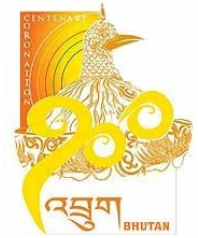




Quarterly Morbidity & Activity Report



Vol.III, Issue III (July-September 2010)

January 2011

EDITORIAL

Hello Readers,

In bidding goodbye to 2010-the male tiger year, it's worth remembering achievements we had in health sector. Of the many that stands out are:

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Timeliness of the Report **Error! Bookmark not defined.**

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TB Report.....**Error! Bookmark not defined.**

Malaria Report..**Error! Bookmark not defined.**

- April 13, 2010, the Bachelors of Public Health (BPH) course for the in-service health workers was launched at the Royal Institute of Health Sciences. The first batch of 26 health workers including 2 females entered the country's first university level public health course. The program has a titanic expectation to strengthen the primary health care services, which Bhutan is deeply rooted upon through capacity development of the primary health care workers.

- April 30, 2010, Inauguration of Bhutan Institute of Medical Sciences (BIMS): The ceremonial plaque of BIMS was inaugurated by the Hon'ble Prime Ministers of Bhutan and India. This will pave way to establishing the country's first Medical College soon. As envisaged, country is now closer to easing the acute shortage of medical doctors and will ensure improvement in medical services in the near future.

- The Tobacco Control Act of Bhutan 2010 came into effect from June 6, 2010 after the endorsement of the parliament. The provisions of the act came to active enforcement from January 11, 2011. This is huge leap to prevent ill health related to tobacco use in our country.

- October 12, 2010, Special Consultation Services at the Jigme Dorji Wangchuck National Referral Hospital (JDWNRH): To provide the choice of services for the people who are willing and have the ability to pay for health services, one year special consultation services was piloted at the JDWNRH. This will provide

convenience for the service users to see their care provider on an appointment basis during the off hours of the outpatient services. If successful, the pilot will be continued as a separate functionary for the country's apex hospital.

On the other hand, during the past year we also observed public health events of national significance.

- Following public scare due to meningo-encephalitis deaths in 4 children during the early phase of introduction of pentavalent vaccine, use of pentavalent vaccination was suspended on October 23, 2009 through 2010. A detail investigation of the experts concluded that the deaths were coincidental and not vaccine caused. Pentavalent vaccine will be reintroduced in June 2011.
- Calamities whether natural or manmade are always around. Bumthang town was ravaged by fire on October 26, 2010 killing two persons and destroying 66 shops and houses. Apart from enormous economic loss, we have not measured what psychosocial health impacts would result due to such events in the community.
- Road accidents and air crashes are not a disease and therefore it has been a less priority public health agenda. On December 15, 18 Bhutanese died in Air Crash in Nepal. A few days later, a bus accident at Lamperi in Thimphu killed nearly a dozen and injured many more in an overloaded passenger bus. These accidents brought the air and road safety in the forefront of public opinions. It is a grave reminder that road and air safety must be urgently integrated as the core of public health and safety promotion.

efficient in rendering our services to improve the health of the fellow citizens. I wish you a Healthy and Happy 2011.

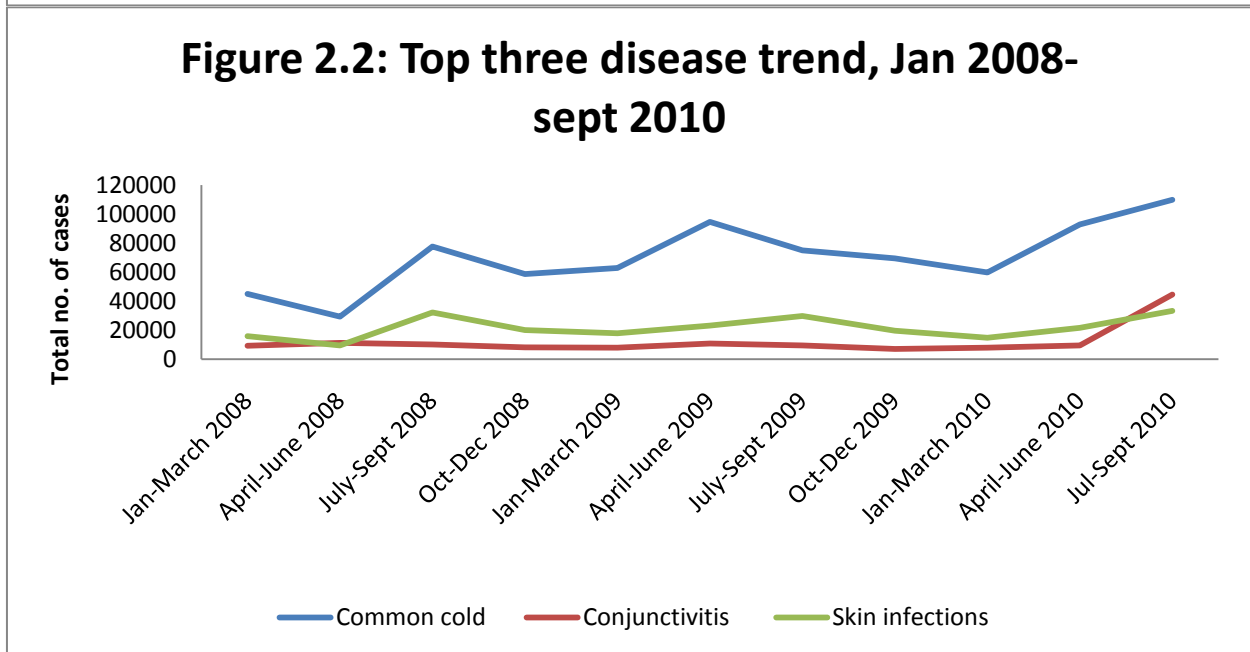
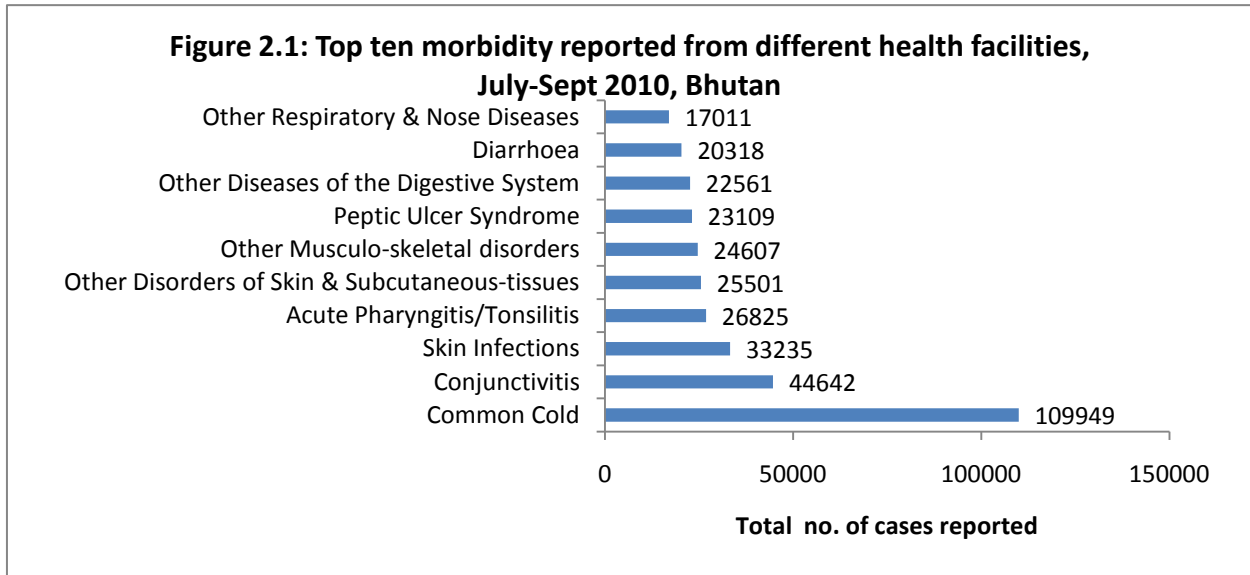
Gampo Dorji (MBBS, MPH)
Department of Public Health, MoH

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1. Timeliness of the report

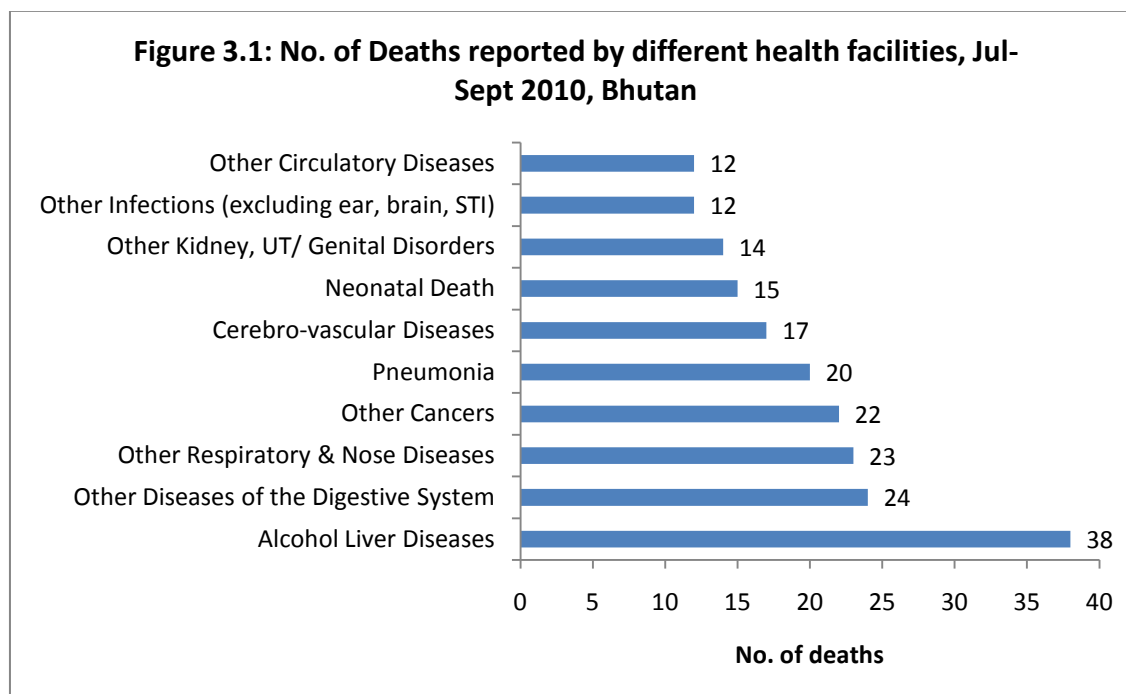
We are pleased to announce that all the districts have reported on time in this quarter (July-September 2010). This report will cover only the data received by Health Management and Information (HMIS) Unit, namely, the morbidity and activity reports. There are many vertical reporting systems and the number varies from district to district. The data of such reporting systems are not included as its reliability and consistency is not assessed.

2. Top Ten diseases reported



Among the top ten diseases reported, common cold reported the highest number of cases with 1,09,949 cases in the 3rd quarter (July-Sept 2010), followed by conjunctivitis and then by skin infections as indicated in figure 2.1. Figure 2.2 indicates that conjunctivitis, which till the 2nd Quarter of 2010 was not in the top-ten morbidities, is now reflected as one of the top-ten morbidities reported in the health facilities of Bhutan with 44,642 cases. We see a sharp increase of conjunctivitis cases in the 3rd quarter of 2010. From the total number of conjunctivitis cases reported from Jan 2008 to Sept 2010, 33% of cases were reported in the 3rd quarter of 2010, while in other quarters (Jan 2008-June 2010) the average percentage of cases reported were 6.7%.

3. Top Ten Mortality reported



Among the different morbidities reported, Alcohol Liver Diseases reported the highest number of deaths (38) in the 3rd quarter (July-Sept. 2010), followed by other diseases of the digestive system (24) and then by other respiratory & nose diseases (23) as indicated in figure 3.1.

4. Ante Natal Care, Post Natal Care and Attended Delivery Report

Table 4.1: ANC and PNC availed at the health facilities, July-September 2010

| District | ANC1Visit | ANC2Visit | ANC3Visit | ANC4Visit | ANCMVisit | PNC1Visit | PNCMVisit |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Bumthang | 78 | 88 | 78 | 68 | 61 | 40 | 6 |
| Chukha | 363 | 425 | 390 | 317 | 635 | 182 | 91 |
| Dagana | 113 | 104 | 83 | 55 | 45 | 45 | 30 |
| Gasa | 8 | 5 | 8 | 5 | 2 | 1 | 4 |
| Haa | 40 | 40 | 37 | 31 | 54 | 26 | 31 |
| Lhuentse | 83 | 75 | 58 | 46 | 47 | 41 | 19 |
| Mongar | 198 | 177 | 197 | 172 | 192 | 163 | 89 |
| Paro | 180 | 200 | 171 | 166 | 284 | 125 | 22 |
| Pemagatshel | 101 | 105 | 99 | 93 | 113 | 29 | 22 |
| Punakha | 140 | 142 | 152 | 130 | 197 | 92 | 71 |
| SJongkhar | 188 | 185 | 162 | 121 | 132 | 86 | 23 |
| Samtse | 268 | 307 | 284 | 265 | 368 | 153 | 115 |
| Sarpang | 162 | 173 | 203 | 193 | 224 | 78 | 84 |
| Thimphu | 625 | 583 | 585 | 631 | 1249 | 311 | 219 |
| Trashigang | 229 | 245 | 214 | 163 | 112 | 143 | 83 |
| TrashiYangtse | 94 | 97 | 79 | 79 | 60 | 67 | 33 |
| Trongsa | 60 | 69 | 61 | 60 | 54 | 21 | 7 |

| | | | | | | | |
|-----------------|------|------|------|------|------|------|------|
| Tsirang | 82 | 104 | 100 | 75 | 26 | 37 | 18 |
| Wangdi | 226 | 199 | 180 | 150 | 167 | 105 | 58 |
| Zhemgang | 85 | 83 | 76 | 44 | 44 | 43 | 13 |
| Total | 3323 | 3406 | 3217 | 2864 | 4066 | 1788 | 1038 |

Table 4.2: TT dose given and attended delivery by the health personnel, July-September 2010

Attended Deliveries

| District | TT2Plus | TTOthers | Home | Facility | Vaccum Delivery |
|-----------------|---------|----------|------|----------|-----------------|
| Bumthang | 72 | 462 | 5 | 43 | 0 |
| Chukha | 305 | 1119 | 29 | 286 | 11 |
| Dagana | 82 | 389 | 1 | 32 | 8 |
| Gasa | 10 | 16 | 1 | 2 | 0 |
| Haa | 25 | 141 | 1 | 12 | 0 |
| Lhuentse | 75 | 239 | 3 | 14 | 0 |
| Mongar | 195 | 414 | 17 | 195 | 5 |
| Paro | 176 | 784 | 4 | 101 | 6 |
| Pemagatshel | 56 | 227 | 14 | 29 | 0 |
| Punakha | 64 | 233 | 13 | 72 | 3 |
| SamdrupJongkhar | 147 | 312 | 16 | 110 | 0 |
| Samtse | 241 | 395 | 7 | 112 | 1 |
| Sarpang | 143 | 907 | 3 | 161 | 0 |
| Thimphu | 583 | 807 | 17 | 951 | 10 |
| Trashigang | 197 | 899 | 23 | 95 | 2 |
| Trashiyangtse | 75 | 170 | 1 | 31 | 0 |
| Trongsa | 69 | 190 | 5 | 22 | 0 |
| Tsirang | 78 | 360 | 5 | 6 | 0 |
| Wangdi | 160 | 613 | 23 | 82 | 0 |
| Zhemgang | 75 | 235 | 21 | 23 | 2 |
| Total | 2828 | 8912 | 209 | 2379 | 48 |

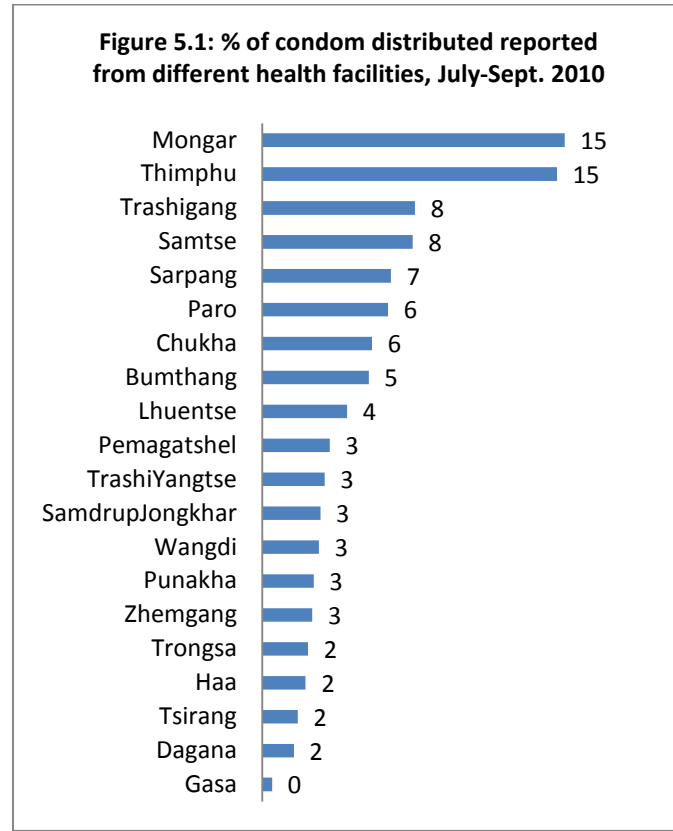
5. Family Planning Method Report

Among the different kinds of family planning methods used excluding condom shows that most preferred method is DMPA (22171) followed by oral pills (13246) and then IUD (738).

Table 5.1: Different family planning methods availed from the health facilities, July-Sept. 2010

| District | IUD | Oral Pills | DMPA |
|------------------------|-----|------------|------|
| Bumthang | 0 | 479 | 646 |
| Chukha | 50 | 1292 | 2143 |
| Dagana | 1 | 965 | 1191 |
| Gasa | 3 | 27 | 160 |
| Haa | 4 | 272 | 407 |
| Lhuentse | 15 | 223 | 549 |
| Mongar | 47 | 636 | 1802 |
| Paro | 16 | 636 | 1077 |
| Pemagatshel | 9 | 407 | 745 |
| Punakha | 16 | 517 | 769 |
| SamdrupJongkhar | 3 | 880 | 1171 |
| Samtse | 39 | 1743 | 2586 |
| Sarpang | 21 | 1030 | 1559 |

| | | | |
|----------------------|-----|-------|-------|
| Thimphu | 334 | 966 | 2028 |
| Trashigang | 140 | 968 | 1694 |
| TrashiYangtse | 6 | 135 | 458 |
| Trongsa | 1 | 237 | 477 |
| Tsirang | 4 | 907 | 1089 |
| Wangdi | 4 | 298 | 866 |
| Zhemgang | 25 | 628 | 754 |
| Total | 738 | 13246 | 22171 |



From the total numbers of condom distributed (269344), highest was distributed by Thimphu and Mongar districts with 15% followed by Trashigang and Samtse districts with 8%.

6. Admissions

Table 6.1 Average patient days of different health facilities, July-September 2010

| District_Name | Total no. of Patients | Absconded | Patient Days | Average Patient days |
|------------------------|-----------------------|-----------|--------------|----------------------|
| Bumthang | 184 | 0 | 745 | 4.0 |
| Chukha | 1391 | 8 | 2456 | 1.8 |
| Dagana | 371 | 0 | 495 | 1.3 |
| Gasa | 0 | 0 | 0 | 0.0 |
| Haa | 104 | 1 | 353 | 3.4 |
| Lhuentse | 363 | 0 | 1119 | 3.1 |
| Mongar | 1170 | 1 | 4779 | 4.1 |
| Paro | 869 | 4 | 2054 | 2.4 |
| Pemagatshel | 385 | 0 | 898 | 2.3 |
| Punakha | 404 | 1 | 2990 | 7.4 |
| SamdrupJongkhar | 562 | 1 | 2191 | 3.9 |
| Samtse | 933 | 1 | 3793 | 4.1 |

| | | | | |
|---------------|--------------|-----------|--------------|------------|
| Sarpang | 1110 | 1 | 5159 | 4.6 |
| Thimphu | 3919 | 5 | 38491 | 9.8 |
| Trashigang | 1176 | 5 | 4843 | 4.1 |
| Trashiyangtse | 144 | 1 | 656 | 4.6 |
| Trongsa | 183 | 0 | 536 | 2.9 |
| Tsirang | 423 | 0 | 1152 | 2.7 |
| Wangdi | 384 | 2 | 1001 | 2.6 |
| Zhemgang | 400 | 0 | 1128 | 2.8 |
| Total | 14475 | 31 | 74839 | 5.2 |

7. Laboratory Examinations

Table 7.1 Laboratory examinations conducted at health facilities, July-September 2010

| District | Total Lab test | Hemoglobin | Blood Group | Malaria slide | TB Sputum | Urine | Stool | HIV |
|-----------------|----------------|--------------|--------------|---------------|-------------|--------------|-------------|-------------|
| Bumthang | 486 | 608 | 209 | 29 | 15 | 643 | 19 | 116 |
| Chukha | 34072 | 3772 | 1102 | 2376 | 325 | 4190 | 95 | 406 |
| Dagana | 5667 | 722 | 255 | 974 | 40 | 1774 | 29 | 19 |
| Gasa | 100 | 40 | 9 | 1 | 4 | 35 | 0 | 10 |
| Haa | 2265 | 505 | 138 | 6 | 34 | 1054 | 12 | 14 |
| Lhuentse | 6055 | 576 | 164 | 67 | 16 | 867 | 15 | 26 |
| Mongar | 10344 | 4137 | 1186 | 723 | 423 | 3083 | 285 | 504 |
| Paro | 11440 | 1067 | 530 | 99 | 212 | 4170 | 38 | 110 |
| Pemagatshel | 3470 | 489 | 363 | 281 | 75 | 1221 | 15 | 110 |
| Punakha | 2665 | 1347 | 312 | 60 | 42 | 709 | 19 | 175 |
| SamdrupJongkhar | 6849 | 1257 | 386 | 1202 | 276 | 1582 | 46 | 228 |
| Samtse | 12280 | 6303 | 829 | 2406 | 448 | 2076 | 37 | 176 |
| Sarpang | 37872 | 4283 | 872 | 5931 | 190 | 3897 | 242 | 383 |
| Thimphu | 267646 | 18163 | 20155 | 3013 | 2395 | 17843 | 1569 | 3486 |
| Trashigang | 12706 | 1861 | 3058 | 215 | 228 | 2562 | 50 | 140 |
| Trashiyangtse | 999 | 512 | 132 | 15 | 33 | 468 | 7 | 30 |
| Trongsa | 1408 | 322 | 184 | 13 | 29 | 291 | 12 | 114 |
| Tsirang | 1686 | 655 | 199 | 441 | 18 | 401 | 6 | 27 |
| Wangdi | 3294 | 1119 | 395 | 235 | 65 | 1304 | 24 | 152 |
| Zhemgang | 8075 | 928 | 149 | 688 | 40 | 497 | 11 | 62 |
| Total | 429379 | 48666 | 30627 | 18775 | 4908 | 48667 | 2531 | 6288 |

8. Nutritional status of Children less than Five years of age reported

Table 8.1 Nutritional status of Children less than Five years of age reported at health facilities, July-September 2010

| District | Over weight | Normal | Malnourish | Severely malnourish |
|-------------|-------------|--------|------------|---------------------|
| Bumthang | 16 | 1690 | 25 | 6 |
| Chukha | 151 | 4631 | 188 | 28 |
| Dagana | 95 | 1929 | 149 | 9 |
| Gasa | 14 | 188 | 12 | 3 |
| Haa | 15 | 811 | 39 | 2 |
| Lhuentse | 32 | 1202 | 104 | 13 |
| Mongar | 140 | 4241 | 252 | 35 |
| Paro | 86 | 3153 | 141 | 11 |
| Pemagatshel | 84 | 1951 | 219 | 9 |
| Punakha | 37 | 1413 | 45 | 4 |

| | | | | |
|------------------------|------|-------|------|-----|
| SamdrupJongkhar | 67 | 2556 | 198 | 28 |
| Samtse | 28 | 3791 | 253 | 40 |
| Sarpang | 106 | 2861 | 154 | 29 |
| Thimphu | 2172 | 7245 | 380 | 61 |
| Trashigang | 124 | 3667 | 271 | 27 |
| TrashiYangtse | 59 | 1488 | 136 | 13 |
| Trongsa | 57 | 1069 | 49 | 10 |
| Tsirang | 61 | 1550 | 153 | 5 |
| Wangdi | 105 | 2526 | 138 | 10 |
| Zhemgang | 81 | 1508 | 150 | 9 |
| Total | 3530 | 49470 | 3056 | 352 |

9. Surgical Procedures

Table 9.1 Surgical procedures conducted at different health facilities, July-September 2010

| District | General | | | | | |
|-----------------|-----------|-------|--------------|--------|-------|--------------|
| | Abdominal | | | Others | | |
| | Major | Minor | Laparoscopic | Major | Minor | Laparoscopic |
| Bumthang | 0 | 0 | 0 | 0 | 0 | 0 |
| Chukha | 0 | 0 | 0 | 0 | 0 | 0 |
| Dagana | 0 | 0 | 0 | 0 | 0 | 0 |
| Haa | 0 | 0 | 0 | 0 | 0 | 0 |
| Lhuentse | 0 | 0 | 0 | 0 | 0 | 0 |
| Mongar | 0 | 0 | 0 | 0 | 0 | 0 |
| Paro | 0 | 0 | 0 | 0 | 0 | 0 |
| Pemagatshel | 0 | 0 | 0 | 0 | 0 | 0 |
| SamdrupJongkhar | 0 | 0 | 0 | 0 | 696 | 0 |
| Samtse | 0 | 0 | 0 | 0 | 0 | 0 |
| Sarpang | 0 | 0 | 0 | 0 | 0 | 0 |
| Thimphu | 0 | 0 | 0 | 0 | 4 | 0 |
| Trashigang | 0 | 0 | 0 | 0 | 0 | 0 |
| TrashiYangtse | 0 | 0 | 0 | 0 | 0 | 0 |
| Trongsa | 0 | 0 | 0 | 0 | 0 | 0 |
| Tsirang | 0 | 0 | 0 | 0 | 0 | 0 |
| Wangdi | 0 | 3 | 0 | 0 | 522 | 0 |
| Zhemgang | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 3 | 0 | 0 | 1222 | 0 |

| District | Orthopedics | | | | | |
|-----------------|-------------|-------|--------------|--------|-------|--------------|
| | Extremities | | | Others | | |
| | Major | Minor | Laparoscopic | Major | Minor | Laparoscopic |
| Bumthang | 0 | 0 | 0 | 0 | 0 | 0 |
| Chukha | 0 | 0 | 0 | 0 | 0 | 0 |
| Dagana | 0 | 0 | 0 | 0 | 0 | 0 |
| Haa | 0 | 0 | 0 | 0 | 0 | 0 |
| Lhuentse | 0 | 0 | 0 | 0 | 3 | 0 |
| Mongar | 0 | 0 | 0 | 0 | 0 | 0 |
| Paro | 0 | 0 | 0 | 0 | 0 | 0 |
| Pemagatshel | 0 | 0 | 0 | 0 | 0 | 0 |
| SamdrupJongkhar | 0 | 25 | 0 | 0 | 10 | 0 |
| Samtse | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | |
|---------------|----------|-----------|----------|----------|-----------|----------|
| Sarpang | 0 | 0 | 0 | 0 | 0 | 0 |
| Thimphu | 0 | 0 | 0 | 0 | 0 | 0 |
| Trashigang | 0 | 0 | 0 | 0 | 0 | 0 |
| Trashiyangtse | 0 | 0 | 0 | 0 | 0 | 0 |
| Trongsa | 0 | 0 | 0 | 0 | 0 | 0 |
| Tsirang | 0 | 0 | 0 | 0 | 0 | 0 |
| Wangdi | 0 | 1 | 0 | 0 | 5 | 0 |
| Zhemgang | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 26 | 0 | 0 | 18 | 0 |

| District | Gynecology | | | ENT | | |
|-----------------|------------|-----------|--------------|----------|----------|--------------|
| | Major | Minor | Laparoscopic | Major | Minor | Laparoscopic |
| Bumthang | 0 | 0 | 0 | 0 | 0 | 0 |
| Chukha | 0 | 0 | 0 | 0 | 0 | 0 |
| Dagana | 0 | 0 | 0 | 0 | 0 | 0 |
| Haa | 0 | 0 | 0 | 0 | 0 | 0 |
| Lhuentse | 0 | 0 | 0 | 0 | 0 | 0 |
| Mongar | 0 | 0 | 0 | 0 | 0 | 0 |
| Paro | 0 | 0 | 0 | 0 | 0 | 0 |
| Pemagatshel | 0 | 0 | 0 | 0 | 0 | 0 |
| SamdrupJongkhar | 1 | 11 | 0 | 0 | 0 | 0 |
| Samtse | 0 | 0 | 0 | 0 | 0 | 0 |
| Sarpang | 0 | 0 | 0 | 0 | 0 | 0 |
| Thimphu | 0 | 0 | 0 | 0 | 0 | 0 |
| Trashigang | 0 | 0 | 0 | 0 | 0 | 0 |
| Trashiyangtse | 0 | 0 | 0 | 0 | 0 | 0 |
| Trongsa | 0 | 0 | 0 | 0 | 0 | 0 |
| Tsirang | 0 | 0 | 0 | 0 | 0 | 0 |
| Wangdi | 0 | 4 | 0 | 0 | 7 | 0 |
| Zhemgang | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1 | 15 | 0 | 0 | 7 | 0 |

| District | Eye | | Caesarean | |
|-----------------|-------|-------|--------------|-------|
| | Major | Minor | Laparoscopic | Major |
| Bumthang | 0 | 0 | 0 | 0 |
| Chukha | 0 | 0 | 0 | 0 |
| Dagana | 0 | 0 | 0 | 0 |
| Gasa | 0 | 0 | 0 | 0 |
| Lhuentse | 0 | 0 | 0 | 0 |
| Mongar | 0 | 0 | 0 | 0 |
| Paro | 0 | 0 | 0 | 0 |
| Pemagatshel | 0 | 0 | 0 | 0 |
| SamdrupJongkhar | 0 | 0 | 0 | 28 |
| Samtse | 0 | 0 | 0 | 0 |
| Sarpang | 0 | 0 | 0 | 0 |
| Thimphu | 0 | 0 | 0 | 0 |
| Trashigang | 0 | 3 | 0 | 0 |
| Trashiyangtse | 0 | 0 | 0 | 0 |
| Trongsa | 0 | 0 | 0 | 0 |
| Tsirang | 0 | 0 | 0 | 0 |

| | | | | |
|-----------------|---|---|---|----|
| Wangdi | 0 | 3 | 0 | 0 |
| Zhemgang | 0 | 0 | 0 | 0 |
| Total | 0 | 6 | 0 | 28 |

10. Diagnostic Procedures

Table 10.1 Diagnostic procedures conducted at health facilities, July-September 2010

| District | X-Ray | | | Ultrasound | | |
|------------------------|-------|-------------|--------|-------------|-----------|--------|
| | Chest | Extremities | Others | Gynaecology | Abdominal | Others |
| Bumthang | 89 | 157 | 45 | 0 | 0 | 0 |
| Chukha | 727 | 490 | 199 | 715 | 411 | 180 |
| Dagana | 32 | 38 | 16 | 0 | 0 | 0 |
| Gasa | 0 | 0 | 0 | 0 | 0 | 0 |
| Haa | 39 | 47 | 7 | 58 | 0 | 29 |
| Lhuentse | 57 | 58 | 25 | 0 | 0 | 0 |
| Mongar | 841 | 272 | 336 | 392 | 475 | 23 |
| Paro | 204 | 257 | 119 | 0 | 0 | 0 |
| Pemagatshel | 79 | 50 | 44 | 173 | 283 | 3 |
| Punakha | 182 | 138 | 42 | 413 | 288 | 1 |
| SamdrupJongkhar | 211 | 128 | 50 | 131 | 109 | 79 |
| Samtse | 489 | 205 | 180 | 472 | 128 | 114 |
| Sarpang | 595 | 219 | 169 | 720 | 575 | 0 |
| Thimphu | 3511 | 2468 | 1706 | 3325 | 3856 | 336 |
| Trashigang | 499 | 132 | 130 | 837 | 294 | 3 |
| Trashiyangtse | 45 | 14 | 14 | 0 | 0 | 0 |
| Trongsa | 35 | 21 | 13 | 0 | 0 | 0 |
| Tsirang | 113 | 109 | 43 | 0 | 0 | 0 |
| Wangdi | 107 | 141 | 89 | 219 | 299 | 5 |
| Zhemgang | 79 | 84 | 29 | 0 | 0 | 0 |
| Total | 7934 | 5028 | 3256 | 7455 | 6718 | 773 |

11. Dental Services

Table 11.1 Dental services availed by people at health facilities, July-September 2010

| District | Prophylaxis | Scaling | Filling | Extraction | Others |
|------------------------|-------------|---------|---------|------------|--------|
| Bumthang | 15 | 0 | 234 | 346 | 315 |
| Chukha | 67 | 38 | 968 | 1057 | 1377 |
| Dagana | 33 | 1 | 214 | 247 | 381 |
| Gasa | 0 | 0 | 0 | 0 | 0 |
| Haa | 9 | 2 | 88 | 175 | 178 |
| Lhuentse | 1 | 4 | 88 | 62 | 109 |
| Mongar | 39 | 10 | 426 | 568 | 754 |
| Paro | 38 | 8 | 948 | 556 | 878 |
| Pemagatshel | 17 | 1 | 233 | 168 | 118 |
| Punakha | 80 | 4 | 139 | 256 | 327 |
| SamdrupJongkhar | 29 | 6 | 110 | 254 | 150 |
| Samtse | 126 | 0 | 219 | 145 | 278 |
| Sarpang | 18 | 0 | 991 | 618 | 1662 |
| Thimphu | 429 | 99 | 3908 | 3542 | 5993 |
| Trashigang | 9 | 0 | 394 | 769 | 655 |
| Trashiyangtse | 6 | 0 | 49 | 47 | 66 |
| Trongsa | 13 | 2 | 53 | 96 | 178 |

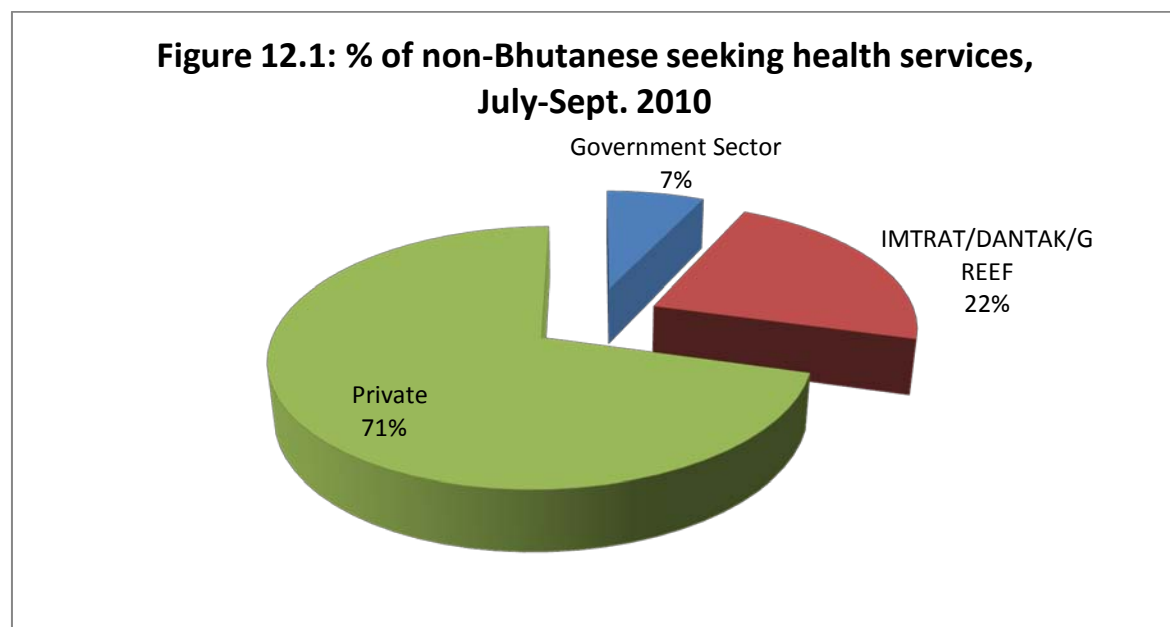
| | | | | | |
|-----------------|-----|-----|------|------|-------|
| Tsirang | 10 | 0 | 134 | 181 | 414 |
| Wangdi | 4 | 0 | 49 | 29 | 25 |
| Zhemgang | 11 | 3 | 85 | 118 | 148 |
| Total | 954 | 178 | 9330 | 9234 | 14006 |

12. Non-Bhutanese

Table 12.1 Health services availed by non-Bhutanese, July-September 2010

| District | Government Sector | IMTRAT/DANTAK/GREEF | Private |
|------------------------|-------------------|---------------------|---------|
| Bumthang | 83 | 3 | 191 |
| Chukha | 91 | 884 | 289 |
| Dagana | 3 | 0 | 384 |
| Gasa | 0 | 0 | 0 |
| Haa | 0 | 0 | 0 |
| Lhuentse | 3 | 2 | 196 |
| Mongar | 54 | 0 | 371 |
| Paro | 18 | 438 | 581 |
| Pemagatshel | 11 | 0 | 57 |
| Punakha | 34 | 0 | 177 |
| SamdrupJongkhar | 12 | 251 | 447 |
| Samtse | 80 | 0 | 692 |
| Sarpang | 50 | 158 | 624 |
| Thimphu | 28 | 63 | 409 |
| Trashigang | 35 | 334 | 253 |
| TrashiYangtse | 6 | 0 | 43 |
| Trongsa | 152 | 0 | 231 |
| Tsirang | 0 | 0 | 0 |
| Wangdi | 9 | 5 | 1628 |
| Zhemgang | 12 | 0 | 226 |
| Total | 681 | 2138 | 6799 |

*The report is only for the district hospitals



13. Malaria Report

Table 13.1 Malaria report, July-September 2010

| Variables | 0-4years | | 5-14 yrs | | 15-49 years | | >50years | | Total | | G. Total |
|-----------|----------|--------|----------|--------|-------------|--------|----------|--------|-------|--------|----------|
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | |
| Mix | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 2 | 1 | 3 |
| Pf | 1 | 0 | 1 | 3 | 6 | 2 | 0 | 0 | 8 | 5 | 13 |
| Pv | 1 | 0 | 3 | 1 | 20 | 5 | 2 | 1 | 26 | 7 | 33 |
| Death | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

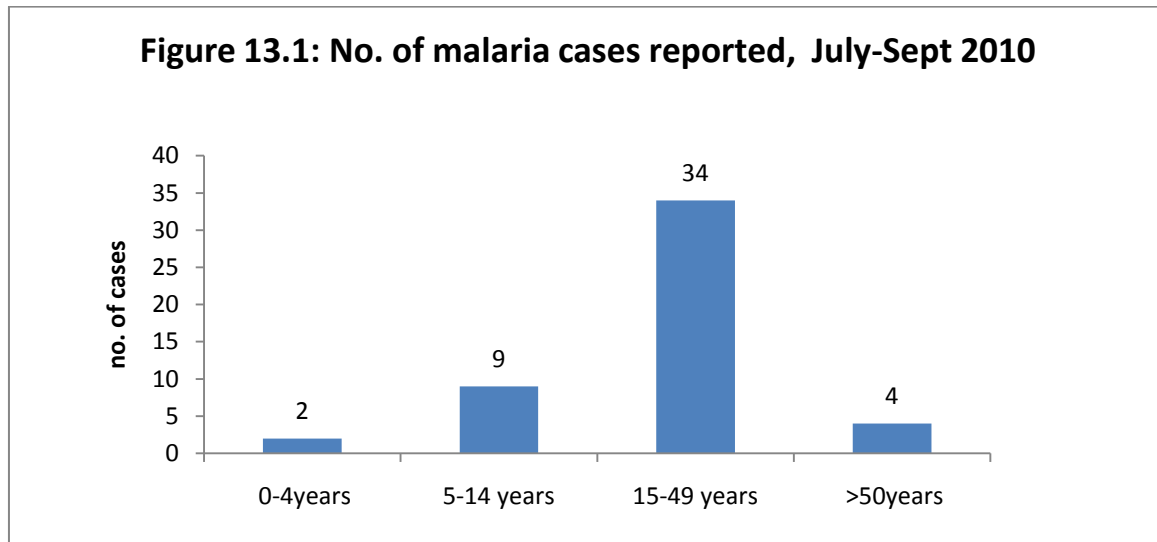


Figure 13.1 indicates that the most effected age group is 15-49; this however can also be because it is the largest group among all the age groups. Next most effected age group is 5-14 year. 67% of the malaria cases reported were PV followed by 26% of PF and 6% of mixed cases. There were no deaths reported due to malaria in the 3rd quarter of 2010.

14. TB Report

Table 14.1 Treatment outcome indicators July-September 2009

| Indicators | New P Positive % | Relapse % | Failure % | Default % |
|----------------|------------------|-----------|-----------|-----------|
| Cure rate | 83.62 | 75.0 | 66.66 | 33.33 |
| Completed rate | 8.62 | 12.5 | 16.66 | 66.66 |
| Success rate | 92.24 | 87.5 | 83.33 | 100 |
| Mortality D/A | 2.59 | 12.5 | 0 | 0 |
| Failure rate | 3.45 | 0 | 16.66 | 0 |
| Default rate | 1.72 | 0 | 0 | 0 |

Table 14.2 Laboratory report & Case finding of new and re-treatment cases, July-September 2010

| Gender | No. of sputum examined | No. of sputum smear positive | Laboratory indicator smear positive (%) | Total no. of cases | Case finding indicator (%) |
|--------|------------------------|------------------------------|---|--------------------|----------------------------|
| Male | 1042 | 71 | 6.81 | 185 | 31.76 |
| Female | 894 | 66 | 7.38 | 170 | 34.81 |
| Total | 1936 | 137 | 7.08 | 355 | 33.23 |

Table 14.3 Smear conversions at 2/3 months for national level, April-June 2010

| Types of cases | No. registered | Negative | Positive | No result | Smear-conversion (%) |
|----------------|----------------|----------|----------|-----------|----------------------|
| New | 123 | 98 | 14 | 11 | 79.67 |
| Relapse | 25 | 22 | 1 | 2 | 88.0 |
| Failure | 5 | 3 | 2 | 0 | 60.0 |
| Default | 2 | 1 | 0 | 1 | 50.0 |

The Policy and Planning Division would like to solicit reviews and feedbacks for the betterment of the publication. Suggestions, views and constructive criticism are always welcome.

Any queries may be forwarded to address given below.

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