response of a patient with rheumatoid arthritis, IgA deficiency, and overlap connective tissue disease to chemotherapy for co-existent Hodgkin's disease.¹ This case report illustrates that progressive rheumatoid disease may be arrested by vigorous chemotherapy even when previous conventional treatment has failed to produce a significant reduction in disease activity. We reported a similar patient with rheumatoid arthritis who developed non-Hodgkin's lymphoma and was treated with CHOP (cyclophosphamide, doxorubicin, vincristine, and prednisone).² Our patient enjoyed a complete remission, with evidence of radiological improvement, for about 18 months and received no more drug treatment before the disease returned. Cohen's case had a flare of disease after three years.

The drawback to this form of treatment is undoubtedly the near certainty of side effects. Cohen's patient developed myelosuppression, as a result of which cyclophosphamide was substituted for nitrogen mustard. No mention was made of any other toxic effects. Our patient developed alopecia (temporary) and felt unwell for a few days after each course of treatment, but apart from this suffered no untoward side effects.

These case reports would appear to indicate that selected rheumatoid patients who have failed to respond to conventional second line antirheumatic drug treatment might benefit likewise and should not perhaps be denied the chance of a prolonged remission merely because they have not been dealt the 'lymphoma passport' to effective treatment.

Thus it may be worth exploring the feasibility of treating severe but otherwise uncomplicated rheumatoid arthritis with similar drugs. Though somewhat daunting, their side effects are not far removed from those of conventional second line drugs on which patients remain at risk for prolonged periods. Of course we do not know the actual likelihood of malignancy developing as a result of chemotherapy induced immunosuppression, and this would have to be explained to patients beforehand. But the possibility exists that a carefully thought out and administered chemotherapy protocol, for carefully selected patients, may be the logical next step forward in much the same way as already attempted in some centres with total lymphoid irradiation.

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Canal-like structures in menisci

SIR, In your issue of September 1987 Drs Bird and Sweet draw attention to the canal-like structures that can be recognised when the menisci of young calves and of young humans are examined by scanning electron microscopy.¹ These canals appear to be identical with those described by Virchow (1858).²

The concept of 'cellular pathology', formulated by Rudolph Virchow, rested heavily on arguments adduced from studies of the mesenchyme and, in particular, from observations of cartilaginous tissues. It is therefore perhaps not surprising that he recognised and illustrated a 'system of tubes' anastomosing within the fibrocartilages of the knee. There appeared to be no blood vessels but an arrangement of canals that he illustrated with great clarity. The mechanism by which the fibrocartilages derive their nutrition is still not well understood, and Virchow was not able to explain how these structures were able to sustain their metabolic activities remote from an active capillary network.

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Skin test responsiveness to *Mycobacterium tuberculosis*, HLA-DR4, and rheumatoid arthritis

SIR, Tuberculin tests on 84 Spanish patients with leprosy showed a significant association between large sized responses and HLA-DR4.¹ This HLA type is associated with rheumatoid arthritis,² and a role for mycobacterial antigens has been suggested both in this disease³ and in experimental adjuvant arthritis of rats.⁴ Thus skin test responsiveness to tuberculin in rheumatoid arthritis may provide a clue to its aetiology.

We carried out skin testing in 19 HLA-DR4 female patients with rheumatoid arthritis and in 19 DR4 and 17 non-DR4 female controls, with exactly the same new tuberculin (ultrasonicate preparation) as that used to test the patients with leprosy.¹ The study subjects were recruited from a large population of HLA-DR typed women involved in a case-control study of the relation