21	Shangla	667000	22678	19343	1916	10
22	Bannu	1010861	34369	29315	1776	6
23	Peshawar	3219000	109446	93351	5141	6
24	Kohistan	478000	16252	13862	737	5
25	Toor Ghar	269623	9167	7819	142	2
Grand Total		**26455484**	**899486**	**767209**	**169027**	**22**

Fig No. 8



7. First Antenatal care services (ANC1) 2014 (%age)

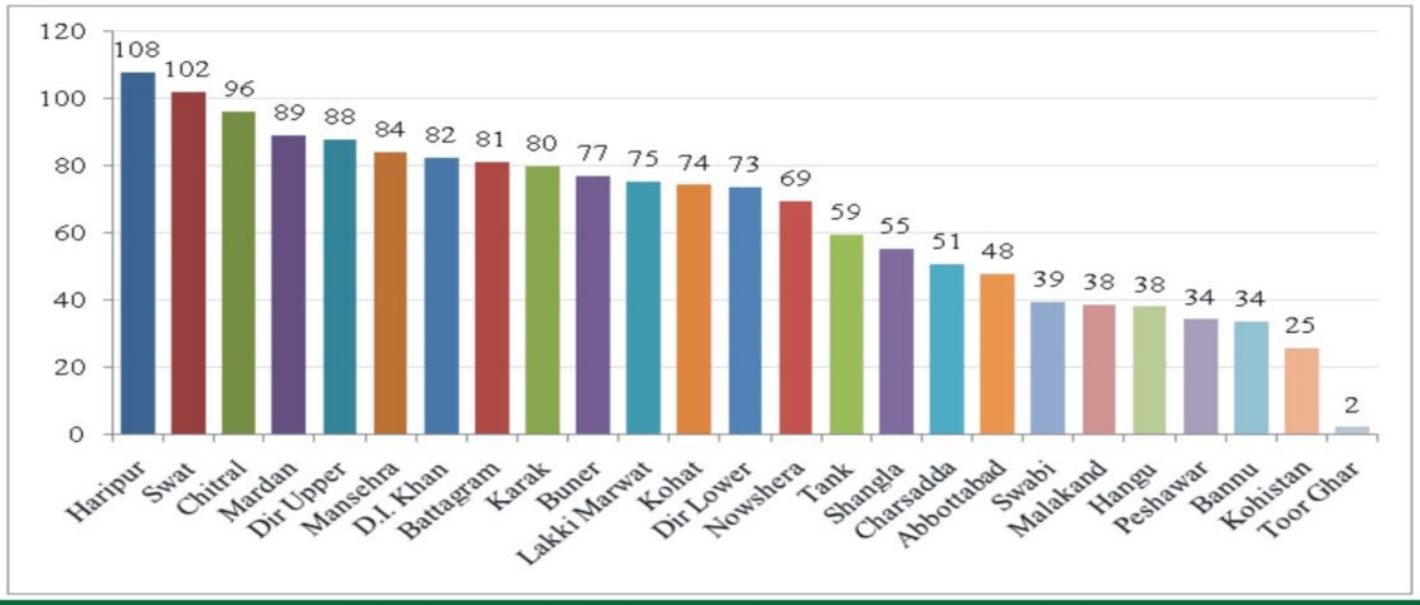
Figure 9 and table 5 provide a data of ANC services in government health facilities. District Haripur stands at 108% which is top of the graph and Tor Ghar at the bottom of the graph i-e 2%.

Table No. 5

S. No	District	Catchment Population	Expected Pregnancies (3.4%)	Expected Births (2.9%)	First Antenatal care services (ANC1)	
					No.	%age
1	Haripur	924000	31416	26796	33846	108
2	Swat	1956000	66504	56724	67762	102
3	Chitral	444000	15096	12876	14484	96
4	Mardan	2168000	73712	62872	65541	89
5	Dir Upper	828000	28152	24012	24645	88
6	Mansehra	1582000	53788	45878	45106	84
7	D.I. Khan	1308000	44472	37932	36520	82
8	Battagram	422000	14348	12238	11621	81
9	Karak	661000	22474	19169	17907	80
10	Buner	838000	28492	24302	21891	77

11	Lakki Marwat	742000	25228	21518	18933	75
12	Kohat	862000	29308	24998	21706	74
13	Dir Lower	1124000	38216	32596	28084	73
14	Nowshera	1280000	43520	37120	30130	69
15	Tank	359000	12206	10411	7233	59
16	Shangla	667000	22678	19343	12510	55
17	Charsadda	1493000	50762	43297	25688	51
18	Abbottabad	1120000	38080	32480	18114	48
19	Swabi	1515000	51510	43935	20225	39
20	Malakand	703000	23902	20387	9182	38
21	Hangu	482000	16388	13978	6210	38
22	Peshawar	3219000	109446	93351	37247	34
23	Bannu	1010861	34369	29315	11542	34
24	Kohistan	478000	16252	13862	4132	25
25	Toor Ghar	269623	9167	7819	142	2
Grand Total		**26455484**	**899486**	**767209**	**590565**	**66**

Fig No. 9



8. Antenatal care Revisit/s (ANC-Revisit/s)

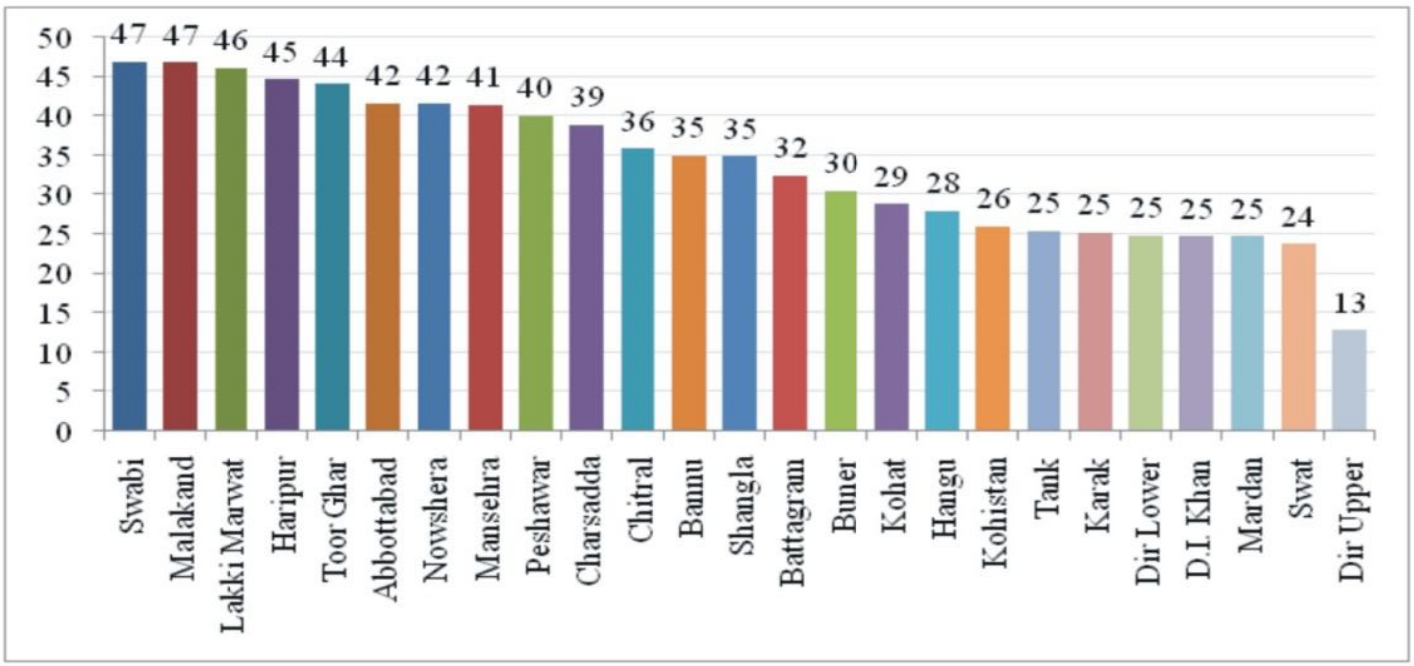
This indicator shows the District-wise Antenatal care Revisit(s) (ANC-Revisit/s) services.

Table No. 6

S. No	District	Catchment Population	Expected Pregnancies (3.4%)	Expected Births (2.9%)	Antenatal care Revisit(s) (ANC-Revisit)	
					No.	%age
1	Swabi	1515000	51510	43935	17853	47
2	Malakand	703000	23902	20387	8077	47
3	Lakki Marwat	742000	25228	21518	16183	46
4	Haripur	924000	31416	26796	27256	45
5	Toor Ghar	269623	9167	7819	241	44
6	Abbottabad	1120000	38080	32480	12902	42
7	Nowshera	1280000	43520	37120	21452	42
8	Mansehra	1582000	53788	45878	31871	41
9	Peshawar	3219000	109446	93351	24918	40
10	Charsadda	1493000	50762	43297	16319	39
11	Chitral	444000	15096	12876	8088	36
12	Bannu	1010861	34369	29315	6199	35
13	Shangla	667000	22678	19343	6690	35
14	Battagram	422000	14348	12238	5570	32
15	Buner	838000	28492	24302	9583	30
16	Kohat	862000	29308	24998	8791	29
17	Hangu	482000	16388	13978	2406	28
18	Kohistan	478000	16252	13862	1453	26
19	Tank	359000	12206	10411	2469	25

20	Karak	661000	22474	19169	6040	25
21	Dir Lower	1124000	38216	32596	9254	25
22	D.I. Khan	1308000	44472	37932	12010	25
23	Mardan	2168000	73712	62872	21499	25
24	Swat	1956000	66504	56724	21051	24
25	Dir Upper	828000	28152	24012	3621	13
Grand Total		**26455484**	**899486**	**767209**	**301796**	**34**

Fig No. 10



9. District-wise Breakup of Pregnant Women Having Hb<10 g/dl 2014

Table No. 7 and figure 11 show the nutritional status of women with special importance of prevalence of anemia in the women. This also shows predictive poor outcome of pregnancy. Risk aversion is possible at this stage.

Table No. 7 show district-wise ANC-1 women with Hb under 10g/dl in which district Mansehra is on top of the list and the figures are **8125**. District Peshawar, Nowshera, and Haripur also stand on a higher number of figures in the table and are **6291, 6051 and 5709** respectively.

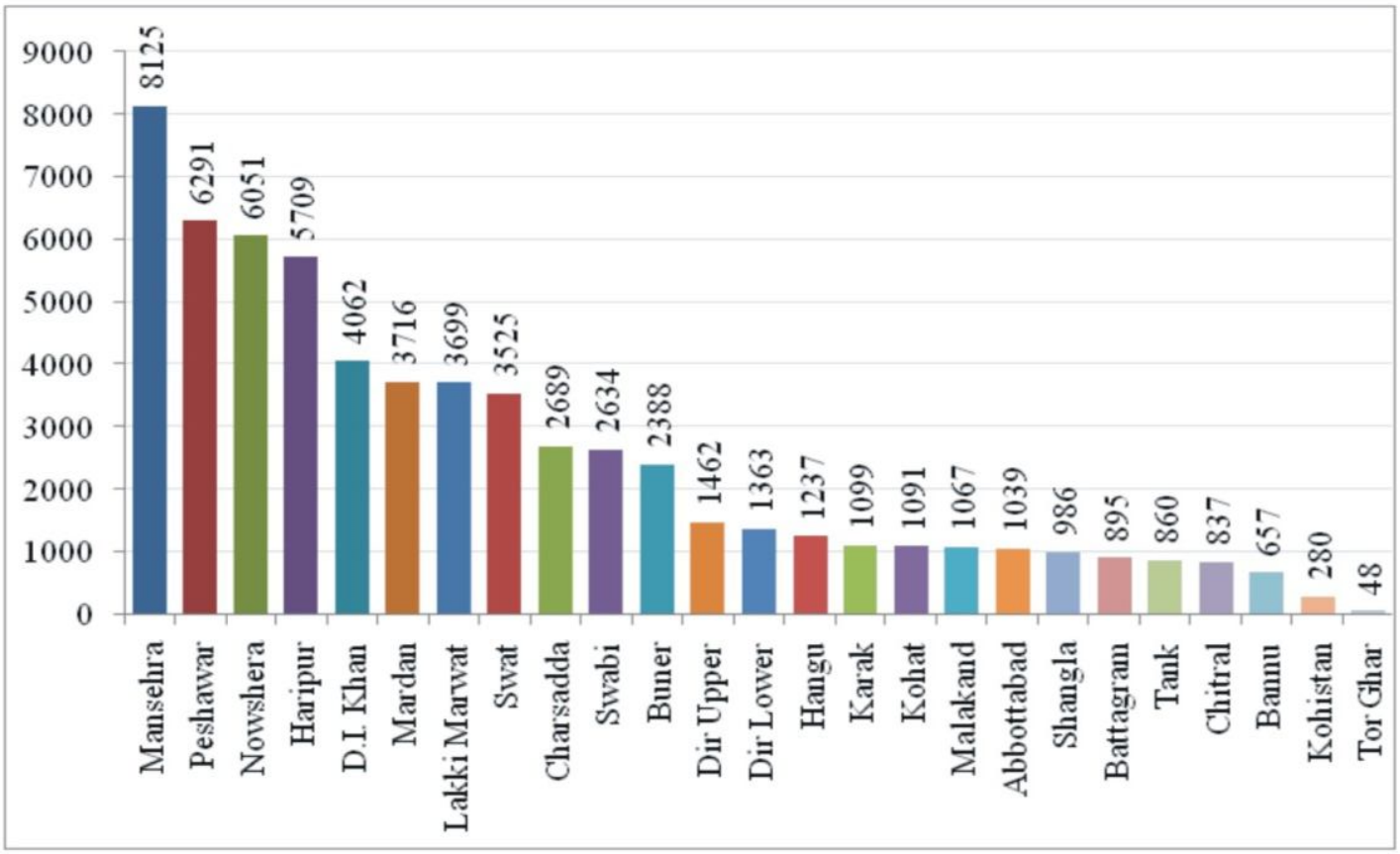
Districts; Kohistan and Tor Ghar stand on lowest rate of anemia cases of the list i-e 280 and 48.

Table No. 7

S. No	DISTRICT	First Antenatal care visits (ANC-1) in the facility	ANC-1 women with Hb. under 10 g/dl
1	Mansehra	43519	8125
2	Peshawar	37247	6291
3	Nowshera	30130	6051
4	Haripur	33846	5709
5	D.I. Khan	22336	4062
6	Mardan	65541	3716
7	Lakki Marwat	18933	3699
8	Swat	67762	3525
9	Charsadda	24128	2689
10	Swabi	20046	2634
11	Buner	21891	2388
12	Dir Upper	24645	1462
13	Dir Lower	28084	1363
14	Hangu	6210	1237
15	Karak	17907	1099
16	Kohat	21706	1091
17	Malakand	9182	1067
18	Abbottabad	18114	1039
19	Shangla	12510	986
20	Battagram	11621	895
21	Tank	7233	860

22	Chitral	14484	837
23	Bannu	11542	657
24	Kohistan	4132	280
25	Tor Ghar	306	48
Total		**573055**	**61810**

Fig. 11



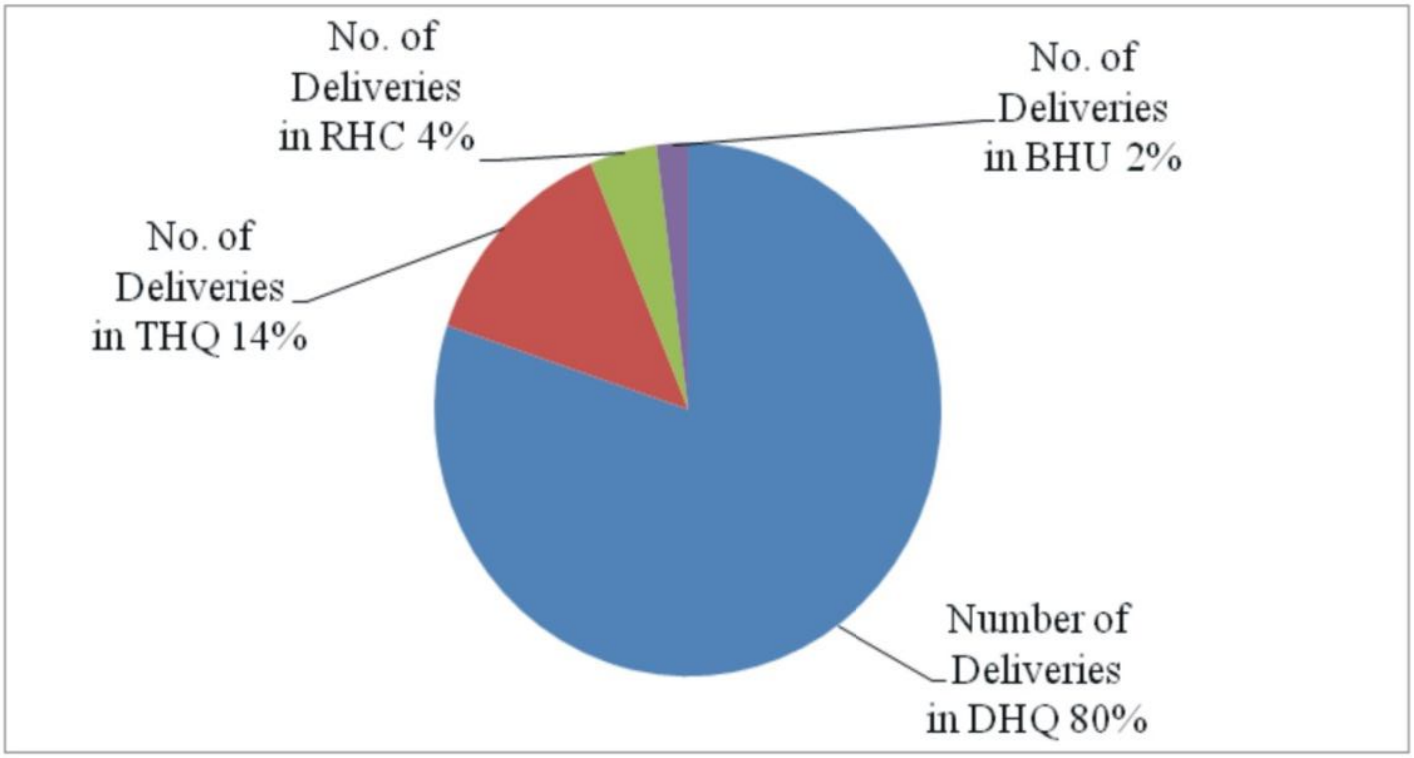
10. Deliveries Conducted in Government Health Facilities

The deliveries conducted indicator carries importance as it is reflective of the confidence shown by the general public government health facilities for carrying out normal deliveries.
This indicator shows the facility-wise number-of-deliveries in 2014 and illustrate that the deliveries conducted in DHQs, THQs, RHCs and BHUs are 80%, 14%, 4% and 2% respectively amongst the total deliveries in public Health facilities; as shown in table 8 & figure 12.

Table No. 8

Name of Health Facility	Number of Deliveries in DHQ	No. of Deliveries in THQ	No. of Deliveries in RHC	No. of Deliveries in BHU
Total	58018	9858	3087	1451

Fig No. 12



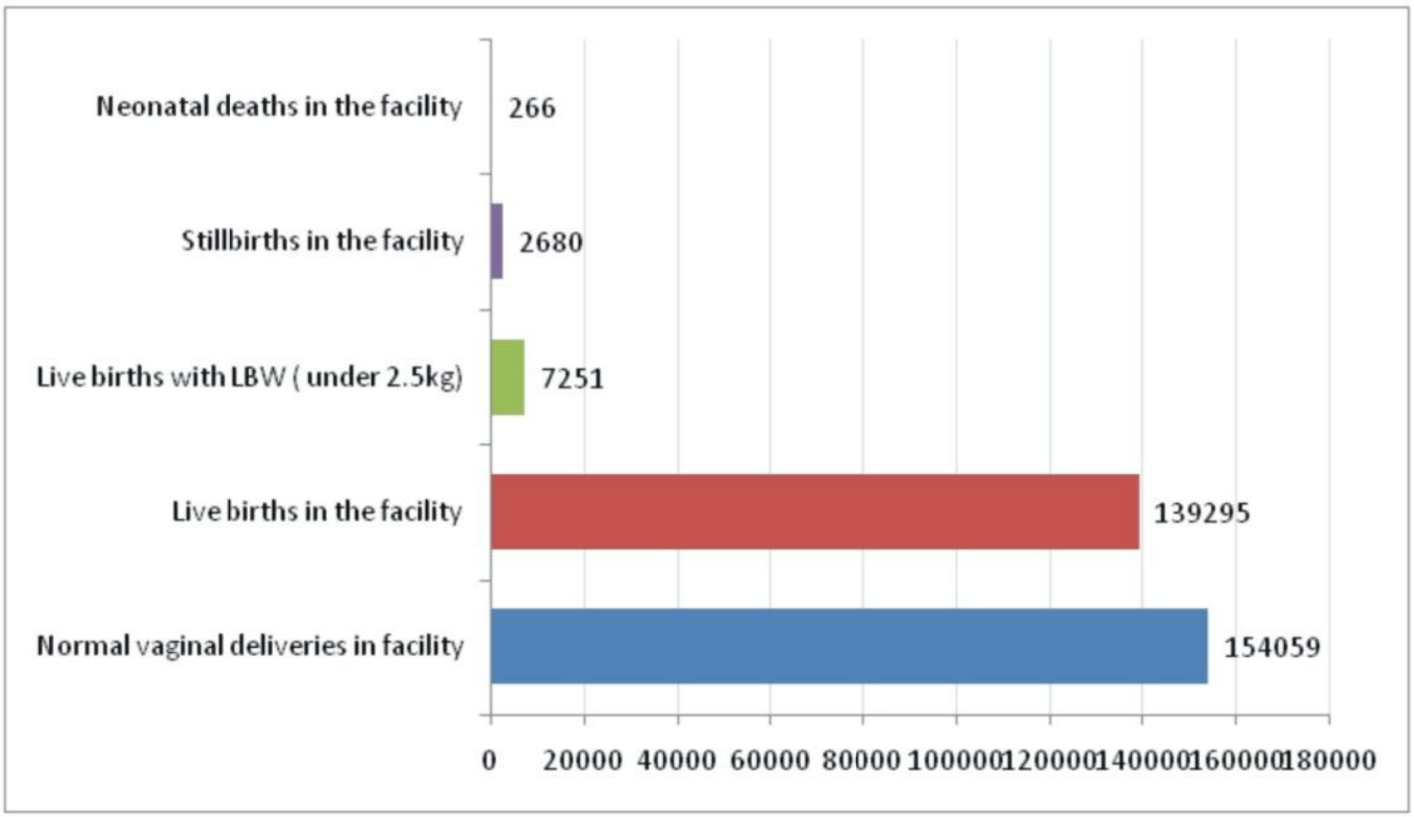
11. <u>Neonatal Deaths, Stillbirths, Live births with LBW under 2.5kg, live births and Normal vaginal deliveries in the facilities</u>

This indicator shows the number of normal vaginal deliveries in facilities (1544059), **Live Births in the facility (139295), Live births with LBW i-e under 2.5kg (7251), Stillbirths in the facility (2680), Neonatal deaths in the facilities (266) as shown in table 09 and figure 13.**

Table No. 9

Name of Health Facility	Normal vaginal deliveries in facility	Live births in the facility	Live births with LBW (under 2.5kg)	Stillbirths in the facility	Neonatal deaths in the facility
Total	154059	139295	7251	2680	266

Fig No. 13



12. District Wise Comparison of Live births <2.5kg Born in Government Health facilities

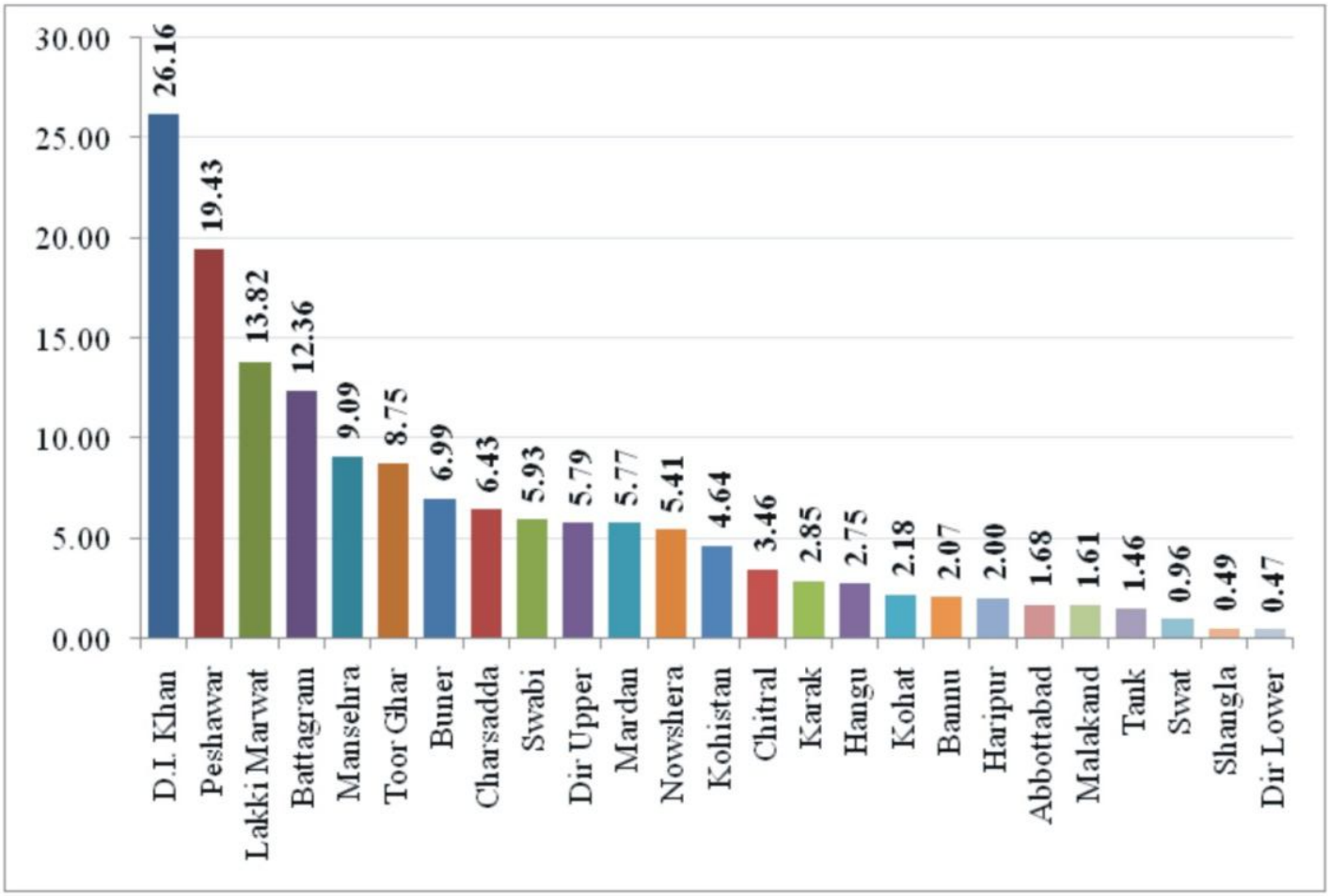
Live births having weight less than 2.5kg born in Government Health facilities for the year 2014 are as under. District DI Khan is the only district which shows more the 25% live births born in Government Health facilities with weight less than 2.5kg and stands at 26.16%.

Table No. 10

S. No	DISTRICT	Normal vaginal deliveries in facility	Live births in the facility	Live births with LBW (under 2.5kg)	%age
1	D.I. Khan	6966	4728	1237	26.16
2	Peshawar	4935	5959	1158	19.43
3	Lakki Marwat	4428	2975	411	13.82
4	Battagram	3376	3017	373	12.36
5	Mansehra	6723	6252	568	9.09
6	Toor Ghar	141	80	7	8.75
7	Buner	7738	7668	536	6.99
8	Charsadda	6025	5865	377	6.43
9	Swabi	4956	5630	334	5.93
10	Dir Upper	4034	2867	166	5.79
11	Mardan	10991	11055	638	5.77
12	Nowshera	8005	5106	276	5.41
13	Kohistan	718	453	21	4.64
14	Chitral	3716	3702	128	3.46
15	Karak	2057	2035	58	2.85
16	Hangu	3593	2512	69	2.75
17	Kohat	8446	4317	94	2.18
18	Bannu	1751	1207	25	2.07
19	Haripur	8588	9145	183	2.00
20	Abbottabad	5670	5640	95	1.68
21	Malakand	12362	11400	184	1.61

22	Tank	1455	1437	21	1.46
23	Swat	25309	24840	238	0.96
24	Shangla	1744	1026	5	0.49
25	Dir Lower	10332	10379	49	0.47
Total		**154059**	**139295**	**7251**	**5.21**

Fig No. 14



13. District wise Stillbirths Reported in the Government; Health Facilities 2014

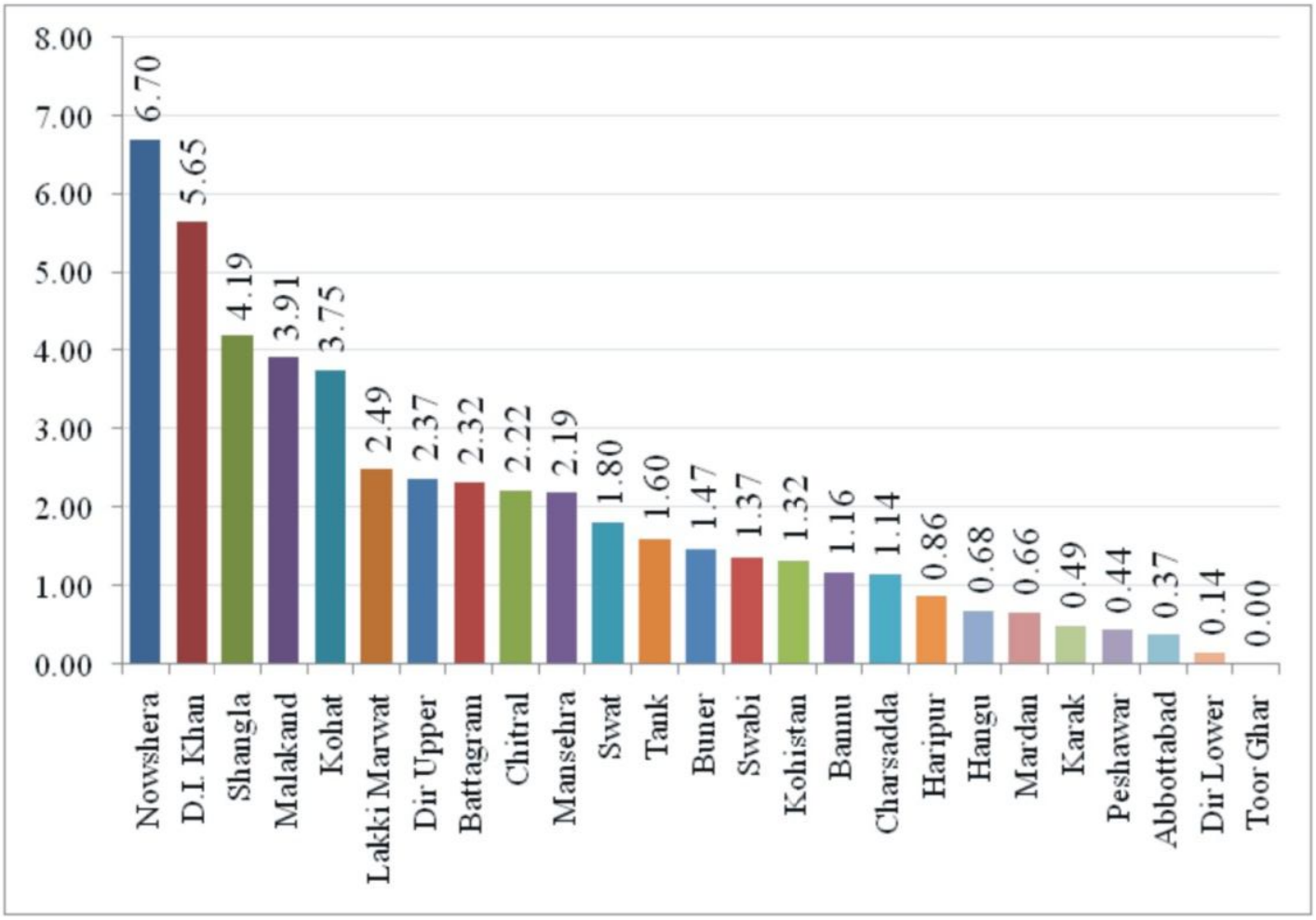
This indicator shows district-wise Stillbirths reported in the government health facilities. District Nowshera has reported most of the still births i-e 342 (6.70%). DI Khan has reported 267 still births (5.65%) and Shangla has Reported 43 still births (4.19%). Other districts can be seen in the following table:

Table No. 11

S. No	DISTRICT	Live births in the facility	Stillbirths in the facility	%age
1	Nowshera	5106	342	6.70
2	D.I. Khan	4728	267	5.65
3	Shangla	1026	43	4.19
4	Malakand	11400	446	3.91
5	Kohat	4317	162	3.75
6	Lakki Marwat	2975	74	2.49
7	Dir Upper	2867	68	2.37
8	Battagram	3017	70	2.32
9	Chitral	3702	82	2.22
10	Mansehra	6252	137	2.19
11	Swat	24840	448	1.80
12	Tank	1437	23	1.60
13	Buner	7668	113	1.47
14	Swabi	5630	77	1.37
15	Kohistan	453	6	1.32
16	Bannu	1207	14	1.16
17	Charsadda	5865	67	1.14
18	Haripur	9145	79	0.86
19	Hangu	2512	17	0.68
20	Mardan	11055	73	0.66
21	Karak	2035	10	0.49

22	Peshawar	5959	26	0.44
23	Abbottabad	5640	21	0.37
24	Dir Lower	10379	15	0.14
25	Toor Ghar	80	0	0.00
Total		**139295**	**2680**	**1.92**

Fig. 15



14. <u>District wise Neonatal deaths in the facility Reported in the Government; Health Facilities</u>

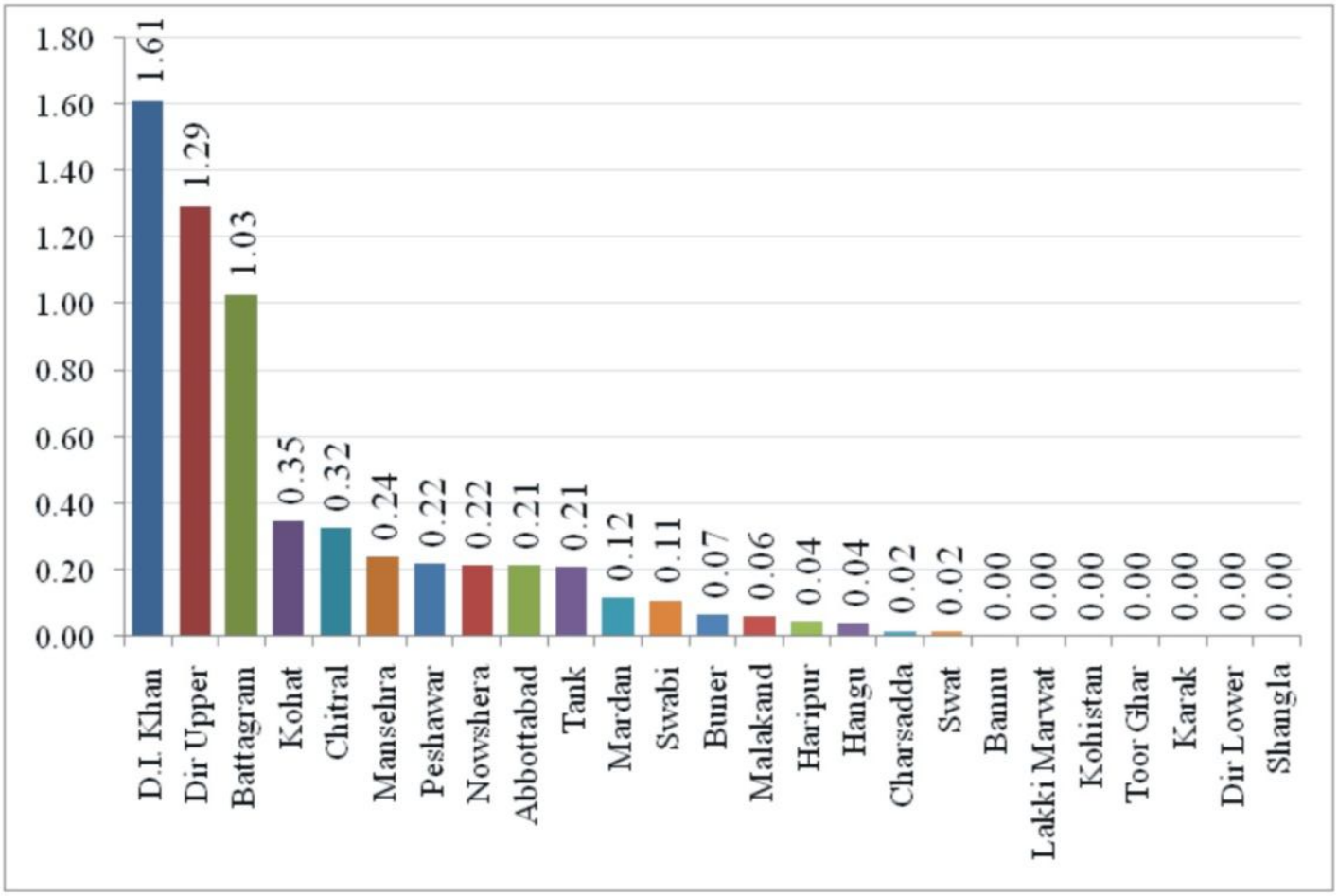
This indicator shows district wise Neonatal deaths in the facilities with following figures and percentages.

Table No. 12

S. No	DISTRICT	Live births in the facility	Neonatal deaths in the facility	%age
1	D.I. Khan	4728	76	1.61
2	Dir Upper	2867	37	1.29
3	Battagram	3017	31	1.03
4	Kohat	4317	15	0.35
5	Chitral	3702	12	0.32
6	Mansehra	6252	15	0.24
7	Peshawar	5959	13	0.22
8	Nowshera	5106	11	0.22
9	Abbottabad	5640	12	0.21
10	Tank	1437	3	0.21
11	Mardan	11055	13	0.12
12	Swabi	5630	6	0.11
13	Buner	7668	5	0.07
14	Malakand	11400	7	0.06
15	Haripur	9145	4	0.04
16	Hangu	2512	1	0.04
17	Charsadda	5865	1	0.02
18	Swat	24840	4	0.02
19	Bannu	1207	0	0.00
20	Lakki Marwat	2975	0	0.00
21	Kohistan	453	0	0.00

22	Toor Ghar	80	0	0.00
23	Karak	2035	0	0.00
24	Dir Lower	10379	0	0.00
25	Shangla	1026	0	0.00
Total		**139295**	**266**	**0.19**

Fig. 16



15. Children under 12 Months Received 3rd Pentavalent Vaccine

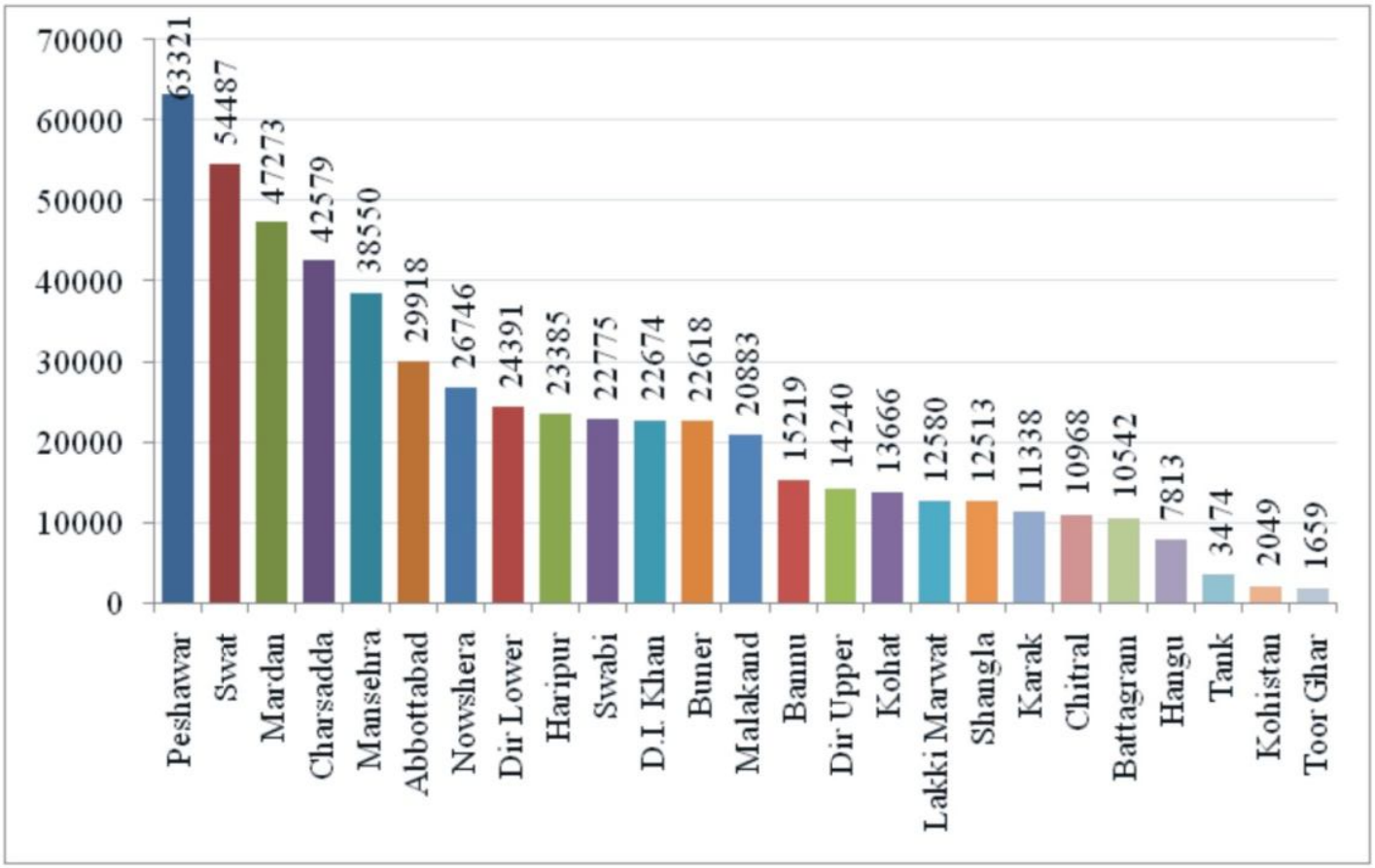
This indicator illustrates the district-wise immunization of children less than 12 months received 3rd pentavalent Vaccine.

Table No. 13

S. No	DISTRICT	Children Under 12 Months Received 3rd Pentavalent Vaccine
1	Peshawar	63321
2	Swat	54487
3	Mardan	47273
4	Charsadda	42579
5	Mansehra	38550
6	Abbottabad	29918
7	Nowshera	26746
8	Dir Lower	24391
9	Haripur	23385
10	Swabi	22775
11	D.I. Khan	22674
12	Buner	22618
13	Malakand	20883
14	Bannu	15219
15	Dir Upper	14240
16	Kohat	13666
17	Lakki Marwat	12580
18	Shangla	12513
19	Karak	11338
20	Chitral	10968
21	Battagram	10542

22	Hangu	7813
23	Tank	3474
24	Kohistan	2049
25	Toor Ghar	1659
Total		**555661**

Fig. 17



16. Children Under 12 Months Received 1st Measles Vaccine 2014

Measles is large and a deadly disease, it is critical that all cases of measles are treated to prevent rapid spread in large households prevalent in society.

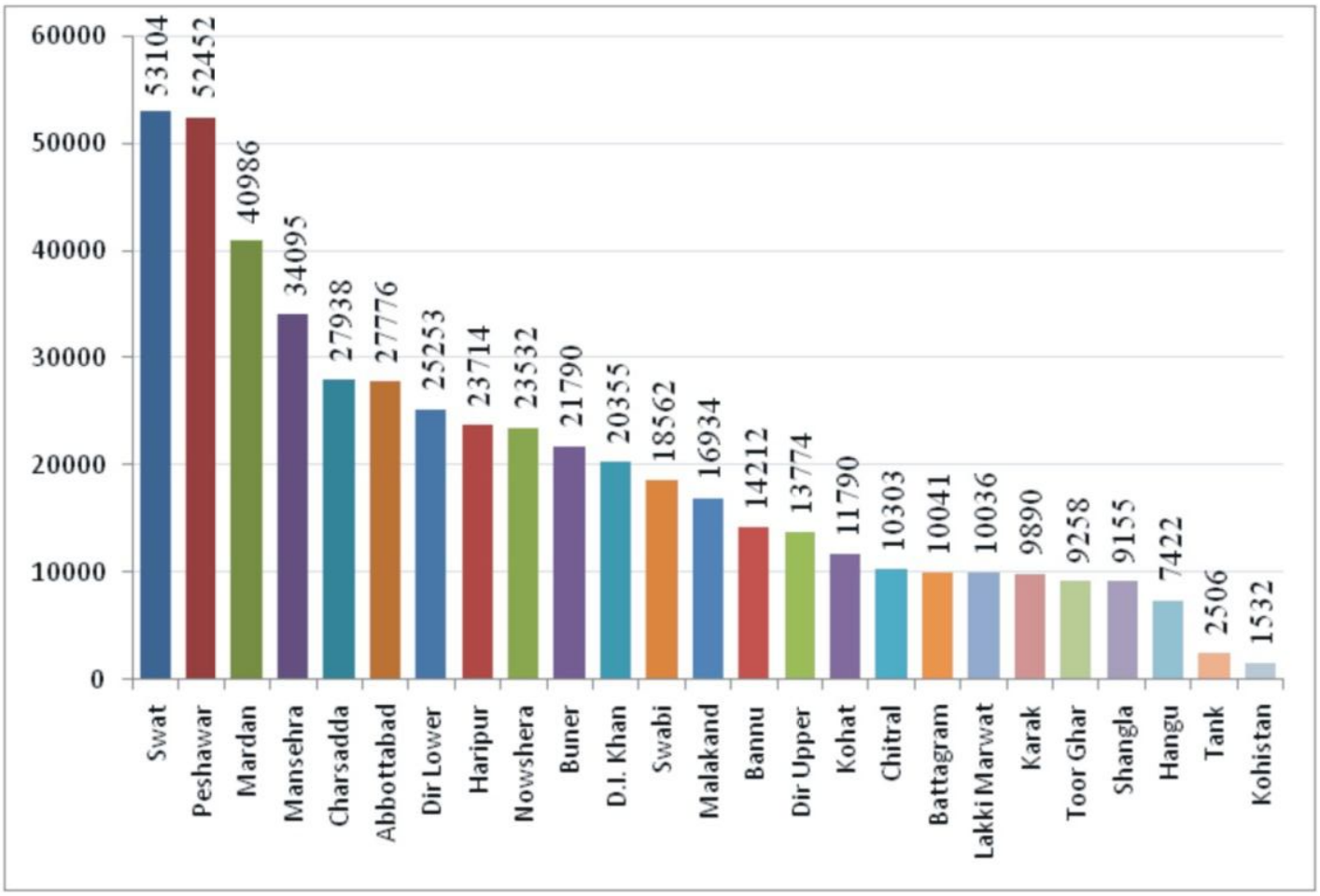
The indicator illustrates district wise immunization of children Under 12 Months Received 1st Measles Vaccine.

Table No. 14

S. No	DISTRICT	Children Under 12 Months Received 1st Measles Vaccine
1	Swat	53104
2	Peshawar	52452
3	Mardan	40986
4	Mansehra	34095
5	Charsadda	27938
6	Abbottabad	27776
7	Dir Lower	25253
8	Haripur	23714
9	Nowshera	23532
10	Buner	21790
11	D.I. Khan	20355
12	Swabi	18562
13	Malakand	16934
14	Bannu	14212
15	Dir Upper	13774
16	Kohat	11790
17	Chitral	10303
18	Battagram	10041
19	Lakki Marwat	10036
20	Karak	9890
21	Toor Ghar	9258

22	Shangla	9155
23	Hangu	7422
24	Tank	2506
25	Kohistan	1532
Total		**496410**

Fig. 18



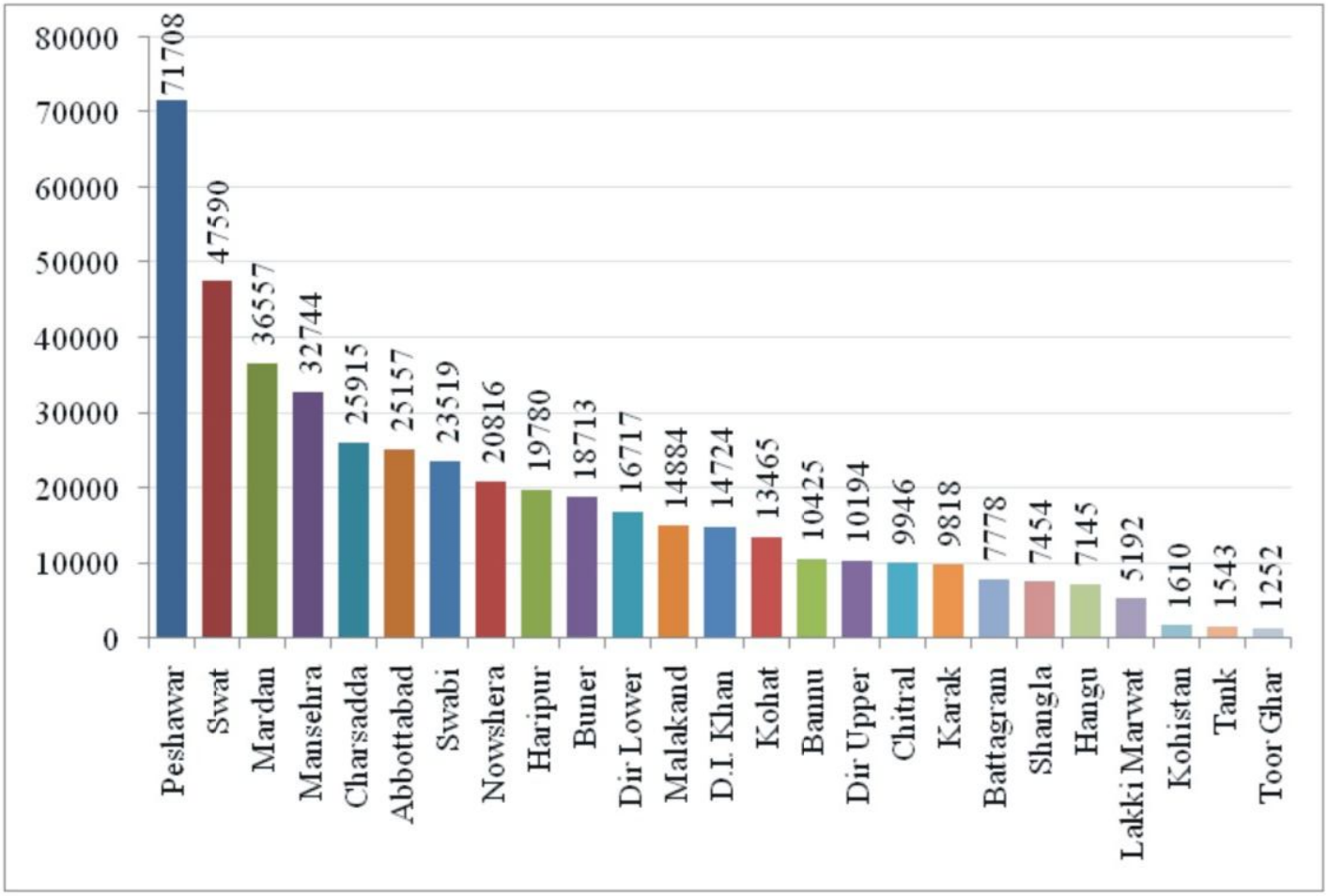
17. Children Fully Immunized in 2014

A fully immunized population is the best indicator to estimate the health status of all the districts. It prevents a lot of mortality and morbidity besides huge savings in the heath sector in long term and set targets for this indicator.

Table No. 15

S. No	DISTRICT	Children Fully Immunized
1	Peshawar	71708
2	Swat	47590
3	Mardan	36557
4	Mansehra	32744
5	Charsadda	25915
6	Abbottabad	25157
7	Swabi	23519
8	Nowshera	20816
9	Haripur	19780
10	Buner	18713
11	Dir Lower	16717
12	Malakand	14884
13	D.I. Khan	14724
14	Kohat	13465
15	Bannu	10425
16	Dir Upper	10194
17	Chitral	9946
18	Karak	9818
19	Battagram	7778
20	Shangla	7454
21	Hangu	7145
22	Lakki Marwat	5192
23	Kohistan	1610
24	Tank	1543
25	Toor Ghar	1252
Total		**454646**

Fig. 19



18. Pregnant Women Received TT-2 Vaccine

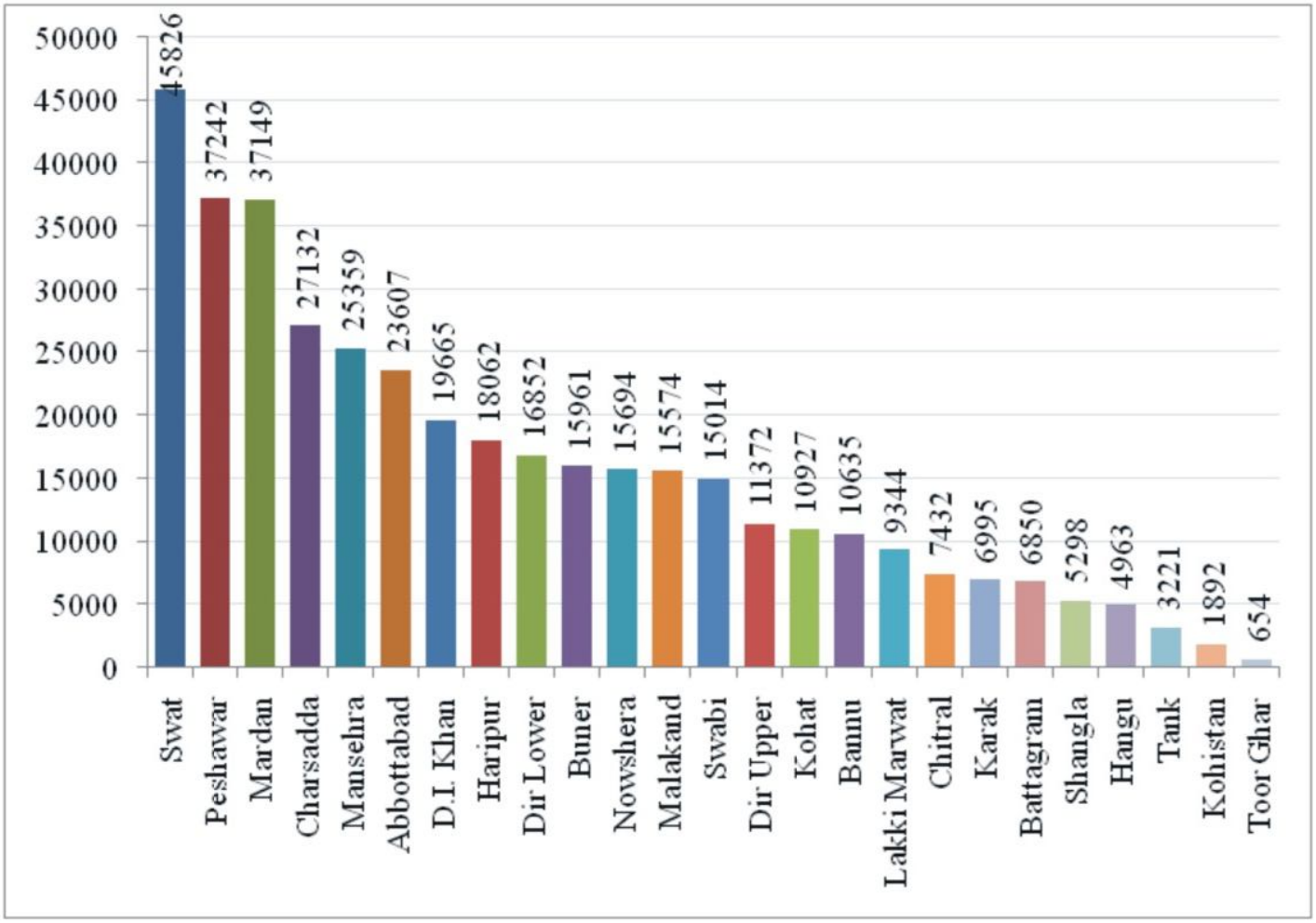
This indicator reflects the full antenatal and partial antenatal coverage. A pregnant women who has received two doses of TT-2 indicates that the women has received full antenatal coverage on one hand and it has addressed a serious public issue relating to neonatal abnormality on the others of which unfortunately we still received cases.

Table No. 16

S. No	DISTRICT	Pregnant women received TT-2 vaccine
1	Swat	45826
2	Peshawar	37242
3	Mardan	37149

4	Charsadda	27132
5	Mansehra	25359
6	Abbottabad	23607
7	D.I. Khan	19665
8	Haripur	18062
9	Dir Lower	16852
10	Buner	15961
11	Nowshera	15694
12	Malakand	15574
13	Swabi	15014
14	Dir Upper	11372
15	Kohat	10927
16	Bannu	10635
17	Lakki Marwat	9344
18	Chitral	7432
19	Karak	6995
20	Battagram	6850
21	Shangla	5298
22	Hangu	4963
23	Tank	3221
24	Kohistan	1892
25	Toor Ghar	654
Total		**392720**

Fig. 20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Swat
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Charsadda
Mansehra
Abbottabad
D.I. Khan
Haripur
Dir Lower
Buner
Nowshera
Malakand
Swabi
Dir Upper
Kohat
Bannu
Lakki Marwat
Chitral
Karak
Battagram
Shangla
Hangu
Tank
Kohistan
Toor Ghar

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