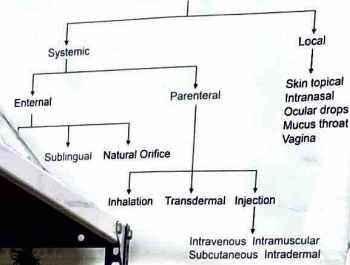


ROUTES OF ADMINISTRATION OF POISON

- Oral
- Sublingual
- Applied on the unbroken surface of the body.
Eg: Application of organic phosphates, nicotine etc.
- Application to a wound.
- Introduction into natural orifices. Eg: Rectum, vagina, urethra.
- Parenteral route - Subcutaneous, intramuscular, intravenous
- Inhalation Eg: Carbon monoxide, hydrogen sulphide etc.

It is similar to as the drug administration Classification



Master Prints GDG - 9416128560, 7899390392

Master Prints GDG - 9416128560, 7899390392

HANGING & STRANGULATION

HANGING	STRANGULATION
1. Suicidal commonly.	1. Homicidal commonly.
2. Characteristic ligature mark.	2. Characteristic ligature mark.
3. Common.	3. Common.
4. Abrasions and ecchymosis are rare.	4. Ecchymosed.
5. Injured.	5. Injured.
6. Present.	6. Present.
7. No such things.	7. No such things.
8. Common.	8. Common.
9. Common.	9. Common.
10. Congested with petichiae.	10. Congested with petichiae.
11. Common.	11. Common.
12. May be fractured.	12. May be fractured.
13. Rare.	13. Rare.
14. Usually injured.	14. Usually injured.

DIFFERENCE BETWEEN HOMICIDAL AND SUICIDAL POISON

S.NO	FEATURE	HOMICIDAL POISON	SUICIDAL POISON
1	Cost	Cheap	Cheap
2	Availability	Easily available	Easily available
3	Physical characteristics	Colourless, Odourless and Tasteless	Tasteless or of Pleasant taste
4	Toxicity	Highly toxic	Highly toxic
5	Anti Dote	None	None
6	Solubility in food/drink	Soluble without producing any obvious change	Should be easily taken in food /drink
7	Signs and Symptoms	Should resemble a natural disease or delayed for the accused to escape suspicion	Capable of producing painless death
8	Metabolism	Must be rapidly destroyed or undetectable in urine / blood	Not particularly so
9	Detection	Should not be detected by chemical tests or other methods	Not particularly so
10	Post-mortem changes	Should be none	Not particularly so
11	Examples	Arsenic, Aconite, Thallium, Oleander, Insulin and other drugs	KCN, HCN, Opium, Barbiturates, Alphos or Organophosphorous

Master Prints GDG - 9416128560, 7899390392

CLASSIFICATION OF POISONS

CLASSIFICATION OF POISONS

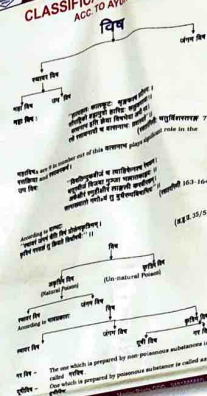
- There are several ways for
 For clinical and forensic purposes the following are classified into:

 - 1) **Corrosives**
 - a) **Inorganic or mineral acids**
 - b) **Organic acids**
 - c) **Mechanical**
 - 2) **Intoxics**
 - a) **Terrestrial**
 - b) **Plant origin**
 - c) **Animal origin**
 - 3) **Neurotoxic Poisons**
 - a) **Cerebral**
 - b) **Sensory**
 - c) **Psychical**
 - d) **Systemic**
 - e) **Dyspeptic**
 - 4) **Cardiovascular Poisons**
 - a) **Anticoagulants**
 - b) **Antidysrhythmics**
 - c) **Cardiotonic**
 - 5) **Asphyxiant Poisons**
 - 6) **Maculocutaneous Poisons**
 - a) **Antipyretics and Analgesics**
 - b) **Non-steroidal anti-inflammatory drugs**
 - c) **Antibacterials**
 - d) **Anticholinergics**
 - e) **Anticholinergic agents**
 - f) **Plant poisoning**

DEPARTMENT OF AYURVEDIC MEDICINE
CHIKITSA

VISHA UPADRAVA		DROGS USED IN CHIRITA	
1	Janu	Rajavaghatika, Ushira, Kashmyari, Padmakha, Kankali.	
2	Kasani And Sani	Vasani, Ratnaka, Kapatha, Drastika, Nagan-	
3	Vani (Vani Chandi)	Bala Shikhi, Madhuk, Ushira	
4	Vishu	Chakra Shaktika, Suvannagada, Harina, Saka	
5	Trishina And Murcha	Kankali, Ushila, Dadima, Vesava, Vasa	
6	Ataksha	Shumbha, Musa, Kankali, Indrayuga, Chiksha	
7	Beti Rupa, Kankali, Madhambadhara	Ushila, Triseta, Haritaki	
8	Shiro Rupa	Kankali, Kashmyari, Drastika, Triseta	
9	Shiro Rupa	Tripala, Triseta, Desastya, Ushila, Triseta	
10	Svayasthi	Kankali, Niyogadika, Madhuk, Triseta, Sankha	
11	Pustaksha	Ushila, Shiksha, Tandulayika, Shami, Vishu	
12	Ratni Sona	Musa, Shaktika, Ashya, Popali, Erandi	
13	Vishaksha (Vishu Jini)		

CLASSIFIED
ACC. TO AYC

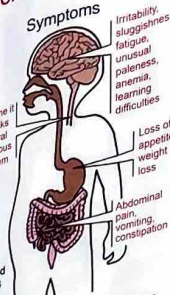


12345678910111213141516171819202122232425262728293031323334353637383940414243444546474849505152535455565758596061626364656667686970717273747576777879808182838485868788899091929394959697989910010110210310410510610710810911011111211311411511611711811912012112212312412512612712812913013113213313413513613713813914014114214314414514614714814915015115215315415515615715815916016116216316416516616716816917017117217317417517617717817918018118218318418518618718818919019119219319419519619719819920020120220320420520620720820921021121221321421521621721821922022122222322422522622722822923023123223323423523623723823924024124224324424524624724824925025125225325425525625725825926026126226326426526626726826927027127227327427527627727827928028128228328428528628728828929029129229329429529629729829930030130230330430530630730830931031131231331431531631731831932032132232332432532632732832933033133233333433533633733833934034134234334434534634734834935035135235335435535635735835936036136236336436536636736836937037137237337437537637737837938038138238338438538638738838939039139239339439539639739839940040140240340440540640740840941041141241341441541641741841942042142242342442542642742842943043143243343443543643743843944044144244344444544644744844945045145245345445545645745845946046146246346446546646746846947047147247347447547647747847948048148248348448548648748848949049149249349449549649749849950050150250350450550650750850951051151251351451551651751851952052152252352452552652752852953053153253353453553653753853954054154254354454554654754854955055155255355455555655755855956056156256356456556656756856957057157257357457557657757857958058158258358458558658758858959059159259359459559659759859960060160260360460560660760860961061161261361461561661761861962062162262362462562662762862963063163263363463563663763863964064164264364464564664764864965065165265365465565665765865966066166266366466566666766866967067167267367467567667767867968068168268368468568668768868969069169269369469569669769869970070170270370470570670770870971071171271371471571671771871972072172272372472572672772872973073173273373473573673773873974074174274374474574674774874975075175275375475575675775875976076176276376476576676776876977077177277377477577677777877978078178278378478578678778878979079179279379479579679779879980080180280380480580680780880981081181281381481581681781881982082182282382482582682782882983083183283383483583683783883984084184284384484584684784884985085185285385485585685785885986086186286386486586686786886987087187287387487587687787887988088188288388488588688788888989089189289389489589689789889990090190290390490590690790890991091191291391491591691791891992092192292392492592692792892993093193293393493593693793893994094194294394494594694794894995095195295395495595695795895996096196296396496596696796896997097197297397497597697797897998098198298398498598698798898999099199299399499599699799899910001001100210031004100510061007100810091010101110121013101410151016101710181019102010211022102310241025102610271028102910301031103210331034103510361037103810391040104110421043104410451046104710481049105010511052105310541055105610571058105910601061106210631064106510661067106810691070107110721073107410751076107710781079108010811082108310841085108610871088108910901091109210931094109510961097109810991100110111021103110411051106110711081109111011111112111311141115111611171118111911201121112211231124112511261127112811291130113111321133113411351136113711381139114011411142114311441145114611471148114911501151115211531154115511561157115811591160116111621163116411651166116711681169117011711172117311741175117611771178117911801181118211831184118511861187118811891190119111921193119411951196119711981199120012011202120312041205120612071208120912101211121212131214121512161217121812191220122112221223122412251226122712281229123012311232123312341235123612371238123912401241124212431244124512461247124812491250125112521253125412551256125712581259126012611262126312641265126612671268126912701271127212731274127512761277127812791280128112821283128412851286128712881289129012911292129312941295129612971298129913001

- * No immediate symptoms
- * Can lead to learning disabilities, problems, bones, slow growth
- * Very high levels can cause seizures, coma, death
- * Children absorb up to 70% of lead, adults about 20%; removed from body extremely slowly; 95% deposited in bones

Contaminants

- * Lead-based paint, contaminated dust in homes built before 1978
- * Drinking water from lead pipes
- * Contaminated food
- * Soil (in traffic, near gas stations)



- * Contaminated food
- * **What parents can do**
 - * Have child screened if there is
 - * Frequently wash child's hands, toys, pacifiers
 - * Only use cold tap water for drinking, cooking
 - * Test Paint and dust in home if it was built before 1978

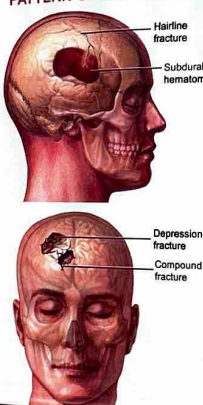
EGA	DA	Vam
	libwa	Agac

Sr. No.	VISHAYAV.		
1	Prathamā vega	Shyavā jñā Sthābhā Moorchā Shwasā	Vāri Virec
2	Dvīteyā vega	Vepathu Daha Kantā rāja Hrūshulā	
3	Triteyā vega	Talushocha Amashayā shulā Duvurmā Hareetā and shūmā netrā Pakvashayā toda Hikka Kasa Antrakujāna	Agad Nasyā Anjanā
4	Chaturthā vega	Shirogourava	Snehā
5	Panchamā vega	Kapha praseka Vāipmā Parva shēda Saravodhā prakopata Pakvashayā shoolā	Madhā agadu
6	Shashtam vega	Atisara Pragna pranasha	Atisara Avapā
7	Saptam vega	Skandha bhaṅga Prushtā bhaṅga Kati bhaṅga Sannirodha Mrutyu	Kakap avapā

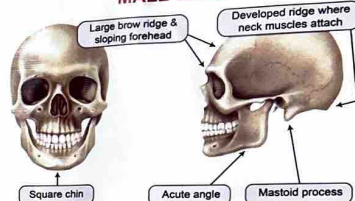
Offenses Are Classified as

Sexual Offences Are Classified as

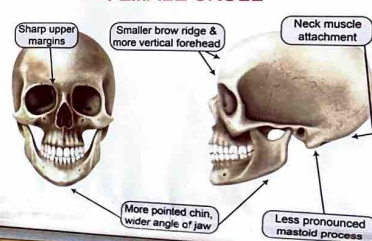
- 1. Natural Offences
 - a) Rape b) Incest c) Adultery
- 2. Unnatural Offences
 - a) Sodomy b) Tribadism
 - c) Bestiality d) Buccal Coitus
- Note : Incest and tribadism are not offences under Indian Penal Code
- 3. Sexual Paraphilias or Perversions
 - a) Sadism b) Masochism c) Transvestism
 - d) Fetishism e) Voyeurism f) Exhibitionism
- 4. Sex Linked offences
 - a) Stalking b) Voyeurism
 - c) Sexual harassment d) Trafficking
 - e) Indecent assault



10



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11

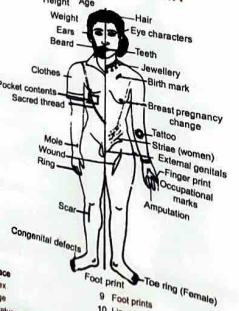
अथवा विषयसम्योगात् कन्या विषयमीकृता ॥
स्पर्शाच्छासादिभिर्निति तस्यास्त्वतत्परिक्षणं ।
तपस्तकस्य संस्पर्शास्तायते पुष्पपल्लवैः ॥
शृण्वां मालुर्गेवस्ते यूकभिः सानवारिणि ॥ (अ.सं.सु.८/५४-५६)

The *vishakanya* were young women reportedly used as assassins (murder), often against powerful enemies during the times of the Ancient India. The *vishakanya* used to be prepared by administering the small doses of poison to a beautiful baby from birth. So that she becomes a poisonous lady just by the spit and saliva. She becomes a poisonous lady causes death. *Vishakanya* contacts with normal person then virus spreads and infected. Such person lost his life within a short period.

The lakshanas of vishakanya are as follows.

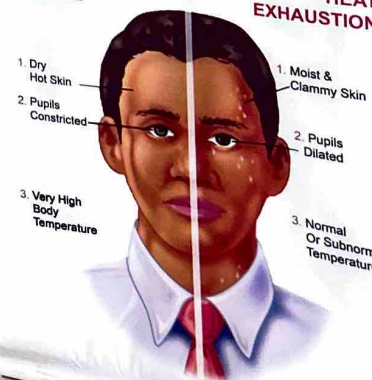
1. The flowers on her head will dry immediately.
2. Mites will die on her bed.
3. Death of insects or organisms in her bath water.

Height Age
Weight Hair



- | | | |
|--|--|-------------------|
| 2 Race | 9 Foot prints | Toe ring (Female) |
| 3 Sex | 10 Lip prints | |
| 4 Age | 11 External identification features
like moles, scars, tattoo marks,
deformities, occupation marks etc | |
| 5 Stature and development | 12 Teeth | |
| 6 Complexion and features | 13 Speech and Voice | |
| 7 Hair | 14 Personal effects | |
| 8 Anthropometry | 15 Gait, mannerisms and other
miscellaneous data | |
| 9 Dactylography
(Fingerprint Examination) | | |

HEAT



100

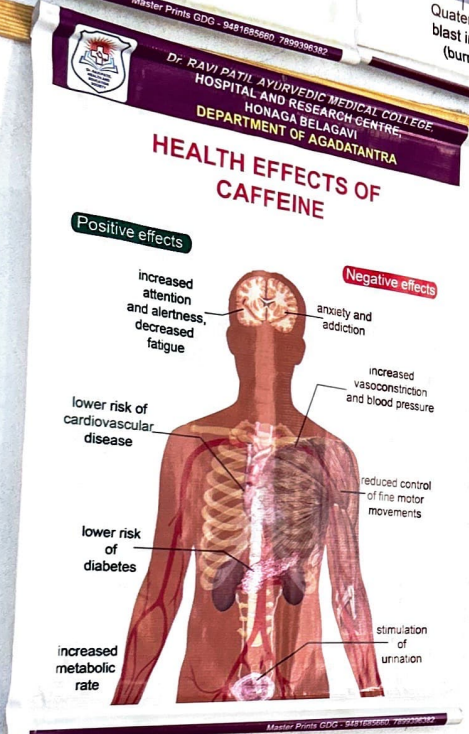
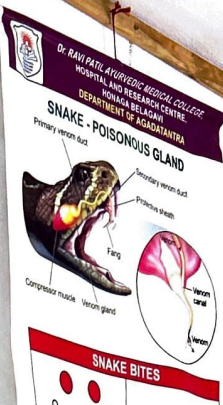
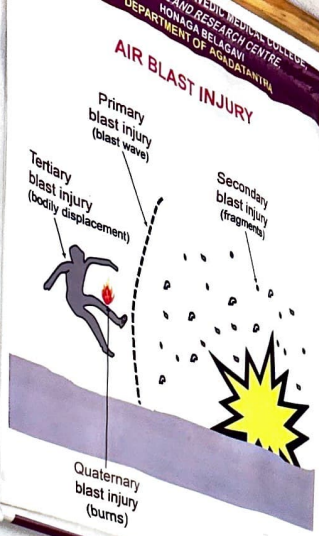
-
- The diagram shows a person's face split vertically to compare two states. On the left, representing the state before shock, the person has dry, hot skin, constricted pupils, and a very high body temperature. On the right, representing the state after shock onset, the person has moist and clammy skin, dilated pupils, and a normal or subnormal body temperature.
- 1. Dry Hot Skin
 - 2. Pupils Constricted
 - 3. Very High Body Temperature
- 1. Moist & Clammy Skin
 - 2. Pupils Dilated
 - 3. Normal Or Subnormal Temperature

विष वर्गीकरण
 “स्वावर जगमं चैव द्विविधं विषमुच्यते।
 दसाधिष्ठानमाद्यं तु द्वितीयं चोत्थाश्रयम्॥”

विष अधिष्ठान
 “मूलं पत्रं फलं पुष्पं त्वचोर्धरं सार एव च।
 निर्यातो घातवश्चैव कन्दश्च दहामः स्मृतः॥”

स्वावर विष लक्षण
 “स्वावेरं तु ज्वरं हिक्का दन्तहर्षं मलग्रहम्।
 फेनवम्यरुचिश्वातमूर्च्छाश्च जनयेद्विषम्॥”

जाड्यम विष लक्षण
 “निद्रा तन्द्रा कलम दाहं सपाकं लोमहर्षणम्।
 शोकं चैवातिसारं च जनयेज्जाड्यम विषम्॥”



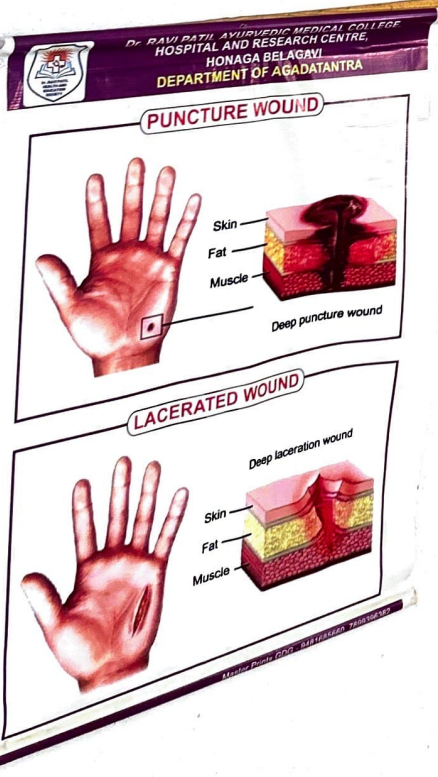
DIFFERENCE BETWEEN HANGING

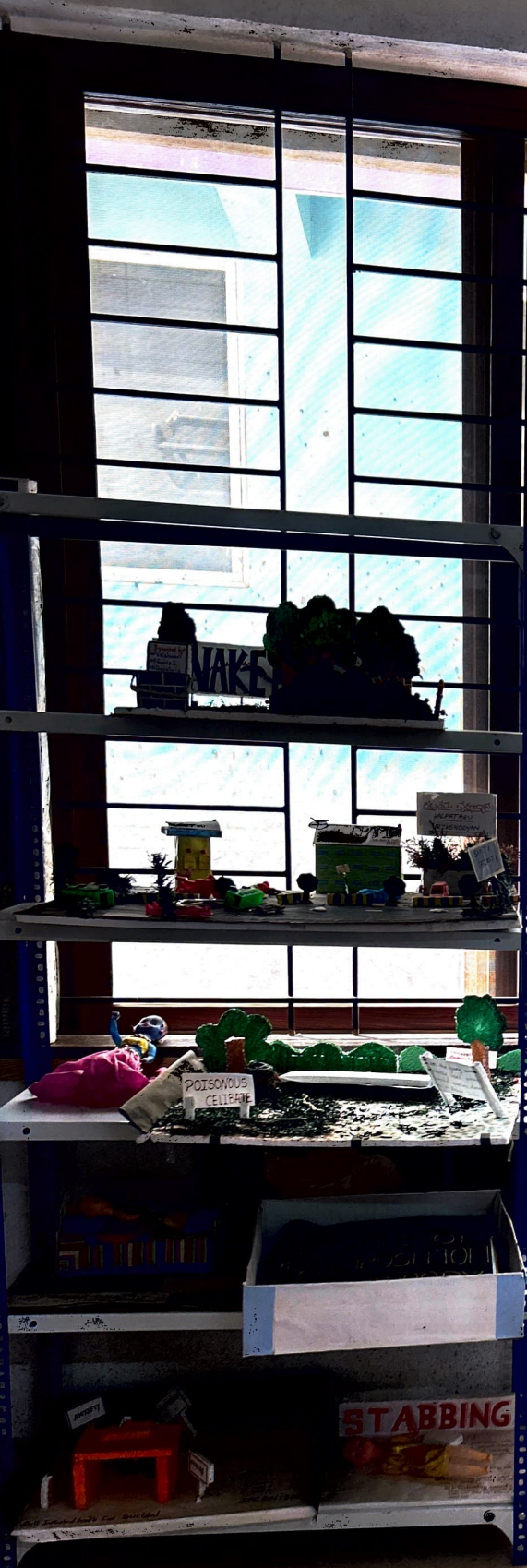
HANGING	STUNTING
1. Strangle usually	1. No signs of struggle
2. No signs of struggle	2. No signs of struggle
3. Ligature found in position, above thyroid cartilage mark incomplete, directed obliquely upward with a tag indicating the skin in the gap	3. Ligature found in position, above thyroid cartilage mark incomplete, directed obliquely upward with a tag indicating the skin in the gap
4. Abrasions and bruises around ligature mark rare	4. Abrasions and bruises around ligature mark rare
5. Direction of ligature mark reveals a dry, substantial tissue	5. Direction of ligature mark reveals a dry, substantial tissue
6. Neck usually stretched	6. Neck usually stretched
7. Fracture of hyoid rare	7. Fracture of hyoid rare
8. Fracture of laryngeal cartilage and tracheal rings rare	8. Fracture of laryngeal cartilage and tracheal rings rare
9. Injury to carotid arteries in cases with a long drop	9. Injury to carotid arteries in cases with a long drop
10. Injury to muscles of neck rare	10. Injury to muscles of neck rare
11. Fracture dislocation of cervical vertebrae common in judicial hanging	11. Fracture dislocation of cervical vertebrae common in judicial hanging
12. Saliva running out of the angle of the mouth vertically down along the neck and front of chest and abdomen	12. Saliva running out of the angle of the mouth vertically down along the neck and front of chest and abdomen
13. External signs of asphyxia may not be well marked when death is due to any cause other than asphyxia	13. External signs of asphyxia may not be well marked when death is due to any cause other than asphyxia
14. Face usually pale	14. Face usually pale
15. Bleeding from nose and mouth very rare	15. Bleeding from nose and mouth very rare



ROYAL DROWNING CAFE

ROYAL DROWNING CAFE





Dr. Ravi Patil Ayurvedic Medical College, Hospital and Research Centre, Honaga Belagavi, Department of Agadatantra

SALMONELLA INFECTION

Almost any kind of food or beverage can carry the bacteria that causes salmonella infection, although meat and eggs the most are common sources.

Contaminated food or drink

How Salmonella Progresses

Bacteria travel to small intestine, adhere to lining, begin life cycle

In severe cases, bacteria travel through bloodstream, can be deadly if not properly treated

Symptoms

Within 12-72 hours

Nausea, vomiting, fever, diarrhea, abdominal cramps

4-7 days illness ranges from mild to severe; most people recover without treatment

Severe cases more likely with infants, elderly, people with impaired immune systems

Treatment

Oral or injected antibiotics, usually for 2 weeks

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GENERAL FEATURES OF POISON

One or more of the following features indicate:

- 1 Oval head with large scales (shells) or irregular
- 2 Broad ventral scales extending completely across
- 3 Tail short and tapering abruptly
- 4 Scales on the under surface of the tail (subcaudal)
- 5 Third supranasal shield (i.e. upper lip scales) is the largest

A. Broad ventral scales

B. Divided ventral sub-caudal scales

C. Oval head with large scales (shells)

D. Oval head with large scales (shells)

E. Third supranasal shield is the largest of the scales

F. Fourth subnasal shield is the largest of the scales

G. Central row of ventral scales

H. Central row of ventral scales

I. Central row of ventral scales

J. Central row of ventral scales

K. Central row of ventral scales

L. Central row of ventral scales

M. Central row of ventral scales

N. Central row of ventral scales

O. Central row of ventral scales

P. Central row of ventral scales

Q. Central row of ventral scales

R. Central row of ventral scales

S. Central row of ventral scales

T. Central row of ventral scales

U. Central row of ventral scales

V. Central row of ventral scales

W. Central row of ventral scales

X. Central row of ventral scales

Y. Central row of ventral scales

Z. Central row of ventral scales

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DIFFERENCE BETWEEN ANTI-MORTEM AND POST-MORTEM WOUNDS

No.	TREAT	ANTI-MORTEM WOUNDS	POST-MORTEM WOUNDS
1	Edges	Swollen, everted, retracted and sound gaps	Edges do not gap, but are closely approximated
2	Hemorrhage	Abundant and usually arterial	Slight or more and venous
3	Spurting	Signs of spurting of arterial blood on the body, clothing or in its vicinity present	No spurting of blood
4	Extravasation	Staining of edges of the wounds as extravasation in neighbouring substances and interstitial tissues, which cannot be removed by washing	The stain can be removed by washing
5	Coagulation	Firmly Coagulated blood in wounds and tissue present	No clotting or soft clot
6	Vital Reaction	Signs of vital reaction present i.e. inflammation and repair	No signs of vital reaction
7	Enzymes	Increased activity of esterase, alkaline phosphatase, acid and alkaline phosphatase	Diminished or no enzyme activity

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POISONS AND THEIR ANTIDOTES (I)

POISON	ANTIDOTES	DOSAGE REGIMEN
Anticholinergic agents	Physostigmine	2 mg IV over 5 minutes
Anticholinesterases	Atropine	2 to 4 mg every 5 to 10 minutes
Anticoagulants (warfarin type)	Vitamin K	2 to 4 mg IV adult
Organophosphates	Atropine Praldoxime	2 mg IV, IM or SC
Benzodiazepines	Flumazenil	Initially 0.2 mg IV over 30 seconds, later 5 mg over 30 seconds at 60 seconds interval
Neurotic analgesics	Naloxone	0.5-1.2 mg
Carbon monoxide	Oxygen (normobaric or hyperbaric)	Unit catheter/hyperoxygenation conc. 100% 5%
Cyanide	Sodium thiosulfate Hydroxocobalamin Oxygen	200mg IV over 30 mins 50 ml of 25% solution over 10 mins 100% 100% 100%
Methemoglobin	Methylene blue	0.2 mg/kg of 1% solution
Ascorbic acid	Ascorbic acid	1g / 24 hrs
Acetylcholinesterase	Acetylcholinesterase	300 mg/kg over 16 hrs
Methemoglobin	Methemoglobin	2.5 g/kg orally
Acetaminophen	N - acetylcysteine	140 mg/kg orally followed by 70 mg/kg every 4 hrs
Thallium	Berlin blue	250 mg/kg in divided doses

POISONOUS CELLAR

STABBING

SIGNS OF ADDICTION

HELP INFLUENCED BY FORCE

ABANDONING BIRTH OF PERSISTENTNESS OF ABUSE WOUND



POISONS AND THEIR ANTIDOTES (2)

POISON	ANTIDOTE	CLINICAL REMEDY
Hydrogen peroxide	Ethanol	Infuse to remove from body at 10g
Hydrogen cyanide	Hydroxide	Infuse to remove from body at 10g
Hydrogen sulfide	Hydroxide	Infuse to remove from body at 10g
Hydrogen chloride	Hydroxide	Infuse to remove from body at 10g
Hydrogen bromide	Hydroxide	Infuse to remove from body at 10g
Hydrogen iodide	Hydroxide	Infuse to remove from body at 10g
Hydrogen nitrate	Hydroxide	Infuse to remove from body at 10g
Hydrogen sulfate	Hydroxide	Infuse to remove from body at 10g
Hydrogen phosphate	Hydroxide	Infuse to remove from body at 10g
Hydrogen carbonate	Hydroxide	Infuse to remove from body at 10g
Hydrogen acetate	Hydroxide	Infuse to remove from body at 10g
Hydrogen formate	Hydroxide	Infuse to remove from body at 10g
Hydrogen oxalate	Hydroxide	Infuse to remove from body at 10g
Hydrogen malate	Hydroxide	Infuse to remove from body at 10g
Hydrogen succinate	Hydroxide	Infuse to remove from body at 10g
Hydrogen fumarate	Hydroxide	Infuse to remove from body at 10g
Hydrogen crotonate	Hydroxide	Infuse to remove from body at 10g
Hydrogen benzoate	Hydroxide	Infuse to remove from body at 10g
Hydrogen valerate	Hydroxide	Infuse to remove from body at 10g
Hydrogen caproate	Hydroxide	Infuse to remove from body at 10g
Hydrogen heptanoate	Hydroxide	Infuse to remove from body at 10g
Hydrogen octanoate	Hydroxide	Infuse to remove from body at 10g
Hydrogen nonanoate	Hydroxide	Infuse to remove from body at 10g
Hydrogen decanoate	Hydroxide	Infuse to remove from body at 10g
Hydrogen undecanoate	Hydroxide	Infuse to remove from body at 10g
Hydrogen dodecanoate	Hydroxide	Infuse to remove from body at 10g
Hydrogen tridecanoate	Hydroxide	Infuse to remove from body at 10g
Hydrogen tetradecanoate	Hydroxide	Infuse to remove from body at 10g
Hydrogen pentadecanoate	Hydroxide	Infuse to remove from body at 10g
Hydrogen hexadecanoate	Hydroxide	Infuse to remove from body at 10g
Hydrogen heptadecanoate	Hydroxide	Infuse to remove from body at 10g
Hydrogen octadecanoate	Hydroxide	Infuse to remove from body at 10g
Hydrogen nonadecanoate	Hydroxide	Infuse to remove from body at 10g
Hydrogen eicosanoate	Hydroxide	Infuse to remove from body at 10g

LONG-TERM EFFECTS OF HEROIN

EFFECTS OF ALCOHOL ON BODY

DRUGS AND COSMETICS ACT

MECHANISM OF SOME VIOLENT ASPHYXIAL DEATHS

DUTIES OF THE MEDICAL PRACTITIONERS

REPORTED A CORONER / POLICE OFFICER

DIFFERENCE BETWEEN POISONOUS AND NON-POISONOUS SNAKES

POISONOUS SNAKES



Dr. RAVI PA
HOSP
DEP

CLASSIFI

1. Mechanical Injury
 - A) Due to blunt force
 1. Abrasions
 2. Fractures and
 - B) Due to sharp force
 1. Incised wound
 - C) Firearms
 1. Firearm Wound
2. Thermal Injury
 - A) Due to Cold
 1. Frostbite
 - B) Due to heat
 1. Burns
3. Chemical Injury
 1. Corrosive agent
4. Physical Injury
 1. Electricity
 2. Radiation
 4. Radio-active
5. Explosions
 - A) Legal Classification
 1. Simple
6. Medico-legal
 1. Suicide
 4. Fabricated

