GERIATRIC CHALLENGES - TACKLING WITH INNOVATIVE MEASURES

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Abstract:

Ageing is a natural process. India has 77 million elderly people and is expected to have 177 million by 2025. By the year 2050, one fifth of total population will be graying. Ninety percent of the elderly are from unorganized sector with no social security. Over 73 percent of 60 plus are illiterate and dependent on physical labour. Forty percent people live below the povertyline. Recent studies have shown that 89.62 percent of elderly population has multiple morbidities. The leading symptoms or group of symptoms in both males and females pertain to visual impairment / diminished vision (65% & 56.2% respectively). Other problems include heart diseases, respiratory diseases, joints pains, hearing problems etc. Many innovative experimental studies have been done to reverse the biochemical and pathological changes that occur during ageing by using chemicals and drugs. In various studies it has

been established that the use of Ca² (+) antagonists leads to reversal of atherosclerotic process, similarly 2 - mercapto propionly glycine (MPG) and oxidized MPG improve heart functioning. Centrophenoxine considered as an ageing reversal drug is regarded as neuroenergeticum in human therapy. Ginkgo biloba extract can improve the cerebral function. Topically applied all-trans retionic acid can repair and probably prevent photo ageing.

Geriatric Challenges- Tackling with Innovative Measures Ageing is a natural process. In the words of Seneca: old age is an incurable disease. Old age should be regarded as a normal, inevitable biological phenomenon. Currently there are over 580 million persons aged 60 years and above in the world, which is estimated to reach a figure of over one billion by the year 2020. Over 700 million will be living in the developing countries. India has 77 million by elderly and is expected to have 177 million by

2025. By the year 2050, one fifth of the total population will be graying. That means the number of aged persons will grow to the size of India's population at the time of independence.3 Ninety percent of the elderly are from the unorganized sector with no social security. Over 73 percent of the 60 - plus are illiterate and dependent on physical labour. Forty percent persons live below the poverty line. A sizable number of the elderly people suffer from physical, mental and social problems. Recent studies have shown that 89.62 percent of elderly populations have multiple morbidities. The leading symptoms or group of symtoms in both males and females pertain to visual impairment/ diminished vision (65% & 56.2% respectively). Other problems include heart disease, respiratory disease, locomotors disabilities, hearing problem, skin disease, neurological disease etc4. Prevalence of mental morbidity among the population aged 60 years and above was estimated to be 89 per 1000 population. Affective disorders in later age, particularly depression and dementia, form the mental morbidity5. Irrespective of all these, there is a major challenge to develop innovative ways of tackling special health and social problems and to improve quality of life so called Healthy ageing. Many innovative experimental studies have been done to reverse the biochemical and

pathological changes that occur during ageing by using chemicals and drugs. The basic changes occur in ageing are atherosclerotic changes, mitochondrial dysfunction leading to deteriorated heart function, decreased activity of acetyl cholinesterase enzyme & decreased cerebral 5-HTIA receptors (5-hydroxy-tryptamine IA). This has been experimentally proved that these changes can be reversed. It has been established that the use of Ca2 (+) antagonists leads to reversal of atherosclerotic process.6 2mercapto propionyl glycine (MPG) and oxidize MPG partly reverse mitochondrial uncoupling and improve deteriorated heart function.7 Centro phenoxine, causes reversal of the age related decline of cholinergic system8. Ginkgo biloba extract reverses the decreased cerebral 5hydroxytramine IA (5-HT IA) receptors during ageing9.

Living longer offers unpredicted opportunities for personally and social fulfilling lives, but it also presents individual and social challenges related to quality of life in old age including indipendence., social interaction, health care and community envolvement to respond to these challenges we must develop sound and affordable policies that perceive ageing as a natural process, which continues throughout the life span. so the great challenge

for geriatric population is to rehabilitate. The important thrust is to create old age homes, day care centres, mobile medical units. Travel relaated and Income Tax concession must be available to the elderly citizens. Elderly people are a reservoir of experience. Let us give them love, care, respect and attention.

Dr. Horlem Brundtland (former President, W.H.O.) correctly said that twentieth century was a century of 'Survival'. but the greatest challenge of the 21st Century will be to improve quality of life. Health is the most imprtant prerequisite for people to enjoy life especially in their older years.

Percentage of elderly reporting various ailments

Ailment	Reported%
Visual impairement/complaint	88.0
Locomotive disorder, joints, muscles	40.0
Neurological complaints	18.7
Cardiovascular disease	17.4
Respiratory disorder	16.1
Skin conditions	13.3
Gastro intestinal/abdominal disorder	9.0
Psychiatric problem	8.5
Hearing loss	8.2
Genitourinary disorder	3.5

Source: VAHI (1997)10

Distribution of elderly as per diagnostic Group

Systems	Reported%
Eye	70
HTN	48
Psychosocial problems	42
Resp	36
Musculo skeletal	14.6
Nervous system	8.67
Ear	8.0
GIT	4.7
Endocrine	3.33
Genitourinary	2
Skin	0.66
Hernia	0.66

Source: Prakash R.et. al;(2004)11

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