Worldwide healthcare delivery services are provided and regulated as well as monitored by applying standard regimens. It is pivotal for patient health, safety and efficient treatment and healthcare services provision. **Objective:** To assess the knowledge, attitude and practices of healthcare service providers about Minimum Service Delivery Standards. **Methods:** It is a cross-sectional study in which a questionnaire was developed to study minimum service delivery provision towards patients by professional healthcare providers. A complete performance was filled by interviewing doctors (MBBS), dentists, nurses, dispensers and paramedical staff working at BHUs and RHCs. The data was collected after informed consent following ethical considerations and guidelines by University of Lahore. The data was entered and analyzed using SPSS version 22. **Results:** The results show the good knowledge of HCPs was recorded in the lowest parameter of 1.5% while poor knowledge was scored 95.5%. The attitude of HCPs toward was recorded the positive attitude 58.3%, neutral 40.2% while negative attitude 1.5%. The practices of MSDS at healthcare facilities was scored good practices 4.9%, satisfactory practices was recorded 0.4% while poor practices of MSDS was recorded 94.7%. **Conclusion:** Using MSDS parameter the one can create a better environment of healthcare to patients. The medical and paramedical staff should meet all standards assured in the current study to make a better place for the sake of health and treatment.
Bed strength, Cat-II-B Hospitals 16-30 indoor Bed strength, Cat-II-C HCE 01-15 indoor Bed strength and Cat-III HCEs day care centers (OPD services only) [4,5]. PHC maneuver MSDS according to categories besides different in numbers as per their scope of work. The RHC is consist of 20 indoor beds and fall in category-II C and MSDS for RHC comprise of 10 functional areas 28 standards and 95 indicators [5]. While BHU is consist of 02-03 beds for only short admissions of patients to provide day care services and fall in Cat-III. So the MSDS for BHUs is comprise of 10 functional areas, 24 Standards and 75 indicators to improve the quality of healthcare services as per their service delivery packages[6,7]. The BHUs and RHCs mainly provide primary healthcare services at the door step of community. Approximately the RHCs and BHUs are providing services to about 80 Million patients per annum in Punjab[8]. A huge number of patient turn over on these facilities. So implementation of these service delivery standards can play important role to expand the service delivery structure [3]. There should be a mechanism of pre service and in service training of all medical professionals through health institutions[8]. The Service delivery standards may also be included in the Syllabus of health professionals. Furthermore, the teaching institutes and health department should conduct capacity building workshops of newly inducted doctors and allied health professionals and refresher trainings over a period of time [9]. It is a matter of quality assurance, quality improvement and patient safety[10]. Enforcement of these quality standards is also another challenge for the authorities as there are certain factors which may contribute in poor compliance for implementation of these standards. It may be lack of awareness of service providers about standards, hesitant arrogant behavior, misconceptions, political and socio-economic factors etc [11,12]. In 2010 the Punjab Healthcare Commission Act was passed, which mandates the Commission to improve the quality of services and regulate the health care establishments by implementing service delivery standards with the objective to eliminate avoidable errors in clinical and patient management areas, it is mandatory for all health care service providers to comply with MSDS to get the license from PHC [7,13,14]. The Punjab Healthcare Commission has started orientation program and trained only 02 healthcare service providers on MSDS from each RHCs and BHUs in Punjab and also provide MSDS reference manuals to facilitate the implementation of MSDS [19]. There is huge turn over regarding transfer posting of service providers at these facilities and frequent induction of doctors and Paramedics on regular basis [20]. There is also no periodic and regular mechanism to monitor the implementation of MSDS by health facility in charge and District health management team. There is no long term solution to sustain the implementation of these standards on these healthcare facilities [17-21].

**M E T H O D S**

It is a cross sectional study in which questionnaire was developed to study minimum service delivery provision towards patients by professional health care providers. A complete Performa was filled by interviewing doctors (MBBS), dentists, nurses, dispensers and para medical staff working at BHUs and RHCs of District D.G. Khan. A self-administrated questionnaire is developed and validated by conducting pilot study on 15 healthcare service providers. The knowledge, attitude and practices construct will be measured using 15-item from yes to no answers 0-15 score. The data was collected after informed consent following ethical considerations and guidelines by University of Lahore. The data was entered and analyzed using SPSS version 22. The numeric data was summarized using descriptive statistics (mean and standard deviation). The categorical data like knowledge of MSDS was summarized using frequency and percentages.

**R E S U L T S**

A questionnaire was developed with basic vitals of gender, age, qualification, designation and Type of HCE. This questionnaire was based on three main portions and each portion was filled carefully, which are: Knowledge, Attitude, Practices. Every part of questionnaire was consisting of 15 questions. Result of this pilot study analyzed using Cronbach’s alpha value. More than 12 correct answers measure Good Knowledge (80%). More than 9-11 correct answers measure satisfactory knowledge (60-79%) and below 9 correct answers measures poor knowledge (below 60%).
endorse form consent. And most important question was done that was prescriptions are reviewed and stamped by medical officers or not. When professional HCPs were asked 15 different questions to judge their knowledge grip on provision of skills and MSDS to the patients, it was noticed that they had least knowledge about MSDS and health care facilities. Their response was least recorded at question in which it was asked that “do you know how many standards are there for BHU” only 2.27% HCPs were aware to it. 73% of professional HCPs were agreed on the point that patient’s prescription should be stamps and alleged.

Table 1: Cronbach’s Values

<table>
<thead>
<tr>
<th>Variables</th>
<th>No. of Questions</th>
<th>Sum of variances of questions</th>
<th>variances of total score</th>
<th>Cronbach’s alpha value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge</td>
<td>15</td>
<td>1.70</td>
<td>6.36</td>
<td>0.7852</td>
</tr>
<tr>
<td>Attitude</td>
<td>15</td>
<td>1.32</td>
<td>5.00</td>
<td>0.7874</td>
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<tr>
<td>Practices</td>
<td>15</td>
<td>0.98</td>
<td>2.40</td>
<td>0.6346</td>
</tr>
</tbody>
</table>

Table 2: The HCE type wise frequency of Healthcare Service Providers

There were 264 HCSP in this study in which 128 (48.5%) HCSP from BHUs and 136 (51.5%) HCSP from RHCs.

Table 3: The Qualification wise frequency of Healthcare Service Providers

There were 264 HCSP in which 70 (26.5%) MBBS, 06 (2.3%) Dental surgeons, 19 (7.2%) Nurses and 169 (64.0%) paramedical staff

Table 4: The frequency and percentage of Healthcare Service Providers Knowledge, Attitude and Practices of MSDS

The study on 264 HCSP reveals that 1.5% good, 03% Satisfactory and 95.5% poor knowledge, 1.5% Negative, 40.2% Neutral and 58.3% Positive attitude. 4.9% good, 0.4% Satisfactory and 94.7% poor practices of MSDS.

Figure 1: The comparison of frequency and percentage of Knowledge of HCSP about MSDS

Multiple questions were asked from health service providers from this section “Knowledge”. These questions were about MSDS, their number and types, compliance requirement, quality assurance, domicile policy, verbal and
Knowledge Attitude and Practices of Healthcare Service Provider were representing different qualification from BHUs and 136 (51.5%) from RHCs. The Healthcare Service Provider were in young age group 70.2% and about 16.1% were from 31-40-year age group and remaining about 14% were old age whereas the previous study by A Ranasinghe relate with the current findings [22].

In accordance to this study HCSP represent 128 (48.5%) from BHUs and 136 (51.5%) from RHCs. The Healthcare Service Provider were representing different qualification and designations, in which 70 (26.5%) MBBS doctors, 06 (2.3%) Dental surgeons, 19 (7.2%) Nurses and 169 (64%) paramedical staff. It reveals majority of Healthcare Service Provider were para medical staff and doctors. A study was conceded in Nigeria 2016 about knowledge attitude and Practices of healthcare providers to appropriate medical waste management and occupational safety. The results revealed that 40% of healthcare managers had got trained on medical waste management and occupational safety. Only 1.9% hospitals had good knowledge and were Practices safe waste disposal while 98.1% were poor knowledge & Practices inadequate waste disposal. While 100% Healthcare facilities have good attitude towards MSDS. However, majority of HCPs working at BHUs revealed that attitude towards implementation was not satisfactory except in few cases. 0.37% of application of MSDS was responded in positive response while 78.7% professional HCPs responded that HCE has complaint management system.

**DISCUSSION**

In accordance to the present study a sample of 264 Healthcare service providers from BHUs and RHCs was collected among Doctors, Dental surgeons, Nurses, LHVs, Midwives and Para medical staff. In this sample 156 (51.1%) Healthcare Service Provider were females and 108 (48.9%) were males. The HCSP were with different age groups 21-30 years 103 (75.2%), 31-40 years 22 (16.1%), 41-50 years 8 (5.8%) and 51-60 years 4 (2.9%). This indicates majority of Healthcare Service Provider were in young age group 70.2% and about 16.1% were from 31-40-year age group and remaining about 14% were old age whereas the previous study by A Ranasinghe relate with the current findings [22].

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The qualification wise distribution of HCPs for patients awareness etc. in case of implementation of MSDS multiple questions were asked and it was observed that attitude towards implementation was not satisfactory except in few cases. 0.37% of application of MSDS was responded in positive response while 78.7% professional HCPs responded that HCE has complaint management system.

**CONCLUSION**

This study shows that Knowledge of HCPs working at BHUs and RHCs is poor as Majority of staff was newly appointed and not aware of MSDS requirement. Due to which quality of healthcare and patient safety is extremely compromised. Practices of MSDS are associated with knowledge of HCPs about MSDS. However, majority of HCPs working at BHUs and RHCs have good attitude towards MSDS implementation.

**REFERENCES**


