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Tele-Arthroscopic Surgical Supervision to enhance Patient Safety

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The risk of complications of Arthroscopic Procedures by junior surgeons can be minimized by appropriate supervision of senior colleagues. Availability of a senior surgeon in the same operating theatre is often an issue to which this software addresses enabling a senior surgeon to supervise a junior colleague step by step from a distance, such as different part of the same hospital or from anywhere within catchment of internet signal.

The software designed by Dr Chughtai has various features in an Orthopaedic operating room setting:

- The Arthroscopic monitor of an operating surgeon is visible over a handheld device or a PC/Laptop
- The surgeon at a distance can show a technique by drawing an illustration of the operating surgeon's screen display to share a tip or alternative technique
- Both surgeons can communicate to each other over live video as well
- A separate video portal connects to a class room anywhere over internet (up to 2 class rooms)
- All procedure can be recorded for teaching or archival purposes

The software enables Tele-arthroscopic surgical supervision over distance with following benefits:

- Patient Safety enhance - Availability of senior surgeon around junior ones without being present in the same theatre will improve safety of the surgical procedure as instant advice is available in visual form.
- Overall effect of improving surgical outcome and minimizing complication rate of an arthroscopic procedure through instantly available senior colleague's advice who is watching the whole procedure as well
- Cutting edge training technology to improve surgical skills of junior surgeons
- Broadcasting the procedure internationally to various teaching institutions for training
- Archival of all procedures with live discussion of two surgeons and Q n A from a class room thus making valuable resource for reference and teaching.

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