



The Holy Cow never fails to give a solution: A case study of “Govigyan Anusandhan Kendra”

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A number of Ayurvedic texts like “*Sushruta Samhita*”, and “*Ashtanga Sangraha*” explain the efficacy of the urine of cow-gomutra as possessing several medicinal properties having innumerable therapeutic uses. Among all the species existing on this earth, it is the urine of the cow which contains several therapeutic uses. A person who consumes it daily can fight back a number of diseases and keep them at bay. It is the Sanjeevani and Amrit. In addition, it has applications as a biopesticide in organic farming along with cow dung, cow’s milk and other herbal ingredients. *Gomutra* cannot be considered as a toxic waste. 95% of it is water, 2.5% consists of urea, and the remaining 2.5% is a mixture of minerals, salts, hormones and enzymes. Certain poisons can be refined and purified if soaked in *gomutra* for 3 days. For example, *Dhatura (Dhaturametel)* seeds (with shell peeled off) are considered purified after soaking in *gomutra* for 12 hours.

Cow urine has been granted US Patents (No. 6,896,907 and 6,410,059) for its medicinal properties, particularly as a bioenhancer and as an antibiotic, antifungal and anticancer agent. With regard to the latter, it has been observed to increase the potency of “Taxol” (paclitaxel) against MCF-7, a human breast cancer cell line, in *in vitro* assays (US Patent No. 6,410,059).

These milestone achievements highlight the potential role of cow urine in treatment of bacterial infections and cancer, and demonstrate that cow urine can enhance the efficacy and potency of other drugs. Cow urine has been granted US Patents (No. 6,896,907 and 6,410,059) for its medicinal properties, particularly as a bioenhancer and as an antibiotic, antifungal and anticancer agent. With regard to the latter, it has been observed to increase the potency of “Taxol” (paclitaxel) against MCF-7, a human breast cancer cell line, in *in vitro* assays (US Patent No. 6,410,059).

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Govigyan Anusandhan Kendra in Deolapar, Nagpur, is a leading cow research institute that is doing its best efforts to conduct scientific research on the cow excreta and its benefits.

As of now it has six patents to its credit: five from the US and one from China. These patents relate to the use of the cow’s excretions like urine, dung and milk for therapeutic uses.

The Kendra doesn't boast any Indian patent yet but then our rules on patentability as everyone knows are much stricter than in the developed world.

Govigyan Kendra is clearly privileged. It has 65 hectares of land in Ramtek tehsil where it looks after some abandoned cows and also runs a clinic offering cow remedies for sick people. It also trains the farmers in organic farming. It has research tie-ups with prestigious institutions of ICAR and of the Council of Scientific and Industrial Research (CSIR) in its mission to create "awareness about Indian cow and resurrect the self-sustaining Bharatiya (Indian) way of farming". The research carried out by this institution is oriented towards exploring viable uses of cow products which are beneficial not only for human beings but also for the farms and for ecology as a whole.

That goal may be a long way off but the Kendra has already made its mark with five patents, which have been granted for its product formulations based on cow's urine. One of the patents granted in the US in 2005 is for the "use of bioactive fraction from cow urine distillate as a bio-enhancer of anti-infective, anti-cancer agents and nutrients". The invention, it says, relates to a novel pharmaceutical composition comprising an effective amount of bioactive fraction from cow urine distillate as a bioavailability facilitator and pharmaceutically acceptable additives selected from anti-cancer compounds, antibiotics, drugs, and therapeutic agents.

The institution's philosophy is broadly based on Panchagavya i.e. the five products of the cow: milk, curd, ghee, dung and urine.

We are blessed to have an animal like cow as our sacred mother who takes care of our health and nutrition like our biological mother.

