WOMEN AND STROKE

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OUTLINE

• INTRODUCTION

• WHAT IS STROKE?

•TYPES OF STROKE

• UNIQUE SYMPTOMS IN WOMEN

OWOMEN STROKE RISK

• SECONDARY PREVENTION

oSUMMARY

WHAT IS STROKE?

•Cerebrovascular disease (CVD) otherwise called stroke refers to damage of the brain as a result of blockage of an artery or bleeding from a ruptured artery in the brain. •The World Health Organisation defines stroke as a rapidly developing clinical signs of focal or global disturbances of cerebral function with symptoms lasting 24hours or longer

or leading to death with no other cause other than of

vascular origin.

•This definition includes Subarachnoid Haemorrhage but excludes Transient ischemic Attack, Subdural Haematoma and haemorrhage or infarction caused by infection or tumour.



Did you know.....

- 425,000 women suffer from stroke each year, 55,000 more than men.
- Only 27% of women could name more than 2 of the 6 primary stroke symptoms
- 7 out of 10 women said they are not aware they are more likely than men to have stroke and were not at all and only somewhat knowledgeable about risk factors
- African-american women suffer a higher number of strokes than caucasian women yet they are more less likely to correct identify what causes a stoke compared to caucasian women
- Stroke is a leading cause of death for hispanic women but they were significantly less aware of stroke symptoms than caucasian women.

LOCAL STATISTICS

- A three year study done in Nigeria at Central hospital ,Benin city from 2007 to 2010 showed thus:
 - Total number of men with stroke= 118
- Total number of women with stroke= 93
- Majority of the women had ischemic stroke with minority of them having hemorrhagic stroke and transcient ischemic attack.
- There was a high incidence of hemiparesis and hemiplegia with less of facial palsy











RISK FACTORS IDENTIFIED

Hypertension = 87 Diabetes = 11 Alcohol = 7 Smoking = 8 Obesity = 5 Previous stroke = 3 Retroviral disease = 1

mortality

number of deaths = 31

Unique symptoms in women

- Common stroke symptoms seen in both sexes :
- Sudden numbness n weakness of face,arm or leg
- Sudden confusion , trouble speaking or understanding
- Sudden trouble seeing in one or both eyes
- Sudden trouble walking , dizziness , loss of balance or coordination
- Sudden severe headache with no known cause

Unique symptoms in women contd

- Women may report unique symptoms :
- Sudden face n limb pain
- Sudden hiccups
- Sudden nausea
- Sudden general weakness
- Sudden chest pain
- Sudden shortness of breath
- Sudden palpitations

WOMEN STROKE RISK

- Some risk factors are same for both sexes :
- Family history of stroke
- High blood pressure
- High cholesterol
- Smoking
- Diabetes
- Obesity
- Sedentary lifestyle

Women stroke risk contd

- Other risks unique include:
- Birth control pills
- Pregnancy
- Use of hormone replacement therapy
- Havin a thick waist n high triglyceride level
- Migraine headache sufferer

CONTROLLABLE RISK FACTORS

High blood pressure Atrial fibrillation High cholesterol Diabetes Atherosclerosis Tobacco use n smoking Alcohol use **Physical inactivity** Obesity

Uncontrollable risk factors

- Age
- Gender
- Race
- Family history
- Previous stroke or TIA
 Fibromuscular dysplasia
- Patent foramen ovale

Risk factors contd

Controllable medical risk factors

- High blood pressure
- Atrial fibrillation
- High cholesterol
- Diabetes
- atherosclerosis

Controllable lifestyle risk factors

- Tobacco use and smoking
- Alcohol use
- Physical inactivity
- obesity
- Drug use (cocaine, amphetamine, heroin etc)

Risk Factor	High Risk	Caution	Low Risk	
Blood Pressure	>140/90			
	or	120-139/80-89	<120/80	
	I dont Know			
Cholesterol	>240	200-239	<200	
	or			
	l dont know			
Diabetes	Yes	Borderline	No	
Smoking	I still smoke	I'm trying to quit	l am a non-smoker	
Atrial Fabrillation	I have an irregular	l dont know	My heartbeat is not	
	heartbeat		irregular	
Diet	I am overweight	I am slightly	My weight is	
		overweight	healthy	
Exercise	I am a couch potato	I exercise sometime	I exercise regularly	
I have stroke in my	Yes	Not sure	No	
family				
Score (each box=1)				

GLOBAL MORTALITY 2000: Impact Of Hypertension, Smoking, Cholesterol And Diabetes



Observation Evidence That Increase In BP Is Associated With Stroke Prospective Observation Of Ones Million People And 12,000 Stroke Deaths At Ages 50-89 Continuous Log-linear Association Between SBP And Risk Of Stroke

Prospective studies collaboration, Lancet 2002;360:1903-13

FLOATING ABSOLUTE RISK AND 95%CI 256 128 64 HAZARD RATIC 32 16 8 4 2 1 180 120 140 160 USUAL SYSTOLIC BLOOD PRESSURE (mmHg)

 Age at risk
 ↑ risk for every

 20mmHg ↑ SBP

 80-89
 33%

 70-79
 50%

 60-69
 57%

 50-59
 42%

 (40-49
 64% ↑ risk)



Systolic blood pressure difference between randomised groups (mmHg)

ASPIRIN

•Among the various medical management aspirin has shown a well established role in secondary stroke prevention.

•The rationale for its use lies in the ability to interfere with the formation a platelet fibrin thrombi.

•Although the value for its use of such therapy remains

controversial due to its adverse drug reaction.

• Aspirin frequently causes gastrointestinal side effect.

• Relative risk reduction of stroke, myocardial infarction

or vascular death is 13 - 14%, absolute risk reduction

1% (11 strides)

•No dose efficacy relationship between doses of aspirin

50mg to 1600mg

- Severe bleeding complications are dose-dependent
- GI side effects are dose dependent

SUMMARY

•The risk of recurrent stroke and other major vascular

events can be reduced effectively by:

✓ Sustained blood pressure lowering

 \Box 10mmHg systolic reduction \rightarrow 40% RRR

✓ Sustained blood cholesterol lowering

 \Box 1mmol/l (39mg/dl) LDL-C reduction \rightarrow 20%RRR

And possibly also reduced by:

✓ Optimal control of blood glucose among diabetics

 $\Box 0.9\% \text{HbA}_{\text{ic}} \text{ reduction} \rightarrow \text{RRR: 7\% (-6\% to 19\%)}$

✓ Smoking cessation

✓ ↑ physical activity (\geq 30min/day) & \downarrow body weight (BMI)

<25kg/m²)

✓ ↑ salt and alcohol, \downarrow dietary fruit and vegetables, and folic acid

THANK YOU