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### cGMP practices in herbal drug industry to build quality in pharmaceuticals

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Good manufacturing practices in pharmaceutical industry are mandatory to build systems & improve quality in dosage forms. In herbal drug industry schedule, T emphasizes all these requirements and to build quality in herbal drugs modern methods such as vendor development, quality control, quality assurance, in process quality control, validation, calibration, standardization, and standard operating procedures should be implemented at every stage. This presentation describes the methodologies which are involved in building attitude to follow cGMP practices.

#### Biography

Mahesh Burande has 30 years of rich experience as a trainer and consultant to more than 100 pharmaceutical companies. His training programme inspires & ignites the minds of participant to build quality. His unique displays on cGMP, quality, productivity & positive attitude are appreciated by USFDA during various plant audits. IPER, where he is serving as Hon. Director has been awarded as most promising institute in the country in applied pharmacy education by Pharma Leaders award 2012.

# Use of electron beam irradiation on microbial safety and medicinal quality of *Andrographis paniculata* (Kalmegh)

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Medicinal herbs are contaminated with a wide variety of microorganisms, which pose deleterious problems if consumed. Hence, it is very important to assess the microbial safety and medicinal quality of the raw materials. Different methods of microbial decontamination exist, but have their own drawbacks. Irradiation is one of the decontamination methods, which may be helpful for sterilization. *Andrographis paniculata* (Kalmegh) is one the most widely used medicinal herb. It possesses significant hepatoprotective, anti-inflammatory and other activities. The aim of this research was to evaluate the efficacy of electron beam irradiation as a source of microbial decontamination of Kalmegh. The samples of *Andrographis paniculata* were subjected to electron beam irradiation at doses of 2.5, 5, 7.5 and 10 kGy and their microbial load, specific pathogens, pharmacognostical, physicochemical, phytochemical, pharmacological and toxicological parameters were evaluated. The results obtained confirmed that electron beam irradiation of *Andrographis paniculata* could help in reducing the microbial load and also maintain its medicinal quality.

#### Biography

Mamatha A. has completed her B.Pharm, M.Pharm (State 7<sup>th</sup> Rank) and Ph.D. at the age of 34 years from KLE University, Belgaum. She has worked as a quality control and quality assurance officer at Dr. Reddy's sister concern. Further into academics and research. Presently, she is working as asst. Professor at KLE University College of Pharmacy, Bangalore. She has published 6 papers in various national and international journals and has presented more than 10 presentations and has attended more than 27 conferences. She has also won the best paper award in IPGA held at Chennai. She has been funded an amount of Rs. 21,00,000 from Dept. of Atomic Energy, DAE, Mumbai and is presently guiding a Ph.D. student for her research work. She has been recognized as CTS (Competent Technical Staff) in chemical and instrumental analysis from Drugs Control Department, Govt. of Karnataka.