

Case Report

Leakage Correction



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LEAKAGE CORRECTION

The leakage correction is an algorithm developed to take into account the Blood-Brain-Barrier (BBB) disruption due to tumor proliferation. In these high-permeability areas, the leakage correction algorithm allows to avoid estimation biases due to the leakage of contrast agent when calculating the cerebral blood volume (CBV).

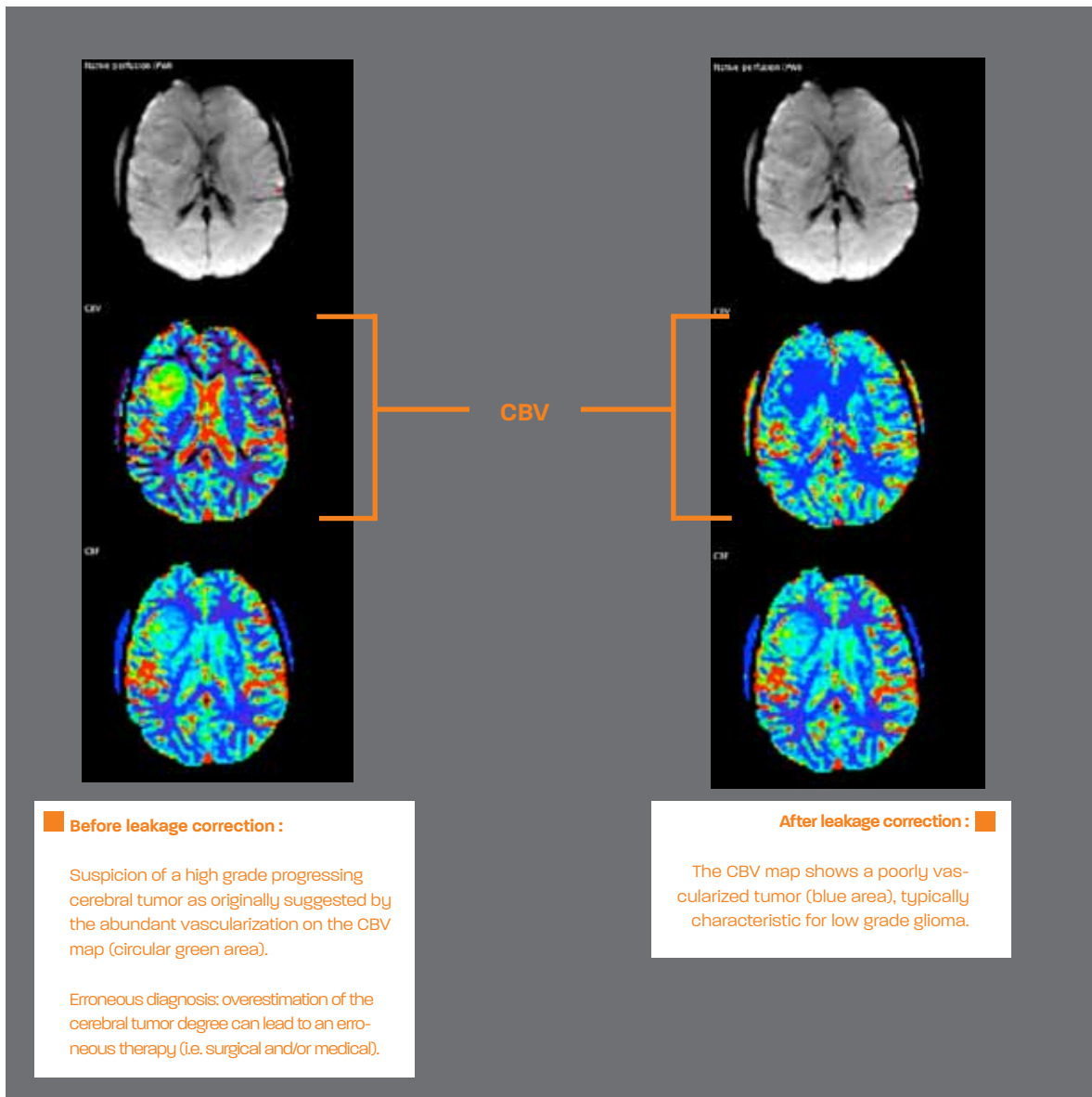
Therefore, in cases of cerebral tumors, the leakage correction is paramount to avoid CBV overestimation.

NB : The CBV relates to the tumoral vascularization and provides direct information on the neo-angiogenesis.

This mathematical method significantly impacts on the diagnosis process on the tumor characterization.

CBV OVERESTIMATION:

Tumor diagnosis: insular front-temporal glioma, a low grade cerebral tumor (benign), with a low vascularization and therefore a slow evolution.



UNDERESTIMATION

Tumor diagnosis : Cerebral lymphoma – highly aggressive hypervascularized cerebral tumor.

