

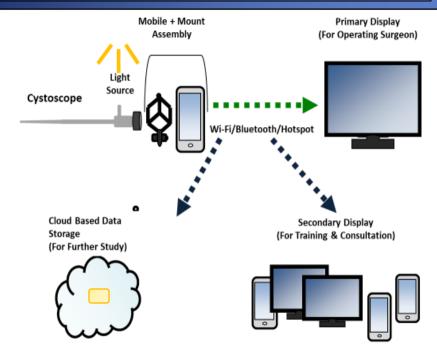
MP04-01- Cystoscopic Stent Removal Using Smartphone

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INTRODUCTION AND OBJECTIVE

- DJ stent removal can be difficult when the instruments, equipment and machines for video cystoscopy are expensive and not readily available in some hospitals.
- To demonstrate a docking system that transforms any Android, Apple or Windows smartphone into mobile endoscopic viewing system.



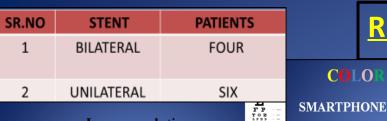
MATERIAL & METHODS



CONNECTING SMARTPHONE & CYSTOSCOPE









COLO RESOLUTION



SMARTPHONE STANDARD CAMERA

FINAL IMAGE



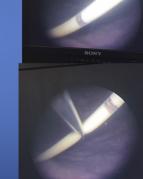
















STANDARD CAMERA







FAVORABLE ASPECTS



- Replace the camera and video receiver box
- Data can be stored/Image-recorded & shared
- Full portability- A laptop & portable LED light source
- Promote telemedicine endoscopy- Remote rural area with urban experts
- Emergency department and IPD for general diagnostic procedures
- Decrease patient pain
- **Education & Training**
- Low cost

LIMITATIONS

- Does not couple with the latest Digital Endoscope
- Initial Settings Tedious & Time consuming
- Procedure sterility
- Delay & Image lag

CONCLUSION

Amalgamation of evolving consumer mobile technology with endoscopes may prove to be a critical step in future, providing the benefits of endoscopically driven healthcare to persons in all communities across the globe.