Intra-operative Smartphone App with "Critical View of Safety" (CVS) Image-recognition and Tele-mentoring Networking Function which can help Surgeons Prevent Common Bile Duct Injury Complication during Laparoscopic Cholecystectomy Procedure

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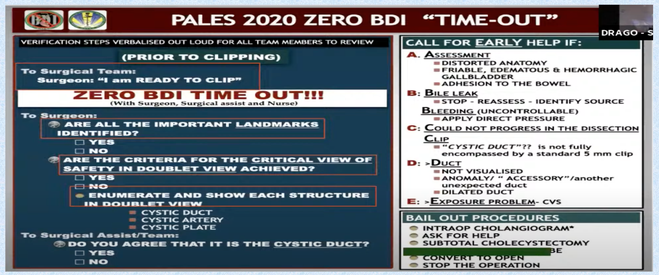
Rationale:

Even with the strong advocacy of the Safe Laparoscopic Cholecystectomy Program adapted in our country as Zero Bile Duct Injury (BDI) Campaign, there is still a gap that the incidence of BDI in Laparoscopic Cholecystectomy is not yet zero (0.3-0.5). It may also be an underestimation since there is no concrete laparoscopic cholecystectomy registry.

Input:

Appropriate, Basic and Cost-Effective System Integration

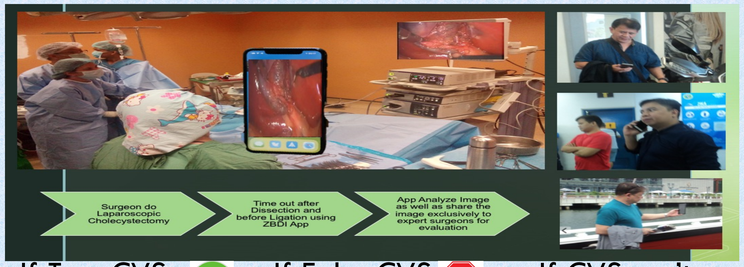
1. Simple Intra-operative Time-out Checklist



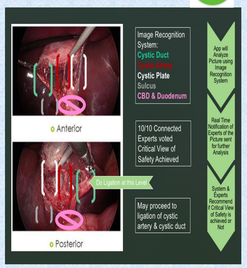
2. CVS Image-Recognition Artificial Intelligence Program using Phyton Tensorflow Platform
3. Tele-mentoring Networking Function as a fail-safe standard through real-time CVS recognition by experts using Django Platform.
4. Applied through the use of readily available Smartphone and Internet connection

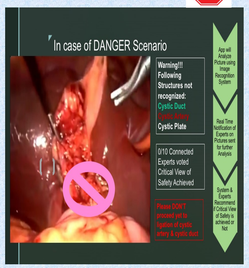
Process:

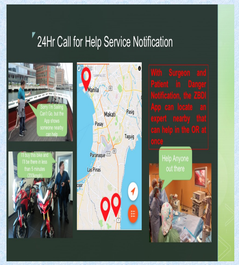
Lap Chole Time-out Procedure using Zero BDI App



If True CVS GO | If False CVS STOP | If CVS can't





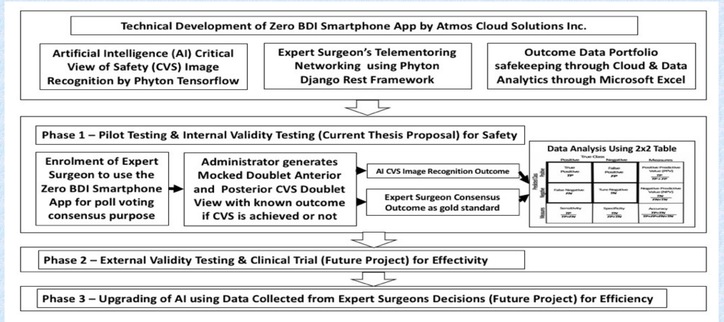


Outcome:

Zero BDI App Version 1 (User Interface) (Expert Interface)



Plan:



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