Ultratome III, mounted on 150-mesh formvar-coated or 300-mesh uncoated copper grids, stained with lead citrate and uranyl acetate, and examined under the JEM 100C electron microscope. Before ultrathin sectioning 0-5 μm sections were cut for light microscopy and stained with periodic acid-silver methenamine.

Results and comments

Neither the handling of the aspirated tissue sample in the processing device nor the rapid processing had any harmful effect on the glomerular ultrastructure. This was shown for both normal rabbit and normal and diseased human glomeruli. Some of the results are illustrated in Figures 2-5. No difference has been noted in structural integrity between normal and moderately or severely altered tissue in a series of 65 human fine-needle aspiration biopsies. The good structural preservation seems to be favourably influenced by the small size of the aspirate: large specimen size is a known source of fixation and infiltration artefacts (Hayat and Giaquinta, 1970).

The blocks produced with this method had good cutting qualities. The silver to grey coloured sections, mounted on coated or uncoated grids, were stable in the electron beam. The fine-needle aspiration biopsy of the kidney used together with a rapid processing schedule offers a safe, technically simple, and time-saving alternative to conventional biopsy methods in the investigation of human glomerular ultrastructure. The clinical value of the method has been discussed in a previous publication (Pasternack et al., 1977).

References


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Letter to the Editor

Recovery of spores from impregnated filter paper

Drs Annear and Green misquote us (Journal of Clinical Pathology, 1979, 32, 93).

Far from stating that quantitative recovery of spores from spore papers was difficult, we described a simple method for doing just that.

It was Kelsey, writing in 1961, who stated that ‘Despite repeated attempts no such quantitative recovery technique could be devised’. We referred to this only to show that now at least it is no longer true.

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Reference


Book reviews


Most pathologists face recurrent questions of nomenclature, classification, and pathogenesis which they feel should be at their fingertips. Their guilt is now assuaged. With two new editors, 24 contributors, 356 pages (including index), and a paperback production the latest Recent Advances in Histopathology takes care of many of these problems. In this one volume you can get to grips with the evidence for the neuroectodermal origin of the APUD system; compare the sea of classifications