

**GOVERNMENT OF INDIA
MINISTRY OF HEALTH AND FAMILY WELFARE
DEPARTMENT OF HEALTH RESEARCH**

**RAJYA SABHA
UNSTARRED QUESTION NO.1392
TO BE ANSWERED ON 14TH MARCH, 2017**

INVENTION OF ARTIFICIAL KIDNEY

1392. SHRI C. M. RAMESH:

Will the Minister of **HEALTH AND FAMILY WELFARE** be pleased to state:

- (a) whether it is a fact that scientists of the University of California have invented an artificial kidney recently;
- (b) whether it is also a fact that it is under human trials and very soon going to hit the market; and
- (c) if so, details of the invention and how it is similar to kidney functioning, what would be the price structure and to what extent this is helpful to poor patients in the country, more particularly for those who are undergoing dialysis?

**ANSWER
THE MINISTER OF STATE IN THE MINISTRY OF HEALTH AND
FAMILY WELFARE
(SMT. ANUPRIYA PATEL)**

- (a): Yes.
- (b): As informed by the Indian Council of Medical Research, the device is currently being tested on humans.
- (c): Under the Department of Bioengineering and Therapeutic Sciences University of California, San Francisco, a national research project named “The Kidney Project” is under way to create a small, surgically implanted, and free-standing bio-artificial kidney to treat end stage renal disease. The above artificial kidney is being developed with microchip nanotechnology with living kidney cells by Dr. Fissel from Vanderbilt University, Nashville and his collaborator Dr. Shuvo Roy from University of California, San Francisco.

As the device is still under evaluation, the details regarding price structure, etc. are not available.

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