

Extracorporeal Lithotripter

SUPERVISOR :

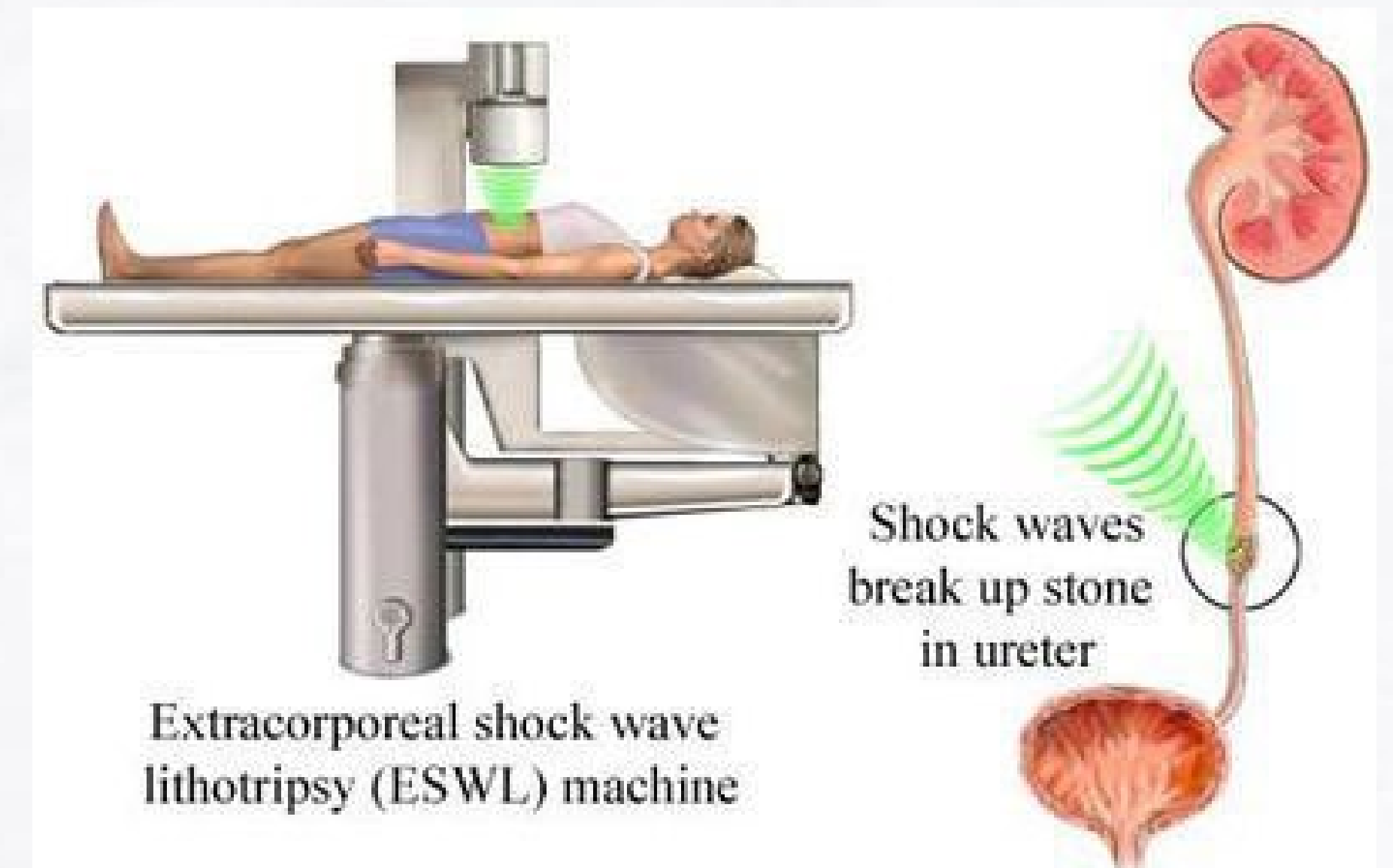
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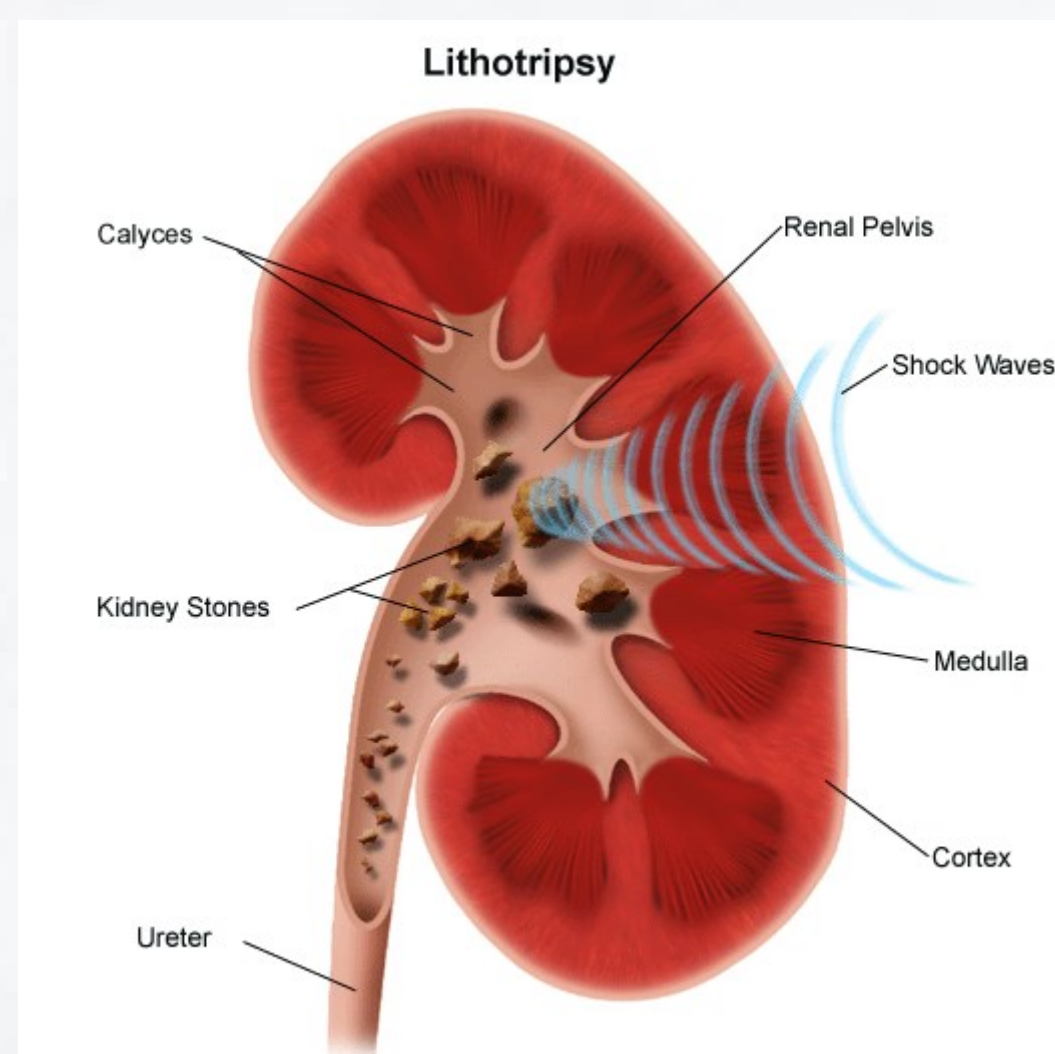
INTRODUCTION :

Extracorporeal shock wave lithotripsy is a technique for treating stones in the kidney and ureter that does not require surgery. Instead, high energy shock waves are passed through the body and used to break stones into pieces as small as grains of sand. Because of their small size, these pieces can pass from the body along with the urine.

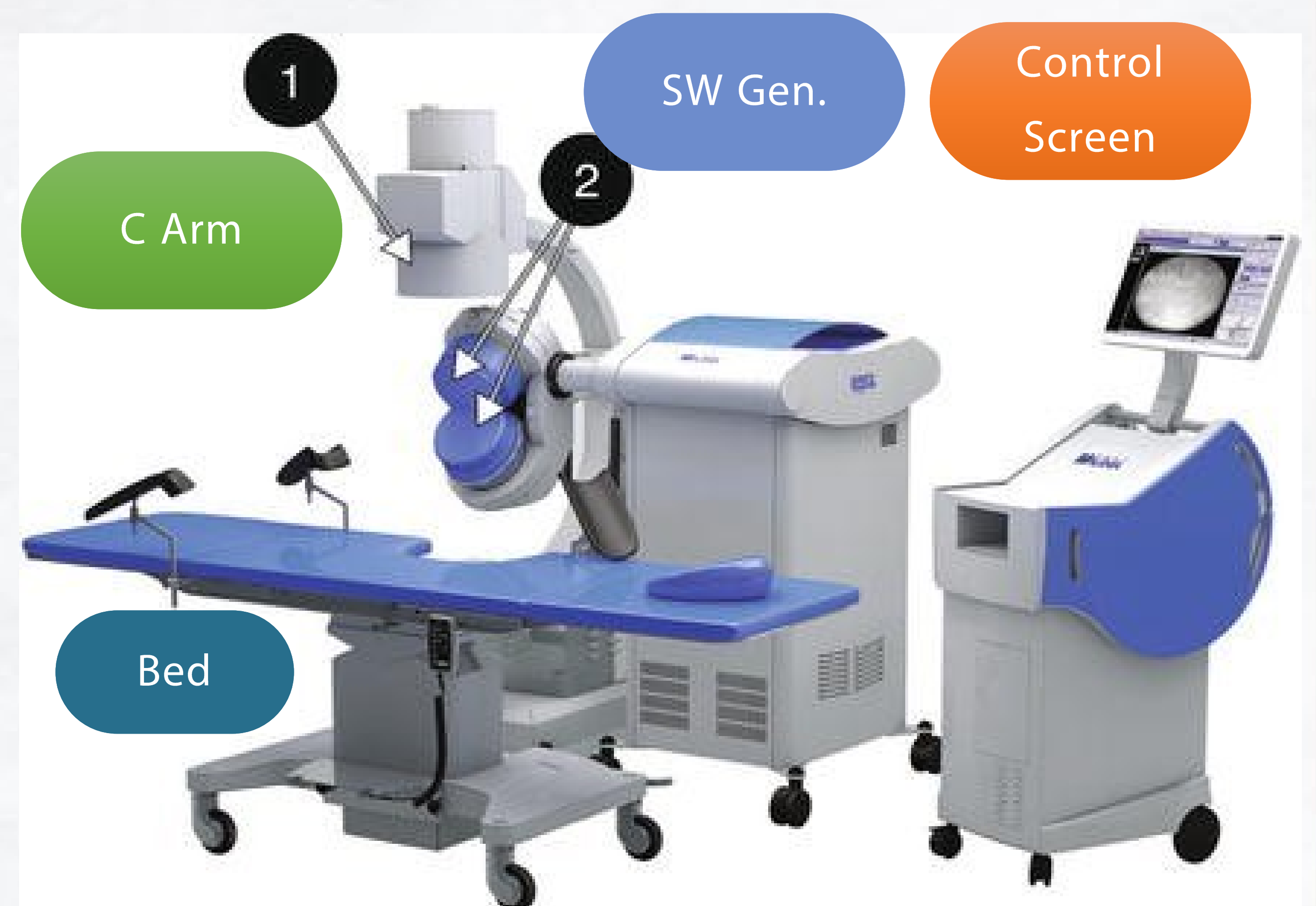


Operation:

Extracorporeal shock wave lithotripsy is a procedure to break up stones inside the urinary tract, bile ducts or pancreatic duct with a series of shock waves generated by a machine called a lithotripter. The shock waves enter the body and are targeted using an X-ray.



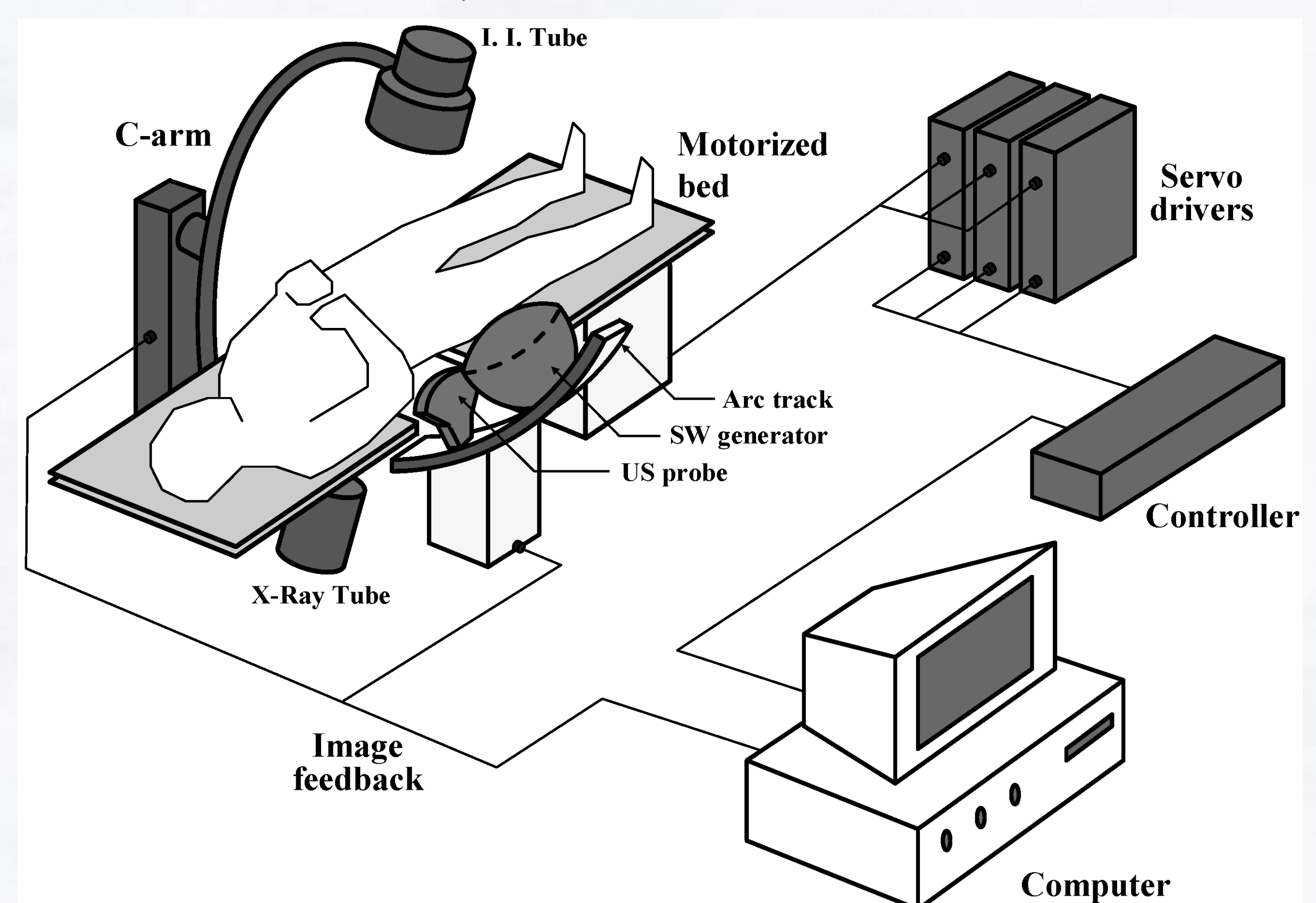
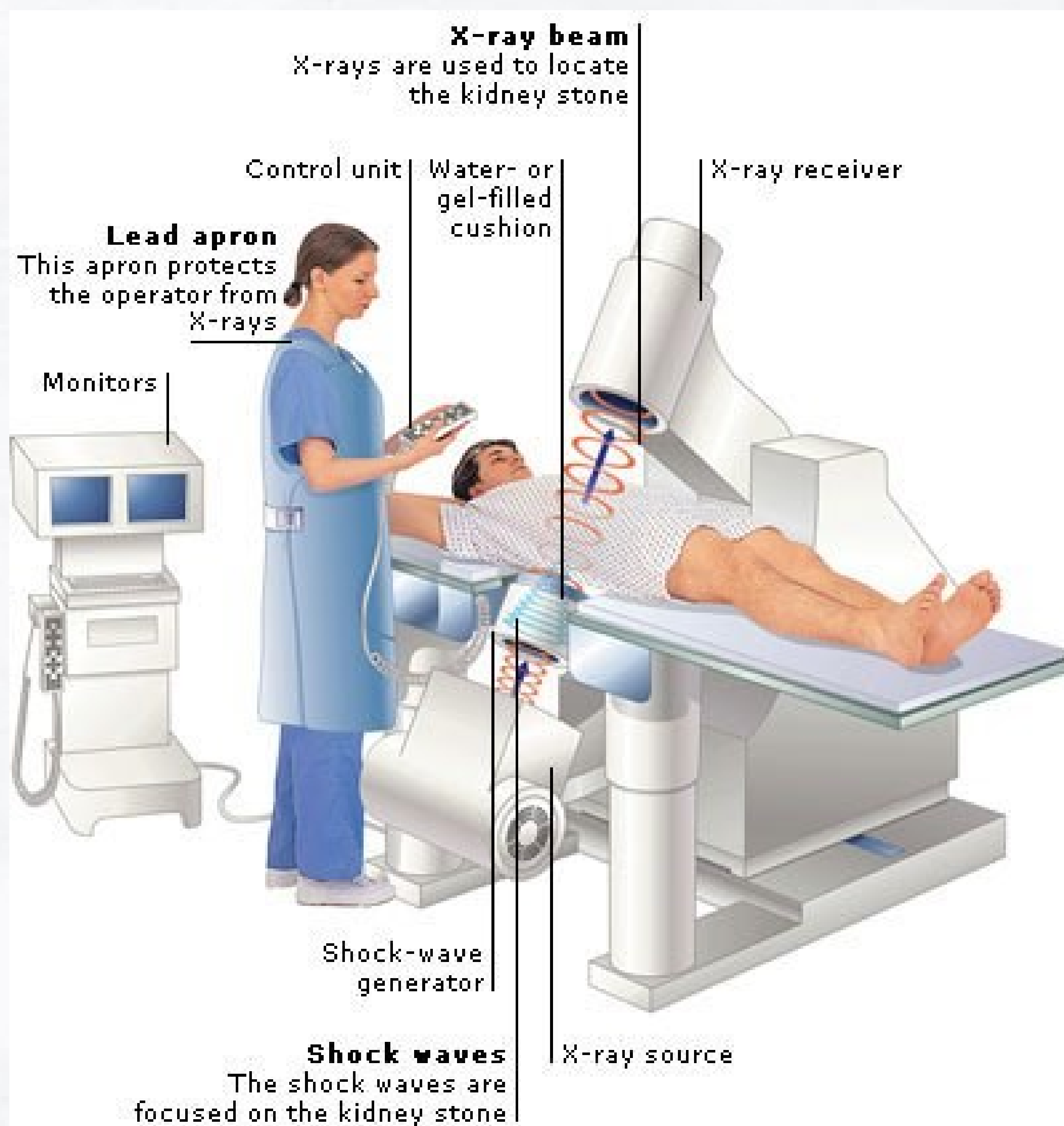
The goal of the procedure is to break the stones into smaller pieces that can pass through the body or become easier to extract.



The shockwaves can be generated in three different ways: electro-hydraulic, spark-gap or electromagnetic. Stone localization can be done by ultrasound and X-ray fluoroscopy.

Components:

- 1- AC Power Source
- 2- Shockwave generation system
- 3- Focalization system
- 4- Coupling mechanism
- 5- Stone localization system
- 6- Control Screen



Uses :

to treat kidney stones that are too large to pass through the urinary tract.