
A novel, economic operating light for dermatosurgical procedures



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SURGICAL CHALLENGE

In resource-poor settings, operating lights for operation theaters remain a problem. Sophisticated operating light systems are available but very costly and bulky and are rarely required for dermatosurgical procedures. Another solution is the use of a pedestal examination light, but these devices have the disadvantage of heating, and they need to be adjusted often to remove shadows. Both these systems require an uninterrupted electric supply, which is another problem especially in many developing countries.

SOLUTION

We suggest a simple solution to this problem: use of a light-emitting diode (LED) torch with adjustable features. These torches are different from routine torches and have special features. LED torches have uniform illumination, and the diameter and intensity of the light can be adjusted as per the requirements of the procedure. The heat produced by these torches is minimal, and thus, these devices can be used even for procedures of long duration. The torch can be mounted upon a mobile phone stand, and the mobile stand can be fixed on the operating table (Figs 1 and 2). The LED torch and mobile phone stand are widely available online, economic, and portable. The torch is rechargeable and has a replaceable battery, and thus, procedures can be done even in power outages (Video).

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Fig 1. Light-emitting diode torch fixed on mobile phone stand.



Fig 2. Illumination produced by light-emitting diode torch.