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(57) Abstract :

The present invention relates to a smartphone platform integrated with fluorescent paper strip oral cancer detection. The invention relates to the development of a rapid diagnostic kit that makes use of novel fluorescent molecules and binds with the reactive oxygen species that are formed in oral malignancies. Specifically, the invention focuses on oral cancers. More specifically to the use of such a kit for quick detection of the extent of damage caused by the cancer cells in oral cancer by quantifying the intensity using a kit and a mobile application. This is accomplished by measuring the intensity of the damage using a mobile application. The detection kit includes both a precoated strip and a mobile app, both of which are designed to identify particular radicals.

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