Current Concepts In The Holistic Management of Heart Disease – Back to the Future?

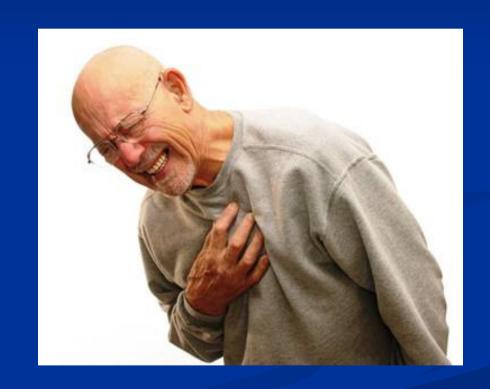
Dr Vijay Mohan Kohli Senior Consultant Cardiac Surgeon Metro Heart Institute, Lajpatnagar, New Delhi

Holistic Management of Heart disease...is it the future?

Dr Vijay Mohan Kohli Senior Consultant Cardiac Surgeon Metro Heart Institute Lajpatnagar New Delhi

Manifestations

Heart Attack or Myocardial Infarction



"Hurry Worry and Curry"

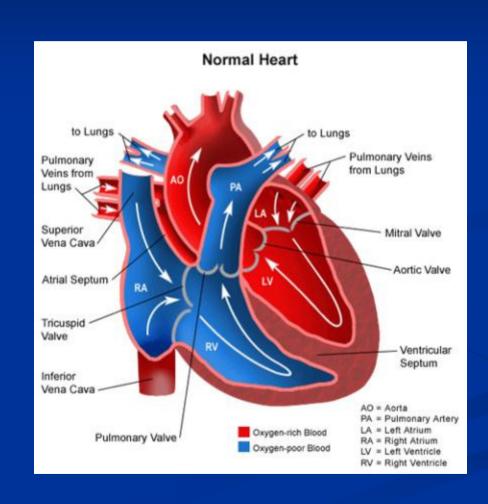




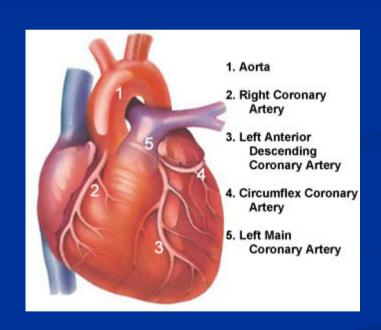
Health...

- We normally assume that since we do not suffer from any ailment we are healthy...this is not true!
- Health is a state of complete physical, mental and social well being and not merely the absence of disease or infirmity (WHO)

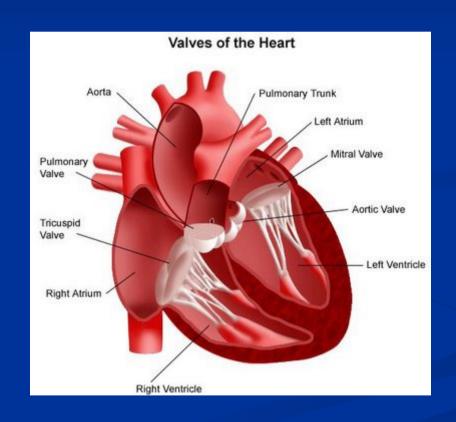
Normal Heart



Coronary Arteries:



Valvular Heart Disease



Types of Heart Disease

Congenital.....Present since birth

▶ Valvular.....Involving cardiac valves

Ischeamic.....Involving coronary arteries of the heart

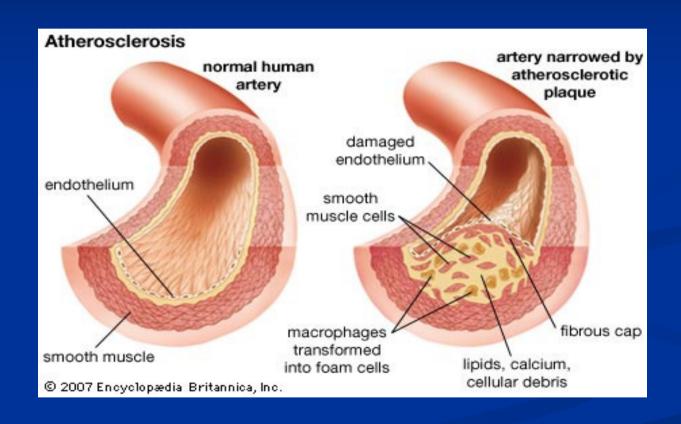
Heart Disease...

- Congenital...Present since Birth
- Valvular...involving the Heart Valves
- Tumours
- High Blood Pressure
- Hear Failure
- Arrythmias...RhythmDisturbances

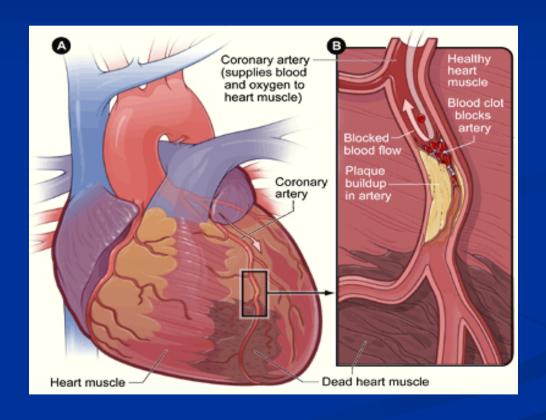
Ischaemic...Involving
 Coronary Arteries of the
 Heart....
 CAD....Atherosclerosis

Diseases of GreatVessels...Not included

Pathogenesis of CAD

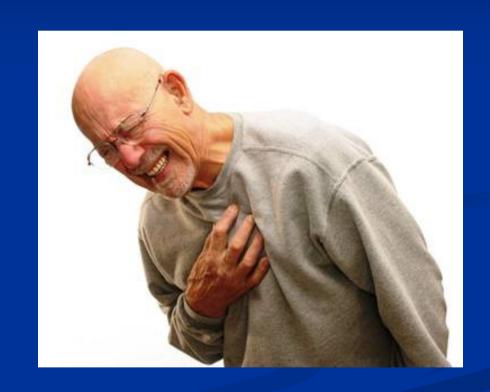


Ischeamic Heart Disease



Manifestations

Heart Attack or Myocardial Infarction



Manifestations....

- Heart Attack..Complications
- ▶ Angina:
- ▶ Stable
- Unstable
- Acute Coronary Syndrome



Diagnosis...

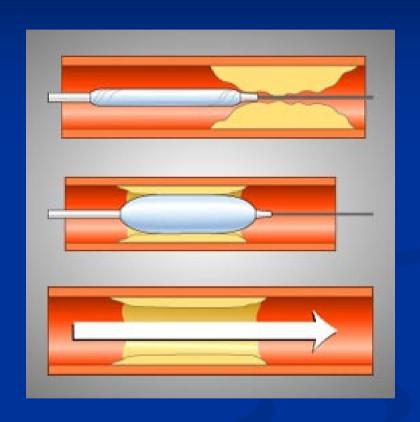
- History and Examination
- Investigations:
- Blood Tests
- 2D Echo
- TMT
- Coronary Angiography

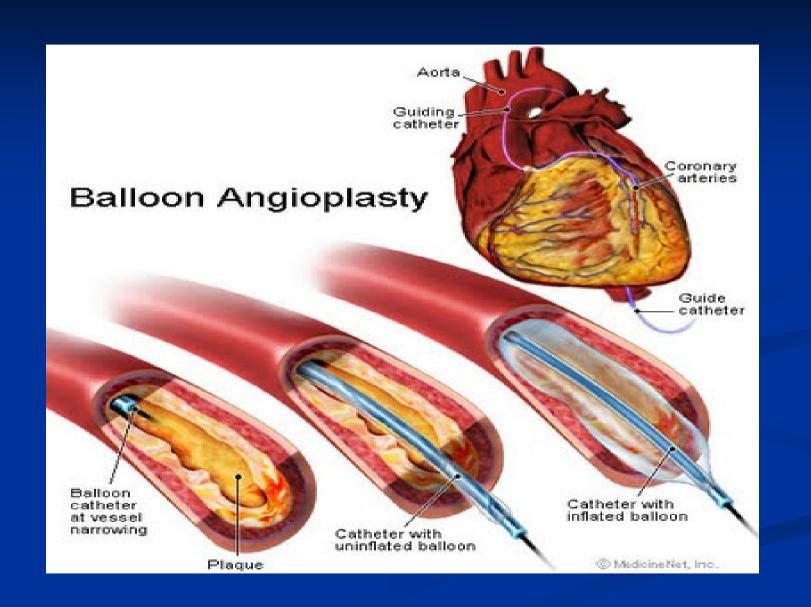
Current Modalities of Treatment

- Drug Therapy
- Percutaneous Interventions (PCI)
 - PTCA/STENTS, Bare Metal (BMS), Drug Eluting (DES)CYPHER-Sirolimus or TAXUS-Paclitexil
- Surgical Interventions
 - CABG
 - ON PUMPOFF PUMP

PTCA ...Principles

- Balloon Catheter introduced into blocked artery
- Catheter is inflated compressing plaque
- Blood Flow Restored





PTCA

A Good Procedure....Mostly Uneventful

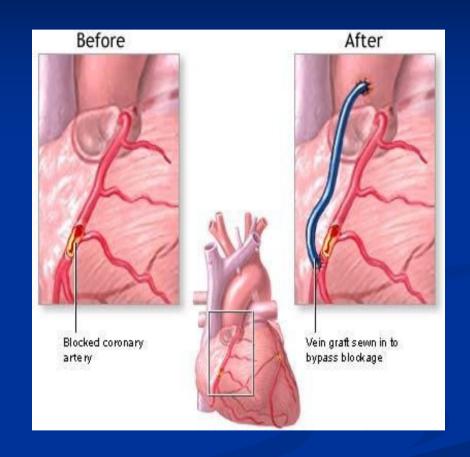
■ 10-30% Recurrence Rate, Depending on type of Stent

Results Depend Largely on Type of Lesion

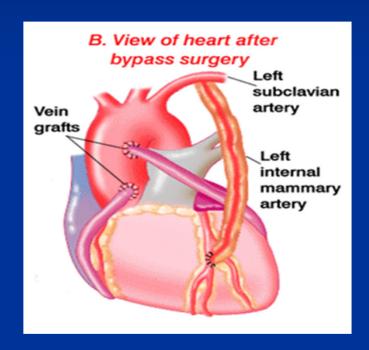
Expensive

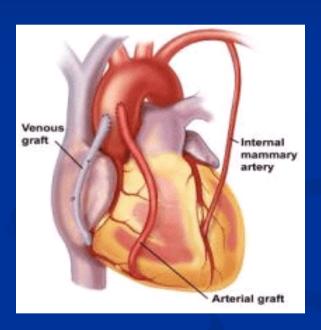
CABG...Rationale

- Blocks In proximal Arteries
- Distally CertainSegments almost AlwaysPatent
- Small Intramyocardial Branches Usually Not Involved



Conduits





CABG....Advantages

- Mostly Complete and Definitive with very good long term results
- Many Modalities Available
- Practically Any Type of lesion Can be Treated
- Long Term Results Very Good and Predictable
- Can be Tailored For Patient
- Low Mortality
- Less Expensive

- All of these are excellent procedures...But...
- The root cause still remains and needs to be addressed no matter what procedure is done
- Ayurveda Metaphysics Spirituality

Causes "Behind the Causes" of IHD?

• Samskars...Bad Habits



• 'Man the Creator''



Prakriti and Vikriti

- Tobacco
- Negative Emotions..Stress
- Diet and Obesity
- Hypertension
- Diabetes Mellitus
- Sedentary life style
- Psychological Factors
- Hypercholestrolemia
- Infections/Inflammation
- Vitamin Deficiencies
- Genetic Predisposition

Prakriti and Vikriti

- Prakriti is "Nature" and is the unique combination of the three doshas at conception due to the genetics lifestyle and current emotions of the parents at the time of conception....Natural
- The doshas predominant in the parents combine to form the constitution of the foetus
- Balance of doshas change due to weather diet fatigue stress emotions exercise and is called Vikriti..."Deviating from Nature'..Unnatural...

Root cause of Disease...

- "Forgetting our true nature is the root cause of disease" leading to seperation from Divinity... Ayurveda
- "Crimes Against Wisdom"....losing awareness...overeating...overdoing everything...

Life....

Life is intimately connected with health disease and death....Each death may have an important role to play....

Life....

We human beings are not aware of what happened before we came into this world and have no idea what happens to us once we are gone....

Life is actually a continuum and has a great bearing on our present birth...and health

Lao Tzu 'What the caterpillar calls the end the world calls the butterfly''...It is actually a Metamorphosis

What the caterpillar calls the end the world calls it the butterfly!



Life....

"There has never been a time when you and I have not existed, nor would there be a time when we will cease to exist. As the same person inhabits the body through childhood, youth and old age, so too, at the time of death he attains another body. The wise are not deluded by these changes"...

Life...a continuum...

"Death" Desire/Karma --> Choose Parent

Birth/Rebirth

"Genes'——— Constitution/Doshas

Disease if unbalanced

"Karmic" Diseases

Genetic Predisposition...

- The Jaina Doctrine...'Genes not only bear the genetic traits of their parents, but these also represent the Karmas performed by individuals".....Acharya Mahaprajna
- "Karmas are the cause and genes are their effect. Karmas direct, instruct and motivate genetic codes and genes to function and mutate accordingly"....Dr Sohan Raj Tater

Genes...

Don't blame the genes....

"Genes load the gun, but environment pulls the trigger"...Dr David Heber... The Spectrum'

"In almost all cases, it is just a predisposition, not a death sentence...."

Action

Karma

Imprint

Samskar

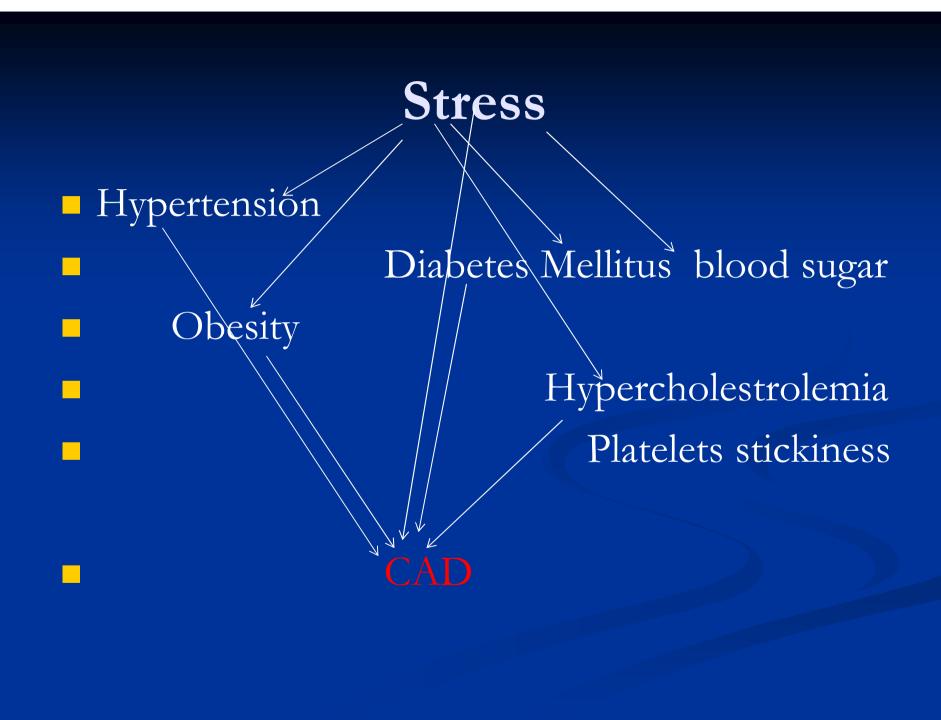
- Karma: Purushkara Prarabdha Pararabdha
 - Prahadara

Inflammation...

- Sign of excessive "pitta"...fire...sign of a Type A personality...ambitious aggressive impatient angry successful..heartburn...ulcers...
- Ingested food is either absorbed excreted or stagnates..rots...accumulates in different areas
- Accumulation of "ama" or toxins...block the coronary arteries leading to coronary artery disease.

Life style....

 We know that most patients have unhealthy life styles leading to obesity hypertension Diabetes
 Mellitus etc but why do people behave



Stress...

What Is It??

Eustress...TheButterflyexperiment

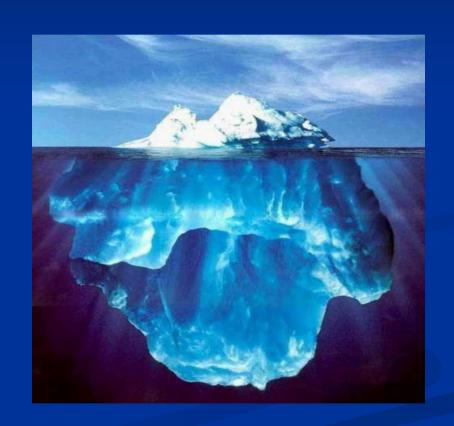
Distress



Stress...

How does stress cause disease?

- ... The complex Human Mind...



The Human Mind...

Conscious

Subconscious

Individual Superconscious

Universal Superconscious

Consciousness.....

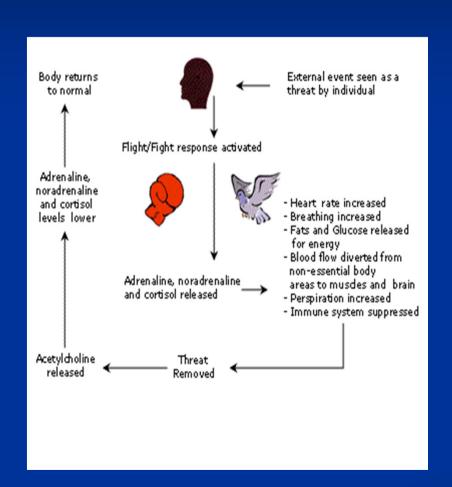
	Level 1	Level 2	Level 3	Level 4
Scientific Term	Conscious Mind	Subconscious	Individual Super-	Universal super-
		Mind	conscious Mind	conscious Mind
Popular Term	Ordinary Self	Hidden Self	The Soul	God
Type of Thought	Analytic	Symbolic	Intuitive	Meditative
Susceptibility to	Disparity between	Historic stress	Failure to pursue	Spiritual
Stress	expectations and	that remains	the story behind	ignorance/Alienation
	our actual	unresolved	your story	from God
	experience			

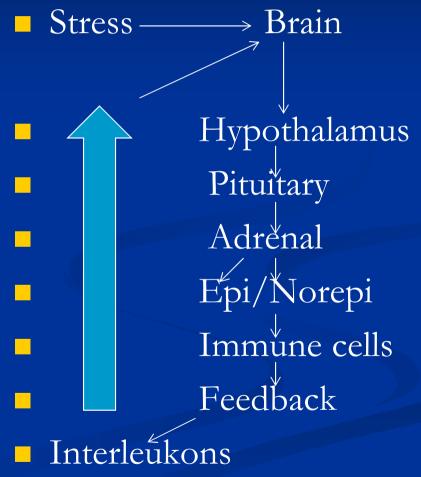
Disease..Dis..ease

- Our mind gets adversely affected by stress which "causes 50% of what kills us and 50% of what disables us "
- "If you suffer from a physical illness or injury, about 40% of your solutions will come from physical means (surgery, medication, physical therapy, diet change and exercise) and the other 60% will come from your mind"

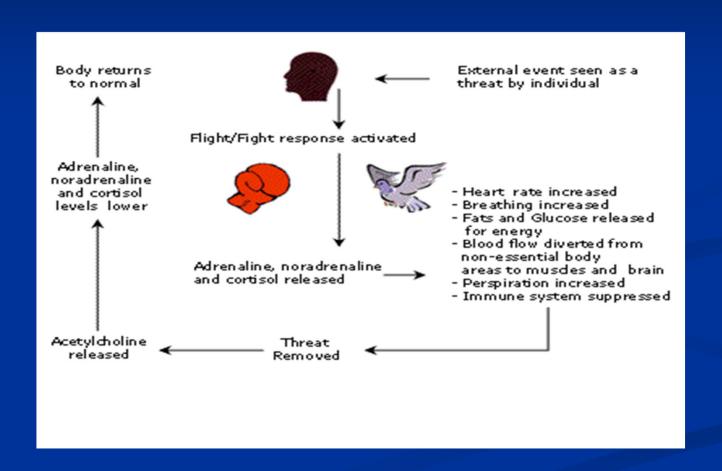
■ Dr Rick Levy

Stress is our interpretation of psychological/physical threat





Stress is our interpretation of psychological/physical threat



Psychological Factors...

"A deep seated history of excessive love loss or chronic sufferring in loveless relationships...

Occasionally, the problem is a fear of love itself because of past encounters with love which have been painful "Dr Levy

Mind Body and Spirit as well as our emotions and the environment play a very important role in causing disease.

Negative Emotions...

- Fear...phobias...anger...hatred...jealousy....
 worry...depression...anxiety are harbingers of
 disease
- Anger and hostility are significantly associated with CAD as well as poor prognosis in those suffering from CAD (JACC 2009)
- CAD is quite common in those with Depression (JACC 2009)

Anger...

- Anger is caused by the obstruction of one's desires.
- "It takes at least three hours physiologically for the body to get back in balance, to the place it was before an angry episode.....and many heart attacks happen within three hours of an angry episode" Nischala...."Yoga as Medicine"

Fear...

- Fear causes physical, mental and spiritual disturbances...extreme fright can stop the heart and cause sudden death.
- When subconscious fears repeatedly invade the mind, in spite of one's strong mental resistance, it is an indication of some deep seated karmic pattern...
- A person who dies in terror carries with him that bleak pattern of fear...Yoganand

 Paramhans

Negative Emotions...

- When the ego or "I' consciousness sides with materialistic forces of creation, "doshas" occur
- Kama (Lust)
- Krodha (Anger)
- Lobha (Greed)
- Moha (Delusion)
- Mada (Pride)
- Matsya (Envy)

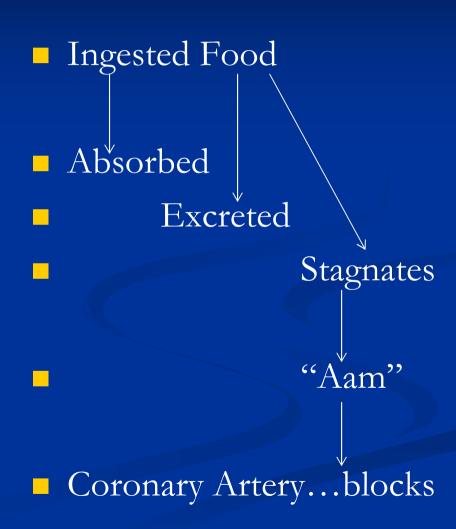
Negative Emotions...

All Negative Emotions lead to development of stress which is conducive to development of IHD

Inflammation...Infection

Sign of excessive "Pitta" or fire.. Type A personality

Ambitious AggressiveImpatient AngrySuccessful Heart BurnUlcers



Inflammation...

What is it?

- Chronic inflammation...your body identifies your own tissue as invaders and begins attacking your own organs and tissues ...a vicious cycle ensues
- C Reactive Protein...Interleukin 6

Depression

- "Coronary Heart Disease is quite common in patients with major depression"
- "Depressed individuals are more than 1.6 times as likely to develop CHD compared with individuals without depression'...Ziegelstein et al, JACC September 1 2009 Vol. 54,No. 10 Pg 886



Repressed Negative emotions...

- Hampered free flow
- Stress

- Block/decreased flow of Peptides
- Cellular function suffers——→Disease

Thoughts...Things

Idea Conscious Mind

Voluntary System Impulses

Involuntary System Impulses

Subconscious Mind

Thoughts...

- "Every thought vibrates, every thought radiates a signal and every thought attracts a signal back."
- This is called the "Law of Attraction"
- "Whether you mull over "heavier" negative thoughts or "lighter" joyful ones, you will attract exactly those vibrations, situations and people into your life" Esther Jerry Hicks

Thoughts...

"Your living is determined not so much by what life brings to you as by the attitude you bring to life; Not so much by what happens to you as by the way your mind looks at what happens"....Kahlil Gibran

Thoughts...

- Arise from the gap in between thoughts....it is here that we are in touch with the Cosmic Mind or the Universal
 Superconscious Mind
- The type of thought we have is dependent on our karmas

- Our mind is berthed from the Cosmic Mind
- Superconscious Mind



- Conscious Mind

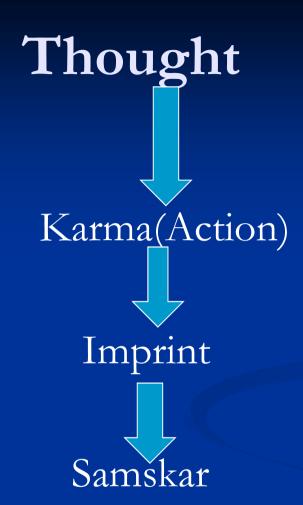
"Molecules of Emotion" Dr Candis Pert

- Information enters the cell when the vibration between the receptor and the key is synchronous
- State of cell changes and a chain reaction ensues
- Translates in to behaviour physical activity and mood changes
- Emotions are therefore cellular signals involved in translating information into physical reality

Thoughts....

- Thought...Feeling
- Neuropeptides
- Receptors on cell surface
- Brain Stomach Gut
- Immune cell thinks differentiates...cancer....

- Every thought can produce changes in any part of the body!
- You are actually communicating with your body through your thoughts and feelings!
- Happy thoughts love compassion forgiveness..helpful in healing



Thought...Feeling

Information is thus being exchanged between the mind/cell/back to the mind via feedback loops.

This is how our emotions cause cellular changes and convert thoughts into material things.

Creation...

God Vibration Light...Sound

Creation

Aum...Naam ... Shabd...Ameen...Holy Ghost

Our Origin...

Creation...Vibration....Aum Shabd Amin ...

Pranashakti....Life...Birth...Kundalini Shakti..

■ Ki...Chi

Chakras....Energy Centres

Our Origin...

- How do we actually come into being?....
- Pranashakti....Ki,
 Chi etc



Pranashakti...

Life

Muladhar Chakra...dormant Kundalini Shakti...

Controls the physiological system through 72000 nerves

Pranashakti...

- The Primal cell is lodged in the medulla oblongata from union of sperm and ovum.
- Cosmic energy enters the body from here
- This is known as the "Mouth of God"



Matter Energy

Albert Einstein... E=mc²

Information

Flow Of Energy...

Brain Spine Peripheral Nerves Spine Extremities Normally positive...if negative, dampened, blocked poor health

Human Body...

Visible body

Invisible body

Our Body Causal Astral Physical....

- Matter (Physical body)....(Sthula Sharir)
- Energy (Pranashakti)......Astral (Sukshma)
- Mind (Manas).....Astral
- Intellect (Buddhi)......Idea (Karan sharir)
- Soul or Spirit.....Idea
- Good physical, mental and spiritual health depends on the balance of all five



Tug o War...

- The Soul/Atma has
 Godly qualities of
 universal love
 compassion kindness and
 empathy...tries to take
 us back to Divinity
- The Conscious mind looks for sense pleasures..a tug o war ensues..stress and disease



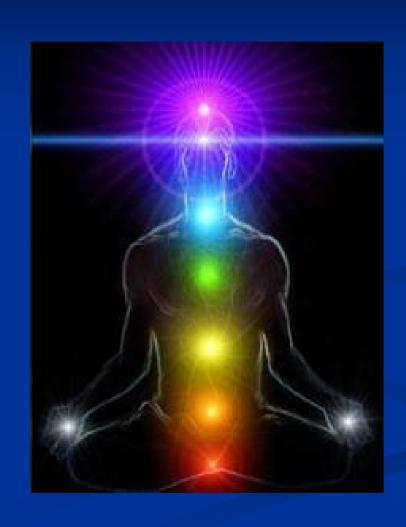
Dis-ease...

- Every disease in the body begins with dis-ease in the mind
- Not learning lessons of life...misunderstanding.. suppressing our experiences...living a life inauthentic to our highest desires...missing the target!



Chakras...

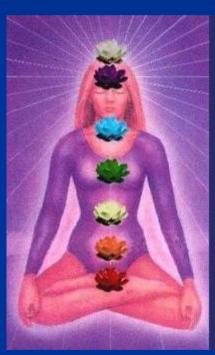
• The Creative Force or Pranashakti differentiates itself into seven subtle vibratory forces called "Chakras"



Chakras or "Wheels"

- Are junctional points where energy matter and consciousness come together in a very high concentration
- Related to the five elements as well as to an endocrine gland and control the functioning of various parts of the body.
- Various emotional memories stored in these centres...we "feel" certain past memories in different parts of our bodies

Chakras...



Shasrara: Union

Ajna: Command Center

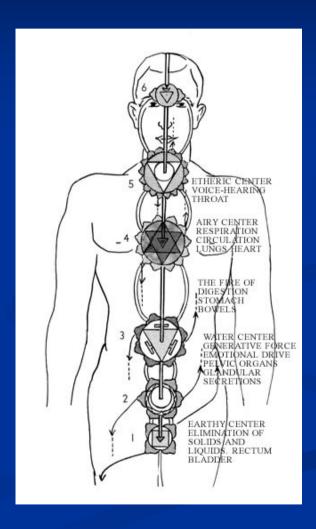
Vishudda: Great Purity

Anahata: Air

Manipuri: Fire

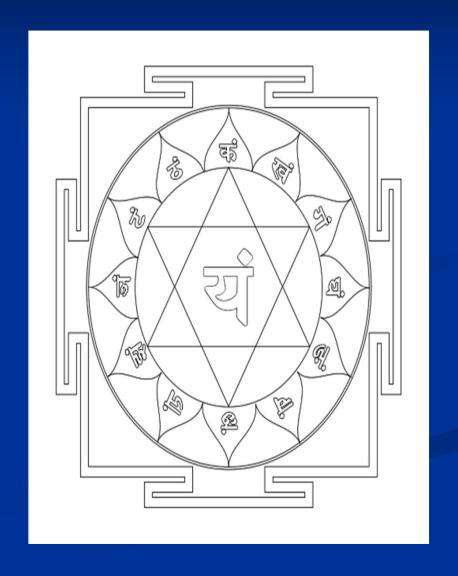
Svadhisthana: Water

Muladhara: Earth



Anahat or Heart Chakra...

- 12 Petals..bliss peace
 harmony love
 understanding empathy
 clarity purity unity
 compassion kindness
 forgiveness.. Loneliness,
 Depression..Imbalance
- Heart, Lungs Thymus
- Immunity...
- Heart disease occurs due to imbalance at this level



Our Behavior.....

Why do we behave the way we do?

We do so because of our habits (samskars), either of a previous birth or developed in this one, based on our "gunas"

Sankhya Philosophy of Creation

- Purush (Male)
- Awareness
- Sattva «
- Mind
- 5 Senses
- 5 Motor Organs
- Organic

Prakriti (Female)

Mahad Intelligence

Ahamkar Ego

Rajas

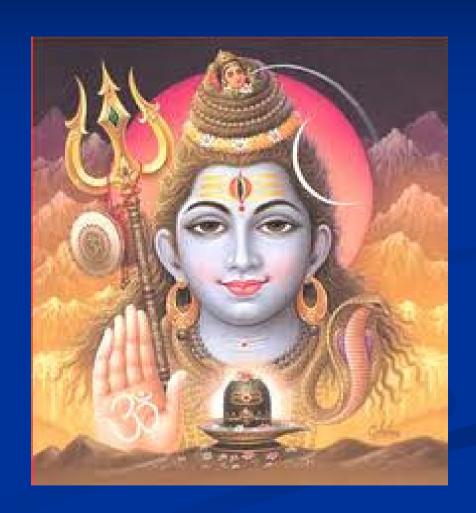
Tamas

Space Air Fire Water Earth

Inorganic

Gunas of Prakriti...

- Sattva...purityvirtue..Spiritual Eye
- Rajas...passion..wordly activities..Heart Centre
- Tamas...Inertia..pride...arrogance....Lumbar...Sacral....CoccygealCentres



Gunas of Prakriti....

Sattva...purity..virtue...Spiritual eye

Rajas...passion...wordly Heart Centre activities

■ Tamas...inertia...pride... arrogance...

Lumbar...Sacral...Coccy geal

Human body and the Universe

- Our bodies are holograms of the Universe
- Each part of a hologram contains the whole

The five elements...Tattvas...

- "Akash" or Ether
- "Vayu" or Air
- "Tejas" or Fire
- "Apas" or Water
- Prithvi" or Earth

- Human body/Nature interconnected
- "As is the atom so is the Universe
- As is the microcosm so is the macrocosm
- As is the human body so is the cosmic body
- As is the human mind so is the cosmic mind"

5 Elements...Tattvas...Doshas

- Vata Space/Air Catabolism
 Deterioration Related to Movement
- Pitta Fire Metabolism Digestion
 Absorption Metabolism/Transformation
- Kapha Earth/Water Anabolism Builds up the body
 Related to Structure
- They have a Seasonal/Diurnal/Age Variation...our Behaviour

Elements....Predisposition..When Imbalanced

Vata....anxious worried nervous tendency to
 Hypertension Irregular heart beat

Pitta...ambitious "Type A" aggressive overachiever...anger...stress

 Kapha…lazy tendency to gain weight and to development of Diabetes

Man is, therefore, a Creator

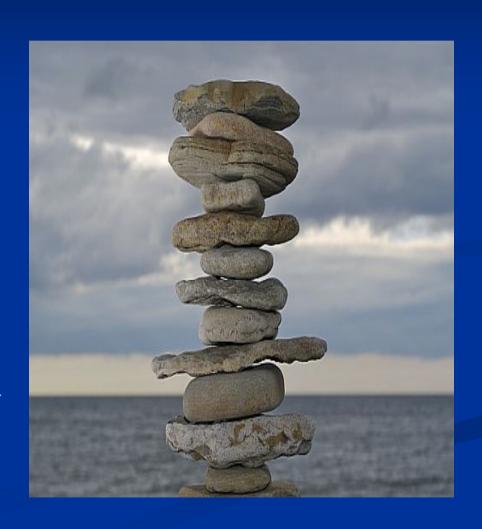






Balance is the Key!

- Balance of DharmaArtha Kama Moksha
- Between Self and Environment
- Between Mind Body andSpirit (Inner and Outer)
- Between the threeDoshas Vata Pitta Kapha
- Energy/Chakras
- Prakriti/Vikriti



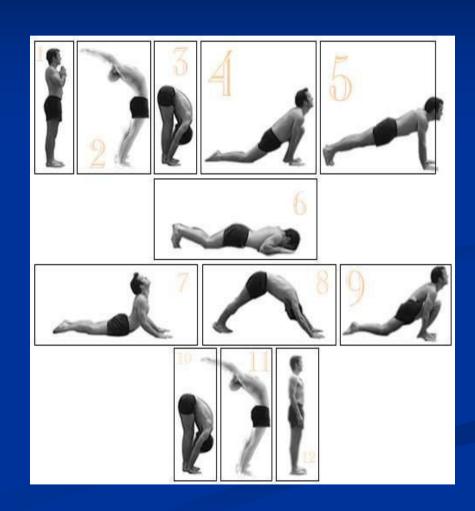
Balancing Energy...

- Best achieved by Yoga,
 which essentially means
 "Union with God" and
 good health is an
 important side advantage
- It has eight petals, including Asana,Pranayam, and Dhyan



Yoga....

- Yoga....Eight Principles
- Yama
- Niyama
- Asana
- Pranayama
- Pratyahara
- Dharana
- Dhayana
- Samadhi



Balance.....

Yama... self-restraint, moral conduct...non injury to others, truthfulness, non stealing ...

 Niyama...self-discipline, purity of body and mind, contentment, devotion to god/guru

Asana...right posture and physical exercises...keeps our body healthy

Balance..

- Pranayam...life force (prana) control...brings peace of mind
- Pratyahara...withdrawal of mind from sense objects
- Dharana...concentration
- Dhyana...meditation...develops our intuition and promotes unity with the Almighty
- Samadhi...Oneness with the cosmic spirit

Yoga....

Is Prophylactic, Promotive and Curative as it acts on all the five basic causes of disease...lack of exercise, dichotomy between mind and body, stress, pollution and infection..Dr



Yoga...

"This single comprehensive programme can reduce stress, increase flexibility, improve balance, promote strength, heighten cardiovascular conditioning, lower blood pressure, reduce weight, strengthen bones, prevent injuries, lift mood, improve immunity, increase oxygen supply, heighten sexual functioning, foster psychological equanimity, and promote spiritual well being" Dr McCall

Yoga...

Benefits Accumulate.....

First few weeks Relaxation Positivity

MonthsPosture Stress

Years Body Mind Spirit

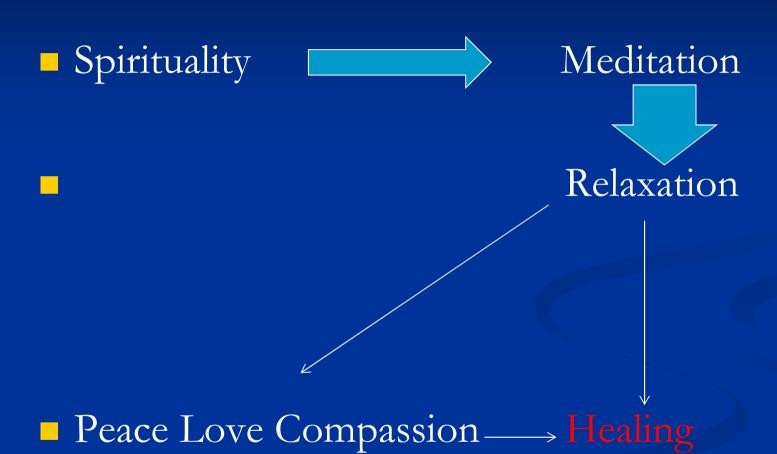
Yoga...

Is a full 'package' for body mind and spirit

■ Is a way of life and NOT an exercise

Increases awareness...type of food behaviour relationships insight feelings satiety...

Spirituality....How does it help?



Spirituality...

Spirituality.....comes in since it is virtually impossible to control our "conscious" thoughts

"The weight of published evidence overwhelmingly confirms that our spiritual life influences our health. This can no longer be ignored".... Jeff Levin "God, Faith and Health"

- A controlled Trial at the Yoga Institute in Santa Cruz, Mumbai, Assoc Physicians of India 2004 April;52:283-9
- Dr AS Mahajan and colleagues from AIIMS published their work in the Indian Heart Journal in 1999 Jan-Feb;51(1):37-40
- Regession of CAD has also been reported by Dr Selvamurthy and Dr Gupta

- "Life style Heart Trial"..Dean Ornish. Published in JAMA and Lancet 1983
- Asana Pranayam Visualisation Meditation
 Relaxation Low-Fat Vegetarian Diet Smoking
 Cessation Group support sessions Aerobic
 Exercise
- LDL levels dropped from average of 144 to 87 after one year of starting the programme

- = 91% Reduction in frequency of Angina and significant reduction in severity of attacks
- 5 Yrs later blocks had got smaller and PET scans showed that the heart muscle was receiving an increased supply of oxygen carrying blood
- Reversal of heart disease

Dean Ornish...Preventive Medicine Research Institute

- Changing lifestyle significantly increases
 Telomerase length Lancet Oncology 2008
- Lifestyle changes change genes after only 3 months 500 genes beneficially affected upregulated(turned on) disease preventing genes or downregulated(turned off) genes producing Cancer Heart disease Inflammation etc
 Proceedings of the National Academy of Sciences May 2008

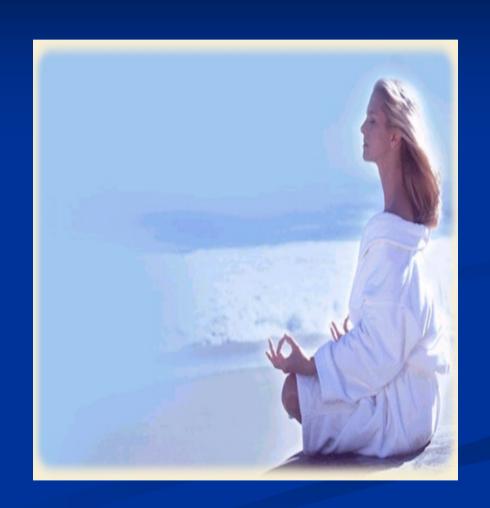
- "Yogic Lifestyle intervention retards progression and increases regression of coronary atherosclerosis in patients with severe coronary artery disease"... Manchanda SC et al J Assoc Physicians of India 2000 July; 48:687-94
- Regression of CAD also reported by Dr
 Selvamurthy and Dr Gupta

Pranayam...Scientific Facts..

Reduces Heart Rate

Reduces Systolic Blood
 Pressure

 Makes you more alert and relaxed at the same time...the ideal stage



Pranayam.....

• Pranayam helps us to reverse the flow of life energy...withdrawal from the external engagement of the mind and senses...peacefulness

• It facilitates the flow of the life energy from the spinal centers to the brain, thereby helping in connecting with our true spirit, the essence of the soul

Pranayam...Scientific Facts...

Reduces Heart Rate

Reduces systolic Blood pressure

Makes you more alert and relaxed at the same time...the ideal state



Meditation.....

"May well be the single most effective means you have available to affect your health and happiness"

"It appears that all the physical and mental benefits of Meditation actually derive from its spiritual effects....."Dr Levy

Meditation...Medical Benefits...

- Lowers/Normalizes Blood pressure, and pulse rate
- Reduces levels of stress hormones in the blood
- Reduces brain excitability
- Reduces the over-competitive Type A behavior leading to reduction in heart attacks -Dr.

 Siegal...Yoganand Paramhans
- Improves Circulation, Reduces plaques in arteries

Meditation....

- Recovery from diseases
- Positive impact on physical health
- Reduces fear, anxiety, depression, increases mental clarity, optimism, peace, love
- Develops harmony with nature, intuition, proximity with self



Meditation...

EEG studies have demonstrated that the silent repetition of "Aum" causes brain waves to become very relaxed and smooth out while increasing mental clarity – Dr. Rick Levy



Meditation.....

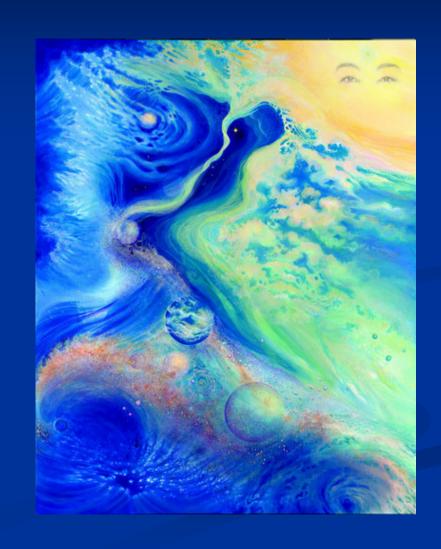
- Studies carried out at Emory
 University(Cognitive Based Compassion
 Training) have revealed that levels of IL
 6(Interleukin) and Cortisol levels decreased after
 six weeks of Compassion Meditation and
 improved further with prolonged
 meditation...Dr Lobsang Tenzing Negi
- Meditation, therefore, is helpful in reducing Stress

Meditation...

- Change in brain waves...less Beta which is the thinking and stress related wave....increase in Alpha Theta and Gamma waves which are the relaxation and meditation waves
- "Allows long buried thoughts and feelings to surface...is a way of getting the peptides flowing again relieving the body and emotions to heal" Dr Candis Pert

Meditation...Spiritual Benefits..

Brings you closer to the Divine...to ultimately merge with Him



CAD

Prevention is the best form of treatment!

Prevention...Diet





Diet...

- Whole foods..whole grains... fresh fruits vegetables nuts seeds beans fresh dairy
- Food should come from the earth
- Avoid processed and preserved food
- Fish helpful

- Fat free milk curd paneer
- No Tobacco
- Less salt/sugar
- No ghee/butter
- Pref Oils..Canola/Olive ?Saffola/Sunflower Mustard/Soyabean?
- No Red meat
- Alcohol?

Diet...

Inflammation reducing....

Fruits and Vegetables

Inflammation increasing....

- Saturated fats
- Trans fatty acids
- RefinedCarbohydrates

Exercise...

- Eat high quality food and digest it properly...exercise
- Aerobic exercise like walking swimming cycling increases blood flow in the body and helps in washing off the debris accumulating in the coronary arteries...reduces inflammation
- Kindles the digestive fire and helps burn up toxins in the body and conditions heart muscles

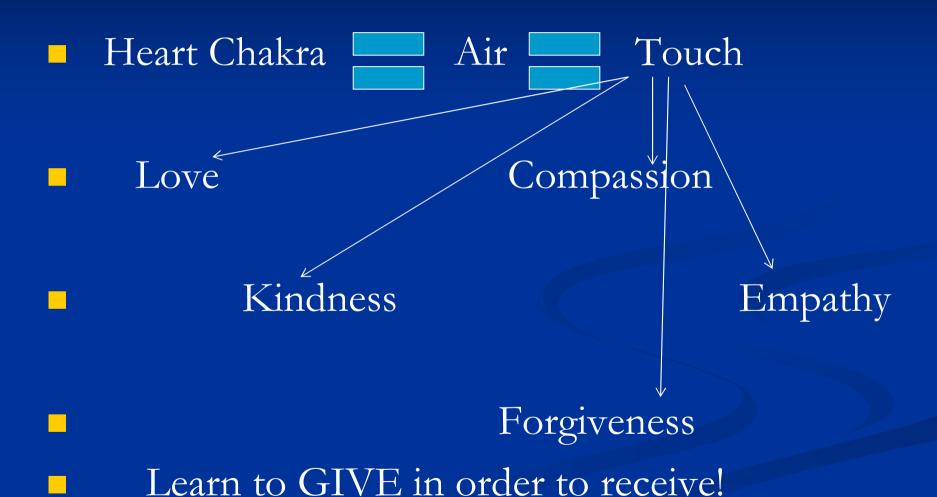
Caution...

- We need to remember that life style modifications will work only if the patient is well motivated and the motivation is coming from deep inside him otherwise insistence or scaring the patient acts as trigger for fear and may further aggravate the problem instead of helping!
- A lot of patience is needed.

Suggestions...

- Avoid Negativity be positive happy and compassionate forgiving..."giving is receiving'
- "Unconditional love is the most powerful stimulant of the immune system.. love heals"...Bernie Segal
- Find your unique path...what you have come to do...things only you can do best

Remember...



Conclusions...

All the above are best achievable by being spiritual...connecting to the supreme being by following the teachings of a God realized guru and by practicing Yoga and Meditation or Hypnotic Meditation leading to a state of perfect health, happiness and Bliss!

Suggestions...

- Let us learn to 'heal' the patient rather than' treat' his disease
- Get close to Nature...environment natural surroundings...natural foods..."natural" thoughts....of love compassion kindness empathy...see ourselves in others...learn to forgive...be happy and content...trust nature

Conclusion....

- Medicines and Invasive Interventions though excellent are winning the battle but not winning the war against heart disease!
- A balance between mind, body and spirit is needed.....a holistic approach, right diet, exercise, Stress Management role of spirituality, yoga, pranayam, meditation... address the story behind the story, thought process...negative emotions....

Spirituality...

Spirituality means to know who you are.

The original "you" is full of compassion kindness universal love empathy wisdom and free from any negative emotions...due to the spark of divinity in you!

Namaste....

