

Partial pressure of Oxygen, that is, amount of oxygen in the blood (normally referred to as Dissolved Oxygen).

Monitoring the partial pressure of oxygen in brain tissue (**PbtO2**) is an important tool for traumatic brain injury (TBI) but is invasive and inconvenient for real-time monitoring.

Near-infrared spectroscopy (NIRS), which can monitor hemoglobin parameters in the brain tissue, has been used widely as a noninvasive tool for assessing cerebral ischemia and hypoxia. Therefore, it may have the potential as a noninvasive tool for estimating the change of PbtO2.

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