Letters

Laterality and incidence of adhesive capsulitis of the shoulder and plantar fasciitis among rural Saudis in the Jeddah zone

SIR, In western medical publications adhesive capsulitis ('frozen shoulder', 'shoulder-hand syndrome') is supposedly commoner on the left side,¹ perhaps related to the finding that in an appreciable number of cases of adhesive capsulitis there is a preceding episode of a silent or overt cardiac infarct. The laterality and incidence of this condition and of plantar fasciitis were investigated among rural Saudis in a newly opened government general hospital in the Jeddah zone to see if the findings correlated with those in the West.

A significant right sided preponderance in clinical symptoms of adhesive capsulitis^{2,3} and a significant left sided preponderance of plantar fasciitis was found among 6000 rural Saudis in the Jeddah zone, seen in the orthopaedic outpatients clinic in the first 18 months of the newly opened hospital. There were 375 presentations of clinical adhesive capsulitis from 369 patients (201 male, 168 female) with the complaint, an incidence of 6.15% (369/6000). The age range was 17-75 years, with an average age for the men of 43 and for the women of 42. The disorder was bilateral in six patients (three men, three women), right sided in 216, and left sided in 147—a significant right sided preponderance. Over the same period there were 84 presentations of clinical plantar fasciitis from 78 patients (63 male, 15 female), an incidence of 1.3%.⁴ Symptoms were left sided in 48 instances, right sided in 18, and bilateral in 12—a significant left sided preponderance. The age range was 28-60 years, with an average age for the men of 35 and for the women of 43. For those with bilateral involvement the average age was also 43 years.

No ready explanation was found for the laterality observed in these conditions. Perhaps social customs are implicated. Further studies seem to be warranted.

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Low incidence of osteoarthritis of the hips in contrast with osteoarthritis of the knees among rural Saudis: Why?

SIR, There was a striking absence of clinically symptomatic osteoarthritis of the hips among rural Saudis seen in the orthopaedic outpatient clinic in the first 18 months of a newly opened Ministry of Health Adhum general hospital in the Jeddah zone. The picture was entirely different for symptoms from clinical and radiological degenerative changes involving the knees. Of the 6000 patients seen during the period, there were only 15 presentations from 12 patients (six male, six female) with complaints and radiological evidence of osteoarthritis of the hip, an incidence of 0.2% (12/6000). The complaints were right sided in six instances, left sided in three, and bilateral in three patients (all male). The age range was 50-65 years, with an average age for the men of 55 and for the women of 60. Very few of the degenerative hip changes were advanced and these were all secondary to old fractures around the hip joint.¹

During the same period there were 579 presentations from 375 patients (264 men, 111 women) with complaints and radiological features of osteoarthritis of the knees, an incidence of 6.25%. The complaints were bilateral in 132 men and 69 women, right sided only in 93 instances, and left sided only in 81. The presenting symptoms were patellofemoral in 82% of the patients. The age range of patients with knee complaints was 15-80 years, with an average age for the men of 54 and for the women of 48. For patients with bilateral knee complaints the average age for the men was 61 and for the women 47 years. Overall, the degenerative changes in the knees were advanced in 43.75% of the patients seen.

Pathological and roentgenographic evidence of osteoarthritis (osteoarthrosis) is not rare as early as the third decade of life.^{2,3} Racial differences in prevalence and distribution of affected joints, however, may be related to differences in occupation, lifestyle, and predisposing genetic factors. The low incidence of osteoarthritis of the hip in the Chinese as compared with whites is supposedly related to protection of the joint by the more complete range of motion associated with frequent squatting.⁴ The possibility that praying postures, or something similar to the Chinese factor in the rural Saudis seen in the study, results in their enviable low incidence of osteoarthritis of