

A QUESTIONNAIRE SURVEY BASED COVID-19 APPRAISAL STUDY

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Abstract:

Objective:

To seek and analyze knowledge and information known to MDS students about masks and medical gowns they wear while attending or treating patients in Covid-19 pandemic.

Method:

This study evaluated post graduate students of MIDSR Dental College Latur based on structured printed questionnaire. The questionnaire was designed with closed-ended (dichotomous and multiple choice questions) and open-ended questions. The target sample size was 45 (total PG's students), amongst 44 participated in the survey. It was conducted from 18th September, 2020 to 25th September, 2020. To make it unbiased personal identification was made optional. The data was analyzed based on clear and readable answers.

Results:

Total 44 students actively participated in the study. Among them 40.91 % were male and 59.08% were female. The age of participates was from (average age) 24 to 35 years. According to statistical analysis 93% of students were using N95 type respiratory masks. 44 respondent use reusable/autoclavable types of medical gowns. Respiratory valve type mask is used by 37 participants and 67% responded to option "no" to framed question whether respiratory valve type mask is better than respiratory non-valve type mask. 44% participants dispose their reusable masks after 4-5 days of use.

Conclusion:

MIDSR dental college MDS students have basic knowledge about masks and medical gowns. For more advanced and indepth knowledge about PPE,s further education and comprehension is required.

Keywords: SARS COV-2; Covid-19; questionnaire survey; Clinical practices; Personnel protective equipment; Dental hospital; Maharashtra, India.

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INTRODUCTION:

A deadly virus evolved in December-2019. This virus expanded globally from Wuhan, China and was reported to cause the severe acute respiratory syndrome. It was declared a pandemic on March 11, 2020, by the World Health Organization (WHO).^[1] The International Committee of Taxonomy of Viruses (ICTV) gave the name SARS-COV-2, Severe Acute Respiratory Syndrome (SARS-2), as it significantly affects the Upper respiratory tract. Presentation of COVID-19 and the disease course is unpredictable and ranges from asymptomatic to mild respiratory infections to pneumonia and even acute respiratory distress syndrome (ARDS),^[2] including severe morbidity and mortality. The symptoms may include fever, sore throat, dry cough, muscle pain, excessive fatigue, reduction or loss of smell or taste. Other diagnosed cases may present flu-like symptoms (runny nose)^[3-5] or stomach upset (nausea or diarrhea), and severe symptoms include respiratory distress and pneumonia.^[6-8] The SARS-CoV-2 has a size of between 60 and 160 nm, which is very similar to the size of influenza viruses (80-100 nm). Therefore, one exhaled breath aerosol particle (between 0.1 and 0.5 micrometer) could contain at least one virus.^[9]

Covid -19 virus is transmitted in direct or indirect ways. The direct spread is through direct contact with an infectious person and indirectly through aerosol, droplets (coughing, sneezing), contact with contaminated surfaces, or the mucosal surface of the face such as oral cavity, nose, and eyes with infected hands.

The virus is transmitted through aerosol or by touching contaminated hands to any part of the face; one should cover and protect these surfaces to prevent exposure and also to prevent the spread. In the covid crisis, different types of masks became available to protect one from direct exposure. WHO has also given various guidelines regarding different types of masks, how to wear the Mask, disposal methods, etc.

The water spray in and around dental practitioners produce aerosols. Dentists daily deal with aerosols in the form of ultrasonic splatter, air-rotor splatter during its use, and they are also at a high risk of

contagion due to the exposure to saliva, blood, and aerosol/ droplet production during the majority of dental procedures. These instruments create a visible spray containing droplets of water, saliva, blood, microorganisms, and other debris.^[10] Aerosol particles can remain suspended in the clinical environment for up to 30 minutes after the end of an operative procedure.^[11]

The dentist should take specific precautionary measures about the aerosol procedures and to prevent and control the spread of infection. So to prevent the exposure and spread of the covid-19 virus, dentists must use masks and medical gowns, and other personal protective equipment (PPE). There are different varieties of masks and medical gowns available in markets, such as three-ply masks, two-ply masks, N-95 masks, cloth masks, homemade masks, etc. The gowns are also available in several varieties depending upon coverage and weaving materials. This study was done to evaluate the types of masks and medical gowns used among MDS students.

METHODS:

During the academic year of 2020-2021, this survey was conducted at MIDSR DENTAL COLLEGE, research, and teaching institute at Latur. The survey was a cross-sectional type of survey. The method used to collect each participant's responses was based on structured printed questionnaire. The target population was MDS students from the same college. Out of 45 enrolled PG students, 44 students submitted their responses. The questionnaire was formulated simple and clear to get an appropriate response and also to reduce bias. The local ethical board approved this study of the institution. Before conducting the survey, each student's oral consent was taken and made them understand the importance of this survey.

This survey included specific Inclusion and Exclusion criteria.

Inclusion criteria:

- 1] MDS students of First, Second and Third year.
- 2] No age limits.
- 3] Male and female MDS students.

Exclusion criteria:

- 1] Participants refusing to give consent for the study.
- 2] Pass out students from the same college.
- 3] Paramedical staff
- 4] Covid positive students

The survey was conducted from September 18, 2020, to September 25, 2020. It was conducted in six different departments, and the format was circulated to each MDS student personally in printed form.

The questionnaire format has been divided into five sections and gave each section a separate title. Titles for sections were formatted, keeping the expected understanding of the subject by the students. Most of the questions were close-ended, but very few were open-ended.

Questions in each section were as follows:**Section A: Basic Information**

Name of the PG student: (Optional):-

Age:-

Sex:-

Department (Optional):-

Pedo./Ortho./Endo./Prosth./OS./Pedo.

In which Year of MDS are you? - First/Second/Third

Section B: Information regarding MASKS**1] What type of Mask are you using for patient management in your department?**

- (I) Medical Mask (3 ply)
- (II) Respiratory Mask (e.g., N-95)
- (III) Non-Medical Mask (cloth mask)
- (IV) All of the Above
- (V) Any other.....

2] If you are using Respiratory Mask, Which type of Respiratory Mask are you using?

- (I) N95
- (II) KN95
- (III) FF2
- (IV) FF3
- (V) Others.....

3] Does your Respiratory Mask have a valve?

- (I) Yes
- (II) No

4] Do you reuse your Mask?

- (I) Yes
- (II) No

5] If you are reusing your Mask, which type of Mask you are reusing?

- (I) Medical Mask (3 ply)
- (II) Respiratory Mask (e.g., N-95)
- (III) Non-Medical Mask (cloth mask)
- (IV) All of the Above
- (V) Any other.....

6] How many days after you reuse the Mask?

- (I) I don't reuse any of the masks
- (II) The next day
- (III) After 2-3 days
- (IV) After 4-5 days
- (V) After more than five days

7] If you reuse your Mask, after how many reuse cycles you dispose of it off?

- (I) I don't reuse any of the masks
- (II) After 2-3 times of reuse
- (III) After 4-5 times of reuse
- (IV) Dispose off only after visible soiling or tearing of the Mask

8] How many Masks you use while treating patients? (One Mask over the other Mask)

- (I) I use only a single Mask
- (II) I use two similar masks over one another
- (III) I use two different masks over one another
- (IV) I use more than two masks

9] For how many hours can you comfortably wear a respirator Mask continuously in your department?

- (I) Less than 1 hour
- (II) More than 1 hour but less than 2 hours
- (III) More than 2 hours but less than 3 hours
- (IV) More than 3 hours but less than 4 hours
- (V) More than 4 hours

Section C: Information about MEDICAL GOWNS and PPE kits

1] What type of Medical Gown do you wear?

- (I) Disposable
- (II) Reusable/ Autoclavable
- (III) I don't use gowns

2] If your Medical Gown is reusable, what is its making material?

- (I) 100% Cotton
- (II) 100% polyester
- (III) Polyester + Cotton
- (IV) No idea

3] What type of Cuff does your Medical Gown have?

- (I) Elastic Cuff
- (II) Knit cuff
- (III) Thumb Cuff
- (IV) None of the above

4] What type of Neck Closure your Medical gowns have?

- (I) Tape Tab Neck
- (II) Hook & Loop
- (III) Both
- (IV) Other than above
- (V) No idea

5] How many hours you can comfortably wear your Medical gown?

- (I) Less than 1-hour
- (II) More than 1 hour but less than 2 hours
- (III) More than 2 hours but less than 3 hours
- (IV) More than 3 hours but less than 4 hours
- (V) More than 4 hours

Section D: IDEAL REQUIREMENTS OF A MASK

1] Does your Mask cover your Nose to chin area?

- (I) It does cover my Nose only
- (II) It does cover my Nose and chin
- (III) It doesn't fit my Nose
- (IV) It doesn't fit my chin
- (V) It neither covers my Nose nor my chin

2] Does your Mask's Nose Bridge properly fit your Nose?

- (I) Yes
- (II) No
- (III) Don't know

3] What types of elastic cords/ tie bands does your Mask have?

- (I) The secure Ears loop behind the ears
- (II) Head and neck loops Mask
- (III) Tie back Mask
- (IV) Other than above

4] If you are using Earloop Mask, does it lead to discomfort to your ears?

- (I) Always
- (II) Sometimes
- (III) Never

5] Which Mask is ideal for you for patient management (non-aerosol procedures)?

- (I) Cloth mask
- (II) Two-ply surgical mask
- (III) Three ply surgical mask
- (IV) Respirators (e.g., N95)
- (V) No idea

6] Which Mask is ideal for you for patient management (aerosol procedures)?

- (I) Cloth mask
- (II) Two-ply surgical mask
- (III) Three ply surgical mask
- (IV) Respirators (e.g., N95)
- (V) No idea

7] Do you think a Respiratory Valve type Masks is better than Respiratory Non-valve type Masks?

- (I) Yes
- (II) No
- (III) I never used respiratory valve type Masks

8] If you are using Respiratory Valve type Masks, in what way is it better?

- (I) It allows me to breathe
- (II) It will cause me less exertion than respiratory Non-valve type masks

- (III) It will provide me more comfort than Respiratory Non-valve type masks
- (IV) Other than the above options
- (V) All of the above options

9] Do you check the quality of Mask before you buy them?

- (I) Yes
- (II) No

10] How do you check the quality of Masks?

- (I) Fit test
- (II) Any holes in the Mask
- (III) Any dirt on Mask
- (IV) All of the above
- (V) None of the above

Section E: IDEAL REQUIREMENTS OF MEDICAL GOWNS

1] How much length do your Medical Gowns cover your body?

- (I) Up to the knee
- (II) Just below the knee
- (III) Till toe (having foot cover)

2] Does your Medical Gowns cover your body completely?

- (I) Yes
- (II) No
- (III) Never observed

3] What types of Sleeves your Medical Gowns should have?

- (I) Long sleeves
- (II) Short sleeves
- (III) Sleeveless

Enough confidentiality was maintained regarding personal information, and even if someone mentioned their names and departments, the data was kept secret and inaccessible to people other than the investigators.

The data was then collated, tabled, and subjected to simple statistical tests.

RESULTS:

Demographic data is represented in Table No 1. Total 44 students responded; amongst them, female students were 26 (59.09%), and male students were 18 (40.91%) followed the next. The majority of students were from 1st year 17 (38.64%) followed by 2nd 12 (27.27%) and 3rd 15 (34.09%).

According to section B questions, 93% of students use a respiratory type of masks as shown in Graph No 1; among the respiratory type of masks, 91% are using N95 Mask while 37 respondent use respiratory masks having valve according to Graph No 2 and 3. 39 students reuse there N95 type of respiratory masks according to graphic report soon in Graph No 4. According to statistical report as in Graph No 6, 39% reuse their Mask after 4-5 days, and 23% reuse their Mask after 2-3 days, and 44% dispose it off after 4-5 times of reuse, and 42% of them dispose it off after 2-3 times of reuse as in Graph No 7. Based on the study by the graphical method, as shown in Graph 8, while treating patients, 57% use two different types of masks one over another. 32% can wear masks for more than 2hrs but less than 3hrs based on the report of Graph No 9.

Based on the graphical report of Section C, regarding the information about medical gowns and PPE kits, 44 respondents use reusable/autoclavable type of medical gowns by analysis in Graph No 10. 61% of students use polyester+cotton material of medical gowns, as shown in Graph No 11. 73% and 46% have elastic type cuff and tape tab neck type of medical gowns according to Graph No 12 & 13. Statistical Graph No 14 shows that 34% and 25% can wear their gowns for more than 2 hrs and more than 1hours respectively.

According to section D and Graph No 15, 98% of student's mask cover their nose and chin, and 42 student's mask nose bridge properly fit their Nose as shown in Graph No 16. 48% of students use head and neck type masks, as reported in Graph No 17. The use of ear loop mask cause discomfort to ears to among 24 respondents according to graph no 18. For patient management during aerosol and non-aerosol procedures 55% respondent based on graph no 19 and 86% respondent based on graph no 20 use a respiratory type of mask. 67% of respondents think that respiratory valve type mask is not better than

respiratory non-valve type mask. Regarding the respiratory valve type masks, 41% have not selected any options, as shown in Graph No 22. According to Graph No 23 and Graph No 24, 43 students check the masks' quality, and 86% check all the mentioned quality, that is, the fit test, any holes in the Mask, and any dirt on Mask.

This survey has benefited all the students. On the students' feeding, the survey helped them gain information about various types of masks and gowns to be used in covid-19 pandemic, the reuse practice and made them curious to know about valves in Mask. It also helped them in selecting the masks and surgical gowns' quality.

DISCUSSIONS:

Students, especially those with limited clinical experience, should be very careful about infectious diseases to protect themselves and their patients, and the employees.^[12] The survey is set out to access the knowledge regarding the various types of masks and medical gowns. During the mid-phase of covid-19, students were more focused on masks and gowns to be used. The demands for facemasks and medical gowns were high during the same phase.^[13] A reported study says that most of the students use N95 masks. N95 is near the ideal mask for health care workers and dentists, as it achieves a very close facial fit and very efficient filtration of airborne particles. The edges of the respirator are designed to form a seal around the nose and mouth. A surgical mask is a loose-fitting, disposable device that creates a physical barrier between the mouth and nose of the wearer and potential contaminants in the immediate environment. Note that the surgical mask edges are not designed to form a seal around the nose and mouth.^[14] To increase the self-life of N95 masks, it can be covered by surgical masks, and it can be discarded after use. N95 may not provide full protection. Based on a study report, 37 students use respiratory valve type masks, and 41% have not responded about the betterment of respiratory masks this might mean that students know the disadvantage of respiratory valve type mask, but they still use them. Respiratory valve type masks are beneficial as it makes breathing more efficiently and reduces heat build-up. Note that a

respiratory valve type mask should not be used where the sterile condition is needed. If your respirator is damaged or soiled or breathing becomes difficult, you should remove the respirator, discard it properly, and replace it with a new one. To safely discard your N95 respirator, place it in a plastic bag, and put it in the trash.

According to CDC guidelines, N95 can be reused five times, rotate their use each day, allowing them to dry for long enough so that the virus is no longer viable (> 72 hours) Because coronavirus lose their viability significantly after 72 hours.^[15] 48% of students use head and neck loop masks as ear loop type of masks results in discomfort and pain over ears. Masks can be worn for more than 2hrs, but less than 3 hrs by 32% response given by students, and medical gowns can be worn for more than 1 hr but less than 2hrs by 34% response of students. Medical gowns are personal protective garments that act as a barrier between patients and clinicians to protect them from microorganisms, body fluids, and other particulate matters. It should cover the body from shoulder to knee and arm from wrist to above elbow.^[16] All the students use a reusable type of medical gowns and which is better than disposable gowns as disposable gowns release more toxins compounds such as dioxins and mercury into the environment during the disposable process and reusable gowns are not perfect but are better in terms of the environment.^[17]

CONCLUSION:

MIDSr dental college students have basic knowledge about masks and medical gowns. Majority of students knows the disadvantage of masks still 37 students they use respiratory valve type mask. For more advanced and in-depth knowledge about PPE,s further education and comprehension is required.

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Graph No 26: Does your Medical Gowns cover your body completely?

Graph No 27: What types of Sleeves your Medical Gowns should have?

Table No. 1

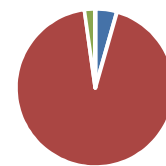
Profile		Number	Percentage
Gender	Male	18	40.91%
	Female	26	59.09%
Year of MDS	1 st years	17	38.6%
	2 nd years	12	27.7%
	3 rd years	15	34.09%

Graph No. 1: What type of mask you are using for patient management in your department?

1) What type of mask you are using for patient management in your department

(I) Medical Mask (3 ply)
5%

(II) Respiratory Mask (e.g. N95)
93%



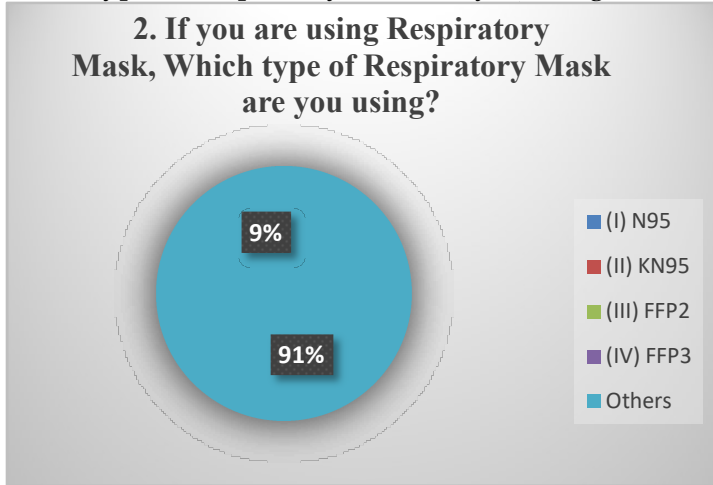
(III) Non Medical Mask (cloth mask)
2%

(IV) All of the Above
0%

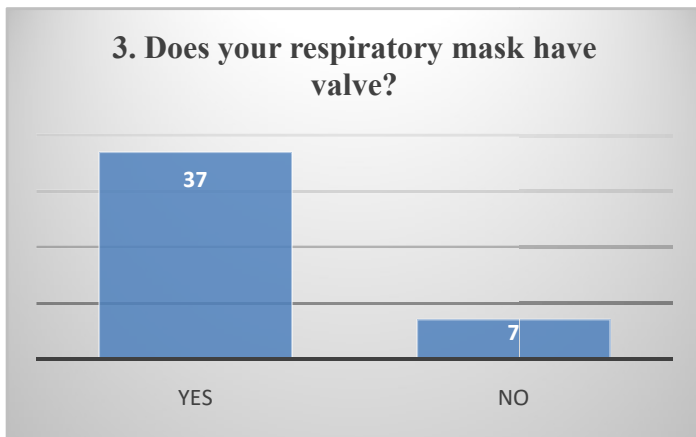
(V) Any other
0%

- (I) Medical Mask (3 ply)
- (II) Respiratory Mask (e.g. N95)
- (III) Non Medical Mask (cloth mask)
- (IV) All of the Above
- (V) Any other

Graph No 2: If you are using Respiratory mask, which type of Respiratory mask are you using?



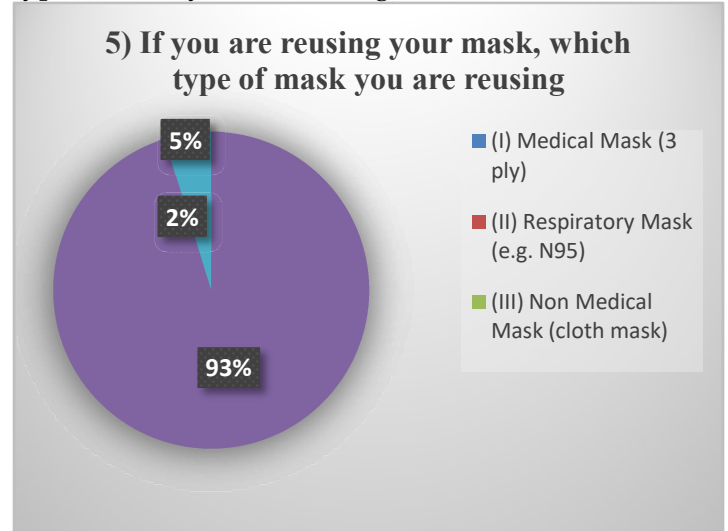
Graph No 3: Does your Respiratory mask have valve?



Graph No 4: Do you reuse your mask?



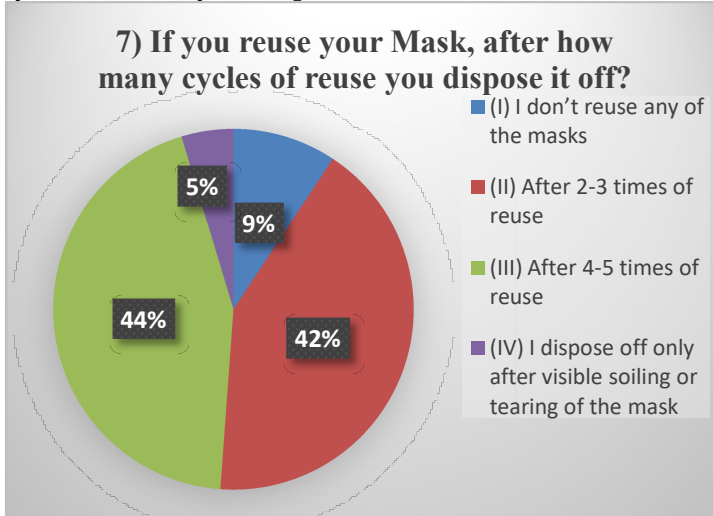
Graph No 5: If you are reusing your mask, which type of mask you are reusing?



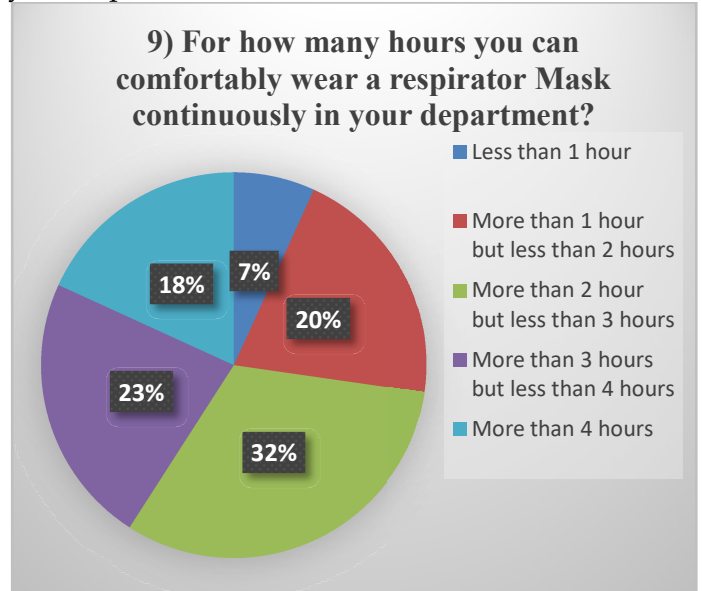
Graph No 6: How many days after you reuse the mask?



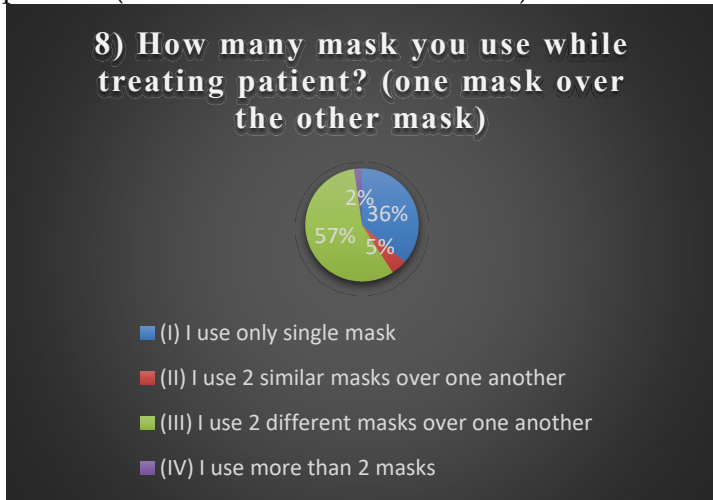
Graph No 7: If you reuse your mask, after how many cycles of reuse you dispose it off?



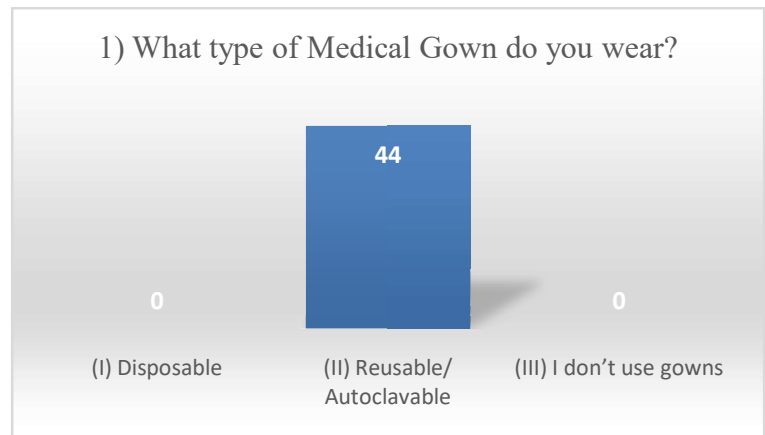
Graph No 9: For how many hours you can comfortably wear a respirator mask continuously in your department?



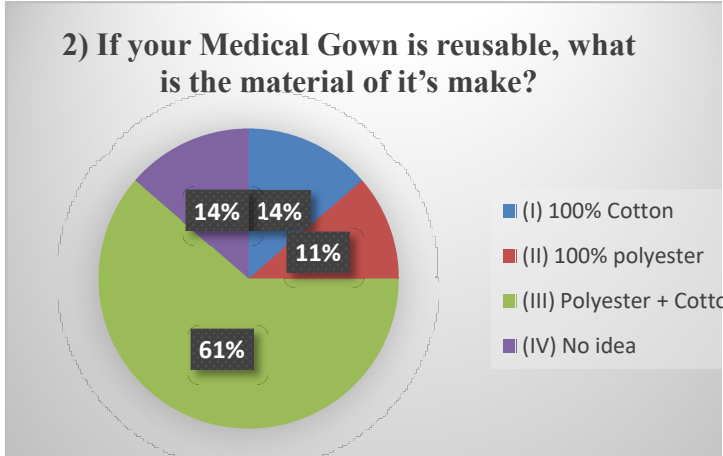
Graph No 8: How many mask you use while treating patient? (One mask over the other mask)?



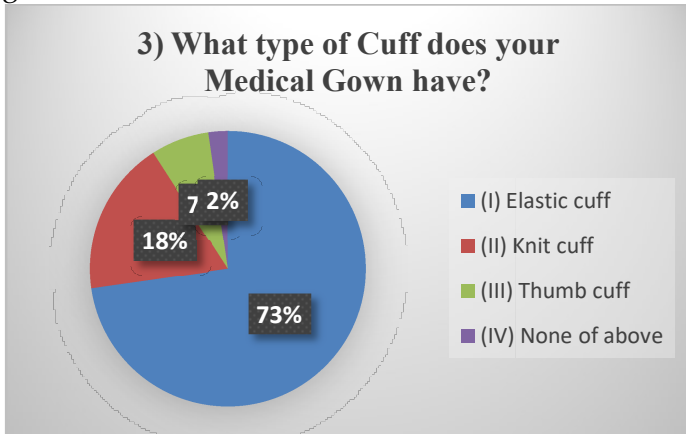
Graph No 10: What type of medical gown do you wear?



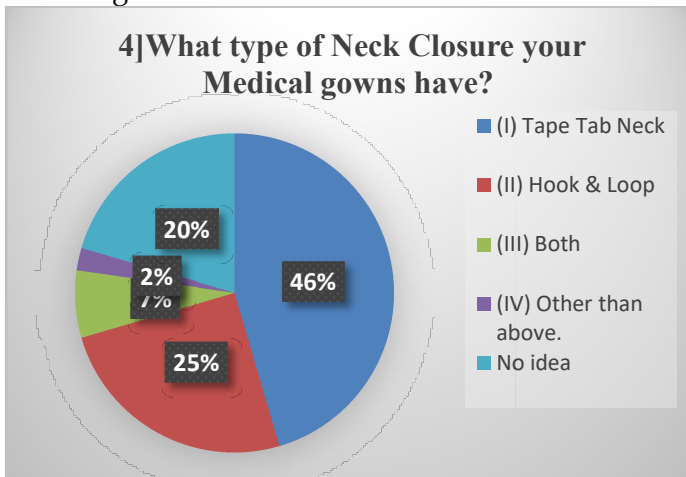
Graph No 11: If your medical gown is reusable, what is the material of it's make?



Graph 12: What type of Cuff does your medical gown have?



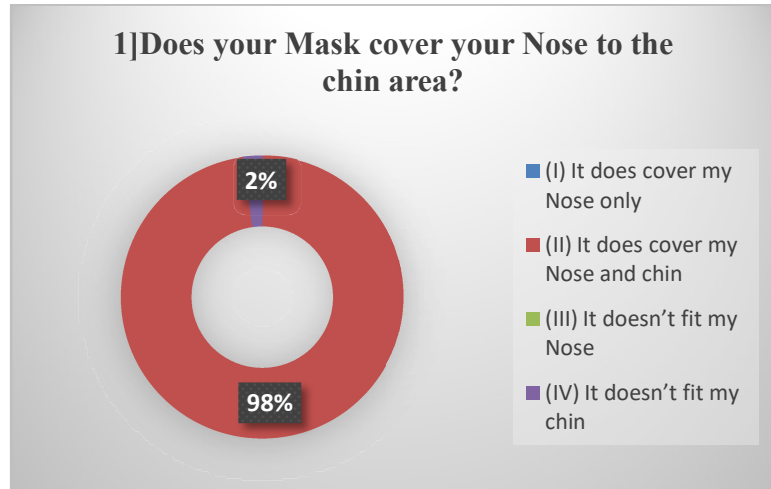
Graph No 13: What type of Neck Closure your medical gowns have?



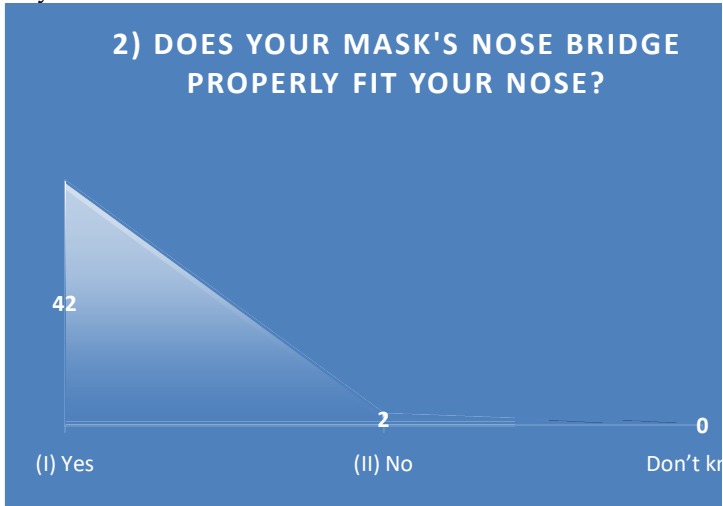
Graph No 14: How many hours you can comfortably wear your medical gowns?



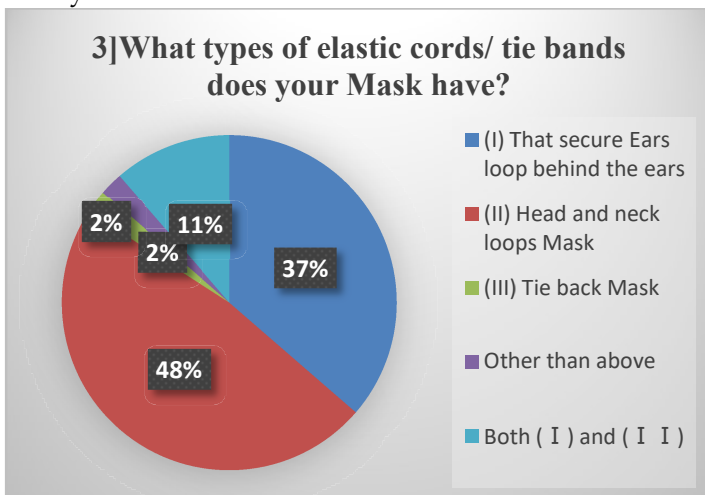
Graph No 15: Does your mask cover your nose to chin area?



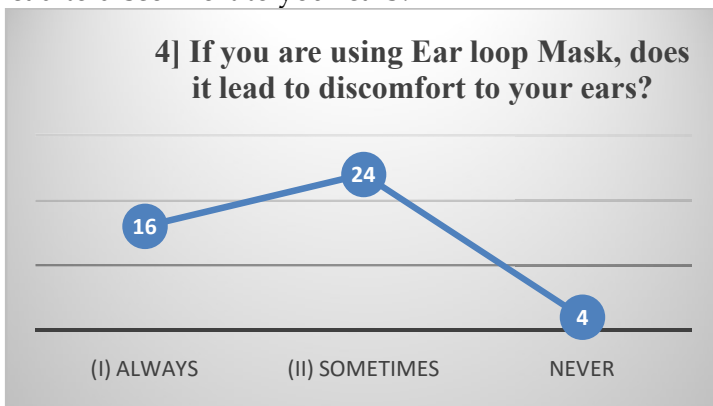
Graph No 16: Does your masks nose bridge properly fit your nose?



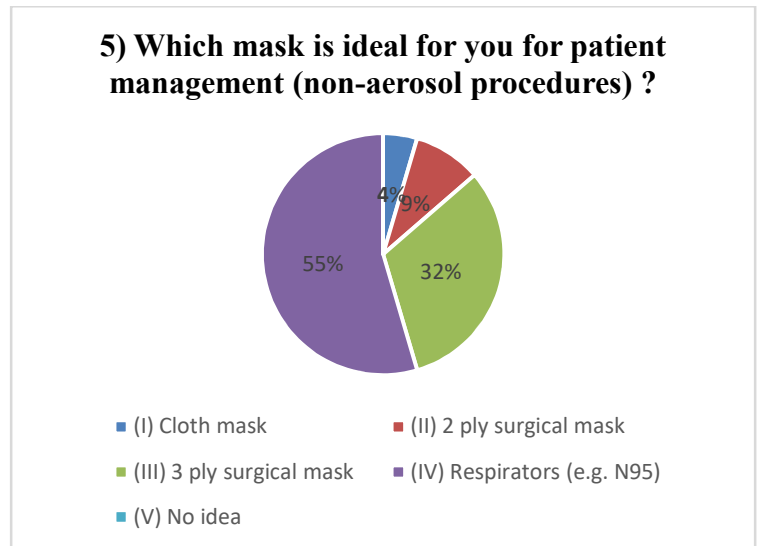
Graph No 17: What type of elastic cords/ tie bands does your mask have?



Graph No 18: If you are using Ear loop Mask, does it lead to discomfort to your ears?



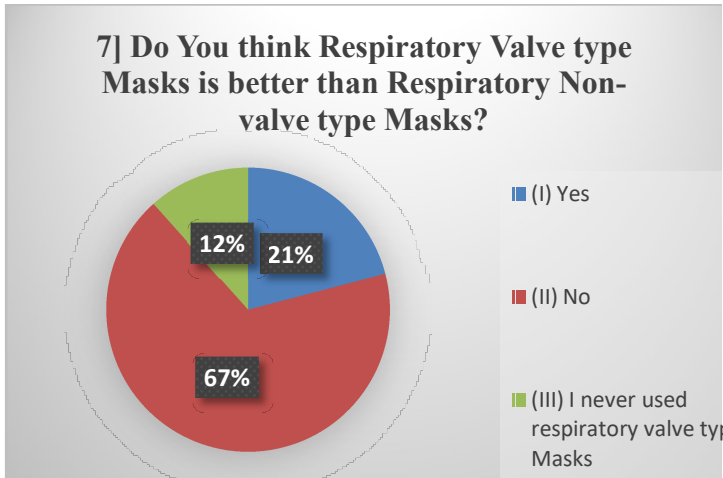
Graph No 19: Which mask is ideal for you for patient management (non-aerosol procedures)?



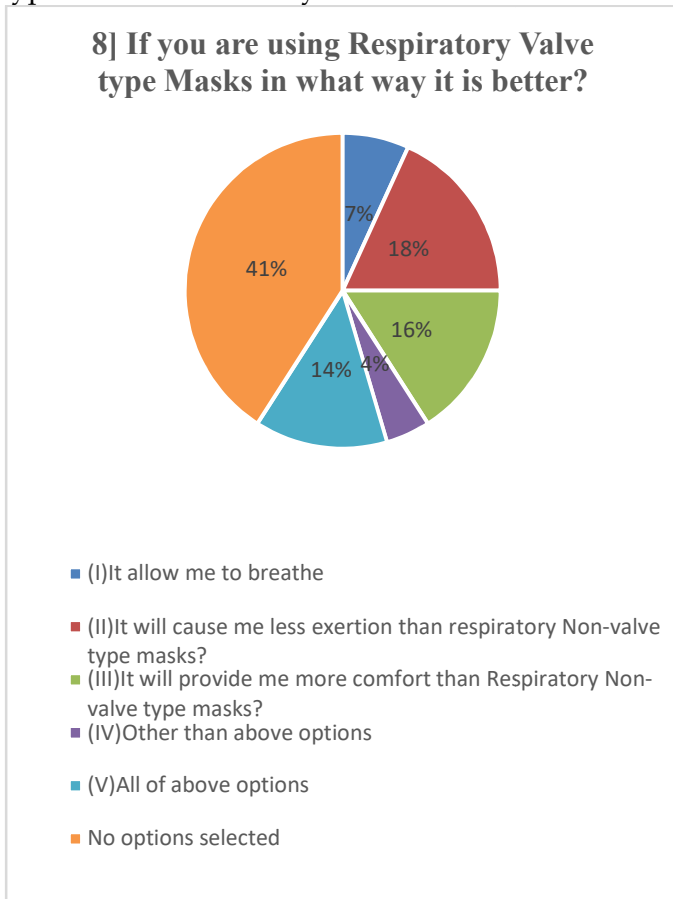
Graph No 20: Which mask is ideal for you for patient management (aerosol procedures)?



Graph No 21: Do you think Respiratory Valve type masks is better than Respiratory Non-valve type masks?



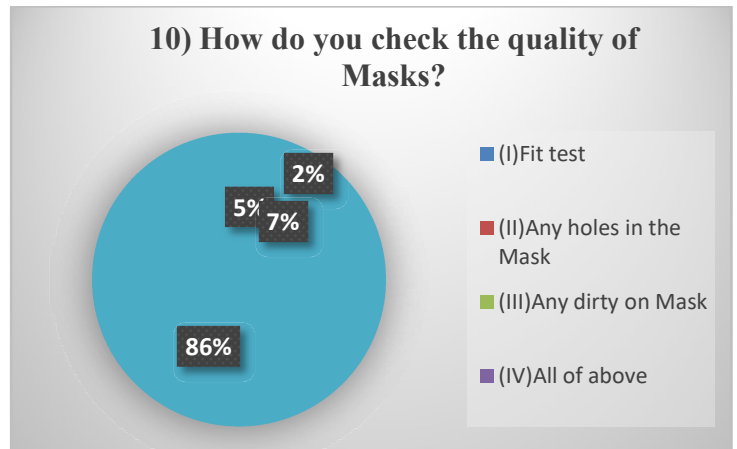
Graph No 22: If you are using Respiratory Valve type masks in what way it is better?



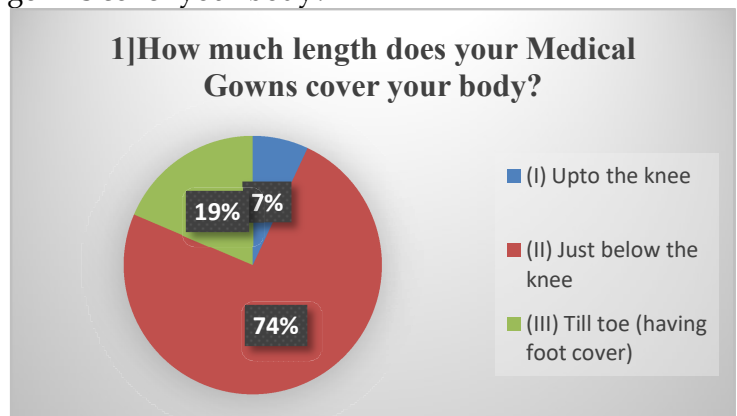
Graph No 23: Do you check the quality of mask before you buy them?



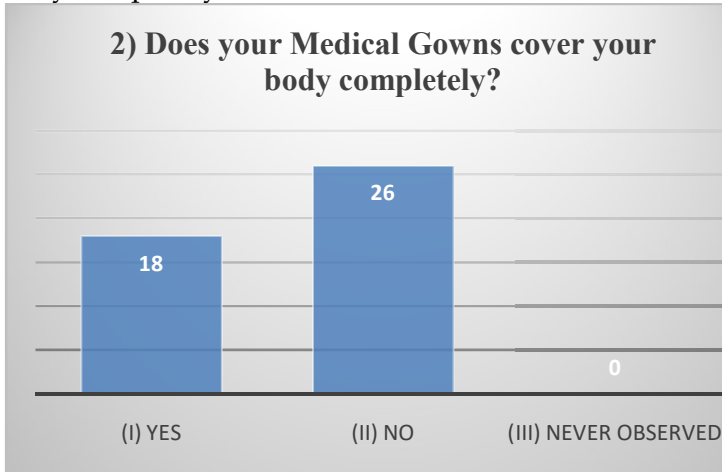
Graph No 24: How do you check the quality of masks?



Graph No 25: How much length does your medical gowns cover your body?



Graph No 26: Does your Medical Gowns cover your body completely?



Graph No 27: What types of Sleeves your Medical Gowns should have?

