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Menstrual Waste Management and Environmental Issues

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Shivani Bhagat Research Scholar, Dept. of Sociology & Social Work, H.N.B.Garhwal (A Central) University, Srinagar (Garhwal), Uttarakhand, India



Manish Kumar Saini
Senior Research Fellow,
Dept. of Sociology & Social Work,
H.N.B.Garhwal (A Central)
University,
Srinagar (Garhwal),
Uttarakhand, India

Abstract

Menstruation still faces many social and religious restrictions which creates an obstacle for menstruators to dispose off the menstrual waste with dignity. Many of them face problem while they are in home, school,or in office due to inavailability of proper disposable technology.It became even worst in rural areas where menstruators are taught to keep it private when it came to dispose the waste they often go with washing their wet clothes in water bodies leading the polluting the water where as in urban areas choking of sewages as a result of flushing the soiled material directly seeking always a need to aware about the right methods of disposing. Many womens in the country face restrictions on entering kitchen, worshipping, sexual intercourse, bathing etc; as menstruation is considered as unclean and embarrassing. There are immense studies conducted regarding Menstrual Hygiene but the alarming rate of environmental exploitataion is the need of time to aware about the problems in path. According to menstrual health alliance in india one sanitary pad could take 500 to 800 years to decompose as the plastic used here is non biodegradable and can lead to health and environmental hazards. Considering 36% of the menstruating females use sanitary napkins where teir environmental foot prints is high. It is equally important when it comes to the use of hygienic material and its right technique to dispose as well.

Keywords: India, Female, Health, Menstruation, Environment **Introduction**

According to WHO a person aged 10 to 19 years in which the body developed physically psychologically and biologically. Puberty is the major milestone inthe girls life which is historically associated with adolescence (Gilles, 2014). Onset of menses which is termed as Menarche considered an important phase of menstruators life. Menarche is beginning of menstruation, is a challenging experience which is usually associated with taboo and surrounded by silence and shrouded by myths (Pandey, 2014). Menstruation is regulated by hormones, in this process endometrium the lining of uterus gradually thickens and sheds off and causes bleeding that normally lasts for 3 to 5 days and occasionally upto 7 days. Menstrual blood contains fluid, mucus and vaginal secretions. Menstruation, though a normal physiological process can cause serious issues like pelvic infection, urinary tract infection, reproductive tract infection, increased risk for HIV and cervi cal ancer (Nielson, 2010).

Mnstruation stops occueing after menopause which usually occurs between 45 to 55 years of age. By using tonnes of menstrual material and then disposing off it directly into the environment cause pollution, releasing toxic chemicals leaching the soil consequentially. In a nation like India which consists of 655 million women,48% of them are not aware of the proper usageof a sanitary napkin(Gautami Bhor et al.,). Solid Waste Mnanagement official from the BMC is quoted to have said "There is no clarity on whether sanitary napkins should be classified under Bio-Medical waste or dry waste, there is also no aware ness regarding disposal even among thse who stay in societies, whereas in slum areas it is usually thrown in Nullahs (Open Drains)The quantity of Muncipal Solid Waste(MSW) generated in different countries depends upon a number of factors such as food habits, standard of living, degree of commercializations and seasons(Sharholy,2007). A study estimated that the annual solid waste of sanitary napkin found to be higher than any other menstrual absorbant produce(Truyens et al.,).

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Methodology

The data here is collected by using secondary sources by going through the literature available on, Menstrual Health and Hygiene, Impact of menstrual waste on environment, sustainable menstruation, menstrual awareness; whereas the pivot of the study is to know the the types of menstrual materials used by menstruators and its effect on environment.

Objectives of the Study

- To know the types of absorbants used during menstruation
- To find out the impact of menstrual waste on environment

Types of Absorbants Used During Menstruation

Choice of absorbants depends on economis status, sanitation facilities and the area whether it is rural or urban.IN rural areas reusable clothes clothes is preffered whereas in urban areas preference goes to commercial sanitary pads.

Review of Literature

Rajanbir Kaur et al, 2018 reviewed a number of studies under the title: Menstrual Hygiene, Management and Waste disposal: Practices and Challenges faces by Girls / Women of Developing countries, with their aims to summarise the concern and possible methods of menstrual waste management in low – income countries, the study aimed at understanding the menstrual practices, product design, demands and disposal strategies. After reviewing a number of concern studies it was find out with following:

Age at menarche 12 -13 years of age as average in attaining menarche. Facing restrictions while having menses, on cooking, entering pooja room etc., using menstrual products here shows the dependency on various factors like the place where one is laying, financial status, inhabiting what type of culture and so on. Most importantly the study focus on substitute for green: eco friendly menstrual products. Under the heading Waste disposal it is shown on the one hand where menstruators are disposing the soiled products depending on the place, like when they are in public places they flush it in toilets or wrap and throw in toilets where as at they dispose it in different way if they are in school or at home.

Despite the under usage of proper sanitary products in India, menstrual waste is increasing day by day owing to the ever increasing population. An average women throws away around 150 kg of non biodegradable waste every year (Sahoo 2016)

Gautami Bhor et al;(2018) in "A Decentralised and sustainable Solution to the Problems of Dumping Menstrual Waste into Landfills and Related Health Hazards in India" shows the percentage of menstruators practicing different types of methods for disposing off the menstrual products.

Majorly, the menstruators with 40% throw the soiled material in dustbins, 18% throw in river or roadside, 18% used to burry, 15% approach to burn and 9% go for flushing in toilets.

Different Types of Menstrual Products

In India sanitary napkin is not yet the first choice, not all women's do access to proper hygienic products. There are products which are newly introduced like tampons, biodegradable napkins, menstrual cups but using cloth is still in trend. Though sanitary napkin is the most widely used product in India.

- Reusable Cloth Pads: These cloth pads are used again after washimg, drying and sterilising directly in sunlight. These are ecofriendly and cost effective.
- Commercial Sanitary Pad:These are expensive as compared to reusable cloth pads and are available at chemist shop and commercial stores .these pads are non-reusable amd not very eco friendly.
- Tampoons: They are the types of absorbants that provides protection internally. They are soft plug like materials used by inserting inside the vagina. They are expensive and are not eco friendly.
- 4. Reusable Tampoons:These are washable tampons and are ecofriendly. These are made up of bamboo,wool,cotton or hemp and are inserted into the vagina in the same way as disposable tampons to collect menstrual flow before leaving the body.
- Menstrual Cups: They are cup like structure made of medical grade silicone rubber which makes the cup easy to fold and get inserted into the vagina to collect menstrual flow. They are reusable and environmental friendally
- Bamboo Fibre Pad:In these pads bamboo pulp is used as an absorbing material. These are ecofriendly and possess antibacterial properties thus provides infection and irritation free menstruation.
- Banana Fibre Pad:In India under the Trade name "Saathi", low cost sanitary pads for rural womens are made from banana fibre .They are ecofriendly and decompose within six months after use .
- Water Hyacinth Pads:These pads are manufactured by using water hyacinth.lt is sold under Trade Name "Jani".They are cost effective and environment friendly in nature.

Impact of Menstrual Waste On Environment

According to menstrual health alliance of India (MHAI) The number of menstruating womens in India who use disposable sanitary napkins are 21 millions in number. Disposable sanitary napkins are made of 90% plastic and keeping in mind the adhesive, packing etc each pad is equivalent to 4 plastic bags. If we estimate number of pads used per

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cycle it equates approximately 12 billions pads disposal per year.

According to a report by MHAI (2018) each of these pads can take roughly 500 - 800 years to decompose. Blockage of sewerage system is a global problem and contributing factor is flushing menstrual products in toilets. These blocked severage are cleaned by workers without proper protection, leading workers to exposure with harmfull chemicals and pathogens. Burning of pads in open releases dioxide which are toxic and carcinogenic in nature.

Deodrised sanitary products used by menstruation contain chemicals used in bleaching such as organochlorines which when buried in soil microflora and decomposition takes Conventional disposable menstrual products are bleached white and this process creates the chemical dioxin, which is linked to Immune System suppression, reproductive issues and cancer (G.Bhor et.al;).

Conclusion

Menstrual waste disposal is a huge problem that needs to be tackled on priority. Every month around 353 billion menstruator in India uses sanitary products and generates menstrual waste. MHAI reports have shown that one sanitary pad could take 500 - 800 years to decompose and is non biodegradable thus leads to health and environment hazards. Every month sanitary pads are making a way to landfills, waterbodies and open fields are posing a great threat to not only humans life but animals and most importantly environment. In ordrer to manage sanitary waste the new guidelines in the solid waste managements rules 2016 issued by Union Minister of Environment. Forest and climate have made it mandatory for manufactures to provide a wrapper for proper disposal of menstrual waste the wrapper should be made of recyclable material. We need to educate, aware the people not only menstruators about the proper disposable techniques, benefits of biodegradable and eco friendly materials to save the earth from plastic bug.

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