

UAA Congress 2021 – Faculty Abstract

Thulium Fiber laser – the new standard of intracorporeal lithotripsy?

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The advancement of flexible endoscopy has led to the rapid expansion of its usage in management of kidney and ureteric stones. As a result, there is an increasing need for more versatile and effective energy platform for stone fragmentation. Currently, holmium-YAG laser is the key player for intracorporeal lithotripsy. However, there are many intrinsic deficiencies in the system, including ineffective energy usage, stone fragmentation effectiveness, extra-demand on operation room facilities etc. Thulium fiber laser is a new generation of laser system with special features that could allow better energy usage, better stone fragmentation, less heat generation and more easy usage in operation room. The characteristics and effectiveness, as well as, real case performance of the two systems, will be compared during the presentation to explain the potential superiority of thulium fiber laser system.