SYMPTOMS, SIDE-EFFECTS AND SENILITY
(OR, THE HEALTH PROFESSIONAL AS A CAUSE OF DEPENDENCY IN OLD AGE)

SUMMARY

Many elderly people develop a multiplicity of physical and psychological problems in association with advancing age. It has become possible for the health professions to do a great deal to limit the extent of disability and improve the symptomatology, thus improving quality of life. Massive advances have taken place in the field of pharmacology and therapeutics. Many of the medicines utilised have untoward side-effects in the elderly; side-effects which are frequently not recognised timeously. A few of the side-effects are discussed in some detail and pleas are made for the judicious application of therapeutic schedules to problems in the elderly, recognising the dangers inherent in multiple prescribing.

With the industrialised Western society reaching the pinnacle of its development and influence, it has become possible for an increasing proportion of the population to achieve and exceed the biblical allocation of three-score years and ten. Many industrialised countries are approaching a situation where one in every five of its citizens can be classified as elderly.

A well-recognised sight in most towns in South Africa has become the elderly pensioner happily pursuing his interests, meeting up with his friends and peers with enough time to do the things that he has always wanted to do.

The health care professions find that an increasing proportion of their work-load is concerned with the care of elderly people. Nurses, physiotherapists, occupational therapists and social workers are able to do a great deal to maintain the elderly as active, independent members of the community.

Similarly, doctors and pharmacists fulfil a vastly important role in the maintenance of health of the elderly person. They are in a position to materially affect the outcome of many of the disabling and life-threatening diseases to which elderly people show an increased susceptibility.

In earlier times some of the main diseases which afflicted the elderly included congestive cardiac failure, angina pectoris, obstructive lung disease and a variety of psychological and neurological syndromes ranging from depression to Parkinson’s disease.

In addition to these clearly defined entities, there are a few physiological phenomena which appear to be altered in the elderly. These include a tendency to sleep less, to have fewer bowel actions and to be generally physically slower than their more youthful counterparts.

These alterations in function go hand-in-hand with marked changes in metabolic function in a variety of organ systems. For example, the creatinine clearance falls, the digestive system operates less efficiently, leading to a tendency to malabsorption of essential nutrients, and the erythrocyte sedimentation rate rises, to name but a few.

CLINICAL THERAPEUTIC IMPLICATIONS

Improved diagnostic and therapeutic skills and facilities result in better control of most of the common afflictions of the elderly. Modern advances in pharmacology and therapeutics permit the achievement of a marked degree of symptomatic relief for most of the otherwise disabling chronic diseases of advancing age. Some problems do emerge however.

Altered Dose-response

With the advent of modern therapies for, for example: congestive cardiac failure and ischaemic heart disease, crippling dyspnoea, swelling and angina pectoris are totally relieved, resulting in a vast improvement in quality of life. What is frequently not appreciated, however, is the fact that all these modern medicines are associated with the development of significant disabling side-effects, especially in the elderly. The patient with ischaemic heart disease may receive Propranolol for his angina pectoris, which improves that symptom, but results in severe bronchospasm and cardiac failure, not to mention serious depression and a degree of mental confusion. In a younger person with a similar problem the same dose of drug would produce no side-effects, but, because of altered pharmacokinetics in the elderly, this drug becomes problematical at an otherwise normal dose.

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Untoward Effects

Another phenomenon frequently encountered in an elderly patient relates to the manifestation of unusual symptoms relating to the drug. Digitalis preparations used in normal dosage in the elderly are not infrequently associated with mental change, leading to the development of depression, confusion, manic behaviour and the diagnosis of senility. Sedatives and hypnotics, like diazepam, may result in confusion, loss of memory and, again, a diagnosis of senile dementia.

Polypharmacy

The natural history of advancing age represents a progressive reduction in function of all organ-systems. It is therefore logical that many elderly people will present with a multiplicity of complaints and have more than one clinical diagnosis. It is common, e.g. for diabetes mellitus to co-exist in the elderly with an infection, ischaemic heart disease, a degree of renal decompensation and peripheral neuritis. Each modality produces symptoms and requires treatment in its own right. Research has shown that the risk of side effects rises exponentially when multiple prescriptions are utilized in younger individuals (Bourne, Heddon and Watermeyer, 1979). In the elderly this risk is even greater.

In a study carried out in a psychogeriatric unit (Watermeyer, 1979) it was shown that in fully one-third of elderly people admitted with a mixture of psychiatric and physical health problems, the precipitating factor responsible for the admission related to side-effects from one or more drugs utilized, often for doubtful indications. Drug withdrawal under supervision and the restitution of fluid and electrolyte balance resulted in symptomatic improvement in 68 percent of patients.

WHAT DOES IT ALL MEAN?

As a health professional, one is regularly reminded of the importance of viewing disease as a disturbance, not just of physical function, but also as a disruption of psychological and social planes of existence. It appears nowadays that we may indeed cause physical, psychological and social dysfunction by our very attempts to alleviate the symptoms which have brought a patient to us in the first place. It behoves us therefore to remember another ancient dictum when we deal with septuagenarians, octogenarians and suchlike — namely primum non nocere — if we can't do any good, let us at least do no harm.

Modern medical science permits us to do both harm and good for those under our care. It behoves all of us to consider side-effects as well as benefits of treatment schedules to achieve maximum improvement in quality of life.

References:

THE OLDER ADULT — HIS CONTRIBUTION TO THE COMMUNITY OF SOUTH AFRICA

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SUMMARY

Growing old involves biological, emotional and social changes. Life roles change, but will depend on personal life patterns of work and activity, relationships and attitude. There is a loss in activities requiring speed, but a gain in those requiring carefulness, thoroughness and the use of previous experience. Retirement usually results in adjusting to a low, fixed income. Accumulated skills, knowledge, judgement, wisdom and perspective are lost, yet productivity and creativity can be utilised if the older person is allowed to pursue a career pattern suitable to his needs.

INTRODUCTION

Growing old can be a critical experience because it involves biological, emotional and social changes. It has been stated that old age begins at that point in an individual's life when he ceases to perform all those duties and enjoy all those rights which were his during mature adulthood; when he begins to take over a new system of rights and duties.

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