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PERSPECTIVE OF HIGH RISK PREGNANCY IN AYURVEDA

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ABSRTACT

High risk pregnancies are the pregnancy where the mother or fetus has higher chance of health problem or pre term delivery than a typical delivery. The prevalence of high-risk pregnancies among Indian women was 49.4%, with 33% of women having a single high-risk, and 16.4% having multiple high-risk pregnancies. [1] Changing lifestyle, food habits, late marriages, late age pregnancies are some of the contributing factors for high-risk pregnancy. In ayurveda they mentioned some condition which leads to or which we can relate to high-risk pregnancy but they did not mention directly as high risk pregnancy. Asatmya ahara vihara, not following the various regimens described by ayurveda at various stage leads to high risk pregnancy.

KEYWORDS: high risk pregnancy, garbhini paricharya.

INTRODUCTION

According to modern science these are some conditions which lead to high risk pregnancy.

- 1. Pre-existing health condition such as diabetes mellitus, high blood pressure (hypertension), HIV, Lupus etc.
- 2. Complication from previous pregnancy such as premature labor, or child with genetic problem or birth defect
- 3. Lifestyle factor- smoking, alcohol, anxiety, stress etc.
- 4. Age: Pregnancy risks tend to be higher for pregnant people who are younger than 20 or who are older than 35.
- 5. Lifestyle choices: A variety of lifestyle choices can put a pregnancy at risk. Examples include.
- Drinking alcohol.
- Smoking cigarettes, vaping or using other tobacco products.
- Using illegal drugs.
- 6. Health problems: Some medical conditions in a pregnant person can raise pregnancy risks, including.
- High blood pressure.
- · Obesity.
- Diabetes.
- Epilepsy.
- · Thyroid disease.
- Heart or blood disorders.
- · Poorly controlled asthma.
- Infections.

- 7. Pregnancy complications: Some health problems that develop during pregnancy can cause high risk includes.
- Gestational diabetes
- Multiple Gestation
- Gestational hypertension, eclampsia, pre-eclampsia
- placental condition like placenta previa, placental abruption
- Very low fetal growth. Usually, overall fetal growth or a fetal abdomen size that's less than the 10th percentile for gestational age is cause for concern. This condition is called fetal growth restriction. (IUGR)
- Rh sensitization This happens when a pregnant person's blood group is Rh negative and the fetus's blood group is Rh positive.
- Too much or too less amniotic fluid (poly/ oligohydramnios)
- 8. Pregnancy history
- Medical problems that happened during a previous pregnancy may raise the risk of having the same problems again.
- Examples include.
- Conditions during pregnancy related to high blood pressure, such as preeclampsia.
- Giving birth early. This is called preterm delivery.
- Having a baby born with a genetic condition.
- Having a miscarriage or stillbirth.

There are some factors make pregnancy high risk

- 1. Autoimmune disorder 6. PCOS
- 2. Kidney disease 7. diabetes mellitus
- 3. Mental health disorder 8. high blood pressure
- 4. Blood clotting disorder 9. Fibroid
- 5. Obesity 10. HIV/AIDS

High risk pregnancies lead to complication like.

- Preeclampsia-spectrum disorders, including gestational hypertension, preeclampsia and eclampsia.
- Preterm delivery.
- Cesarean delivery.
- Excessive bleeding during labor and delivery, or after birth (postpartum hemorrhage).
- Low birth weight.
- Birth defects (problems with the development of a baby's organs such as the heart or brain, also called congenital conditions
- Miscarriage.
- Stillbirth.

This condition needs more attention, careful observations. In this condition prevention is better than cure.

High risk pregnancy in ayurvedic view-

1. For high risk pregnancy AGE is important factor mentioned in ayurveda.

- Appropriate age for marriage and conception according to susruta 25yr for male and 16yr for female^[2] because all dhatuposhana completed by this time and couple is physically and psychologically matured and both are considerd as viryavanta. According to acharya sushruta, Impregnation in young and aged women leads to Kukshistha garbhavyapad IUGR, IUD etc.
- na chiram jeevet having low life span
- Durbalendriya^[3] weak sence and motor organ

And in ati vridha Avastha there is minimal or no chance of conception [4]

As per this we can divide like

Risk of early garbhadhana- Risk of delayed garbhadhana Pre-eclampsia - PIH (high BP)

- Preterm labour gestational diabetes
- Anaemia placental abruption
- Baby with anaemia -placenta previa
- Underweight difficult labour
- 2. Rajswala Paricharya and high risk pregnancy: In ayurveda rajswala paricharya is given by different acharyas.it is regimen which have to follow during menstruation. According to acharya susurta, maintain the celibacy, avoid Anjana, ashru, hasya, abhyanaga, nakhakartana etc.^[5]

Effect of intercourse observed in rajkala^[6,7]

Day of menstruation	Effect on pregnancy
First	No pregnancy/intra uterine death/death immediately after delivery
Second	Abortion / intra uterine death /death immediately after birth/ within few days after delivery
Third	Short lived/defective body parts
Fourth	Normal healthy, mature baby

By following this rajswala paricharya we can avoid some abnormalities in childlike^[8,9]

Paricharya (to avoid)	result
diwaswapna	Swapna sheelata (excessive sleep)
anjana	Andhatva (blindness)
rodana	Vikrita dushti (abnormality of vision)
snanulepana	Dukhsheelata (depression)
tailaabhyanga	Kushta (leprosy and skin disorder)
Nakha apkartana	Kunakhi (deformity of nails)
pradhavana	Chanchal (fickle mindness)
atikathana	Pralap (over talkative)
atishabdasravana	Badhirya (deafness)
avalekhana	Khalitya (baldness)

3. Beeja vikruti leading to garbhanga vikrutii^[10]: According to bhel Samhita.

Jadam- mentally retard

Muktawa – Aphasiya

Mental retardation, aphysia indicates cerebral insufficiencies which are the features of many genetic disorders like down's syndrome, turner's syndrome etc.

Kubja – kypho scoliosis

Kuni – abnormality in hands as in a chondrogenesis with severly short limbs and osteogenesis imperfect.

Pangu – abnormality in lower limbs as in a chondrogenesis with severly short limbs and osteogenesis imperfect.

Kubjata, kunita and panguta indicates Musculo skeletal system which are the features of Town broke syndrome.

• **Heenang and adhikanga** – can be corelated either with visible congenital abnormalities like polydactyl or

absence of visible parts or can be considered with chromosomal abnormalities e.g. aneuploidy or plyploidy. Adhikanga – polyploidy- more sets of chromosomes Klinefelter's syndrome (47XXY)

Trisomy – having additional number of chromosomes e.g. Down's syndrome

Heenang – monosomy – having deficient number of chromosomes e.g. turner's syndrome (45XO)

4. Multuple Gestation - According to acharya susruta^[11] (Su.sha.2/37), Susruta explained about the incidence of twin pregnancy as –vitiated vata divides the bija (fertilized ovum) into two fractions, followed by descent of two jeeva into those fractions guided by virtuous and non-virtuous deed of parent. According to acharya charaka^[12] (Ch.sha.2/14),

While explaining the aetiogenesis of multiple preganancy quotes – excessively vitiated *vata* situated in uterus divides the *shukrartava* (zygote) into several fractions. No. of fetus depends on no.of division it has undergone. According to harita^[13] (Ha.Sa.VI.1/38)

Harita explains specific combinations of *dosha* and *dhatu* re responsible for organogenesis If couple with *bhrant chittata* (eccentric minded) observes intercourse, this instability of mind influences the *dosha*s thus resulting in birth of twins which are source of amusement to spectators. Here we can see the role of *vayu* and *manas* plays important role in multiple gestation.

5. Garbhavikruti due to beejabhaga upataptata^[14]: The word beeja in garbha sambhav samgri refers to male and female gamets. ayurveda states that if specific part of gamete (beeja bhagavayava) is vitiated, it leads to vitiation of that organ being generated from that part.

MATERIAL AND METHOD

Various Samhita like Charaka Samhita, Susruta Samhita, Harita Samhita, Bhel Samhita etc. also various articles.

DISCUSSION

 To avoid genetic disorders and auto immune disease the concept like beejashudhi is given in ayurveda.

Pre conceptional care (purva samyog vidhi) also described in ayurveda^[15]

- snehana
- swedana
- Purification (vamana, virechana, vasti)
- For male = madhur aushada sanskrita ghrita, milk (Madhura ahara promots the production of shukra)
- For female = food with taila and masha (pittala Dravya promotes the production of artava)

Utility of purva samyoga vidhi^[16]

By proper purification and samskaras unvitiated *yoni*, *garbhashaya*, *manas* and *beeja* are ensured leading to healthy progeny by perfect unification of beeja as in case of white cloth permits perfect colouring. With this beejshudhi i.e. shodhana we can avoid autoimmune

disease, genetic disorder as well as with help of shodhana as it plays role in manasa and controls vata we can avoid multiple gestation.

• After conception to avoid further complication our acharya described masanumasika garbhini paricharya Importance of garbhini paricharya is described in charaka Samhita as, With sukra, asrika, atma asaya, and kala sampata if we use hita ahara vihara i.e. following dietic regimen the pregnant women having normal development of fetus, remains healthy and delivers a child possessing good good health energy, strength etc.^[17]

1st trimester- During first trimester of pregnancy most of women experience nausea and vomiting, so they cannot take proper diet. Use of sheeta Madhura liquid diet and milk prevents dehydration and supply required nourishment. Madhura group are anabolic and help in maintenance of pregnancy. During first trimester vata is responsible for cell division during embryogenesis and imbalance in vata dosha may disturbed as normal function and process of cell division. During first trimester milk, ghrita, Madhura gana^[18] are suggested which are well known for vatashamaka property. so, this all are helpful in avoiding miscarriage and maintaining pregnancy.

2nd trimester- In second trimester, muscular tissue of fetus grows sufficiently requiring more protein which is supplied from animal sources such as meat, milk, cheese, butter etc. In second trimester, muscular tissue of fetus grows sufficiently through cellular hyperplasia and cellular hypertrophy. Therefore, it requires more protein which can be supplied from animal sources such as meat, milk, cheese, butter as furnish amino acids in optimal combinations. Milk and dairy products have long been considered nearly ideal sources of nutrients, especially protein and calcium for pregnant women provides nourishment and stability to the fetus. Meat helps in maintenance of pregnancy, provides nourishment to fetus and suppresses alleviated Vata of pregnant women and helps in muscular growth of the fetus Cooked shasthi rice advised in Garbhini Paricharya is rich in carbohydrate and provides energy to the body. By the end of second trimester most women suffer from oedema of feet and other complications of water retention. So ghrita medicated with goksura^[19] is used which is a good diuretic will prevent retention of water as well as its complications (PIH, ECLAMPSIA).

3rd trimester- Ghrita medicated with prithakparnyadi group^[20] of drugs are diuretic, anabolic, relieve emaciation and suppress pitta and kapha. Their regular use in seventh month might help in maintaining health of mother and fetus. Yavagu^[21] consumption in eighth month which is balya and brimhana provides nourishment to mother and fetus. Most women suffer from constipation in late pregnancy, asthapana vasti^[22] administered during eighth month which is best for vata anulomana relieves constipation. Besides this may also

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affect the autonomous nervous system governing myometrium and help in regulating their function during labour.

Tampoon of oil^[23] in vagina provides lubrication of cervix, vaginal canal and perineum thus helps in normal labour. This may destroy pathogenic bacteria of vaginal canal and prevent puerperal sepsis. In ayurveda, there is

description about Garbhopaghatakara bhava i.e. (FACTORS LIKELY TO HARM THE FETUS).

- 1. According to Charak^[24]: Tiksna ausadh, vyavaya, vyayama, use of Tikshna ushna guru padarth, madakara ahara, madya sevana, ekrasa sevana
- 2. Susruta^[25]: Vyavaya, Vyayama, Atitarpan, Atikarsan, Divaswapna, Ratrijagaran, Shoka, Yanaavarohana, Bhaya, Utkatusana, Sonitamoksan, Vegadharan, Snehan, sushka, paryushita, kuthita, klinna anna etc.

Diet and mode of life by mother	Effect on children	
Abnormal position of sitting and sleeping	I.U.D. premature delivery, abortion	
Trauma, compression, falls, riding in jerky vehicle, listening unpleasant word	Premature delivery, abortion	
Sleeping in supine position with trenched extremities.	Cord around the neck	
Sleeping uncovered in open place (Vibruta Sayini) or night walking (naktcharini)	Insane or Unmatta	
Kali Kalaha Shila	apsmara	
Vyavaya Shila	Wife dominated, lazy	
Shoka Nitya	Bhita (fearful), Alpagni, Alpayusha	
Swapna Nitya	Nidralu, Alpagni, Abudha (fool)	

- 3. Vagbhata^[26]: Tiksna Ausadh, Vyavaya, Vyayama, ruksha anna, vishtambhi bhojana
- 4. Kashyapa^[27]: Should not look at declining moon, setting sun, and both the rahus, she should not remain for long in acutely erect or flexed posture and carry heavy weight for long, avoid tremering, excessive laughing and trauma, use of cold water and garlic.
- 5. harita^[28]: Dwidala anna sevana, vidahi vastu, amla padartha, mrittika, surunkanda, ushna dugdha.
- 6. Yoga Ratnakar: Kshara sevana, dushita vishama anna sevana

Ahara as garbhopaghatakara bhava -

Diet and mode of life by mother	Effect on children
Mada Nitya	Pipasa, Alpa Smruti, Anavasthita Chitta
Matsya Mamsa Nitya	Stabdhaksha (fixed eye dropping of eyelids)
Godha mamsa priyatva	Ashmari, sharkarashmari, shanairmeha (urinary problem)
Varaha mamsa priyatva	Raktaksha, ati parusha roma
Madhura Nitya	Prameha, Muka, Atisthula
Amla nitya	Rakta Pitta, Twak and Akshi Roga
Lavana nitya	Vali, Palita, Khalitya
Katu nitya	Durbala, Alpa Shoka, Anapathya
Tikta nitya	Shosha, Alpa Bala, Alpagni
Kashaya nitya	Shyava, Anaha, Udavarta

Vihara as garbhopaghatakara bhava

Charaka	sushruta	Astang sangraha
 uccha bhashana Avarodha Vega dharana Kupa-prapata Kupa avlokana Atimatra – samkshobha, vyayama, vyavaya & daruna chesta Snehnadi kriya Going outside alone & to lonely place Visiting cremation places, haunted trees & entering into shades of tree Rakta vastra dharana 	 Maithuna Vyayama Ati tarpana Ati Karshana Diwa swapna Ratri jagarana Kukkutasana Raktamokshana Vegadharana Malina, vikrita, heena gatrta parshana Yana avorahana 	 Yana Indriya pratikula bhava Ajeerna Agni Krodha Shoka Bhaya Trasa Upavasa Vishama, kathina asana Kupa pratapa

Astang Hridaya	kashyapa	Other acharya
Apriya avlokana		
Apriya shravana	• Looking at declining moon, setting sun	
Abhynga	Being exposed to solar or lunar eclipse	Harita & bhva misra
Udvartana	• Excitement	Sitting or sleeping on very soft bed
Bhara vahana	Excessive laughing	Going to river bank, temple or garden
Guru pravarana	• Staying for longer periods in erect or flexed posture	Yogratnakara
• Udvega	• Viewing the filled pots ,garlands, pot filled with	Swedana
Uttana shayana	ghrita or dadhi	vamana
Shodhana	Wearing tight garments	
Vasti before eighth month		

• Garbhopghatakara vihara and their effect on fetus Pratottana shayana - taking rest in lateral recumbent position promotes uteroplacental blood flow prolonged sleep in other position may reduce the uteroplcental blood flow and thereby lead to fetal hypoxia.

kukkutasana & vishamasana - prolonged squatting & abnormal posture may influence placental and uterine blood flow. Increase intrauterine pressure causes miscarriage or premature labor.

kupa avlokana - during pregnancy the center for gravity will be altered because of the gravid uterus & this might be reason for restriction

vyavaya - Sex during pregnancy carries threat for abortion or premature delivery as orgasm causes uterine contraction.

But they do not cause cervical dilatation and hence usually not initiates labor It may increases intrauterine pressure causing miscarriage or premature labor.

yana – travel as a whole should be abstained by pregnant lady.

Rahu darshana - exposure to both lunar and solar eclipse may make pregnant women to be exposed to harmful radiation leading to fetal defects and growth problems.

Trauma - trauma can occur in case of kupa prapata, yana, vikshobhakara charya etc.

Trauma may result in condition like - traumatic placental abruption leading to placental separation, fetal maternal hemorrhage

Vegadharana - Leads to hypothalamic irritability leading to hormonal aberrations.

Ratri jagarana & ati diwa swapna - Leads to alteration of circadian rhythm causing hypothalamic dysfunction and hormonal aberrations.

CONCLUSION

So, we can avoid high risk pregnancy with Marriage and conception in time

- To avoid autoimmune disease, multiple gestation, genetic disease- pre conceptional care (beeja shudhi) (shodhana).
- To avoid complications in pregnancy follow masanumasika paricharya.
- To avoid complication in garbha avoid garbhopghatkara bhava.

So, Nearby all condition causing high risk pregnancies are also described in ayurveda, that all condition can be handle by avoiding taking asatmya ahara vihara before

conception& during pregnancy as well as high risk situation for conception & during pregnancy can be treated with beejshudhi i.e. samshodhana (panchakarma), following rajaswala paricharya, garbhadhana vidhi, garbhini paricharya.

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