Introduction:
Advances in medical facilities with the introduction of sophisticated instruments has increased the waste generation per patient in health care units [1]. The rapid mushrooming of hospitals has increased the quantity of hospital waste production. Appropriate waste management system have been developed and installed globally to handle both hazardous and non-hazardous Bio-Medical Waste (BMW) [1]. The Ministry of Environment and Forests notified the Biomedical Waste (Management & Handling) law in 1998 [2]. The infrastructure requirement for BMW management as per BMW rules is very expensive. Ramky a private firm offers services of handling hospital waste on pay and use basis [3]. They charge Rs. 500/- per month form clinics for collecting waste thrice per week. In India, hospital waste generated is about 1.59 to 2.2 kg/bed/day [4]. Though many training programmes are conducted on BMW management for the health care team members and enforcing rules on handling them, improper regulation is continued by the hospitals, nursing homes, private practitioners etc. Thus a cross-sectional study was carried out to assess the knowledge and practices of health care providers in handling BMW in Mangalore city during January 2011.

Methodology:
A total of 216 health care providers were interviewed, out of which 58 were doctors, 62 nurses, 43 lab technicians and 53 non-teaching staffs. A semi structured questionnaire was used to elicit the information about knowledge regarding BMW management. About 68 private clinics were included in our study for practices regarding BMW disposal. Informal discussions with general practitioners on the management of medical waste were recorded.

Results:
Most of the interviewers were aware of the measures for safe collection, segregation and disposal of BMW. Highest percentage regarding knowledge on BMW management was seen among the nurses (61.3) followed by doctors (46.6), non-teaching staffs (37.7) and lab technicians (27.9) Fig 1. In Mangalore total hospital waste generated ranges between 1.5 to 1.8 tons per day [3]. The general practitioners were of the opinion that disposing BMW is very expensive but cannot be compromised as the waste is hazardous and improper handling can lead to spread of infectious diseases. About 17.65% doctors continued to dump their medical waste into main municipal garbage or were landfilling them.

Discussion & Conclusion:
From the above study we concluded that the knowledge and practice of BMW management was satisfactory among most health care providers. Yadavannavar et al [5] also stated a satisfactory report on BMW management practices among the staff of Bijapur Medical College. Pandit et al [6] reported that 86.6% of doctors were of the opinion that incineration is the best method of BMW disposal and all of the doctors interviewed were aware of the risk associated with hospital waste. Patil & Pokhrel 2005 [7] reported about 2.31 kg/day/bed of hospital waste being generated in Belgaum. In Bangalore total hospital waste produced ranges to about 40 tonnes per day and 1.5 kg/day/bed of medical waste is generated in Delhi [4] compared to 1.5 – 1.8 tons per day in Mangalore [3].
In spite of enforcing strict BMW management law 1998 by the government a change in the attitude of the health care personnel is of prime importance in proper BMW management. Sharing the expenses of infrastructure requirement for hospital waste handling by government, public bodies and voluntary associations will help implement updated procedures and practices of medical waste management. It can also be attained only by commitment and support of the health care establishments which will ensure that there is no adverse health risks and environmental pollution. Including BMW management subject in the curricula of healthcare education will keep the health care personnel be informed about the risks associated with poor waste management systems and also about the scientific, safe and cost effective ways of handling BMW.

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References: