# CEREBROVASCULAR AND CARDIOVASCULAR DISEASE PREVENTION

PREVENTION

IS THE BEST

TREATMENT

Krystal Coffman, DNP, ACNP-BC NeuroScience Program Director Spring Valley Hospital

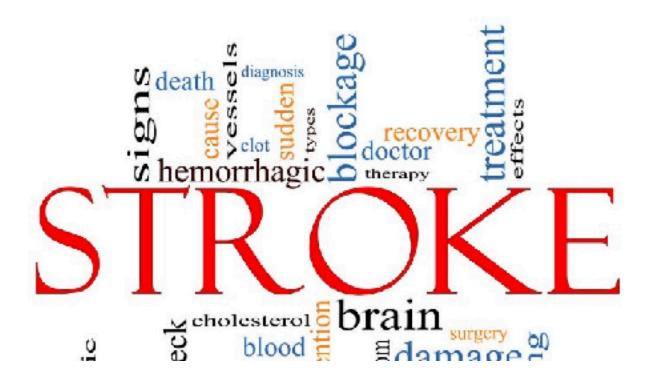


#### What is Heart Disease?

- Condition that affects the functioning of the heart and/or circulatory system
- Coronary artery disease
  - 16.5 million American adults
    - MI 7.9 million
    - Chest pain 8.7 million
- Heart Failure
  - □ 6.5 million
- Hypertension (high blood pressure)

#### What is a Stroke?

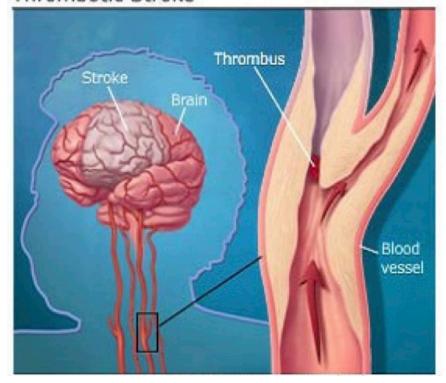
- Sudden death of brain cells in an area due to inadequate blood flow
  - Ischemic
  - Hemorrhagic
  - Lacunar
  - Cryptogenic



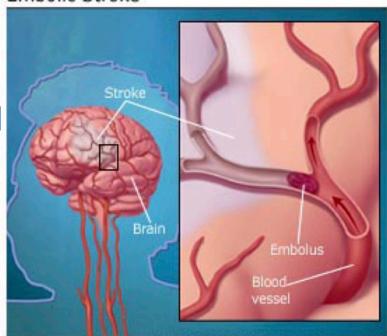
## Types of Stroke

- Ischemic (Clot)
  - Thrombotic
  - **Embolic**

#### Thrombotic Stroke



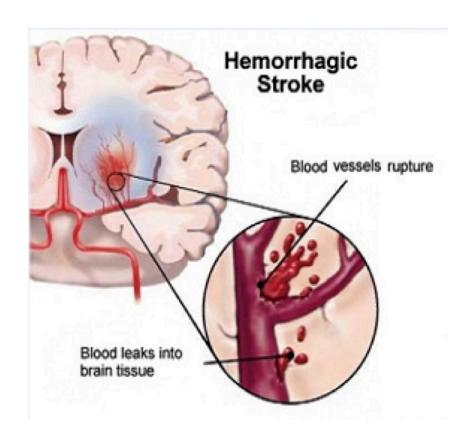
#### Embolic Stroke

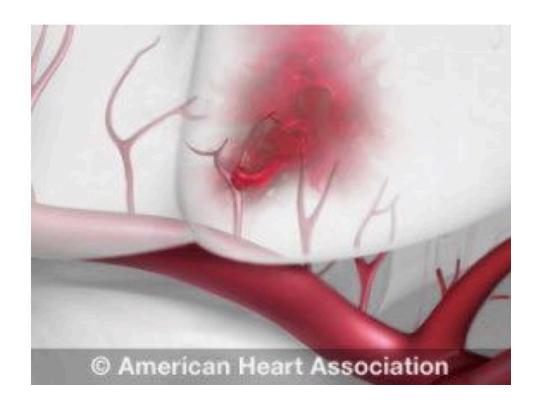




## Types of Stroke

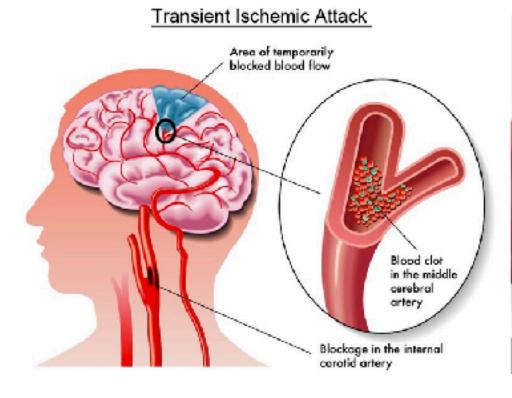
Hemorrhagic (bleed)





## Types of Stroke

- Transient Ischemic Attack (TIA)
  - Symptoms resolve completely
  - No damage on imaging





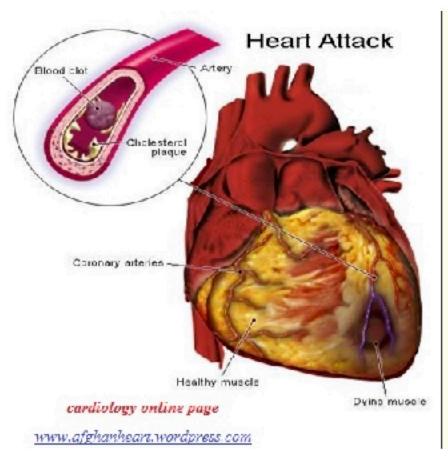
#### What is a Heart Attack?

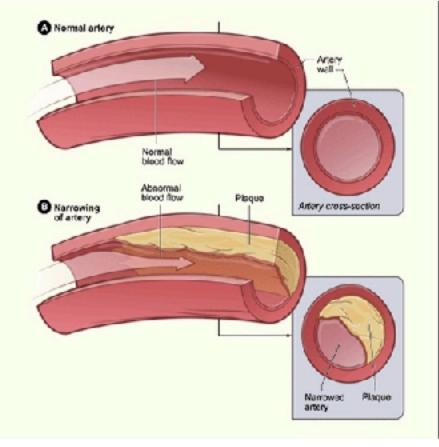
- Damage to heart cells in an area due to inadequate blood flow
- If there is no damage, this can be referred to as angina





### What is a Heart Attack?





## Why does it matter?



- Heart Disease is the #1 cause of death in the U.S.
  - 614,348 deaths in 2014
- Stroke is the 5<sup>th</sup> leading cause of death
  - About 795,000 Americans suffer stroke every year
    - 185,000 are recurrent strokes
    - Averages to 1 stroke every 40 seconds
  - □ 130,000 deaths per year
    - 1 in 20 deaths
- \$316.1 Billion spent on CV related costs and lost work per year
  - Expected to reach \$818 Billion per year by 2030
  - \$34 Billon dollars spent on stroke-related costs and lost work per year

## Why does it matter?

- 27.6 million American Adults with diagnosed heart disease
  - 11.5% of the population
  - Expected to be 43.9% by 2030

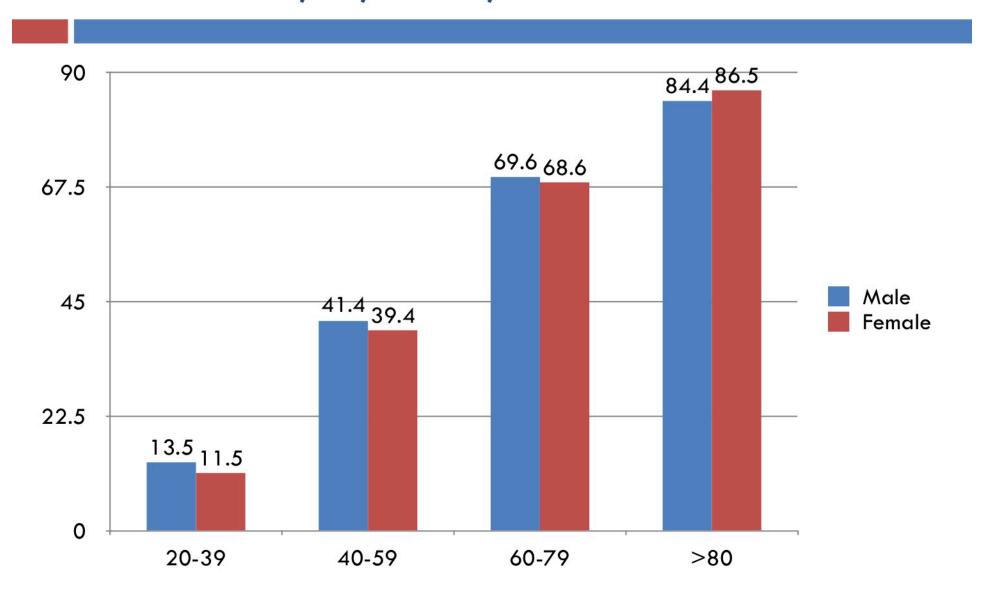


## Why does it matter?

- Stroke is the #1 leading cause of disability
  - Of stroke survivors over age 65
    - ½ of have hemiparesis
    - 30% need help to walk
    - 46% have cognitive deficits
    - 20% had trouble speaking
    - 35% have depression symptoms
    - ½ were in dependent in daily activities
    - ½ were in nursing facilities



# Prevalence of CV disease by age and gender, includes CAD, HF, Stroke, HTN

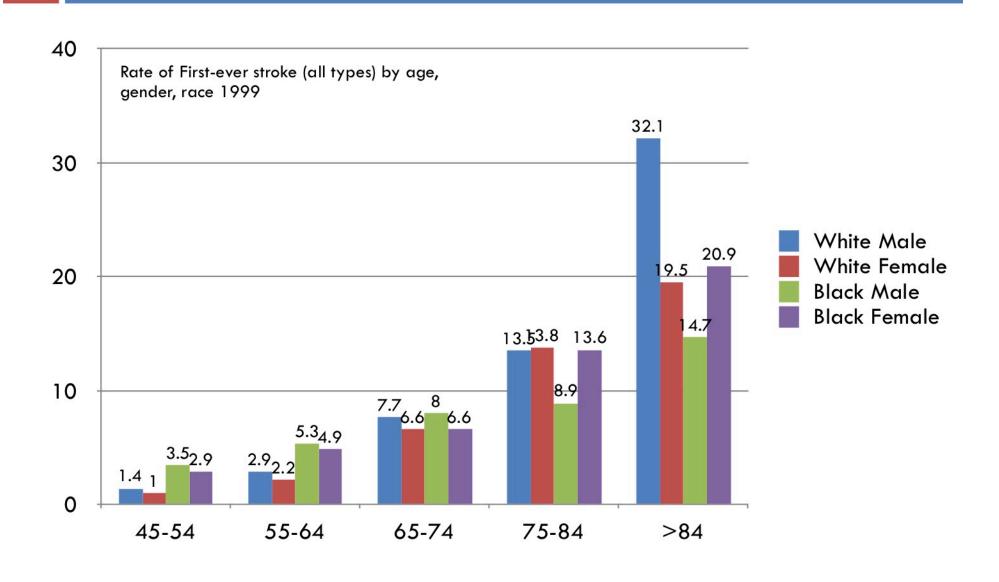


#### Stroke Risk Factors

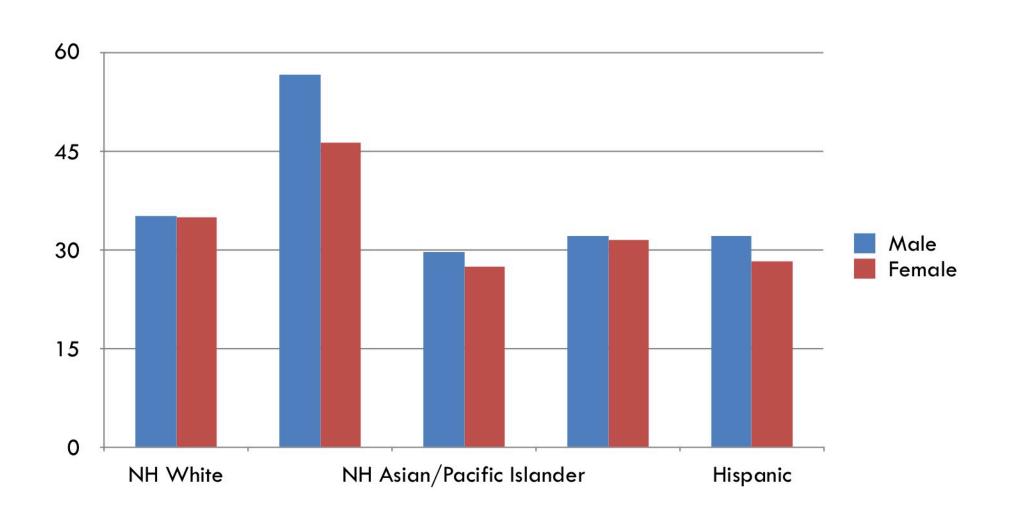
#### Non-Modifiable

- Gender
  - Men in each age group have more strokes
  - Women are more likely to die from their stroke
- Race
  - American Indians, Alaskan Natives, African-Americans have highest stroke rates
  - Non-hispanic whites and Asians have lowest
  - Hispanics fall between
  - AA more likely to die from their stroke
  - Hispanics have strokes at younger ages

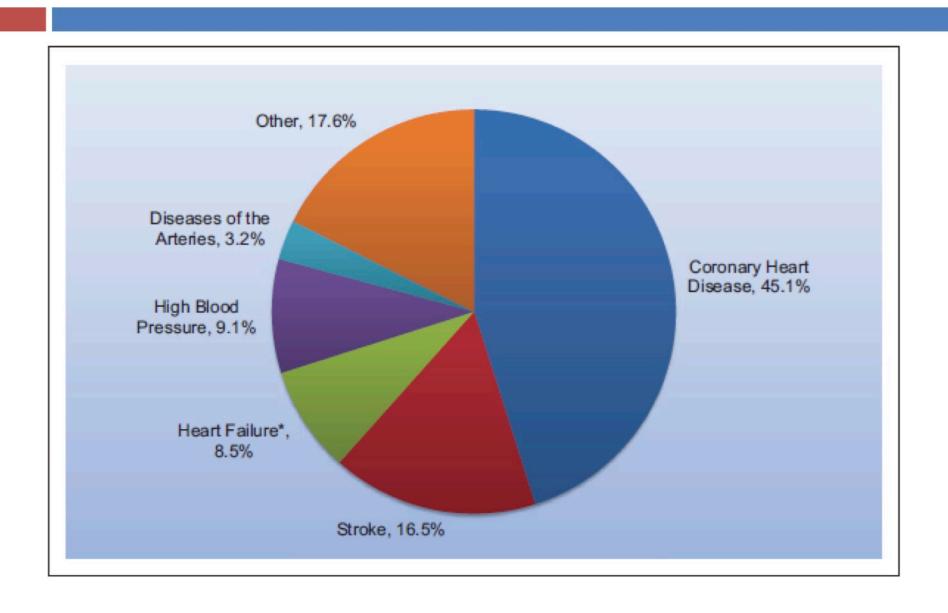
## Stroke Risk by Age, Race, Gender



# Age-adjusted Stroke Death rates by Gender, Race/Ethnicity 2014



### CV Deaths in 2014



#### **CV** Risk Factors

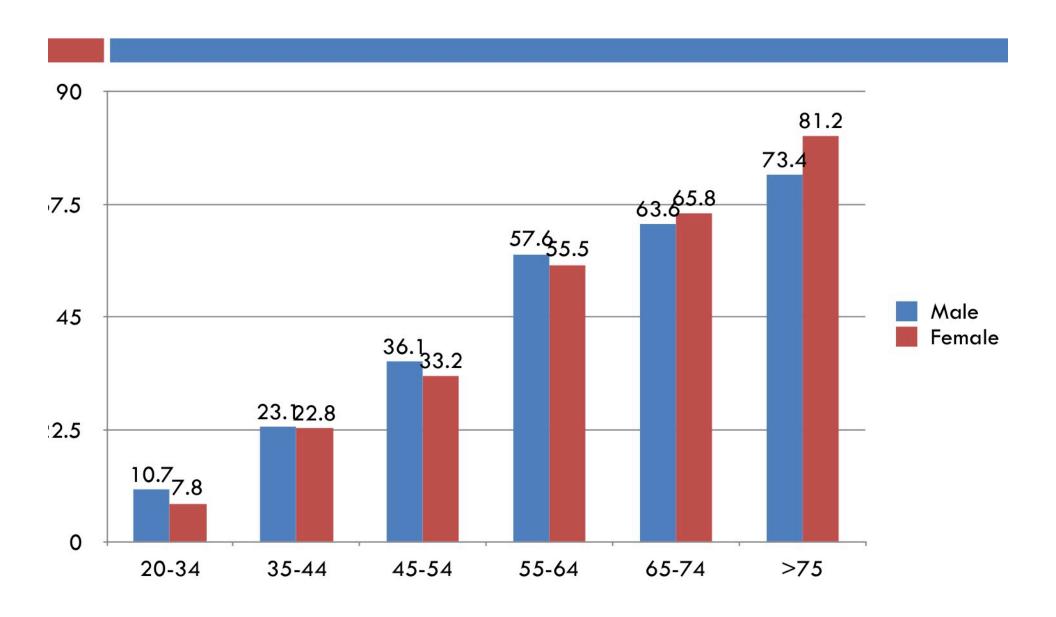
- 9 out of 10 people who die from CAD had at least 1 of the 3 major risk factors
- High blood pressure
- High Cholesterol
- Smoking

#### CV Risk Factors: Blood Pressure

- High Blood Pressure (SBP > 130, DBP > 90)
  - □ 85.7 million people
  - $^{\square}$  Only  $\frac{1}{2}$  of them are controlled
  - □ Good control cuts lifetime stroke risk in ½
    - Good control for stroke means <120/80</li>
- "Silent Killer"
  - Damages kidneys
  - Causes inflammation in small vessels in brain
  - Most common reason for Hemorrhagic Strokes

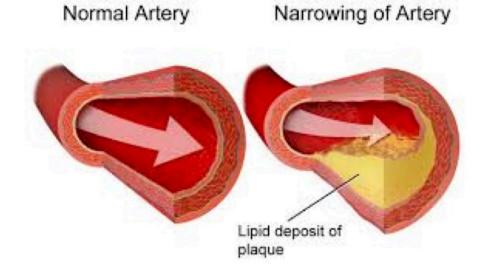


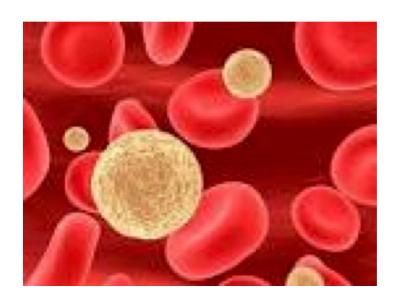
#### CV Risk Factors: Blood Pressure



#### CV Risk Factors: Cholesterol

- High cholesterol
  - □ 71 million Americans
  - $^{\text{m}}$  Only 1/3 are controlled





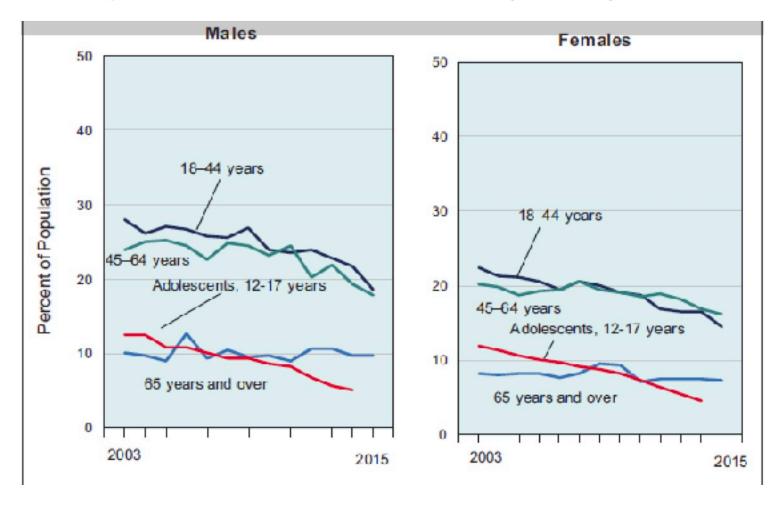


## CV Risk Factors: Smoking



#### Smoking/Tobacco

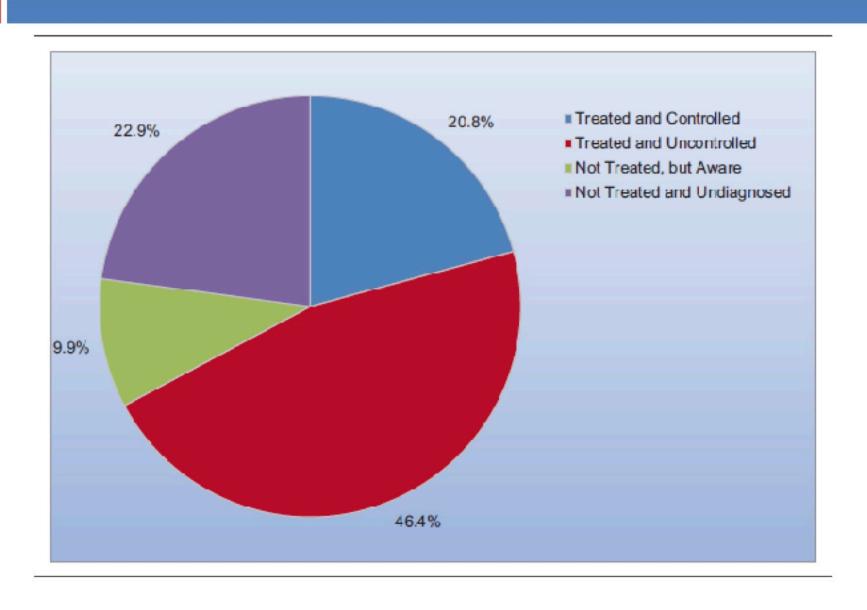
2 to 4x higher stroke risk than nonsmokers or quit >10 years



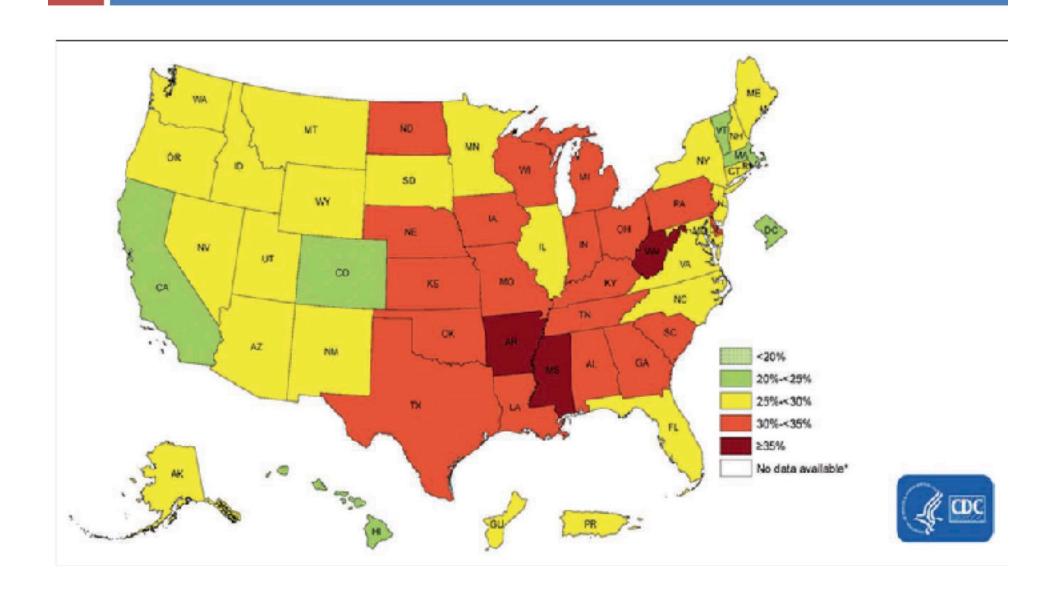
#### CV Risk Factors: Diabetes

- 29 million Americans
  - 9.3% of the population
  - Estimated 27.8% are undiagnosed (8.1 million)
  - 1.4 million Americans diagnosed every year
- 7th leading cause of death as of 2010
- Diabetes is independent risk factor for:
  - 1.5 times higher rate of Stroke (more ages >65)
  - 1.7 times higher rate of CVD death
  - 1.8 times higher rate of Heart Attack
  - 71% have high blood pressure
  - 65% have high cholesterol
  - Primary cause of kidney failure 44% of the time

#### CV Risk Factors: Diabetes



## CV Risk Factors: Obesity 2014



## Heart Attack Warning Signs

#### **Typical**

- Left sided chest pain or pressure
- Pain into left arm and/or jaw
- Shortness of breath
- Sweating
- Nausea/Vomiting

#### Atypical

- Pain/pressure may be in center of chest and/or back
- Vague chest discomfort
- Indigestion
- Fatigue

## Stroke Warning Signs

#### Acute Onset of:

- Numbness and/or weakness
  - Of the face, arm or leg
  - Especially on one side of the body
- Confusion
- Trouble speaking or understanding
- Trouble seeing in one or both eyes
- Trouble walking
- Dizziness
- Loss of balance or coordination
- Severe headache with no known cause
- Nausea or Vomiting



#### What can I do???

- See your doctor regularly and be a part of your own care
- Take your medications as instructed
- Know your numbers:
  - Blood pressure
  - Blood sugar
  - Cholesterol
- Be active

## What do you do?



- If you think you, or someone you know is having symptoms of a heart attack or stroke:
  - Call 911 immediately
  - Note the time the symptoms started
  - Gather your medications or med list
  - Come to the hospital with EMS, even if your symptoms have improved

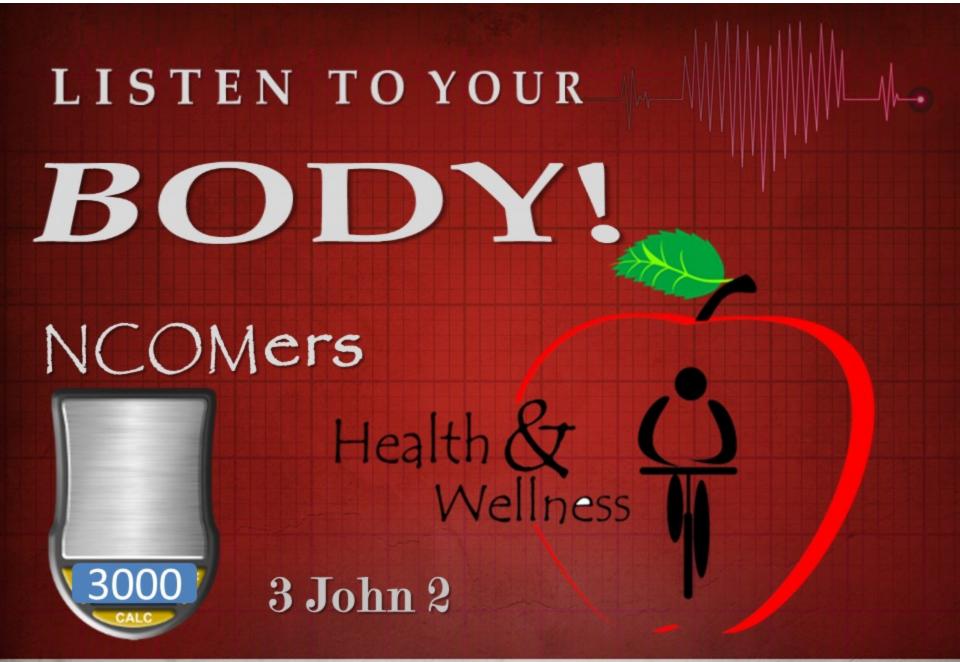
## Questions?







A Member of The Valley Health System"



Current Series w/Pastor D

# BODY! NCOMers Health & Wellness

Series OJB:
The "Theological"

Applications & Infrastructure
to "Health & Wholeness!"

## **NCOMERS COLLECTIVE WEIGHT: 28,544.9**



## "OBESITY" ... IN AMERICA!

- 35% Adults, 20/Up Obese!
- 33.35% Adults, 20/Up Overweight!
- 7 in 10 Adults Overweight & Obese!
- ▼ 18% Children, 6 11 Obese!
- → 18% Youth, 12 19 Obese!



LISTEN TO YOUR BODY

## HEALTH COMPLICATIONS... IN AMERICA

## Due to Obesity & Over-Weight:

- Type II Diabetes!
- Cardio Vascular Disease!
- Reduced Respiratory Function!
- Reduced Physical/Sexual Function!
- Reduced Quality of Life!
- 75% of All Monies Spent on Health

  Care; Due to Lifestyle Choices!

  Care; Due to Lifestyle Choices!

  Compared to Listen to Your Body!

  Compared to Listen to Your Body | Compared to Your Body

## "FITNESS" ... IN AMERICA!

- \$40 Billion Spent Annually!
- 40 Million Americans Purchase Fitness Membership Annually!
- 80% Americans DON'T USE Their Fitness Memberships!
  - \$20 Millions Dollars Wasted Annually



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Health &

## WHY IS AMERICA "OBESE!"...

































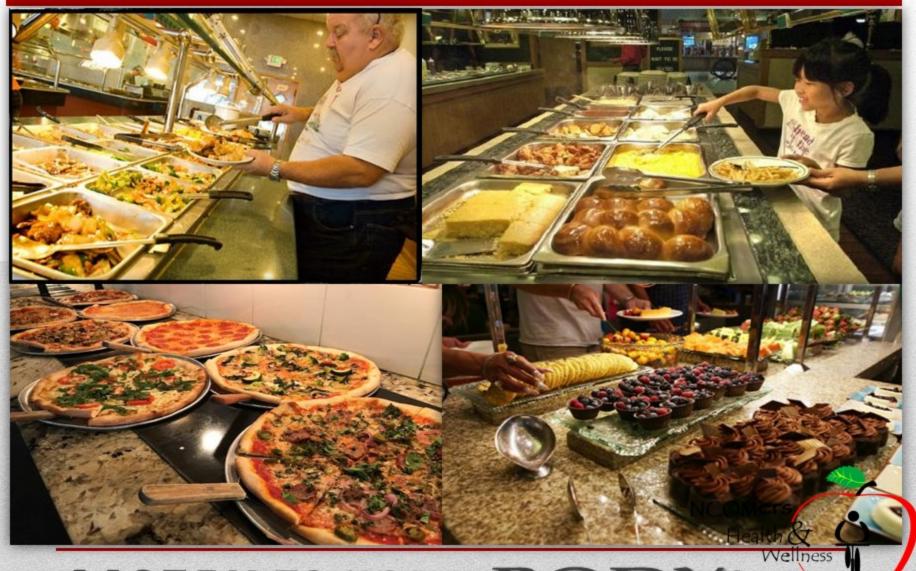


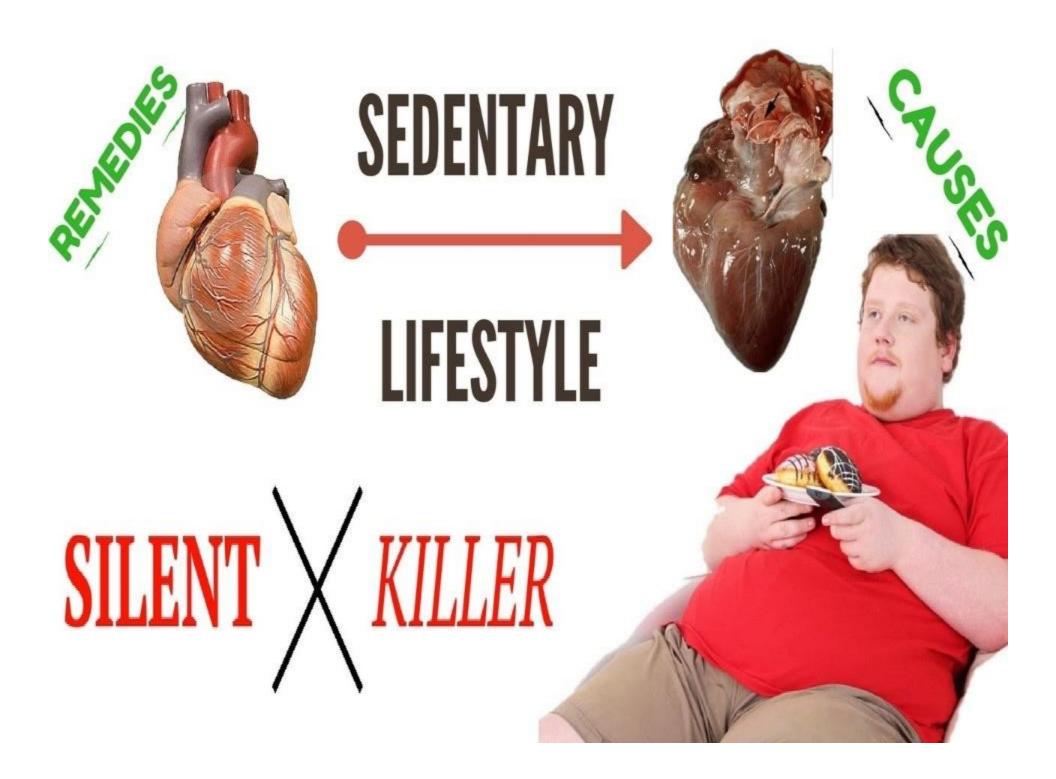




LISTEN TO YOUR BODY!

## WHY IS AMERICA "OBESE!"...





3 John 2

Beloved, I Pray Above all things that You May Prosper and be in Good Health as You Strong in Spirit!

Philippians 2: 13

For God is Working in You the Desire & Power to do What Pleases Him!



1 Corinthians 6: 19 - 20

Don't You Know - Your Body is the Temple (Sanctuary) of the Holy Spirit Who lives in You, Whom you Received as a Gift from God? You are Not Your Own, You were Bought with a Price! So then, Honor God - Bring Glory to Him in Your Body! **NCOMers** 

Health &

1 Corinthians 3: 16

"Don't You Know – You are God's
Temple (Sanctuary) and that God's Spirit

<u>Dwells</u> in You? If <u>Anyone Destroys</u>
God's Temple, God Will <u>Destroy</u> Him.
For God's Temple is Holy, and <u>You</u> Are
that Temple!"



1 Corinthians 6: 13

Food was Made for the Stomach and the Stomach for Food; God Will Destroy Them Both & Bring Them to Nothing!

Galatians 5: 12

You Were <u>Called</u> to Freedom; Only <u>Do</u>

Not <u>Use</u> Your Freedom as an <u>Opportunity</u>

for the Flesh!

1 Corinthians 6: 12

**Everything** is **Permissible** for me – but NOT Everything is Beneficial;

Everything is Permissible – but I Will

Not Be Mastered or Enslaved by Anything!



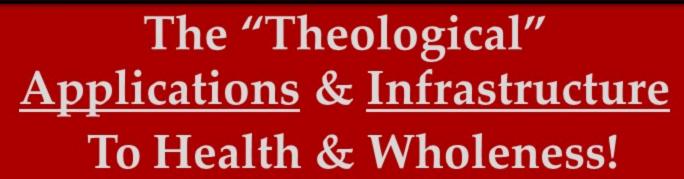
1 Timothy 4: 7

Discipline Yourself for the Purpose of Godliness!

Ecclesiastes 4: 9 - 10

Two People are Better Than one, Because They Can Get More Done by Working Together! If One Person Falls, the Other Can Help Him Up!

# "TEACHINGS"... THIS SERIES



- Genesis Man a "Well-Ordered System!"
- Desires (Appetites) Have Consequences Origin & Sin of "Gluttony!"
- Biblical Applications "Pre & Post-Fall Dietary Eating!" (Parts I & II)

Health 🗸

# "TEACHINGS"... THIS SERIES



The "Theological"

<u>Applications</u> & <u>Infrastructure</u>

To Health & Wholeness!

- Personal Pleasures & Indulgences Is the "Fruit of the Vine" a Strong Drink?
- He That Lives in Me "Kingdom FIT!"



### PREVIOUS TEACHING... WEEKI

- I. Genesis Man, Well-Ordered System!
  - a. Vertical Composition . . . Wholeness!
    - i. Three Parts Body, Soul & Spirit!
    - ii. Original Diet Plan Eat to Live/ Food for Health!
    - b. Then Came Death/Man's Horizontal

Health &

Composition . . . Wages of SIN &

**Thorns & Thistles!** 

## PREVIOUS TEACHING... WEEK III

- I. Desires (Appetites) Have Consequences!
  - a. The First Desire ... SIN of Gluttony!
    - i. Gluttony's Fruit Colors & Shades!
  - b. Desire & Gluttony . . . SIN Condition of the Heart; Are You Self-Indulgent?
  - c. Spiritual Answers to Gluttony . . .
    Second Adam, Jesus Christ; (4) Ways
    to Live Self Controlled!

Biblical Term . . . Gluttony

People Who Are <u>Over-Weight</u> or <u>Obese</u>... <u>Does Not Mean</u> They're <u>Gluttons of Food!</u>

A <u>100-Pound</u> Person Can be a Glutton & Unhealthy!



Gluttony is Anything that Takes the Primary and/or Preeminent Place of God in Your Life!

Philippians 3: 19

Their god is Their Belly (Appetite); Their Minds Set on Earthly Things! They Are Governed by Desires!

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Biblical Term . . . Gluttony
WORSHIP . . . Desires or Appetites
of Anything – That Competes for
or Takes the Place of God!

The Desire – Cravings for Food;
Person or Material Things!

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## COLORS & SHADES TO ... DESIRE

- SLAVE to FOOD Excessive Eating!
- SLAVE to LUST Man or Woman!
- SLAVE to THINGs Love of Money!
- SLAVE to ADDICTIONs King Solomon!

Desires Are Obsessive & Must be Made Subordinate to God; If You Cannot Control Your Appetites . . . If You Can't Say

Appetites . . . If You Can t Say

NO, You're a SLAVE! NCOMers

## TODAY'S TEACHING ... OBJ'S

Are You a <u>Slave</u> to Your <u>Desires?</u>
Pay <u>Close Attention</u> to Your <u>Desires!</u>
Your <u>Desires</u> (<u>Appetites</u>) Have a <u>Consequences!</u>

When You Become a Slave to Your Desires (Appetites) . . . Behavior Begets Outcome!

Biblical Term . . . Desire

Strongs H2530 - "Khä·mad"

Lust After; Covet; Want Greatly!

To Crave . . . Cravings

Intense Desire; to Yearn for

or Long for Greatly!



When You Desire Anything

(Food, Person or Material Things)
MORE Than You Desire God . . .
You've Become a <u>Slave</u> & a <u>Glutton!</u>

Mark 4: 19

Cares & Desires of the World Choke

Out the Word!

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Health & Choke

Biblical Term . . . Self-Indulgence Feeding & Fulfilling the WANTs of Desire (Flesh).

Matthew 23: 25

Woe to you, Scribes and Pharisees,

Hypocrites! You Clean the Outside of
the Cup & Plate, but the Inside is Full of
Greed & Self-Indulgence Comparison

1 Corinthians 6: 12

**Everything** is **Permissible** for me – but NOT Everything is Beneficial;

Everything is Permissible – but I Will

Not Be Mastered or Enslaved by Anything!



## SPIRITUAL ANSWER...GLUTTONY

## (4) Ways – Self Control

- ➤ Choose/Decide to be Self-Controlled!

  Self-Control is a Spiritual Discipline

  It's God Who Works in You (Phil 2: 13)
- You Have the Spirit of Self-Control! (Galatians 5: 23)



## SPIRITUAL ANSWER...GLUTTONY

- (4) Ways Self Control
- Discipline Yourself Spiritual Fasting!
  - Deepen DESIRE for God!
  - Spiritual Clarity Romans 12: 2
  - Strengthen; Help Overcome Struggles
     (Strongholds) (Isaiah 58: 6)



## SPIRITUAL ANSWER...GLUTTONY

(4) Ways – Self Control

- **™** Desire God Be Gluttonous for Jesus!
  - Desire the Word 1 Peter 2: 2
  - Draw Near to God James 4: 8
  - Put God First Matthew 6: 33
  - Be Actively <u>Dead</u> to <u>Sin</u> & <u>Alive</u> to Christ Jesus Romans 6: 11 NCOMERS Health &

## TODAY'S TEACHING ... WEEK IV

- I. Biblical Apps Pre & Post Fall Eating!
  - a. Man (Adam/Eve) ... PRE-Fall Diet!
    - i. Plant Foods Veggies, Fruits/Nuts!
    - ii. God Care-Taker of Health!
  - b. Effects of Sin ... POST-Fall Diet
    - i. Food, Cursed Enemy Origin of Meat!

Health &

ii. God's Dietary Restrictions - Israel's

Health & Separation!

## TODAY'S TEACHING ... OBJ'S

Does God Care About What You Eat?

Are Your Dietary (Eating Choices)
Slowly Destroying You?

You Are the Care-Taker of Your Body; Do You Understand, Everything You Consume Can Produce Life or Death!

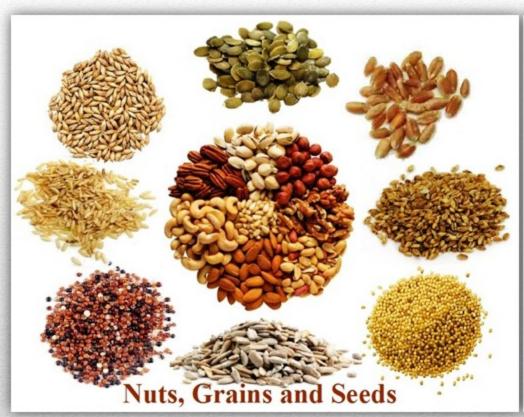
# GOD'S PRE-FALL DIET ... HEALTH



(Unprocessed) Genesis 1: 29 - 30 NCOMERS



# GOD'S PRE-FALL DIET ... HEALTH





(Unprocessed) Genesis 1: 29 - 30 NCOMERS



# GOD'S PRE-FALL DIET ... HEALTH Food for Thought!

- Veggies & Fruits Main Source of VITs, MINs, Anti-Inflams & Anti-Oxidants!
- Veggies & Fruits Contain the Most Detoxifying Chemical (Glucosinolates)



Health & C

## GOD'S PRE-FALL DIET ... HEALTH

Food for Thought!

Man Lived Longer!

- Adam 930 Years!
- Seth 912 Years!
- Enosh 905 Years!
- Methuselah 969 Years!



# GOD'S PRE-FALL DIET ... HEALTH Food for Thought!

- Vegetarians Lower Incidence of Heart Disease & Cancer!
- Vegetarians Under Age 65 . . . 45%
  Less Likely to Suffer Heart Attack!
- Men − Eat <u>Little</u> or <u>No</u> Meat, Showed Increased Longevity of Life
   Life
   No Meat, Showed

## GOD'S PRE-FALL DIET ... HEALTH

## Food for Thought!

Men - Eat Little or No Meat, Showed Increased Longevity of Life of 7.8 Years and 4.42 Years in Women!

#### Daniel 1:8

But Daniel Resolved that He Would Not Defile Himself with the King's Food, or with the Wine he Drank

Health &

# GOD'S PRE-FALL ... WARNING

Genesis 2: 17

"You Shall Surely Die!"

Wages of SIN

"Deterioration" Mind & Body That's Progressively Moving Towards Death!



## THE POST-FALL DIET ... DEATH

Genesis 9: 1 - 4

Origin - Meat in the Diet!

After the Flood . . . No Plant Life (Vegetation, Fruit & Herbs) Were Available!

**Noah's Instructions:** 

"Every Moving Thing That Lives Shall Be "Food" for You!" NCOMERS

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# THE POST-FALL DIET ... DEATH

# Wages of SIN!

Man Became Care-Taker - His Body!

- Food Choice Weapon of satan!
- Wrongful Desire (Gluttony) Born!
- Disease All Forms of Sickness!
- Foods & Meats Contaminated (Bad Fats;

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(Whites; Processed; Life Stage)



# THE POST-FALL DIET ... DEATH

# Wages of SIN!

- (3) Hormones Create Trouble:
- Insulin Responds to Sugars/Starch; Creates Fat/Craving for Sugar (Brain)!
- Ghrelin Produced in the Stomach; Bad Food Choices Causes Hunger to Increase!
- Cortisol Causes Hunger; Stores Belly, Fat & Loss of Muscle!

# THE POST-FALL DIET ... DEATH

# Wages of SIN!

Man's Life-Span Shorter!

- Abraham 175 Years!
- Sarah 127 Years!
- Isaac 180 Years!
- Jacob 147 Years!
- Moses 120 Years!



# THE POST-FALL DIET ... DEATH

Wages of SIN!

1,000 Years After Noah, God Gave Moses Dietary Restrictions (Clean & Unclean) for "Israel's" Health & Separation!

(Leviticus Chap's 3 & 11; Deuteronomy Chaps 12 & 14)

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# DIETARY PLAN ... 21<sup>ST</sup> CENTURY CHURCH Jesus & Grace!

1 Corinthians 8: 8

Food Will Not Bring us Closer (make us acceptable) to God. Refusing to Eat Does Not Make us Less Pleasing to God and Eating Does Not Make us Any Better in God's Sight!



# DIETARY PLAN ... 21<sup>ST</sup> CENTURY CHURCH Jesus & Grace!

Did Jesus Give the 21<sup>st</sup> Century Church Age . . . Restrictions from Eating Any Foods?

Did Jesus Present an Argument in the "NT" for Clean & Unclean Dietary Eating?

### GOD'S PRE-FALL DIET ... HEALTH

Food for Thought!

Why Do You Eat What
You Eat? Why Do You Eat the Way
You Eat?

Are Your Dietary Food Choices
Decided & Made According to
Knowledge & Wisdom?

Health 🗸

#### **TODAY'S TEACHING.. POWERPOINT**

We Identify & Label Our Bad Habits as ... "That's Just Way I Am!"

We Make Excuses for Bad Habits & Behaviors (Eating, Drinking, Dishonesty, Smoking or \_\_\_\_\_).

There's Nothing Going on in Your Life – You <u>Haven't Chosen</u> . . . "You Know

Exactly Who You Are!" NCOMers



#### NCOM HEALTH & WHOLENESS ... PRIORITIES

- "What" I Want to Accomplish . . . Weight Elimination (Pounds to lose)
- Know the "Why" . . . Why I Want/Need Physical Wholeness!
- "How" to Transform . . . Eliminate Poor Food Choices; Exercise & Work in Community!"

#### REASON'S - PHYSICAL WHOLENESS...

- Mandated by a Holy God!
- Witness/Testimony to the World?
- Too Many Members in the Body of Christ Are <u>Ignoring</u> their Health & Wholeness!



# RATE YOUR PHYSICAL WHOLENESS ...

- · ·
- Do You Know Your Cholesterol,
   Blood Pressure & Sugar Levels?
- Do You Get Annual Physical Exam?
- Do You Get Sufficient Sleep?
- Are You Overweight?
- Do You Exercise 3 X's a Week?



#### NCOM HEALTH & FITNESS TEAM...

- **№ Weekly Exercise Group (Sats @ 7:AM)!**
- NCOMers Weigh-in (Bi-Weekly)!
  - Pound Elimination Celebrations!
     (5, 10, 15, 20, & Up) "Club"
- Nutritional Meal Planning, Daily Devotions & Encouragement!

  facebook.com/groups/KingdomFitNCOM
  NCOMERS

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#### TEACHING "OBJ'S" ... THIS SERIES



Health &

What is the <u>Current State</u> of Your <u>Health</u>? Should You <u>Feel Better</u>? Are You LISTENING to Your BODY?

There's a Spiritual Path to Health & Wholeness ... You Cannot Break God's Disciplines w/o Consequences!

## TEACHING "OBJ'S" ... THIS SERIES



Over the Years, How Have You Changed Physically? Embrace the Importance of the Stewardship of Your Health, Diet & Exercise!

Know Your (5)!

Weight! Waist Size! Blood Sugar!

**Blood Pressure! Cholesterol!** 



Health &

#### TEACHING "OBJ'S" ... THIS SERIES



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Health &

Are You a <u>Slave</u> to Your <u>Stomach</u>?

Repent & Rededicate Your Body to

Christ in <u>Service</u> to <u>Him</u> & the

Ministry of the Church!

Identify & Eliminate Bad Eating & Health Habits! Lose the Weight w/New Habits & Choices!





What You
Eat Matters!

Our Appetites
Have
Consequences!







Everyone Wants to be Healthy but Few "Choose" to be Healthy!

Physical Health is the "Force" Behind Spiritual, Mental & Emotional Wholeness in Life!





Health &

Food is a Powerful Drug/Medicine to the Body; it Can Either be a <u>Force</u> of Healing & Strength . . . or Food Can be a <u>Force</u> to Destroy & Kill!

**Hebrews 11:25** 

There is Pleasure in SIN for a Short While!



What You "Think" Determines the Way You Feel ... What You Feel Determines the Way You Act – Your Choices!

Proverbs 4: 23

Be Careful What You "Think"
Because Your "Thoughts" Run
Your Life!

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God Uses <u>Failure</u> to Teach & Train You . . . Sanctification & Transformation Occurs in <u>Steps!</u>

"I Didn't Fail 1,000 Times – the Light Bulb Was an Invention with 1000 Steps!" – Thomas Edison

Don't Be Afraid to Fail!

