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Title: An inexpensive photo and video capture system for fibreoptic bronchoscope

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Body: Introduction: Live display on a monitor screen and capture of bronchoscopic video images can be achieved by video-bronchoscope or by using video hardware attached to fibreoptic bronchoscope, but is expensive and uses bulky equipment. Aim: This study was done to explore the possibility of a cost effective and portable system of digital image capture during fibreoptic bronchoscopy using easily available resources and make video and photo documentation convenient and economical without using costly, bulky equipment. Method: A simple digital camera was attached to fibreoptic bronchoscope using an adaptor (from a light bulb holder socket). The camera was connected to laptop via USB TV tuner device. Live display of bronchoscopic images was done on laptop screen and the bronchoscopic video and photos saved on laptop computer. Results: Assembling the commonly available resources, it was possible to capture video and photos during bronchoscopy and perform bronchoscopy while watching it on laptop screen. The cost of camera and USB TV tuner device used was less than $€ 120$. Conclusion: Good quality digital bronchoscopic photographs and video can be obtained using this cost effective system and its use extended to teaching, reviewing, patient education and documentation. This easy to assemble, affordable, portable image capture system can be a boon for bronchoscopists especially in developing countries where fibreoptic bronchoscope is still widely used and video-bronchoscopes are mostly limited to some tertiary level institutes and corporate hospitals.

