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Herbal Abortificient- A Review Article.

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ABSTRACT

Deliberate termination of pregnancy either by medical, surgical or mechanical method before viability of fetus is known as induction of abortion. Many times such abortion done in illegal manner without presence of medical personnel ultimately leading to complications like incomplete abortion, septic abortion, maternal morbidity and mortality. Herbal abortificient drugs are one of the major component of induced abortion. Detailed knowledge of these abortificient drugs² con help in reducing maternal morbidity & mortality, to enlist herbs harmful in pregnancy & can be used in research of new herbal originated abortificient compound as substitute of the conventional abortificient drugs like Mifepristone to avoid the adverse effect and cost effectiveness from the same³

Keywords: Herbal Abortificient, Ayurveda.

INTRODUCTION

A rising population burdens on the growth of nation resulting into poverty, inadequacy of lifesaving services like food, shelter and life. Specifically in developing countries rising population is matter of concern for social, economic, cultural & environmental factors. This challenge has been dealt with different various methods of population control i.e. contraception like Barrier method, Intra Uterine Contraceptive Devices, Hormonal pills or surgical procedures. Failure of contraception ultimately results into unwanted pregnancy.

Termination of such unwanted pregnancy should be done under the norms of MTP Act. In tribal regions, many couples's practices traditional herbal medicines for induction of abortion. Unfortunately such cases terminates into septic abortion due to unhygienic conditions, wrong route of drug administration, overdose of drug or unavailability of knowledge of antidote & treatment of septic abortion

Septic Abortion is one of the major and preventable cause of maternal mortality. To overcome this, knowledge of such herbal abortificient is the need of hour.

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Here is an attempt to review on herbal abortificient currently in practices in various regions as well as herbs described with abortificient properties by classical text.

MATERIALS AND METHODS

Classical references were explored from Ayurveda texts such as Bhavaprakash Nighantu, Relevant research articles & papers from pharmacological journals are also explored.

OBSERVATIONS

Herbal Abortificient drugs induce terminations of pregnancy in early weeks mainly. These drugs blocks progesterone action leading to placental detachment resulting in expulsion of Abortus.

1. Herbal drugs mentioned in Ayurveda having abortificient properties are as follows⁴⁻⁷

Sr No	Sanskrit	Latin Name	Family	Parts
	Name:			
1.	Gunja	Abrus Precatorius	Fabaceae	Seeds
2.	Seetaphala	Annona Squamosa	Annonaceae	Seeds, Leaves And
				Bark.
3.	Arka	Calotropis Procera	Asclepiadaceae	Ksheera
4.	Erand	Carica Papaya	Caricaceae	Leaves And Fruits
	Karkati			
5.	Kesar	Crocus Sativus	Iridaceae	Dried stigma
6.	Chitraka	Plumbago Zeylanica	Plumbaginaceae	Roots
7.	Haramala	Peganum Harmala	Zygophyllaceae	Roots
8.	Pippali	Piper Longum	Piperaceae	Seeds, Roots & Fruit

2. According to Mannan tribes of kerala

List of abortificientsused by Mannan Tribes of Idukki⁸

No.	Botanical name	Family	Local Name	Parts	Method of Use
				used	
1	Acacia catechu	Fabaceae	Karingali	Bark	3-5 ml. of bark juice
	(L.f.) Willd.				is taken orally for the
					first three months
2	Ananas comosus	Bromeliaceae	Kannara	Fruit	Ripened fruit
	(L.) Merr.				
3	Annona reticulata	Annonaceae	Seetha pazham/	Seeds	Seed paste is given
	L.		Atha		orally on empty
					stomach for 3-5 days

4	Caesalpinia pulcherrima (L.) Sw.	Fabaceae	Rajamally	Bark	Bark juice aprox 2 ml orally on before food for the first trimester
5	Carica papaya L.	Caricaceae	Kappalam	Raw fruit	10-15 ml of latex of raw fruit is used per orally for single dose in a day for continuous 3 days
6	Curculigo orchioides Gaertn.	Hypoxidacea e	Nilappana		Tuber Past of the tuber is given orally before food
7	Dolichos trilobus L.	Fabaceae	Kattumuthira	Whole plant	juice of whole plant is used to induce abortion in the first trimester
8	Gloriosa superba L.	Liliaceae	Menthonni	Root tuber	extract of root of this plant is given orally for twice a day for 3 consecutive days.
9	Momordica charantia L.	Cucurbitacea e	Pavakka	Raw fruit	Fruit juice is given orally twice a day for 5 days on the first three month.
10	Plumbago zeylanica L.	Plumbaginac eae	Koduveli	Root	3-5 ml. of root paste is taken orally to induce abortion
11	Rhynchosia rufescens (Willd.) DC.	Fabaceae	Ramachempu	Leaf	decoction of leaves of plant is administered for abortion for the first trimester
12	Solanum torvum Sw.	Solanaceae	Ana chunda	Leaf	3-5 ml extract of leaves is given per orally for 5days

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DISCUSSION

This article gives elaborative descriptions of herbs which are in practice as a abortificient drug in different regions. The exact mechanism of action of these drugs has not illustrated anywhere in the classical text. The possible mode of action is as same as other abortificient drugs like blockage of progesterone support leading to disruption of gravid endometrium or by initiating myometrium contractions.

Though these herbs are currently in practice, there is no definitive treatment or antidote available if these drugs taken in over dosage. There is need to work on it to modify these preparation with standard dosage, standard operative procedure, antidote, treatment and legal controversies.

CONCLUSION

Septic abortion is one of the major preventable cause of maternalmortality. The herbs discussed above have abortificient properties. Knowledge of these drugs helps in enlisting contraindicated herbal drugs during pregnancy.

These drugs are natural, cost effective and better compatibility with human body. Research these drugs for development of herbal &safe abortificient may help in some remote parts of the world, where herbs are the only treatment available to majority of people.

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