

Panchagavya

A versatile potentiater for living beings



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Invasion of chemical farming and its hazards on



- **Environment**
- **Soil**
- **Water**
- **Air**
- **Plants**
- **Animals**
- **Human beings**

Need for organic farming

- **Organic agriculture**
- **Green culture**
- **Natural farming**
- **Do nothing farming**
- **Bio dynamic farming**
- **Permaculture**

Need for Panchagavya

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graph TD; A[Need for Panchagavya] --> B[Growth promoting hormones]; A --> C[Immunity booster]; B --> D[Impressive Yield]; C --> E[Free of diseases]; D --> F[High Profit]; E --> F;
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Growth promoting hormones

Immunity booster

Impressive Yield

Free of diseases

High Profit

Vedic views and usages

- Pancha boothas
- Rituals
- Prasad

Space



Link between

- **Living and Dead**
- **Visible and Invisible**
- **Physical and para physical**
- **Earthly and heavenly forces**

Holy cow – Kamadhenu

Giver of all riches to humanity

Equilibrium of basic elements

Beneficent forces like

All gods

Devas

Sages

Yogis

Divine spirit



Flow of cosmic energy to remove imbalances

- Physical
- Chemical
- Physiological
- Biological



Birth of Modified Panchagavya For plants, Animals & Human beings



Method of preparation

Ingredients needed

1. Fresh cow dung - 5 kg
2. Cow's urine - 3 litres
3. Cow's milk - 2 litres
4. Cow's curd - 2 litres
5. Cow's ghee - 500 g
6. Sugar cane juice - 3 litres
7. Tender coconut water – 3 litres
8. Ripe banana fruits - 12 nos
9. Toddy - 2 litres



COW DUNG



COW'S URINE



COW'S MILK



COW'S CURD



COW'S GHEE



TODDY
(OR)
FERMENTED
TENDER
COCONUT WATER



JAGGERY



TENDER
COCONUT WATER



BANANA
FRUITS



Alternative ingredient for **sugar cane juice**- 500 g jaggery with 3 liters of water.

Alternate ingredient for **Toddy** – 100 g yeast , 100 g jaggery with 2 liters of warm water or 2 liter of fermented (1 week) tender coconut water .

Mode of preparation

Take a wide mouthed **Mud pot, Concrete tank (or) plastic cans (Avoid Metal containers because panchagavya is acidic)**



Add Cow dung



Add Cow's Ghee



**Stir the Mixture well
and leave it for 3 days**

4th Day continue adding all the remaining ingredients



**Add Cow's Urine
& Mix well**



**Add cow's Milk
& Mix well**

Add cow's Curd & Mix well



Add tender coconut water & Mix well



**Add Toddy or Fermented tender coconut water
& Mix well**



Add Mashed Banana & Mix well




Add Sugarcane juice (or) 500 gms Jaggery dissolved in 3 liters of water



Stir well and close the can tightly



Stir twice daily for 15 days



**After 18 days
Panchagavya will
be ready with a
good odour**

Important contents of Panchagavya

- **Macro nutrients – N,P,K**
- **Micro nutrients – Trace elements**
- **Proteins**
- **Fats**
- **Carbohydrates**
- **Vitamins**
- **Aminoacids**
- **Micro organisms**
- **Bacteria**
- **Fungi**
- **Enzymes**
- **Growth promoting factors**
- **Immunity boosters**
- **Antioxidants**

Composition

• pH	5.45	• IAA (ppm)	8.5
• EC dSm ²	10.22	• GA (ppm)	3.5
• Total N (ppm)	229	• <i>Fungi</i>	38800/ml
• Total P(ppm)	209	• <i>Bacteria</i>	1880000/ml
• Total K(ppm)	232	• <i>Lactobacillus</i>	2260000/ml
• Sodium	90	• <i>Total anaerobes</i>	10000/ml
• Calcium	25	• <i>Acid formers</i>	360/ml
		• <i>Methanogen</i>	250/ml

Physico-Chemical and biological Properties of Panchagavya as analysed at T.N.A.U

Properties/ Composition	Days after preparation (days)				Mean composition on 15 th day *Out of 6
	0	7	10	15	
PH	5.65	3.92	4.69	5.18	5.12 Preparations 8.2
EC(dsm-1)	9.30	11.20	10.4	8.2	
Available N/ ppm	-	298	376	485	492
Available P/ ppm	-	645	760	865	915
Available K/ ppm	-	940	1540	1648	1635
Organic carbon (%)	-	0.49	0.53	0.61	0.6
IAA ppm	-	10.8	11.8	12.1	13.5
G.A ppm	-	4.9	5.8	5.2	5.6
Total Sugars ppm	-	345	386	586	575
Bacteria (x10/6)	0.22	5.2	6.4	94	92x10 ⁶
Fungi	3x10 ²	4.5x10 ³	4.5x10 ⁴	46x10 ⁴	48x10 ⁴
Actinomycetes	17x10 ¹	20x10 ¹	20x10 ¹	19x10 ¹	21x10 ¹

Micro organisms per gram of Panchagavya as analyzed by Dr.A.R.Solayappan

Nitrogen fixing AZOSPIRILLUM	10 X10
Nitrogen fixing AZATOFACOR	10x9
Phosphorus solublysing PHOSPO –BACTERIA	10 x7
Immunity enhancing PSEUDOMONAS	10x6

Chemical Analyses at S.G.S Labs Chennai.

PH	6.02
E.C	3.02
T.D.S	3.4 % W/w
NITROGEN	6650 P.P.M
Phosphorus	4310 P.P.M.
Potassium	5200 P.P.M.
Sodium	1600 P.P.M.
Calcium	1000 P.P.M.
Magnesium	840 P.P.M.
Chloride	248.5 P.P.M
Boron	0.442 P.P.M
Manganese	14.8 P.P.M
Iron	142.5P.P.M.
Zinc	82 P.P.M.
Copper	58 P.P.M.
Sulphur	0.56 P.P.M.

GC-MS analysis of Panchagavya at TNAU labs

Fatty acids, Alkanes, Alconol & alcohols

	Fatty acids	Alkanes	Alconol & alcohols
1.	Oleic acid	Decane	Heptanol
2.	Palmitic acid	Octane	Tetracosanol
3.	Myristic	Heptane	Hexadecanol
4.	Deconore	Hexadecane	Octadeconol
5.	Deconoic	Oridecane	Methanol, Propanol,
6.	Octanoic	Eicosine	Butanol & Ethanol
7.	Hexanoic		
8.	Octadeconoic		
9.	Tetradecoic		
10.	Acetic, propionic, Butyric, Caproic & valeric acids		

Usage

- **Spray system**
- **Flow system**
- **Seed – seedling treatment**
- **Seed storage**

Spray system

3% Panchagavya solution for all crops

- 3 liters of Panchagavya with 100 liters of water = 3% solution
- 300 ml of Panchagavya with 10 liters of water = 3% solution
- 30 ml of Panchagavya with 1 liter of water = 3% solution

2 % Panchagavya solution for crops like cucumber, mint, bottle gourd, snake gourd with soft leaves.

- 2 liters of Panchagavya with 100 liters of water = 2% solution
- 200 ml of Panchagavya with 10 liters of water = 2% solution
- 20 ml of Panchagavya with 1 liter of water = 2% solution



Flow System

25 liters of Panchagavya + 500 liters of Amrut Pani per acre once in 15 days / month.

Seed – seedling treatment

3% Panchagavya solution for seed and seedling treatment

Seed storage

3 % Panchagavya solution to dip the seeds before drying and storing them

Periodicity of application

For fruit trees:

Pre flower phase (20 days after planting)	Once in 15 days (two sprays depending upon duration of the crops)
Flowering and pod-setting stage	Once in 10 days (two sprays)
Fruit / pod maturation stage	Once during pod maturation

**For Cereals, Pulses and Oil seed crops:
One Spray every 15 days**

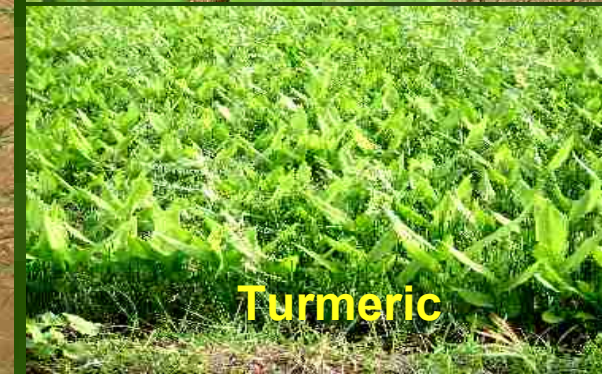
**For Vegetables, Greens and Flowers:
One Spray every week**

General effects of Panchagavya

- **Leaves**
- **Stems**
- **Roots**
- **Harvest**
- **Yield**
- **Drought hardiness**

Leaves

- Leaves become bigger
- More number of leaves
- Total leaf surface area increases
- More photosynthesis
- More Yield



Stems

- More side shoots
- Trunk becomes sturdy
- Bears more weight
- Branching is high



Brinjal with more side shoots & sturdy stem



Sugarcane with sturdy stem

Roots

- Rooting is profuse and dense
- Remain fresh for long time
- Grow into deeper layers of the soil
- Helps maximum intake of nutrients and water
- Hence more yield



Harvest And Yield

- From chemical agriculture to organic agriculture is easy
- Panchagavya restores yield levels of all crops in the first crop itself
- Harvest is advanced by 15 days
- Increases the weight of the produce
- Enhances the self life of vegetables and fruits
- Improves the taste, flavour and aroma
- Increases sugar content in fruits by 25%
- Increase the oil content in oil seeds by 25%
- Gets more price in the market



Drought hardiness

- **Forms a thin film coating on the leaves**
- **Reduces the evaporation of water under the hot sun**
- **Deep and extensive rooting helps the plants to withstand long dry spells**
- **Hence irrigation water requirement is reduced by 30%**



Beneficial effects on commercial crops

Mango

- Induces dense flowering with more female flowers.
- Irregular or alternate bearing habit stops and the tree continues to fruit regularly.
- Enhances keeping quality of mango by 12 days at room temperature.
- Flavor and aroma of the mango is extraordinary.



Acid Lime

- Continuous flowering is ensured round the year.
- Plump fruits with strong aroma.
- Prevents and cures viral Canker.
- Shelf life is extended by over 10 days.



Guava

- Higher T.S.S (Total soluble Solids) and brix, hence tasty.
- Shelf life extended by 5 days.



Banana

In addition to adding with irrigation water and spraying, a 100ml of the 3 percent solution was tied up at the navel end of the bunch after the flower is removed. The bunch size becomes uniform. The fruits split faster due to faster growth of pulp. Harvest can be done one month earlier. The size of the top and the bottom hands was uniformly big. Prevents Wilt disease.

Panchagavya solution tied on the navel end



Turmeric

- Enhances the yield by 22 per cent.
- Extra long fingers.
- Ensures low drilage loss.
- Narrows the ratio of mother and finger rhizomes.
- Helps survival of dragon fly, slugs, spiders etc. which in turn reduce pest and disease load.
- Sold for premium price as mother / seed rhizome.
- Enhances the curcumin content.



Flowering Plants

- Exceptional aroma and fragrance.
- No incidence of budworm.
- Continuous flowering throughout the year.



Marigold



Rose Plant



Jasmine Plant



Marigold



Rose Plant

Vegetables

- Yield enhancement by 18 per cent, and in few cases like Cucumber the yield is doubled.
- Wholesome vegetables with shiny and appealing skin.
- Extended shelf life.
- Very tasty with strong flavor.



Paddy

- Heavy tillering.
- 300 grains per ear head.
- No Chaffy grains.
- The harvest is advanced by 15 days.
- Percentage of broken rice is reduced during milling.
- Grain weight is higher by 20%.
- The cooked rice remains edible on the next day



Sugar cane

- It increases the girth and height of the sugar cane
- It increases the inter nodal distance of the sugar cane
- It prevents and cures red rot disease in sugar cane
- It increase the sugar cane yield up to 90 tonnes / acre
- It increases sugar recovery up to 15%
- The aroma, flavor and the taste of the organic jaggery is excellent
- Increases the self life of the organic jaggery by 6 months



Coconut

- It supplies all the essential micro nutrients and trace elements to the coconut trees
- Hence it prevents the shedding of young nuts
- It increases the size of the nuts
- It increases the thickness and weight of the kernels
- It increases the oil content of the kernels by 30%
- It prevents Wilt & pencil top disease in the coconut trees



Panchagavya was investigated on

Oil seeds

Gingelly, Sunflower, Groundnut , Mustard

- Increases the size and weight of the seeds by 20%
- Increases the harvest by 20%
- Increases the oil content by 25%
- Increases aroma, flavour and taste
- Increases the self life of the oil by 6 months



Ground nut
/ Peanut



Mustard plant

White mustard

Black Mustard



Sunflower

Sunflower seed



Sesame seeds

Cereals

- Jowar, Bajra, Ragi, Maize and Wheat
- Increases the number, size, density, weight and yield by 25%
- Increases the fibre content and nutrients
- Enhances the taste and keeping quality of the cooked food

In all the crops Panchagavya acts as a growth promoter (75%) and disease pest inhibitor (25%).

Wheat



Corn seeds



Sorghum



Finger Millets



Papaya Tree



Jack Fruit Tree



Paddy Field



Maize Field



Mango Tree



Paddy and Millet field



Panchagavya for animals



- Cows
- Goats
- Sheep
- Dogs
- Rabbits
- Poultry
- Pigs
- Fisheries



Mode of Action

When taken orally by animals, the living microorganisms in the Panchagavya

- Stimulates the immune system
- Produces lot of antibodies against the ingested microorganisms
- It acts like a vaccine
- Increases the immunity of animals
- Helps prevent illness and cure diseases
- Slows down the ageing process
- Improves appetite, digestion, assimilation and elimination of toxins in the body
- Constipation is totally cured
- Increases the blood circulation
- Balances the endocrine secretions
- Cures sterility
- Thus, the animals become hale and healthy with shining hair and skin
- The weight gains are impressive

Dosage & Beneficial Effects

Cows

- 100 ml per cow per day with feed or drinking water
- The cows become healthier
- Increased milk yield, fat content and SNF
- The rate of conception increases
- The retained placenta, mastitis and foot and mouth disease became things of the past
- It cures bloating
- The skin of the cow is shiny with more hair and looks more beautiful



Cow drinking Panchagavya

Goats and Sheep

- Panchagavya was mixed with drinking water or feed
- 10 ml to 20 ml Panchagavya per animal per day depending upon the age
- The goats and sheep became healthy and gained more weight in a short period
- Shining hair and skin was noticed



Goat drinking Panchagavya



Pigs

- Panchagavya was mixed with drinking water or feed
- 10 ml to 50 ml per pig depending upon the age and weight
- The pigs became healthy and disease free
- They gained weight at a faster rate
- The feed-to-weight conversion ratio increased tremendously



Poultry

- When mixed with the feed or drinking water at the rate of 1 ml per bird per day
- The birds became disease-free
- They laid bigger eggs for longer periods
- In broiler chickens the weight gain was impressive
- The feed-to-weight conversion ratio improved by 5% to 10%
- The Shine in the legs of the bird was stunning which proved the bird's health



Fish

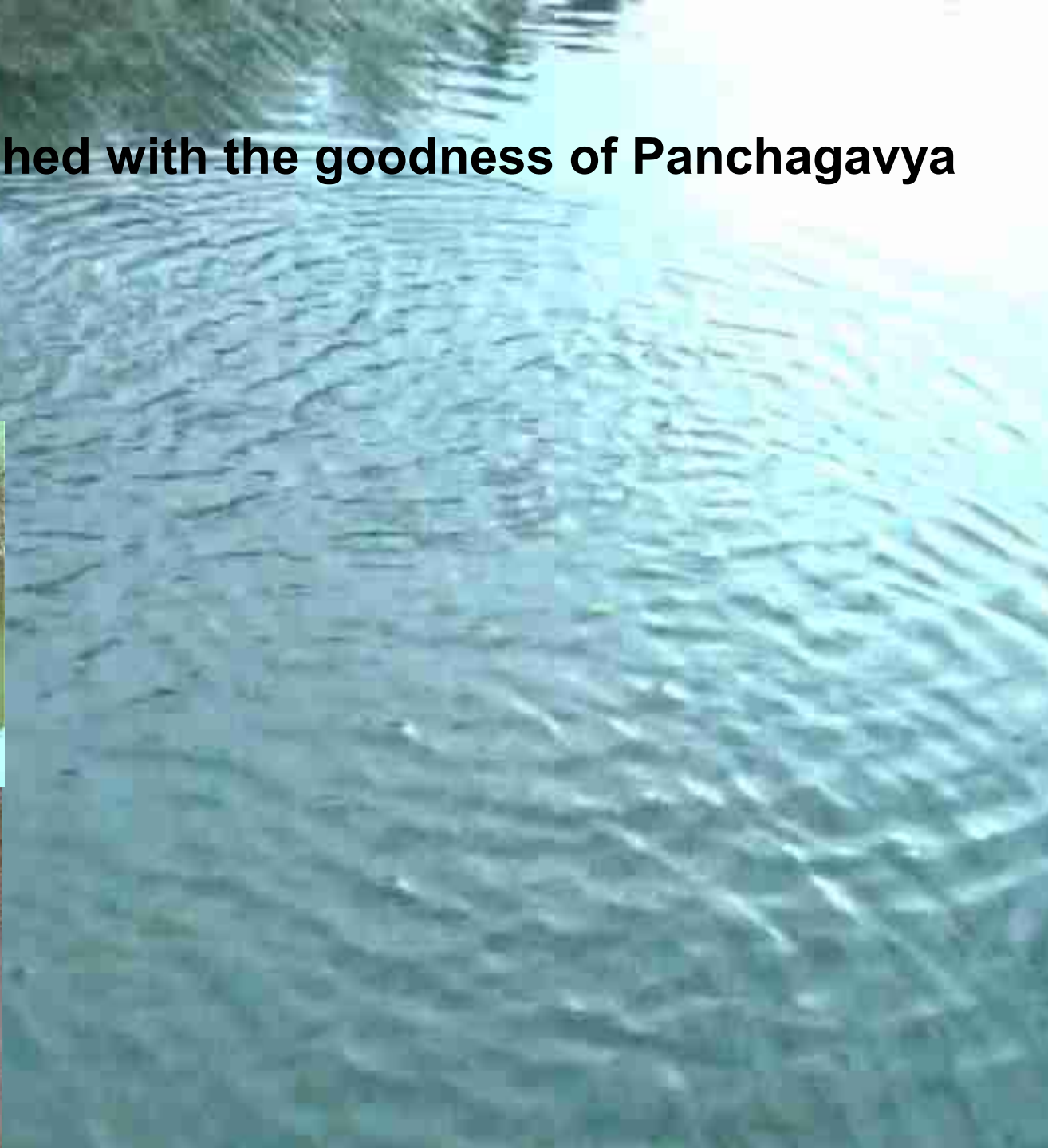
- Panchagavya was applied daily with fish feed
- It increased the growth of phytoplankton and zooplankton in the pond
- It increased the food availability to fish
- It reduces the death rate of small fingerlings and increases its immunity and weight
- In 9 months time each fish grows to a weight of 2 to 3 kgs



Common carp Weights 3.850 kg and 2 feet long in 9 months



Fish pond enriched with the goodness of Panchagavya



Amirtha Sanjeevi For Human Diseases

- **For health and diseases**
- **HIV / AIDS**
- **Diabetes mellitus**
- **Cardiac diseases**
- **Neurological disorders**
- **Viral diseases**
- **Respiratory diseases**
- **In gastroenterology**
- **Endocrine disorders**
- **Cancers**
- **Arthritis**
- **Skin diseases**

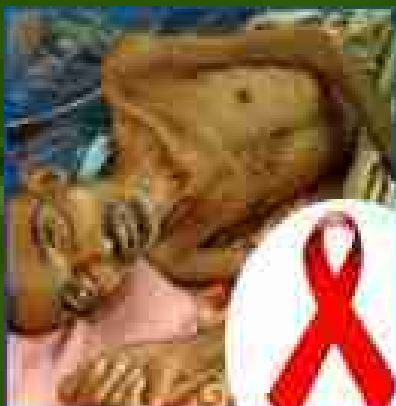
General effects of Amirtha Sanjeevi for humans in health and diseases

A higher form of Panchagavya for human beings.

- Highly palatable with good flavour.**
- Increases appetite and eliminates constipation.**
- Purifies the blood and brings down the cholesterol.**
- Opens the clogged arteries and improves the circulation.**
- Eliminates all toxins and allergies.**
- Enhances immunity and prevents diseases.**
- Highly effective in all diseases. (Diabetes, Cancers, heart diseases, arthritis, sinusitis, asthma, peptic ulcer, irritable bowel syndrome, epilepsy, and sterility, obesity. Etc...)**
- Elevates the mood and leads to sound sleep.**
- Even old people become brisk and active.**
- Retards the aging process and enhances longevity.**

HIV – AIDS

- It increases appetite and hence increase the weight
- It eliminates oral ulcers and loose motions
- It cures cough, fever and pulmonary tuberculosis
- The patients become hale and healthy and return to their routine work



Diabetes mellitus

- It reduces the blood sugar
- It eliminates constipation
- It removes tiredness & patients become brisk & active
- It prevents peripheral neuritis and cures numbness and burning of the feet
- It prevents diabetic nephropathy and diabetic retinopathy
- It increases the sexual vigour in diabetic males and females

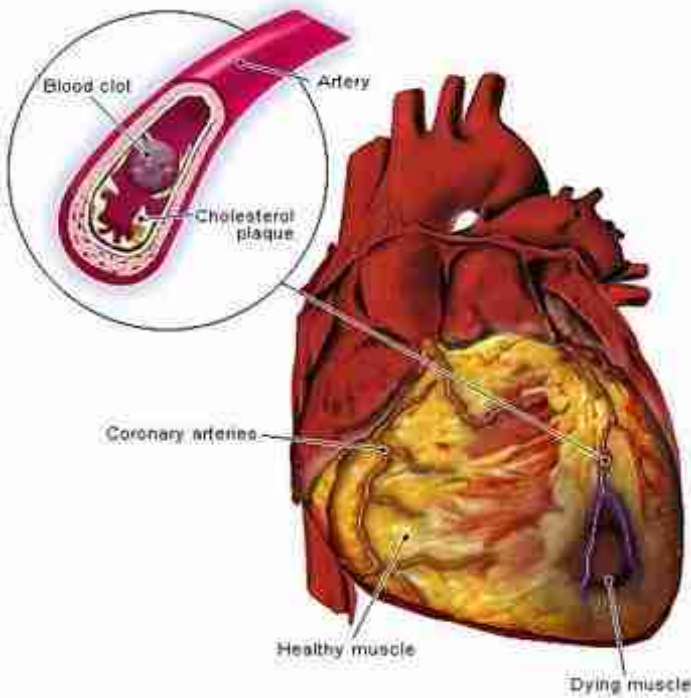


Patient #: 4XXX
Age: 60 M
Diagnosis: Diabetes – Infection w/imminent gangrene



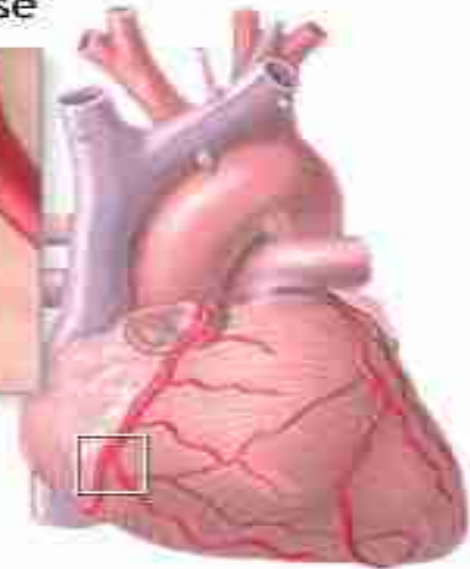
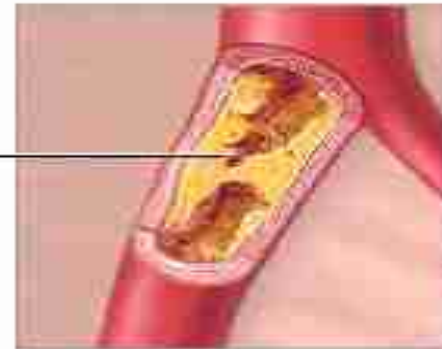
Cardiac diseases

- It increases the urine output and reduces blood pressure
- It reduces cholesterol in the blood
- It prevents the clogging of arteries
- It opens up the clogged vessels by dissolving the clots
- Hence it prevents heart attacks
- It prevents heart failure by increasing the efficiency of the cardiac muscular contractions



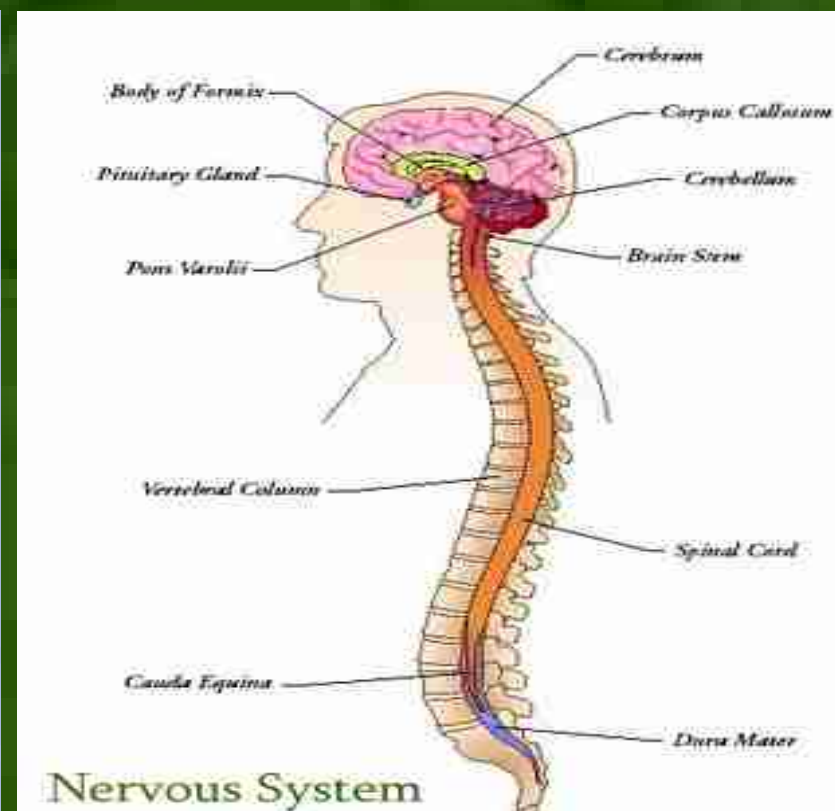
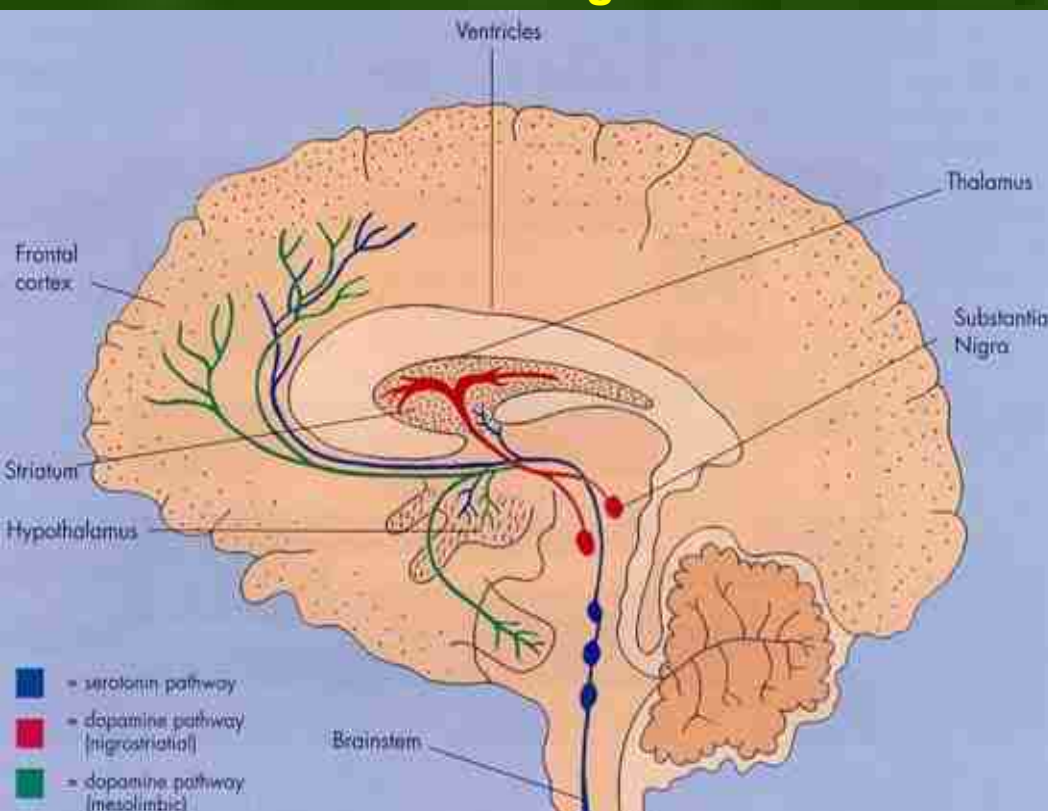
Quitting smoking, a healthy diet and exercise may reduce your risk of heart disease

Plaque in coronary artery



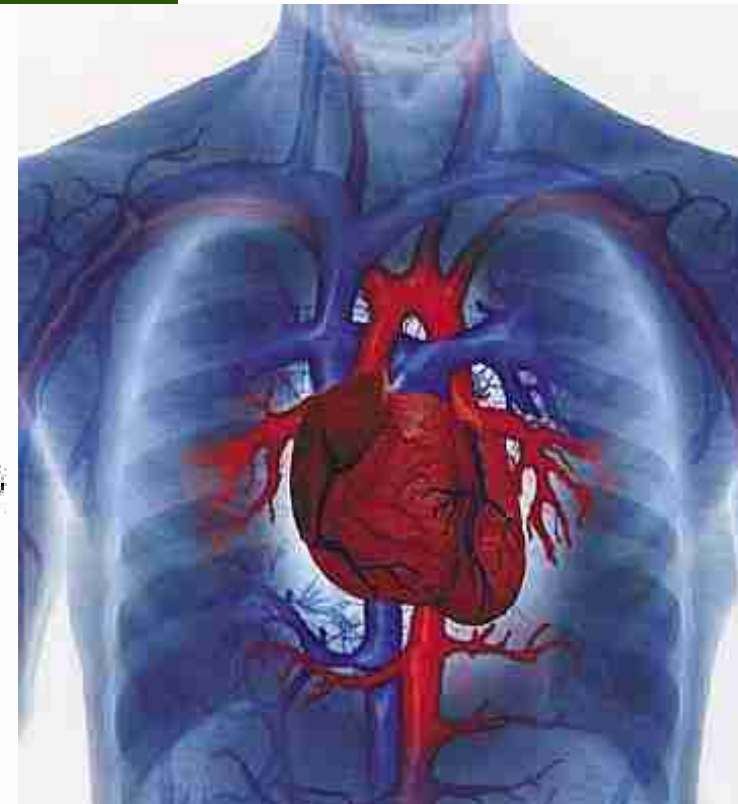
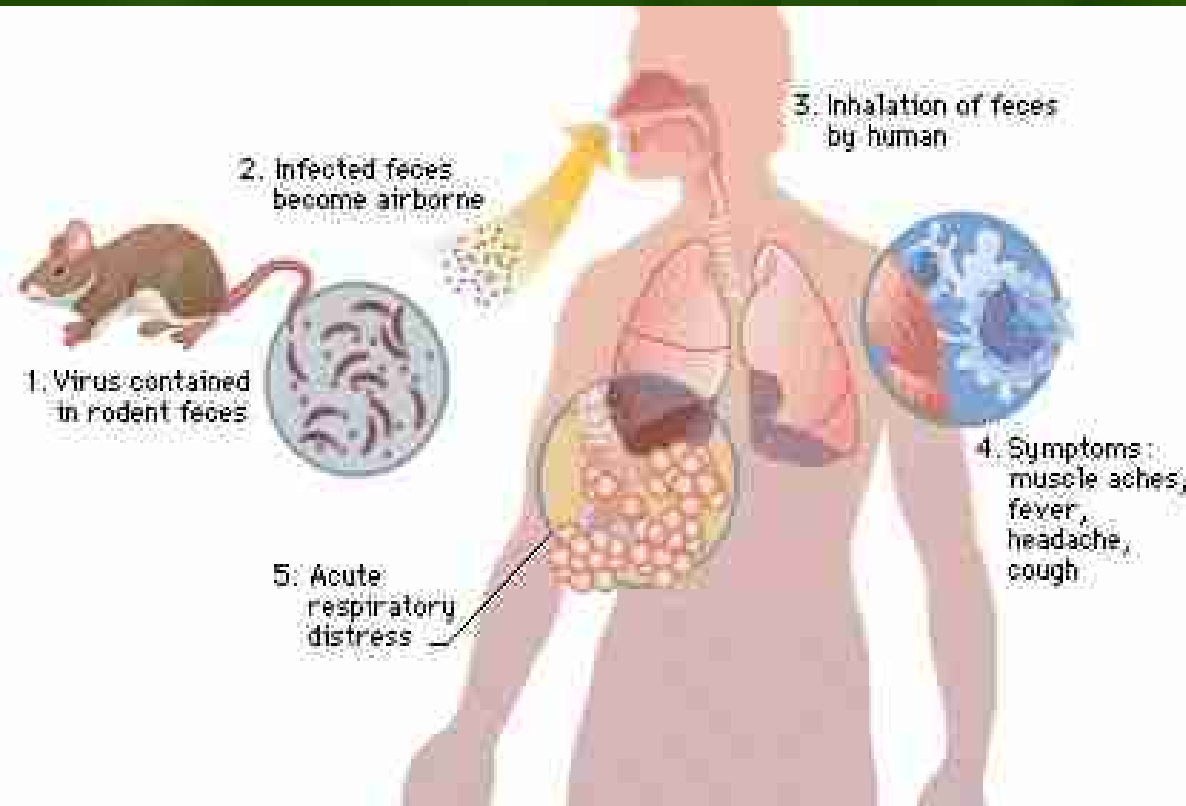
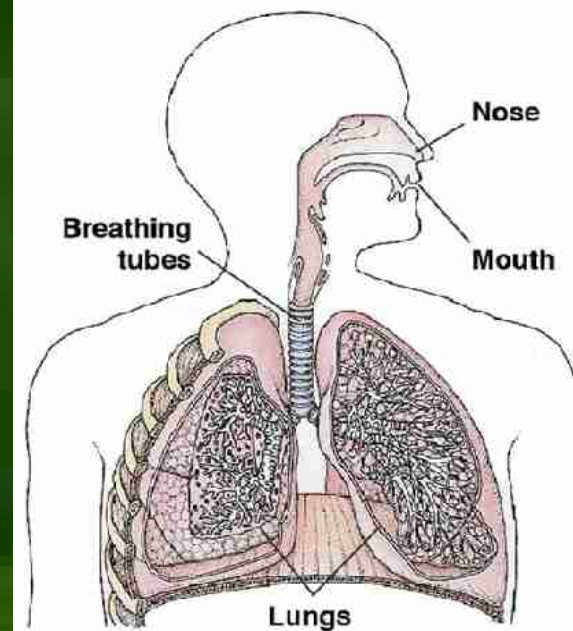
Neurological disorders

- It increases the blood circulation to the brain by opening up the clogged vessels and dilatation of the arteries
- So it prevents stroke and paralysis
- It calms down the excess electrical activity in the brain and cures fits
- It induces sound sleep and cures neuritic pains
- It reduces the shaking of hands and head in Parkinson's diseases



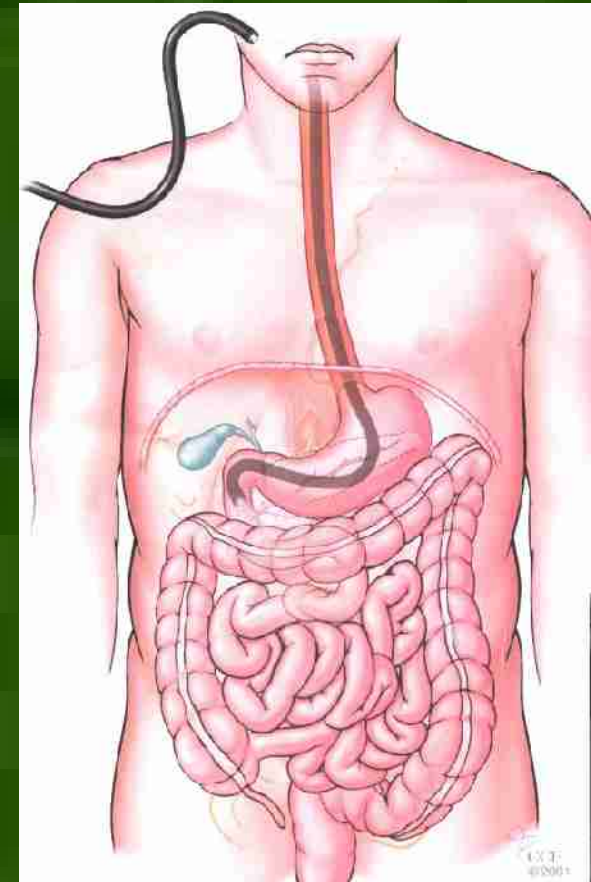
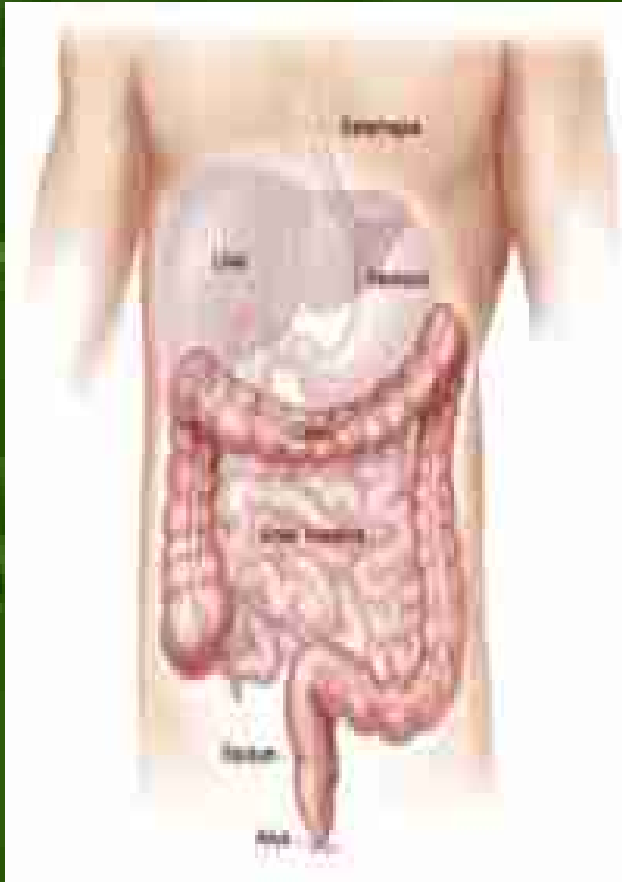
Respiratory diseases

- It cures nasal allergies and sinusitis
- It cures allergic bronchial asthma and bronchitis
- Along with anti T.B drugs it cures pulmonary tuberculosis much earlier
- It eliminates the side effects of anti T.B drugs



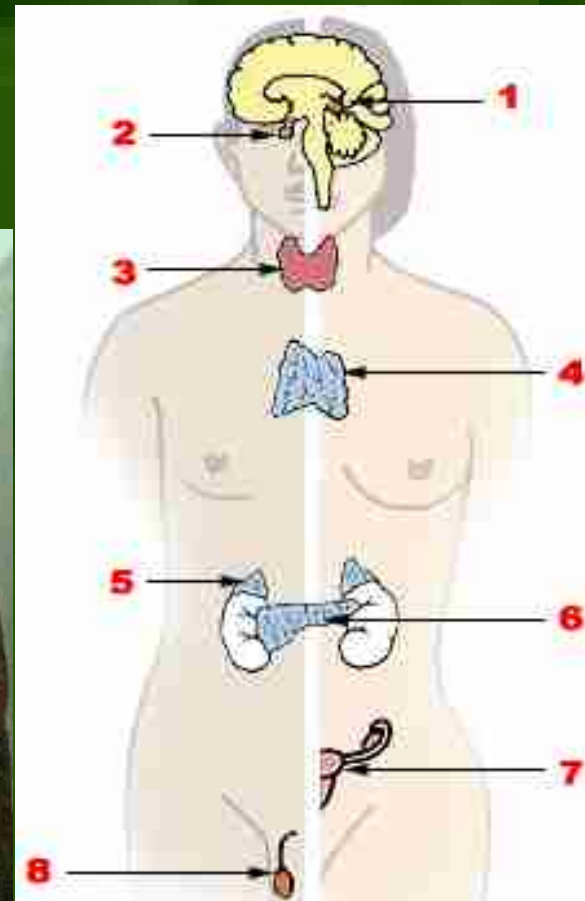
Gastroenterology

- It suppresses acid secretion in the stomach and cures peptic ulcers
- It cures Irritable Bowel Syndrome (I.B.S)
- It eliminates constipation and cures piles
- It increases appetite and enhances digestion and assimilation



Endocrine disorders

- It is very effective in all endocrine disorders
- It balances the hormone secretion and cures hypothyroidism and hyperthyroidism
- It ensures regular menstrual cycle and enhances the conception rate in infertile women
- It increases insulin secretion in diabetic patients



Cancers

- In the early stages of cancer it gives good results
- In advanced cases it reduces the pain, increases appetite, eliminates constipation, gives sound sleep and increases the life span
- When given along with chemotherapy it reduces the side effects like vomiting, leucopenia and anemia



Arthritis

- It repairs and regenerates the damaged cartilages in the joints
- Hence it prevents pain and further damage in the joints
- It removes morning stiffness in the joints
- It cures back pains and neck pains



Viral Diseases

- **It builds immunity against all viral diseases**
- **It prevents and cures viral diseases like**
 - 1. Viral Flu**
 - 2. Dengue fever**
 - 3. Chingun ghunia**
 - 4. Swine Flu (H1N1 virus)**
 - 5. Avian Flu**
 - 6. Common cold**

Skin diseases

- Panchagavya along with Gho-sanjeevi powder is useful in skin diseases
- Amirtha sanjeevi should not be used in skin diseases
- Panchagavya is used as oral medication and for external application
- It cures psoriasis, eczema, allergic dermatitis and foot cracks
- It removes pimples and black spots in the face



Thank you

