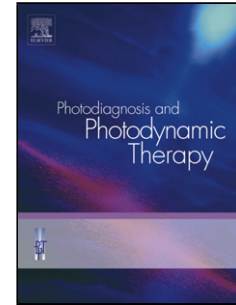


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A new screening method to detect proximal dental caries using fluorescence imaging

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Highlights

- QLF technology can be a useful screening tool prior to radiographic examinations.
- Both quantitative parameters detected from QLF images showed excellent performance for detecting proximal caries.
- New QLF scoring system can be used to evaluate the severity of proximal caries non-destructively.

Abstract

Objectives: This study aimed to assess the screening performance of the quantitative light-induced fluorescence (QLF) technology to detect proximal caries using both fluorescence loss and red fluorescence in a clinical situation. Moreover, a new simplified QLF score for the proximal caries (QS-Proximal) is proposed and its validity for detecting proximal caries was evaluated as well.

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