

from the blood. The BBB is probably a functional mixture of anatomic, physiologic, and metabolic phenomena, and which of these are effective in a particular instance depends on the physicochemical properties of the substance in question. The barrier perhaps results from a tight intracellular junction of endothelial cells in the brain capillaries, lack of extracellular fluid space, lack of pinocytosis, and limited transport mechanism. The barrier is selective: some substances such as water, glucose, sodium chloride, and so on enter the brain readily, whereas compounds such as sodium nitrite, sodium iodide, sucrose, bile pigments, and many commonly used radiopharmaceuticals do so with difficulty or not at all. The breakdown of the BBB, as in the case of tumors or other diseases, results in the penetration of these compounds into the brain. Thus normal brain images show no uptake of most radiopharmaceuticals in the brain, due to a lack of diffusion of the tracer caused by the BBB, whereas abnormal images display a prominent uptake of radioactivity, indicating the breakdown of the BBB due to a lesion.

A number of radiopharmaceuticals have been tested for brain imaging with varying success. Important among these are  $^{131}\text{I}$ -RISA,  $^{113\text{m}}\text{In}$ -DTPA,  $^{99\text{m}}\text{Tc}$ -DTPA,  $^{99\text{m}}\text{Tc}$ -glucoheptonate, and  $^{99\text{m}}\text{Tc}$ -sodium pertechnetate. Metabolic tracers such as  $2-(^{18}\text{F})$ -fluorodeoxyglucose and  $^{11}\text{C}$ -labeled palmitic acid have also been used with considerable success. Because these radionuclides are cyclotron-produced and expensive, their clinical use has been thus far limited. Other less important radionuclides for brain imaging are  $^{42}\text{K}$ ,  $^{84}\text{Rb}$ ,  $^{74}\text{As}$ ,  $^{64}\text{Cu}$ ,  $^{52}\text{Mn}$ , and so on. The characteristics of the routinely used radiopharmaceuticals in brain imaging are summarized in Table 12-1. The important radiopharmaceuticals for brain imaging are briefly described below.

### $^{99\text{m}}\text{Tc}$ -Sodium Pertechnetate

This is one of the common radiopharmaceuticals for brain imaging. Radio-pertechnetate ( $^{99\text{m}}\text{TcO}_4^-$ ) most closely resembles iodide in its biologic behavior and localizes in the thyroid, salivary glands, gastric mucosa, and choroid plexus of the brain. Following intravenous injection,  $^{99\text{m}}\text{TcO}_4^-$  partly becomes bound to plasma proteins. The plasma disappearance of  $^{99\text{m}}\text{Tc}$  is very rapid and it is secreted by the gastric mucosa in the stomach and the intestine. Approximately 30% of the injected activity is excreted in the urine in the first 24 hr; fecal excretion becomes important after 24 hr. The total urinary and fecal excretion of  $^{99\text{m}}\text{TcO}_4^-$  radioactivity is about 50% in 3 days and almost 70% in 8 days. In contrast, reduced  $^{99\text{m}}\text{Tc}$  and  $^{99\text{m}}\text{Tc}$ -chelates are promptly eliminated by the kidneys and do not accumulate in the thyroid and choroid plexus.

Approximately 10–20 mCi (370–740 MBq)  $^{99\text{m}}\text{TcO}_4^-$  is injected intravenously. Imaging is performed 30–180 min after injection with a collimated NaI(Tl) detector coupled to a gamma camera. Scintiphotos are taken in the anterior, posterior, vertex, and lateral projections. Cerebral blood flow may also be measured with  $^{99\text{m}}\text{Tc}$  by injecting a bolus of  $^{99\text{m}}\text{TcO}_4^-$  intravenously and taking rapid sequential scintiphotos of the brain in the anterior, posterior, or vertex projections with the scintillation camera at 2–4 s intervals for about 1 min. The brain flow study in normal patients reveals the symmetry

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