NAME: Crispin DYE

PM NO: 93/2466

## Macroscopic Brain Description

The brain was examined after fixation. The dura was normal
The leptomeninges showed an area of subarachnoid haemorrhage over the convexities of both cerebral bemispheres (parietal and occipital lobes), this area measured $14 \times 8 \mathrm{~cm}$.

The brain was swollen. There was flattening of the gyri, softening of the cercbellar tonsils and bilateral mild uncal herniation with associated haemorrbage of the right uncus (at the level of the mamillary bodies).

The brain was cut coronally at 1 cm intervals. There was some discolouration of the grey matter.

On the left fronto-parietal cortex, there was an haemorrhage? that measured $1.5 \times 0.1 \mathrm{~cm}$.

The brain stem appeared normal and was cut in the transverse plane at 5 mm intervals, no abnormalities were noted.

The cerebellum was cut in the sagittal and parasagittal planes and no abnormalities were

There was congestion of the vessels but no petechial haemorthages were noted.

Microscopic examination

Cerebellar vermis:
Right cerebellar tonsil:
$\underline{\text { Left cerebellar tonsil: }}$

Mid-brain:

Left fronv-parietal cortex:

Right frontal cortex:

Cingula:

Hypoxic changes of Purkinje cells.
Hypoxic changes of the Purkinje cells, focal fragmentation of the tissue and leucostasis with early margination were noted. Bergmann glia were a little prominent.

Some of the neurones showed hypoxic changes with associated leucostasis.
Some of the Purkinje cells had been lost. Bergmann glia were a little prominent.

Occasional eosinophilic bodies and hypoxic neurones were noted in the substantia nigra. These eosinophilic bodies are difficult to interpret, they can be hypoxic neurones or axonal swellings.
Hypoxic changes of the trochlear neurones, more apparent on one side and inferior colliculi were noted.

Large, recent baemorthages were noted in the white matter. Some of the pyramidal cells showed eosinophilic changes of the cytoplasm and hyperchromasia of the nuclei. These changes are suggestive of hypoxia.

Normal, except for hypoxic changes of some of the cortical neurones.

No abnormality detected except for a mild perivascular haemorrhage and hypoxic changes of the neurones.

Crispin DYE
Right uncus:

Left incus:

Maxillary body:

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Patchy recent haemorrhages noted beneath the groove. Some pyramidal neurones showed hypoxic changes. A few lymphocytes were seen around blood vessels.

There was a small groove on the inferior surface. Hypoxic pyramidal neurons and perivascular lymphocytes were noted.

Only one of the mamillary bodies was examined. Here, some of the pyramidal neuroses had hypoxic changes.
Right hippocampus:
Left hippocampus:
Hypoxic changes were noted on some of the hippocampal pyramidal neuroses and of the pyramidal cells of the temporal cortex.
Hypoxic changes of the pyramidal neurones were noted.

Basal ganglia (Putamen and caudate):Hypoxic changes of the neurons were noted.
Left parieto-temporal conex:

Parieto-occipital cortex:

Right thalamus:
Hypoxic changes of the pyramidal neurones were noted.

There was a recent subarachnoid haemorrhage. Hypoxic changes of the pyramidal neurones were also noted.

The neurones showed marked hypoxic changes.

## CONCLUSION:

1. Traumatic subarachnoid haemorrhage.
2. Diffuse hypoxic changes.
3. Brain swelling.
a) Flattening of the gyri.
b) Bilateral mild uncal herniation with associated haemorrhage on the right incus.


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