Pattern (above, left) shows paroxismal atrial fibrillation in an 87-year-old woman. ST elevations and inverted T waves could be interpreted as invocardial ischemia ser-

ondary to the arrhythmia or, as confirmed by subsequent tracings (above, right) and enzyme determinations, to an acute anterior wall myocardial infarction.

A - For ventricular extrasystoles or ventricular tachycardia

A – For ventricular extrasystoles or ventricular tich verdias, procainamide can be given or ally or intramuscularly, or lidocinie intraversously. Again, the dosesshould be relatively low. Excessive lidocinie or procainamide that be responsible to isome of the acute confusion older people exhibit in the CCU.

If ventricular tachycardid or fibriffiction develops despate these measures emergency-treatment—such as direct current countershock—can be most effective. In the avent of paroxysmal ventricular tachycardia, electrical pacentaling may be the best means of control when pharmicologic methods fail. Digitalis is also Indicated for some attrial arrhythmas, porticularly if the patient is in heart failure.

Q - How do you manage congestive heart failure in the older patient?

A - Early signs and symptoms of congestive hears tailing should be sought at each bedside visit, and therapy should be individualized and adjusted to the severity of the failure.

O - Is sodium restriction helpful?

Q — Is sodium restriction negatiff.

A —A ther that limits sodium to I gram or less will be beneficial to more elderly patients with mane MI. Sait restriction and dirrefts should be started at the onest of parimeters, congestion. So long as the digress is has too rapid and electrolyte imbalance is avoided, the elderly patient usually responds well.

Q - If these measures fail, would you proceed to digitalize the patient?

proceed to digitalize the patient?

A – Digitalization may incleed be helpful in treating congestive heart failure in the elderly. Their greater sensitivity to digitalis may dictate smaller doses, preferably orally, or penhaps miramuscularly, as well as observing the patient carefully for signs of toxicity. In patients with acute MI, it is best to avoid the IV route and to wait for 24 to 48 höurs if possible. Otherwise, rapid administration of large doses of digitalis should be avoided, since this may proveke the onset of pulmonary defina and lead to digitali toxicity and archythmias much earlier than in younger patients. It is possible to give half of an average digitalizing dose to an elderly patient and still

obtain some useful morropic effect

$\mathbf{Q} - \mathbf{How}$ do you treat shock in these patients. Dr. Harris?

tents. Dr. Harris?

A. In much the same way as in younger ones. Unfortunately the prognosis for the older patient with MI and shock is particularly poor. Devices intended to assist the circulation may improve the outlook for younger patients, but are of less value in helping the geriatric patient with acute MI.

Q - What is your usual practice with regard to anticongulants?

A—Ordinarily, I don't give anticoagulants to older MI patients who are otherwise good risks, unless they are already on anticoagulant therapy or if they have a history of pulmonary embolic phenomena or thrombophlebitis. Even in this second group, I prefer to ambilate the patients and prevent the complications that way.

Q — You mentioned ambulating your patients. Can this usually be done?

A I don't believe the older patient has to to be manooned in bed, especially following a small myocardial infarction. He can sit in his chair or wilk around the room. This is important not only to rethree the tisk of thromboembolism; older people have so much associated disease—arthritis or weakened lungs, for example—that when the physician confines them to bed, they deteriorate quickly.

Q — Do associated diseases change your entment of the myocardial infarction? A — Oh, yes. The real problem in treating

these patients is that they have three strikes against them, the myocardial intarction, the associated diseases and the physiologic changes of the aging process itself. You might add a very important fourth factor — psychologic stress. The physician is really treating a variety of conditions.

O - Does this lead to compromises in therapy?

therapy?

A — Definitely. Twe evolved what I call a goal-oriented system of managing elderly people generally. I have to find out what's more important to treat first.

Unquestionably, the unvocardial inferction is usually the life-threatening problem that requires priority. For example, many olden people who come into the fospital with an orthopedic problem — a broken hone — may also have had an MI. In fact, the infarction may have been the reason the patient fell and broke the bone. When the MI is detected and many of them aren? — treatment has to be directed against it first, naturally, and any orthopedic correction, which is usually aimed at preventing disability, has to wait until the MI has healed, usually three months after its onset.

Q - Does the reverse happen - another condition has to be handled before, or simultaneously with, the M1?

simultaneously with, the MI?

A - Yes. Arrythmas are actually the first priority in treatment. Or suppose you have a patient with invocardial infarction who develops a hemorrhage. The bleeding has to be treated concomitantly or the treatment for MI will fail. Giving the patient enough blood without throwing him into heart failure poses a padgment problem. How much blood do you give How last do you give it. These questions demand careful consideration for each cuttent. Shock and stake are other conditions. patient. Shock and stroke are other conditions that must be treated immediately

Q - What other factors have to be con

Q — What other factors have to be considered in the successful management of the geriatric MI patient?

A — I've mentioned psychologic stress. Its alleviation is especially important because older people are much less able to cope with it. Very often the infarction itself, was triggered by some stressful condition.

In the coronary care timit, the arress factor increases Older people are often trightened by all the machinery oscilloscopes. ECG electrodes and so on surrounding them. The judicious use of tranquillizers and sedatives is therefore important, but even more so, I think is an attitude of warm interest and reassurance on the part of the physician, nurse and staff. Indeed, this personalized support may be crucial to a successful outcome.

Answer to ECG Quiz

What's The Diagnosis?

M ovt increy, this patient has conduction delay show the bundle of His-Weache backtype AV filock, 2.1. Interior wall invocardial infarction is represented by the deep O wayes with T earl investions while the tall R waves in V, and V, indicate posterior wall invocardial infarction. The tall, peaked

I waves in the anterior precordial leads suggest an acute ischanic process in the distribution of the left coronary aftery. Subsequently the patient developed americs subendocardial infarction, manifested by low-grade encyme elevations, S-I depressions and T wave inversions in V₂, V_{2c} and V₃.

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