

عنوان مقاله:

Alternative Light Sources of Daylight Photodynamic Therapy

محل انتشار:

سومین کنگره بین المللی و پنجمین کنگره ملی زخم و ترمیم بافت (سال: 1397)

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خلاصه مقاله:

Daylight-mediated photodynamic therapy (daylight PDT) is a simple and pain free traditional treatment in some dermatologic disorders like actinic keratoses. Weather conditions may not always allow daylight PDT outdoors. There has been comparisons of the spectrum of different lamp candidates for indoor daylight PDT and investigated their ability to photobleach protoporphyrin IX (PpIX). Furthermore, it has been measured the amount of PpIX activating daylight available in a glass greenhouse, which can be an alternative when it is uncomfortable for patients to be outdoors. Various lamps like halogen lamps (overhead and slide projector), white light-emitting diode (LED) lamp, red LED panel and lamps used for conventional PDT have been investigated in the physical process to find if they might be beneficial when the weather outside is rainy or windy with no day light. Here we discuss the physical properties of these alternative light sources for characterization to apply in PDT.

کلمات کلیدی:

artificial daylight; photodynamic therapy; greenhouse; daylight PDT; methyl aminolevulinate

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