The Association of Clinical Pathologists: 85th General Meeting

The 85th General meeting of the Association of Clinical Pathologists was held at Imperial College, London on 24 and 25 September 1970. Most of the papers given as free communications are abstracted below. There were two symposia, the first on 'Prenatal diagnosis' (Chairman, C. O. Carter) and the second, 'Uses and control of the newer antimicrobial drugs' (Chairman, Mark Ridley). There was also a seminar on 'Growing points' with Air Vice Marshal W. P. Stamm in the chair, and a slide seminar on 'Lesions of the central nervous system' with Professor P. M. Daniel in the chair. The Dyke Foundation Lecture entitled 'Trends in pathologists—a reciprocal essay' was given by A. G. Signy, and is published on page 744. Magnus Haines delivered the Presidential Address on the theme 'The emergence of pathology in gynaecology'.

SH (Australia) antigen in early life

G. C. TURNER, ANNE M. FIELD, RAGAA M. LASHEEN, R. MCL. TODD, AND G. B. BRUCE WHITE (Liverpool and Colindale)

After receiving an injection with an under sterile syringe a young man in Liverpool developed serum hepatitis with a positive test for SH (Australia) antigen. About two months later his wife developed antigen-positive hepatitis; the day after she became jaundiced she gave birth to a female child after 35 weeks' gestation.

Apart from immaturity and physiological jaundice the child was normal and no antigen was detected at birth or after 32 days. At 59 days, however, the test for antigen was strongly positive and also at 80 days, by which time a marked elevation of SGPT had occurred. The child remained quite well with no jaundice or other clinical evidence of disease but positive tests for antigen and elevated SGPT levels persisted for at least eight months.

Electron microscopy of the first positive sera from the child showed three types of particle: a few small round forms (about 22 nm), rather more long forms, and larger double-shelled particles 42-44 nm) with evidence of internal structure. There was no sign of clumping at this stage but eight months later, when some weakening of the precipitation and complement-fixation reactions for antigen had occurred, there was clumping which involved all three forms of particle. This suggested slow development of the response which in adults is associated with elimination of the antigen. It was too early to say whether the child would become a chronic carrier or whether the liver damage revealed only by elevated transaminase levels would develop into chronic disease.

The reappearance of malaria in the USA

G. J. CUNNINGHAM (Richmond, Virginia)

Following the period between 1956 and 1965 when the malaria incidence in the USA was uniformly low there was a marked increase in 1966 which has been maintained. In 1969, there were 3,806 cases. These cases were almost entirely in war veterans returning from South East Asia, mainly Vietnam. Although troops going into Vietnam were given prophylactic doses of chloroquine and primaquine a sharp outbreak of falciparum malaria had occurred in late 1965. This was attributed to the chloroquine resistance of the local strain of falciparum. On returning to the USA a number of veterans developed malaria, P. vivax being the cause in about 90%. It was suggested that many of these men on their return had failed to complete their course of prophylaxis as prescribed.

Of these cases occurring in the USA a few have been fatal. All were caused by P. falciparum, some being in soldiers returning from Vietnam, others in civilians who had recently been to West Africa. One disturbing feature is the number of cases, a few of which have been fatal, where malaria has developed following blood transfusion. In the future more stringent conditions will have to be enforced on prospective donors who have suffered from malaria. There have been a few 'introduced' cases, and although the local mosquitoes have been infected by parasites, the density appears insufficient to provide a reservoir for local infection on a large scale.

A new colorimetric method for blood alcohol determination

SIDNEY B. ROSALIKI (London)

A new colorimetric procedure for blood alcohol determination is described. Blood proteins are precipitated and the protein-free supernatant incubated with nicotinamide-adenine dinucleotide (NAD), reduced alcohol dehydrogenase (ADH) nitro blue tetrazolium (nitro BT), and phenazine methosulphate (PMS). Ethanol in the sample reduces the NAD, and the reduced NAD so formed reduces nitro BT to a coloured formazan, PMS serving as an intermediate electron carrier. The reaction is allowed to proceed to completion and colour formation quantitatively relates to sample alcohol concentration. An ethanol standard of known concentration is included with each batch of determinations and sample alcohol concentration calculated from this. The method permits the examination of large numbers of samples with rapidity and precision and without the need for specialized apparatus. Comparison with an ultraviolet enzymatic procedure for blood alcohol determination gave excellent agreement.

Vascular lesions of malignant essential hypertension

N. G. SANERKIN (Cardiff)

The individual vascular lesions of malignant essential hypertension are essentially identical with those of renal cortical necrosis. They show all the features expected in ischaemia with failed reflow (implicating obliterator spasm of over three hours' duration) and of ischaemia with good reflow (implicating obliterator spasm of one to three hours' duration). With the lower grades of ischaemia, there is selective necrosis of medial muscle cells. 'Fibrinoid change' and proliferative endarteritis are secondary or reactive lesions, arising as a result of the primary ischaemic lesions. A full account is being given elsewhere (Sanerkin, 1970).

Reference:


An amyloid lung

A. P. PRIOR

After an influenza-like illness a middle-aged housewife developed cough with sputum and increasing breathlessness. Symptoms and signs worsened despite treatment and she died in eight months. At necropsy changes were confined to the lung. There was gross alteration both in the macroscopic and microscopic features. Amyloid had affected the parenchyma and this in turn showed ossification and calcification.

Haemoglobin levels in nursery school children

D. M. D. EVANS (Cardiff)

A study of 1,074 apparently healthy children aged between 2 and 5 years revealed a wide range of haemoglobin levels, with a characteristic distribution curve pattern between 8-4g/100 ml (56%) and 12-2g/100 ml (10%). In round figures the mean haemoglobin level was 12g/100 ml (81%). The effect of seasonal variation on haemoglobin level appeared negligible. If 10-5g/100 ml (71%) is taken as the figure below which anaemia is deemed to
SH (Australia) antigen in early life.

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