



# Chhatrapati Shahu Maharaj Shikshan Sanstha's

# Ayurved Mahavidyalaya & Rugnalaya

# PATIENT SAFETY MANUAL



Kanchanwadi, Paithan Road, Chhatrapati Sambhajinagar, Maharashtra-431011



Estd : 1989 NCISM College Code AYU0153 MUHS College Code 3401

### NAAC ACCREDITED WITH B++, NABH & ISO 21001:2018 CERTIFIED छत्रपती शाह् महाराज शिक्षण संस्था सबलित

## आयुर्वेद महाविद्यालय व रुग्णालय

CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S

## AYURVED MAHAVIDYALAYA & RUGNALAYA

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#### AMENDMENT SHEET

Sr. No.	Section No. & Page No.	Details of the amendment	Reasons	Signature of the preparatory authority	Signature of the approval authority
1	Patient Safety Manual & Page no. 3	Name Change of Deputy Medical Superintendent	Staff Left		
2	Patient Safety Manual & Page no. 3	Name Change of Casualty Representative officer	Staff Left		
3	Patient Safety Manual & Page no. 3	Name Change of Medical officer in Safety Committee	-		
4	Patient Safety Manual & Page no.12	Pathology Lab included High risk Aeras	-	2	



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#### PATIENT SAFETY COMMITTEE OF CSMSS AYURVED COLLEGE

Dr. S.G. Deshmukh	Principal/M.S.
Dr. A.M. Ghotankar	Pharmacovigillance officer
Dr. D.J. Amle	H.O.D. Rognidan
Dr. B.N. Gadve	H.O.D. Shalya Tantra
Dr. Abhang S.P.	Bio Medical Engineer Head
Dr. N.R. Nimbalkar	Patient Safety Officer
Dr. M.R. Survase	Blood Transfusion Officer
Dr. Krushna Hamand	Medical officer
Dr. Tushar S. Kulkarni	Deputy Medical Superintendent
Dr. Amol Kale	Casualty Representative officer
Mr. R.L. Tambe	Engineer
Mrs. Sumitra Patil	Matron
Mr. Labade Devidas	Facility Manager
Mr. Kailas Chikne	Security officer

#### FREQUENCY OF MEETING

The Committee will meet approximately 4 times per year and at the call of the chair.

#### **QUORUM**

50% of membership

### MEETING VENUE

As decided by the chairperson

#### CIRCULATION

Minutes are circulated to all Committee members and management within a week.

### REPORTING RELATIONSHIP

Management through proper channel.

#### EVALUATION

Evaluation to be completed by the next

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#### PATIENT SAFETY MANUAL

#### CONTROL OF THE MANUAL

The holder of the patient safety manual is responsible for maintaining it in good and safe condition and readily identifiable and retrievable manner.

The holder of the copy of this manual will maintain it in current status by inserting latest amendments as and when the amended versions are received.

Safety officer responsible for issuing the amended copies to the copyholders and the copyholder should acknowledge the same and he/she should return the obsolete copies to the Infection Control Nurse.

The amendment sheet, to be updated (as and when amendments received) and referred for details of amendments issued.

The manual is reviewed once a year and is updated as relevant to the hospital policies and procedures. Review and amendment can happen also as corrective actions to the nonconformities raised during the self-assessment or assessment audits by NABH.

#### The authority over control of this manual is as follows:

Preparation	Reviewed by	Approval
Safety Officer	Principal, Chhatrapati Shahu Maharaj Shikshan Sanstha's Ayurved College and Hospital, Kanchanwadi, Chh. Sambhajinagar	Accreditation coordinator

The procedure manual with original signatures of the above on the title page is considered as 'Master copies' and the photocopies of the master copy for the distribution are considered as Zeshouses 'Controlled copy'.

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Chhatrapati Sambhajinagar.

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**Principal** 

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#### INDEX

Sr. No.	Topics
1	Organization of patient safety (Patient safety committee)
2	General protocol for Patient safety.
3	The organization implements the infection prevention and control program in clinical areas and patient's safety.
4	Safe clinical practices and hand hygiene
5	Safe Injection and Infusion Practices. (Transmission based precautions)
6	Medication safety
7	Safety against airborne transmission
8	Safety against contact transmission
9	Safety towards Blood Borne Transmission
10	Safe surgical practice
11	Health care associated infection (HAI) and patient's safety.
12	Health care worker safety.
13	Fire safety
14	Regular pest control in OPD/IPD area
15	Water RO plant for patient safety
16	Care and policy for vulnerable patients



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#### 1.0 ORGANIZATION OF PATIENT SAFETY

By Patient Safety, Chhatrapati Shahu Maharaj Shikshan Sanstha's Ayurved Mahavidyalaya, Rugnalaya mean prevention of harm to patients while receiving Health Care. Medical errors not only result in additional costs for hospitalization, litigation, hospital acquired infections, lost income and disability etc. but they also cause erosion of trust, confidence and satisfaction among the public and Health care providers.

The organization has a comprehensive and coordinated Patient Safety program aimed at reducing/eliminating risks to patients, and safety of patients, visitors, providers of care and community.

- A. Chhatrapati Shahu Maharaj Shikshan Sanstha's Ayurved College and Hospital has documented patient's safety program which aims towards the safety of patients.
- B. The patient's safety program is a continuous process and updated in every year. Chhatrapati Shahu Maharaj Shikshan Sanstha's Ayurved College and Hospital has Safety committee which coordinates all measures towards patient's safety.

#### SAFETY COMMITTEE

Dr. S.G. Deshmukh	Principal/M.S.
Dr. A.M. Ghotankar	Pharmacovigillance officer
Dr. D.J. Amle	H.O.D. Rognidan
Dr. B.N. Gadve	H.O.D. Shalya Tantra
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- · To conduct hazardous identification and risks analysis.
- To do root cause analysis for process failure, sentinel events and near misses, to take appropriate corrective /preventive actions.
- · To develop, implement and monitor the safety plan, policies and procedures.
- To ensure staff are educated on safety through effective training program.

#### FUNCTIONS OF COMMITTEE

- To identify potential safety and security risks to staff, patients and visitors to conduct an exercise of Hazard Identification and Risk Analysis (HRA) and ensure the necessary steps are taken to eliminate or reduce such hazards and related risks.
- To develop, implement and monitor the Safety Plan and Policies to conduct facility inspection rounds to ensure Safety. These rounds will be conducted twice a year in patient care areas and once a year in non-care patient areas.
- The inspection reports will be documented and corrective/ preventive measures undertaken.
- To conduct safety education program for all staff.
- . To develop safety manual and the same will be revised annually by safety committee.

**Dr. N.R. Nimbalkar** is designated as Patient safety Officer in Chhatrapati Shahu Maharaj Shikshan Sanstha's Ayurved college and hospital.

#### 2. General protocol for Patient safety

Chhatrapati Shahu Maharaj Shikshan Sanstha's Ayurved College and hospital provides adequate and appropriate personal protective equipment for the employees, soaps and disinfectant at the point of use and adequate inventory is maintained at all time to ensure availability of these. The organization has adequate fund and permits budget in this regard.

#### Personal protective equipment's includes

- Gloves
- Protective eye wear
- Mask
- Apron
- Gown
- Boots/ shoe covers
- · Cap/ hair cover



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The hospital has adequate and appropriate facilities for hand hygiene in all patient care area such as oil hand wash, large wash basin with elbow operated taps, sterile napkin; hand rubs etc. are available to all health care providers. The hospital defines the conditions where isolation, barrier nursing or both isolation and barrier nursing is required. The organization provides barrier nusrsing facilities such as clothing, mask, gloves etc.

#### Isolation Protocols

Definition: It is separation of infection person from non-infected persons for the period of communicability under conditions which will prevent the transmission of infection.

When patient comes with any infectious disease/ immune compromised state, the concerned ward staff will inform the ICN and she arranges the room for which isolation is required.

#### Contact Isolation

- Contact isolation is designed to prevent transmission of highly transmissible or epidemiologically important infections.
- b) All diseases or conditions included in this category are spread primarily.

### Specification for contact Isolation

- 1. Private room is indicated.
- Masks are indicated for those who come close to the patient.
- 3. Gowns are indicated soiling is likely.
- 4. Gloves are indicated for touching infective material.
- Protocols for receiving patient with Dengue and Chikungunya, Leptostirosis, Malaria
  - Receive the patient in isolation room/ward.
  - Inform Infection control Nurse.
  - Confirm report from laboratory.
  - 4. Provide isolation measures with facilities of mosquito, mosquito repellant.
  - 5. Infection Control Nurse will inform to RMO/DMS & Local Governing body.
  - Instruct the relatives to protect themselves and others by keeping the environment free from mosquito.

#### Drainage/ Secretion Precautions

#### Body substance Isolation

Drainage/ secretion precautions are designed to prevent infections that are transmitted by direct or indirect contact with purulent material or drainage from an infected body site.

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### Specification for Drainage/ secretion Precautions

- Masks are not indicated.
- 2. Gowns are indicated.
- 3. Gloves are indicated for touching infective material.

### Blood body fluid isolation

This type is designed to protect the caregiver from getting infected by the disease.

- 1. Specification for blood and body fluid isolation:
  - a) Private room required only if the person's hygiene is poor.
  - b) Use of mask is indicated if the patient is suffering from other infections e.g. Active Tuberculosis, Pneumonia.
  - e) Gowns are indicated if spillage with blood and body fluids is likely.
  - d) Gloves are indicated for touching blood and body fluids.
  - e) Wash hands immediately if potentially contaminated by blood or body fluids.
- 2. Disease conditions requiring blood and body fluids isolation.
- a) Acquired Immune Deficiency Syndrome (AIDS).
- b) Hepatitis B (HbsAg carrier).
- c) Hepatitis non-A, non-B.

### The following points are common for all the types of isolation

- a) Hands must be washed after touching the Patient or potentially contaminated articles and before taking care of any other Patient.
- b) Stick BIO-HAZARD symbol on the contaminated articles before sending to the CSSD.
- c) Discard all infectious wastes-non-plastic in appropriate plastic bag.

#### Protocol

- 1) Admission to an isolation room.
- Single use Disposable plastic apron should be worn for patient contact.
- 3) The gown/plastic apron and gloves should be removed before leaving the room.
- 4) Single use disposable gloves should be worn for handling contaminated tissue, dressing or heshmun linen, soiled gloves.

5) Hands must be decontaminated after removing the same.

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- Bed/ clothing should be changed daily.
- Linen bags must be sealed at the bed side and removed directly to the utility area or the collection point.
- 8) All instrument used for the patient care must be kept with the patient.
- 9) Use dedicated equipment's. Hand must be washed before and after contact with patient or their environment. Use Chlorhexidine or alcohol-based hand rub.
- 10) All single use items must be disposed of as clinical waste. Clinical waste bags must be sealed before leaving room. All reusable items would be processed in accordance with local disinfection policy.

### Pre and post exposure prophylaxis

Chhatrapati Shahu Maharaj Shikshan Sanstha's Ayurved College and hospital provides Hepatitis B vaccination for all staff as a part of pre-exposure prophylaxis.

### Managing exposure to potentially infectious body fluid: Categories of exposure

- Needle stick injuries
- Non-intact skin exposure
- Mucosal exposure e.g. splash into eye

#### Immediate action to be taken

- Wash in running water.
- 2. Non-intact skin exposure: Wash for 10 minutes with soap and water. Report to infection control nurse.
- 3. Mucosal exposure e.g. splash into eyes, wash for 10 minutes by using clean water or normal saline to irrigate the eye. The eyelid should be held open by another person wearing sterile gloves. Do not use soap and water or disinfectant.

### NEEDLE STICK INJURY

(Post exposure Prophylaxis)

- 1. Wash hand in running water with soap.
- 2. Inform to infection control nurse.
- 3. If housekeeping staff injured,

a. Inform housekeeping supervisor which is responsible to inform infection control nurse rincipal chhatrapati Shahu Maharaj Shiksner Santtia's

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#### Steps- Protocol/Manual

- 1. Check status of the injured staff.
- 2. Status of the source.
- 3. Inform the consultant.
- 4. Inform patient- Check patients' serology

### Step-1

- 1. If patients' serology- HepB+ve / Known case of HepB+ve.
- 2. Check vaccination status of injured person. If vaccinated Check HB A3 titer

If not vaccinated - Provide Hepatitis B vaccine.

If patient is positive case - Check HbsAg titer

If HbsAg titer value <10 Provide immunoglobin within 24 hours.

### Step-2

If patient is known case of HIV +ve / Unknown and staff is injured

- 1. Consult concerned Physician
- 2. Start Anti retro Viral Therapy (ART) as early as possible.
- 3. If patient is HCV positive: hand washing in running water with soap.
- 4. Consult concerned physician.

After Post exposure of Known case of Hepatitis-B, HIV & HCV / Unknown

- Follow up the serology of staff for 3 months, 6 months and 12months.
- · Infection control nurse to monitor, follow up and maintain documents.

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# 3. The organization implements the infection prevention and control program in clinical areas and patient's safety.

Chhatrapati Shahu Maharaj Shikshan Sanstha's Ayurved Mahavidyalaya & Rugnalaya identified various high-risk areas and procedures, and has policies to prevent infection in these areas. High risk areas of the hospital are identified as

- 1. Operation theatres
- 2. Labour room
- 3. CSSD
- 4. Panchakarma procedure rooms
- 5. Casualty
- 6. Recovery room
- 7. Kriyakalpa room
- 8. Dressing room and injection room
- 9. Ksharsutra room
- 10. Pathology Lab

#### Concept of Standard Precautions:

There are number of precautions designed to protect health care workers from exposure to blood borne pathogens. While majority of patients infected with HIV/ HBsAg are asymptomatic at the time of presentation, all patients are considered as having potentially infectious blood and body fluids. Precautions may be based on anticipated exposure.

### Features of Universal precautions:

#### 1. Use of Personal Protective Equipments

- a. Mask protection from air born infections or situation which leads any splash or sprays of blood and body fluid.
- b. Glove-Use glove when we are touching the hand with blood and body fluids, secretions any wound, or any other contaminated items.
- c. Apron-Any chances of splash or contamination on soiling.
- d. Goggles-During positive cases (OT & LR)
- e. Boots-If necessary
- f. Caps are worn whenever indicated.

### 2.Prevention of injury with sharps:

Sharp injuries commonly occure during use of needles and surgical instruments and after use during disposal.

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#### Precautions to be observed:

- 1. Needles should not be recapped, bent or broken by hand.
- 2. Disposal needles and other sharps should be discarded into puncture resistant containers at the site of procedure.
- 3. Sharps should not be passed from one HCW (Health care worker) to another. The person using the equipment should discard it. If necessary, a tray can be used to transport sharps.
- 4. All sharps containers to be discarded when 3/4ths full.

### 4. Safe Clinical Practices and Hand Hygiene

#### Hand Washing

Hand washing means vigorous rubbing of hand with soap and water or with any antiseptic agents.

### Types

- 1. Social hand wash
- Procedure hand wash
- 3. Surgical hand wash.

### Indications for hand Hygiene

- When hands are visibly dirty, contaminated, or soiled, wash with non- antimicrobial or antimicrobial soap and water.
- · If hands are not visibly soiled, use an alcohol-based hand rub for routinely decontaminating hands.

### Specific Indications for Hand Hygiene

#### Before

- a) Patient contact
- b) Inserting urinary catheters, peripheral vascular catheters, or other invasive devices that don't require surgery.

#### After

- a) Contact with patient's skin
- b) Contact with body fluids or excretions, non-intact skin, wound dressing.
- c) Removing gloves.

#### Social hand washing (10-15 sec)

#### Indications

- 1. Before handling food
- After visiting toilet
- 3. Before and after nursing the patient (Bathing and bed making)

4. It can be used in community and publicated s

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#### Purpose

- 1. To remove dirt and debris.
- 2. To decontaminate the hands.
- 3. To prevent the cross infection.
- 4. To break the chain of infection.

Most common mode of transmission of pathogens are HANDS.

# "Hand washing is the single most important means of preventing the spread of infection" When?

- Before and after duty.
- · Before each invasive procedure.
- Before and after using gloves.
- · After touching of blood or body fluid.
- · Before and after touching patients.
- · Before touching invasive devices.
- After toileting, urination.

### 2. Procedure hand washing or hygiene hand washing (30 sec-1 min)

#### Indications

- 1. Before each invasive procedure.
- 2. Before attending Immuno-compromised patients.
- 3. Before and between caring for high risk patients.
- 4. Before and after use of gloves.
- 5. After touching of blood or body fluids.

### Methods of hand washing

- 1. Wet hands with running water.
- 2. Obtain soap or detergent that contains antimicrobial agents spread all area of hands.
- 3. Vigorous rubbing of hands (all area) about 30 sec to 1 min.
- 4. Wash hands thoroughly with running water.
- 5. Rinse and dry.

6. Turn off water tap with using paper towel or use ethow to close the tap handle.

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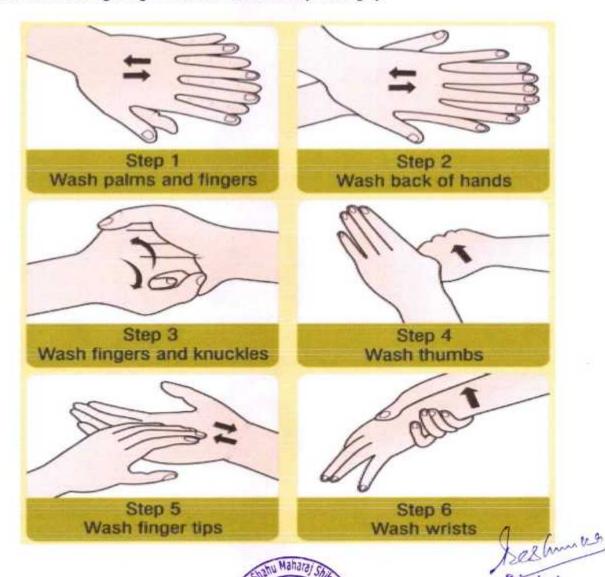
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#### Steps of procedure hand washing

- 1. Palm to palm.
- 2. Right palm over left dorsum and left-over right dorsum
- 3. Palm to palm finger interlocked.
- 4. Back of finger to opposing palms with finger interlocked.
- 5. Rotational rubbing of right thumb clasped in left palm and vice versa.
- Rotational rubbing, backwards and forwards with clasped fingers of right hand in left palm and vice versa.
- Rotational rubbing of right wrist and vice versa. Dry thoroughly.



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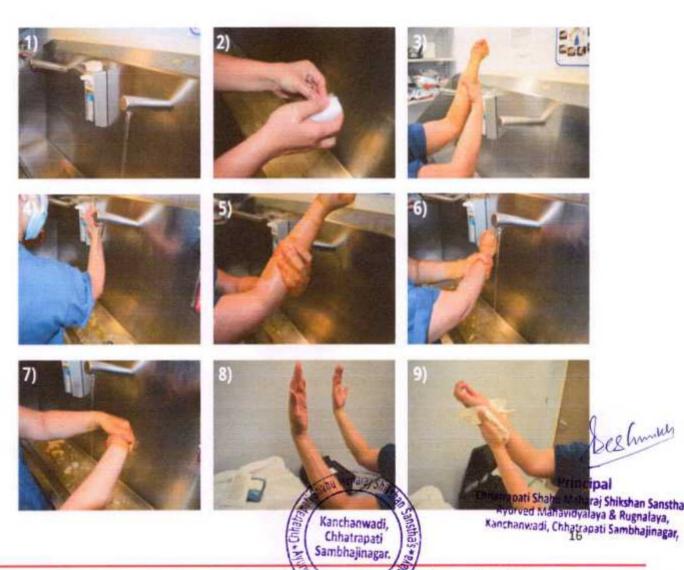


#### 3. Surgical Hand wash (3-5 min)

- 1. Prior to all operative procedures.
- 2. Prior to treatment of all burn cases.
- Before insertion of all invasive devices (cardiac catheterization, Insertion of all lines especially arterial and central venous catheterization)

#### Method

- 1. Hands are washed up to the elbow freely using disinfectant.
- 2. Scrubbing of fingers, space between fingers and nails, brush used to scrub the nails.
- 3. Wash hands thoroughly with running water, after wash tap should be closed with elbow.
- 4. Keep the hand finger upright position.
- 5. Dry hand with sterile towel.



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#### Hand Rub

In Chlorhexidine/alcohol 70% hand rubs in all areas.

When?

- i. Before touching invasive devices.
- ii. After touching the patient.
- iii. Before handling the patient.
- iv. Before preparing any injection.

### 5. Safe Injection and Infusion Practices. (Transmission based precautions)

- A Safe injection, lancet procedure or intravenous device insertion is one that:
- a. Does not harm the recipient.
- b. Does not expose the provider to any avoidable risk.
- c. Does not result in any waste that is dangerous for other people.

### Purpose:

The purpose of SAFE is to promote implementation of safe practices associated with the following medical procedures:

- Intradermal, Subcutaneous and intramuscular needle injections.
- Intravenous infusions and injections
- · Lancet procedures.

This section describes the following practices that are recommended to ensure the safety of injections and related practices.

- Hand hygiene
- · Gloves where appropriate
- · Other single-use personal protective equipment

#### A. Hand hygiene- Perform hand hygiene BEFORE:

- Starting an injection session (i.e. preparing injection and giving injections)
- · Coming in direct contact with patients for health-care related procedures.
- Putting on gloves (first make sure hands are dry)

### B. Hand Hygiene- Perform hand hygiene AFTER:

- An injection session
- Any direct contact with patients
- Removing gloves



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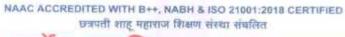
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Key Elements	Indications	Precautions
Hand hygiene (hand washing or alcohol- based hand rub	1. Hand hygiene before and after contact with every patient in the single most important means of preventing the spread of infection 2. When hands are visibly dirty or contaminated with proteinaceous material, wash them with antibacterial or plain soap and running water, then dry them using single-use paper, towels  3. When hands appear clean (i.e. are not visibly soiled), clean them with an alcohol-based hand product for after routine decontamination, then dry them using single use paper towels.	1. DO NOT use alcohol-based hand products when hands visibly soiled are 2. DO NOT use alcohol-based hand products when hands visibly soiled are 3. DO NOT use alcohol-based hand products exposure of non-intact skin to blood or body fluids; in such cases, wash hands with antibacterial or plain soap and running water, then dry them using single-use paper towels.

C. Staff at Chhatrapati Shahu Maharaj Shikshan Sanstha's Ayurved Mahavidyalaya & Rugnalaya Kanchanwadi, Chh. Sambhajinagar. Who are in direct contact with patients, wear non-sterile, well-fitting latex or latex free gloves when coming into contact with blood or blood product Indications for gloves use in injection practice are

<b>Key Elements</b>	Indications	Precautions
Gloves use	Wear non-sterile, well-fitting, single use gloves:	[ [ [ ] ] ] ] [ [ ] [ ] [ ] [ ] [ ] [ ]
	2. When there is a likelihood of	2. For routine intradermal,
	coming into direct contact with a	POTEN CAR
	patient's blood or other potentially infectious materials (e.g. body	
	fluids, moist body substances and	
	saliva [in dental procedures])	[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
	mucous membranes and non-intact	Protection against needle- stick
	skin.	other or puncture wounds cause by
	3. If the health worker's skin is	Dox V
	NOT	Needles, scalpels and other
	(e.g. through eczema or oracked or dry skin)  Kanchany Chhatrag	extreme caution.
	(Chhate	extreme caution. Chhatrapati Shahu Maharaj Shikshan Sanstha Ayurved Mahavidyalaya & Rugnalaya,
	Sambhajin.	Ranchanwadi, Chhattapati Sambhajinagar.

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### D Other Single- Use Personal Protective Equipment

- Masks, eye protection and other protective clothing ARE NOT indicated for the injection procedures, unless exposure to blood splashes is expected.
- When using single-use personal protective equipment, dispose of the equipment immediately after use.

### E Skin Preparation and Disinfection

### To disinfect the skin, use the following steps

- Apply a 60-70% alcohol-based solution on a single use swab or cotton-wool ball. DO NOT
  use methanol or methyl-alcohol as these are not safe for human use.
- Wipe the area from the center of the injection site working outwards, without going over the same area.
- 3. Apply the solution for 30 seconds then allow it to dry completely.
  The management of Chhatrapati Shahu Maharaj Shikshan Sanstha's Ayurved College & Hospital is ensure that an adequate supply of single-use devices is available, to allow providers to use a new device for each procedure.

#### Practical Guidance on Use of Injection Devices When suing a sterile single-use device.

- a) Use a new device for each procedure, including for the reconstitution of a unit of medication or vaccine;
- b) Inspect the packaging of the device to ensure that the barrier has not been reached:
- c) Discard the device if the package has been punctured, torn or damage by exposure to moisture, or if the expiry date has passed.

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### 6. Medication safety

### when giving medication:

- a) NOT use a single loaded syringe to administer medication to several patients (i.e. ensure one needle, one syringe, one patient)
- b) DO NOT change the needle in order to reuse the syringe.
- c) DO NOT use the same mixing syringe to reconstitute several vials.
- d) DO NOT combine leftover medications for later use.

Single dose vials - Whenever possible, use a single-dose vial for each patient, to reduce crosscontamination between patients.

Multi dose vial - Only use multi dose vial if there is no alternative.

- Open only use multi dose vials if there is no alternative.
- II. If possible, keep one multi dose vial for each patient, and store it with the patient's name on the vial in a separate treatment or medication room.
- III. DO NOT store multi dose vials in the open ward, where they could be contaminated with spray or spatter.

#### Discard a multi dose vial:

- If sterility of content is compromised.
- II. If the expiry date or time has passed (even if the vial contains antimicrobial preservatives)
- III. If it has not been properly stored after opening.
- IV. Within 24 hours of opening, or after the time recommended by the manufacturer, if the vial does not contain antimicrobial preservatives.
- V. If found to be undated, improperly stored, inadvertently contaminated or perceived to be contaminated, regardless of expiry date.

### Preparing Injections

Injections should be prepared in a designed clean area where contamination by blood and body fluids is unlikely.

Practical Guidance on Preparing Injections Maharaj

These steps must be followed when preparing in

Keep the injection preparation are the Kafichatter of

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Before starting the injection session, and whenever there is contamination with blood or body fluids, clean the preparation surface with 60-70% alcohol (isopropyl alcohol or ethanol) and allow top dry assemble all equipment needed for the injection. sterile single-use needles and syringes: diluent. Reconstitution solution such as sterile water or specific Alcohol swab or cotton wool Sharp container.

### Labeling

After reconstitution of a multi dose vial, label the final medication container with

- Date and time or preparation
- Final concentration
- Expiry date and time after reconstitution.

For multi dose medications that DO NOT requires reconstitution, add a label with:

Date and time of first piercing the vial.

### Administering the Injections

Aseptic technique should be followed for all injections. Practical guidance on administrating injections.

#### General Guidelines

When administering an injection: -

- Check the drug chart or prescription for the medication and the corresponding patients name and dosage
- · Perform hand hygiene
- Wipe the top of the vial with 60-70% alcohol using a swab or cotton-wool ball.
- · Open the package in front of the patient to reassure them that the syringe and needle have not been used previously.
- Using a sterile syringe and needle, withdraw the medication from the ampule or vial.

#### Reconstitution

If reconstitution using a sterile, syringe and needle is necessary, withdraw the reconstitution solution from the ampule or vial, insert the needle into the rubber septum in the single or multi dose vial and inject the necessary amount of reconstitution fluid.

Mix the contents of the vial thoroughly until all visible particles have dissolved.

 After reconstituting the contents of a multi dose vial, remove the needle and syringe and discard them immediately as a single unit into a sharps container. 268 human

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#### Delay in administration

- If the dose cannot be administrated immediately for any reason, cover the needle with
- Store the device safely in a dry kidney dish or similar container.

#### Important points

- DO NOT allow the needle to touch any contaminated surface.
- DO NOT reuse a syringe, even if the needle is changed.
- DO NOT touch the diaphragm after disinfection with the 60-70% alcohol (isopropyl alcohol or ethanol)
- DO NOT enter several multi dose vials with the same needle and syringe.
- DO NOT enter a vial with a needle or syringe used on patient if that vial will be used to withdraw medication again (whether it is for another patient)

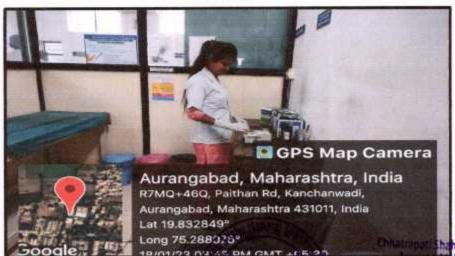
#### Prevention of sharps injuries to health workers

Use of best practices can help to prevent sharps injuries to health workers.

### Practical Guidance on Prevention of Sharps Injuries.

To avoid sharps injuries:

- 1. Ensure that the patient is adequately prepared for the procedure.
- 2. Do not bend, break, manipulate or manually remove needles before disposal.
- 3. Avoid recapping needles, but if a needle must be recapped, use a single-handed scoop technique.
- 4. Discard used sharps and glass ampules immediately after use in the location where they were used, discard them onto a robust sharps container that is leak and puncture resistant.
- 5. Place the sharps container within arm's reach and proper use of needle cutter is ensured.



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#### MEDICATION SAFETY

Patient information: Obtaining the patient's pertinent demographic (age, weight) and clinical (allergies, lab results) information that will assist practitioners in selecting the appropriate medications, doses and routes of administration.

Drug information: Providing accurate and usable drug information to all healthcare practitioners involved in the medication-use process reduces the amount of preventable ADEs.

#### Communication of drug information: Miscommunication between

physicians, pharmacists and nurses are a common cause of medication errors. Drug labeling, packaging and nomenclature: Drug names that look-alike or sound-alike, as well as products that have confusing drug labeling and non-distinct drug packaging significantly contribute to medication errors.

#### High alert medication:

High-alert medications are drugs that bear a heightened risk of causing significant patient harm when they are used in error. Although mistakes may or may not be more common with these drugs, the consequences of an error are clearly more devastating to patients.

Using List of High-Alert Medications in Acute Care Settings to determine which medications in your organization require special safeguards to reduce the risk of errors and minimize harm. Strategies may include:

- Standardizing the ordering, storage, preparation, and administration of these medications
- Improving access to information about these drugs
- Limiting access to high-alert medications
- Using auxiliary labels and automated alerts
- Employing redundancies

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### 7. Safety Against Airborne Transmission

These precautions are designed to reduce the risk of airborne and droplet transmission of infectious agents, and apply to patients known or suspected to infected with epidemiologically important pathogens that can be transmitted by these routes.

#### 8. Safety Against Contact Transmission

Contact isolation precautions are recommended for specified patients known or suspected to be infected or colonized with epidemiologically important microorganisms that can be transmitted by direct contact with patient (hand or skin- to-skin contact that occurs when performing patient care) or indirect contact (touching) with contaminated environmental surfaces or patient care items.

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# आयुर्वेद महाविद्यालय व रुग्णालय

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### Components

- · Gowns are indicated if soiling is likely.
- · Gloves are indicated for touching infected material / area.
- Hands must be washed after touching the patient or potentially contaminated articles and before taking care of another patient.
- · When possible, dedicated the use of non-critical patient-care equipment to a

requiring precautions) to avoid sharing between patients. If use of common equipment or items is unavoidable, then adequately clean and disinfect them before use for another patient.

### 9. Safety towards Blood Borne Transmission:

#### Instruction for wards

Admission: Patients with HIV/ HBV disease but presenting with unrelated illness may be admitted in any ward as per existing rules. Confidentiality is maintained with appropriate precautions to prevent nosocomial transmission.

Preparation of patients: It is the responsibility of the attending physician to ensure that patients, testing positive are informed about the result and receive counseling. The nursing staff will explain to patients, attendants and visitors (when necessary), the purpose and methods of hand washing body substance and excreta precautions, and other relevant precautions.

#### Cleaning Protocol

- Moping plan Clean to unclean area
- 2. Mopping plan means cleaning done from clean area to unclean area.
- 3. It gives special information to cleaning staff about priority of cleaning. The order of cleaning is
- a. General

b. Infected

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27



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### 2. ENVIRONMENT: -

- Clean the floors with a disinfectant thrice a day.
- · Clean with soap solution first and then phenyl special solution 3 timews a day.
- · Wash the floors with soap & water and disinfecting solution using scrubbing machine once in a week.

### Do not carry out any cleaning activities while

- 1. Sterile supplies are being handled.
- Sterile procedures are in progress.
- a. Use a 1% sodium hypochlorite solution to clean environment surfaces if contamination with blood and body fluids occur.
- b. Use 1% Sodium Hypochlorite solution for 30 min for disinfecting mops used for cleaning blood.



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### 3. High Risk Areas: -

- a. Floors are cleaned with prescribed disinfectant three times a day.
- b. All equipment including monitor are cleaned with prescribed disinfectant spray.
- c. Some plastic items like ambu bag, O<sub>2</sub>mask, Nebulization set are sterilized by formalin gas (generally, ETO sterilization recommended - implement the same)
- d. Keep a disinfectant hand rub solution in each ward.
- e. Keep separate stethoscope, BP always ready to use with a standby.
- f. Damp dust bed frames, railings, I/V stands lockers etc. daily with prescribed disinfectant.
- g. Floor cleaning done three times in a day with prescribed disinfectant.
- h. Use disposal plastic sheets/Mackintosh to protect the bed linen.
- Disinfect the patient's unit with the prescribed disinfectant solution after the transfer/discharge/ death.
- j. Check the expiry date of CSSD item.

#### 4. Ward

- a. Damp dust the bed frames, railing, I/V stands, lockers etc. daily with prescribed disinfectant.
   (Name the disinfectant)
- b. Floor cleaning done three times a day from clean area to unclean area.
- c. Cover the mattresses and pillow with water proof cover.
- d. Use disposable plastics sheets or mackintosh to protect the bed linen.
- e. Disinfect the unit with prescribed disinfectant after the discharge / death of a patient.

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29



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### 10. Safe Surgical Practice

- The team will operate on the correct patient at the correct site.
- The team will use methods known to prevent harm from administration of anaesthetics, while protecting the patient from pain.
- The team will recognize and effectively prepare for life- threatening loss of airway orrespiratory function.
- The team will recognize and effectively prepare for risk of high blood loss.
- The team will avoid inducing an allergic or adverse drug
- reaction for which the patient is known to be at significant risk.
- The team will consistently use methods known to minimize the risk for surgical site infection.
- The team will prevent inadvertent retention of instruments or sponges in surgical wounds.
- The team will secure and accurately identify all surgical specimens.

The team will effectively communicate and exchange critical information for the 208 Comech safe conduct of the operation.

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### SURGICAL SAFETY CHECKLIST

Before induction of anaesthesia	Before skin incision	Before patient leaves operating room
(with at least nurse and anaesthetist)	(with nurse anaesthetist and surgeon)	(with nurse anaesthetist and surgeon)
Has the patient confirmed nis/her identity, site, procedure, and consent?  Yes sthe site marked?  Yes Not applicable sthe anaesthesia machine and medication check complete?  Yes sthe pulse oximeter on the patient and functioning?  Yes Does the patient have a Known allergy?  No Yes Difficult airway or aspiration risk?  No Yes, and equipment/assistance available Risk ab>500ml blood loss 7ml/kg in children)?  No Yes, and two Vs/central access and fluids planned	o Confirm all team members have introduced themselves by name and role. o Confirm the patient's name, procedure, and where the incision will be made. Has antibiotic prophylaxis been given within the last 60 minutes? o Yes o Not applicable Anticipated Critical Events To Surgeon: o What are the critical or non-routine steps? o How long will the case take? o What is the anticipated blood loss? To Anaesthetist: o Are there any patient-specific concerns? To Nursing Team: o Has sterility (including indicator results) been confirmed? o Are there equipment issues or any concerns?  Is essential imaging displayed? o Yes o National Area of the manufactor of the concerns?	Nurse Verbally Confirms:  The name of the procedure  Completion of instrument, sponge and needle counts  Specimen labelling (read specimen labels aloud, including patient name)  Whether there are any equipment problems to be addressed  To Surgeon, Anaesthetist and Nurse:  What are the key concerns for recovery and management of this patient?  Principa

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### All Operation theatres are fumigated

- Action time 30 to 45 minutes.
- Mode of use 11.2 gms, 1.6 Dihydroxy + 2.5 Dioxahexane + 5 gms Glutoraldehyde in water (920 ml water and 80 ml of Bacillocid are special solution)
- OT should be kept closed for two hours.

### Disinfection and cleaning of equipments

Sr. No.	Items	Disinfection/ Cleaning
1	B.P. Apparatus & Stethoscope	Clean properly with spirit
2	B.P. Apparatus -Cuff	Wash thoroughly with Soap and water and dry it properly. Wash and dry the B.P. cuff if used for an infected patient after the discharge.
3	Digital Thermometer	Clean properly with spirit
4	Glucometer	Clean properly with spirit
5	Dressing Trolley	Clean with Bacillocid special solution. Keep the store solutions in their original bottles. Avoid refilling to smaller bottles.
6	Steel Tray	Wash with soap and water.
7	Measuring Tape & Torch	Clean Properly with spirit
8	Nebulizer	Clean Properly with spirit
9	O2 Flow Meter	Wash with soap and water.
10	Suctin Apparatus	Empty the bottles in every weeks or SOS. Scrul with soap and water. Disinfect with 1% Sodium Hypochlorite solution.
11	Infusion Pumps and Monitors	Clean with bacillocid solution
12	Refrigerator	Defrost and wash with soap and water
13	Detach the blades, wash with soap an clean with spirit.	
14	Weighing Machine	Clean with soap and water
15	Electronic Weighing Machine	Clean with super shine
16	Telephone	Clean with spirit.

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32

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17	Patient Trolley & Wheel Chairs	Clean with soap and water
18	Steam Inhaler	Wash with soap and water.
19	IV Stand	Clean with soap and water.
20	Defibrillator and monitor	60% to 70% alcohol.
21	Pulse Oxymeter	Clean with spirit
22	Airway	Use disposable airways for each patient. Scrub sith soap and water daily SOS discard after discharge/ death of the patint.
23	E.T. Tubes	Use disposable E.T.
24	Oxygen mask/Nasal Cannula	Use fresh mask. Clean with alcohol SOS. Don't reuse nasal cannula.
25	Ambu bag & Mask	Detach the parts.  Wash with soap and water.  Disinfect the Ambu bag with Hypochloride 1% solution for 10 hrs for infectious cases and send to CSSD.
26	Proctoscope	Clean with spirit Clean with soap and wate send to the CSSD for sterilization.
27	ECG & Transducer Cables	ECG leads & suckers are cleaned with soap & water cables are cleaned with spirit.
28	Bedpan, Measuring Jar, Commode	Clean properly with soap and water. Immerse in 1% antiseptic solution for 45 mints.
29	Urinal and Sputum Mug	Clean properly with soap and water. Immerse in 1% antiseptic solution for 45 mints.

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### 11. HEALTH CARE ASSOCIATED INFECTION (HAI) AND PATIENT'S SAFETY.

There are predominately three types of hospital acquired infections. They can be recorded on the basis of clinical and/microbiological data.

### Urinary Tract Infections

The urinary tract infections may be symptomatic [fever, dysuria, lumbar pain] or asymptomatic. Their recordings depend partly on the microbiological tests performed.

### Respiratory Tract Infections

Analyzing the respiratory tract infections through the following:

- Fever
- X-ray findings
- Neutropenia

### Post-Operative Infections

Any surgical wound which results in a purulent discharge must be regarded as a Hospital acquired infections whether the bacteria are of endogenous origin is not taken in to the account.

### A. The organization takes action to prevent Urinary tract infections Urethral Catheterization

#### Personnel

· Only persons who know the correct technique of aseptic insertion and maintenance of catheters should handle catheters.

#### Catheters Use

 Urinary catheters should be inserted only when necessary and left in place only as long as medication is indicated.

#### Hand wash:

Hand washing should be done immediately before and after any manipulation of the catheter site or apparatus.

#### Catheter Insertion

 Catheters should be inserted using aseptic technique and sterile equipment. Use an appropriate antiseptic solution for periurethral cleaning. aghrondels

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- As small a catheter as possible, consistent with good drainage, should be used to minimize urethral trauma. Indwelling catheters should be properly secured after insertion to prevent movement and urethral traction.
- B. Chhatrapati Shahu Maharaj Shikshan Sanstha's Ayurved Mahavidyalaya & Rugnalaya has taken action to prevent intra vascular device infection:

#### I. Hand washing

Wash hands before every attempted intravascular cannula insertion. Antimicrobial hand washing soaps are desirable, and are preferred before attempted insertion of intravenous catheters.

II. Preparation of skin

Povidine-iodine or 70% alcohol may be used for cleaning the skin. Insertion sites should be scrubbed with a generous amount of antiseptic. Beginning at the center of the insertion site, use a circular motion and move outward. Antiseptic should have a contact time of at least 30 seconds prior to catheter insertion.

III. Inspecting eatheter insertion sites

Intravascular catheters should be inspected daily and whenever patients have unexplained fever or complaints of pain, tenderness, or drainage at the site for evidence of catheter related complications.

- IV. Manipulation of intravascular catheter systems Strict aseptic technique should be maintained when manipulating intravascular catheter systems. Examples of such manipulations include the following:
  - Placing a heparin lock
  - · Starting and stopping an infusion
  - Changing an intravascular administration set
  - Flushing IV lines

Solution used for flushing IV lines should not contain glucose which can support the growth of microorganisms. Do not reuse syringes used for flushing. One syringe is used for flushing only one IV line once.

Replacement of IV catheters:

Peripheral IV catheters should be removed 72 hours after insertion, provided no IV- related complications. Requiring catheters removal are encountered earlier. New peripheral IV catheters, if required, may be inserted at a new site.

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#### Catheters related Information:

At the time of catheter removal, the site is examined for the presence of welling, erythema, increased tenderness and palpable venous thrombosis. Any antimicrobial ointment or blood present on the skin around the catheters is first removed with alcohol. The catheter is withdrawn properly, the externalized portion being kept directed upward and away from the skin surface.

The way with the extention is used only when multiple simultaneous infusion is required.

### C. The Hospital takes action to prevent surgical site infections.

### Surgical wounds

- Surgical wounds after an elective surgery are inspected on the third post-operative day, or earlier.
- All personnel doing dressings should wash their hands before the procedure. Ideally, a
  two-member technique is followed. One to open to do the dressing.
- If two health care workers are not available, then take off the dressing, wash hands again and again before applying a new dressing.
- · A clean, dry wound may be left open without any dressing after inspection.
- If there is any evidence of wound infection, or purulent discharge, then dressings are done daily, using povidone-iodine to clean the wound and applying dry absorbent dressing.
- If any Surgical site infection occur
- Special studies will be conducted as needed. These may include
- The investigation of infectious material is sent for culture.
- Injection abscess.

#### 12. HEALTH CARE WORKER SAFETY.

- All health care workers get vaccinated (hepatitis b and inj. T.T.) according to proper schedule of government.
- Annual health check-up is done for all the staff in HCO.
- Regular training programs are arranged by HCO for all the staff like hospital infection prevention training, hand washing techniques etc.

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36

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### 13. Fire safety:

Chhatrapati Shahu Maharaj Shikshan Sanstha's Ayurved Mahavidyalaya regularly taking fire safety training for HCO workers. Mock drills for security, firmen and other paramedical staff also been conducted frequently.



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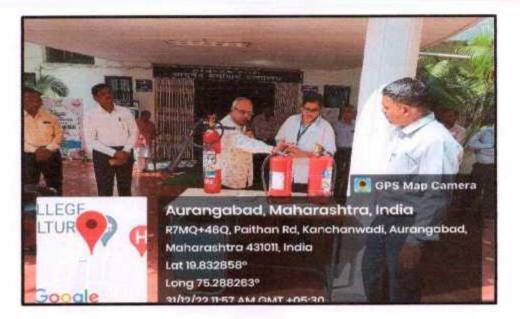
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We have fire exit plan for evacuation of patients in case of fire emergency.



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39



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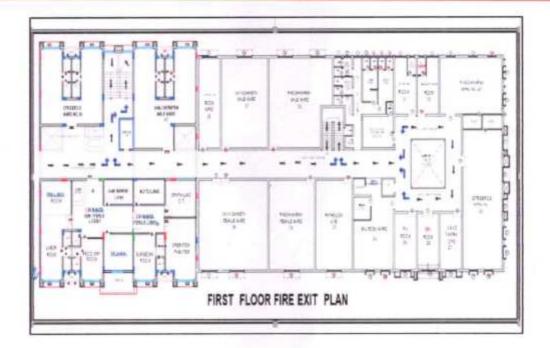
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क्लेब्जवाडी, पैठण रोड, छत्रपती संभाजीनगर -४३१ ०११ (एम.एस.)

Chhatrapati Sambhajinagar (M.S. क्रिकेन्याडी, पैठण रोड Tel.: (0240) 2379248, 2646464, 2379038 (0240) 2646222

Kanchanwadi,

Chhatrapati Sambhajinagar.

Email: principal@csmssayurved.com, principalcsmssayu@gmail.com, Website: www.csmssayurved.com



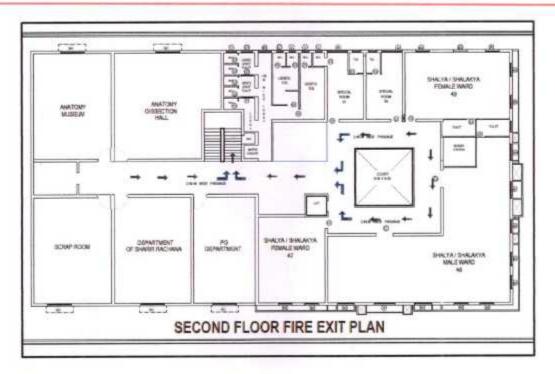
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CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S

(Recognized by National Commission for Indian System of Medicine, Ministry of AYUSH, Govt. of India, New Delhi & Affiliated to Maharashtra University of Health Sciences, Nashik.)







### 14. Regular post Control in OPD/ IPD area:



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rincipal

Kanchanwadi, Chhatrapati Sambhajinagar. Chhatrapati Shahu Maharaj Shikshan Sanstha's Ayurved Mahavidyalaja & Rugnalaya, Kanchanwadi, Chhatrapati Sambhajinagar.

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011. (M.S.) क्रवंदेशही, पैठण रोड, छत्रपती संभाजीनगर -४३१ ०११ (एम.एस.)

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# आयुर्वेद महाविद्यालय व रुग्णालय

CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S

## AYURVED MAHAVIDYALAYA & RUGNALAYA

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### 15. Water RO Plant Patient safety:



In Hospital Campus, we have installed commercial R.O. water plant of capacity 400 to 450 liters per Hr. to ensure the adequate supply of drinking water to patients, staff and visitors. The periodic maintenance and daily maintenance to the plant is done frequently. Replacement and repairs are done as and when required. The Annual Maintenance contract also done for every year.

### 16. CARE AND POLICY FOR VULNERABLE PATIENTS:

Vulnerable patients are those patients who, for any reason, are not able to protect or take care of himself/herself, against exploitation or harm. Such patients are prone to various risks within the hospital, such as fall, injury, neglect, abuse, medical errors and acquiring of infections. Within the hospital the all vulnerable elderly and children will be given all-necessary care needed with consideration.

Principal

Chhatrapati Shahu Maharaj Shikshan Sanstha's Ayurved Mahavidyalaya & Rugnalaya, Kanchanwadi, Chhatrapati Sambhajinagar.

Address : Kanchanwadi, Paithan Road, Chhatrapati Sambha

वा- 431 011 कांचनवाडी, पैठण रोड, छत्रपती संभाजीनगर -४३१ ०११ (एम.एस.)

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Maharaj Sa

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Chhatrapati Sambhajinagar



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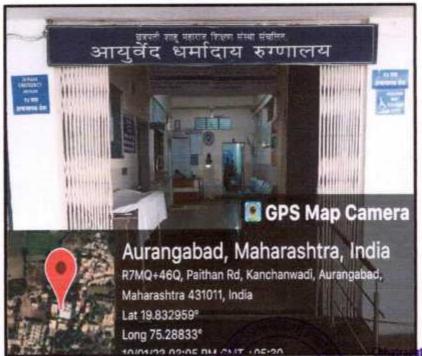
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Principal

Ayurved Maharaj Shikshan Sanstha's Ayurved Mahavidyalaya & Rugnalaya, Kanchanwadi, Chhatrapati Sambhajinagar. 43

Kanchanwadi, Chhatrapati Sambhajinagar.



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Chhatrapati Shahu Maharaj Shikshan Sanstha's Ayurved Mahavidyalaya & Rugnalaya, Kanchanwadi, Chhatrapati Sambhajinagar.

iwadi, Paithan Road, Chhatrapati Sambhajinagai के 11. (M.S. क्रिनवाडी, पैठण रोड, छत्रपती संभाजीनगर – Tel.: (0240) 2379248, 264646 अधिकार डे. (0240) 2646222. Email : principal@csmssayurved.com, principalcsmssayurbgfhail.com, Website : www.csmssayurved.com नवाडी, पैठण रोड, छत्रपती संभाजीनगर -४३१ ०११ (एम.एस.) Address: Kanchanwadi, Paithan Road, Chhatrapati Sambhajinaga

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Seekmens

Kanchanwadi, Chhatragati Sambhajinagar.

Address : Kanchanwadi, Paithan Road, Chhatrapati Sambhajinagar- 431 ० १४१४ १५३ के स्थिति । पैठण रोड, छत्रपती संभाजीनगर - ४३१ ०९१ (एम.एस.) Tel.: (0240) 2379248, 2646464, 23790357 कर. (0240) 2646222.

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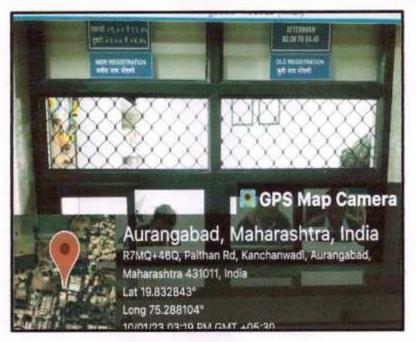
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Principal

Anapapati Shahu Maharaj Shikshan Sanstha's Ayurved Mahavidyalaya & Rugnalaya, Kanchanwadi, Chhatrapati Sambhajinagar.

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Kanchanwadi,

Chhatrapati Sambhajinagar.

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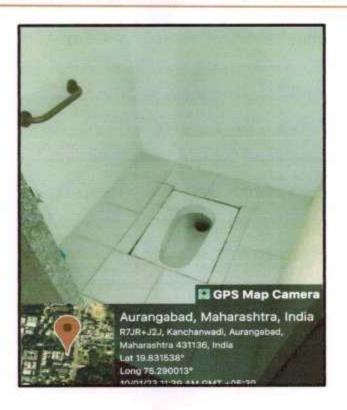
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Sees Comments

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Chhatrapati Shahu Maharaj Shikshan Sanstha's Ayurved Mahavidyalaya & Rugnalaya, Kanchanwati, Chhatrapati Sambhajinagar.