REVIEW ARTICLE
CLASSICAL ADVOCATIONS FOR THE ADMINISTRATION OF GOLD IN AYURVEDA

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Access this article online: www.jahm.in

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Received on: 13/03/14, Revised on: 23/03/14, Accepted on: 29/03/14

Abstract
Metals have been an important group of drugs in Ayurvedic medical system. Gold, the noble metal has been used in Ayurveda since more than 3000 yrs and references pertaining to its therapeutic use can be found in the ancient classics like Charaka samhita, Sushruta samhita, Kashyapa samhita etc. Gold is possessed with properties like medhya (intelligence enhancer), vrshya (aphrodisiac), and rasayana (rejuvenation) etc. It is used as an independent therapeutic agent and also as part of various forms of compound formulations like Swarnabhasma, Vasantakusumakarara, Swarnaparpati, Makaradwaja and Hemagarbha pottalietc. Swarnaprashana, an administration of gold to infants and children is one of popular usages of gold nowadays in India. In the present paper, an attempt has been made to summarize advocations for administration of gold by different Ayurvedic classics.

Key words: Swarna, Swarnaprashana, Swarna rasayana, Makaradhwaja, Rasashastra, Ayurveda

Introduction
Gold, the noble metal has been a therapeutic agent in ancient India before it has been recognized as a therapeutic agent by modern science. Gold is used as an independent medicine in its elemental form as well as ashhasma form, and is also used in various formulations as an ingredient. However, use of various anupana (vehicle), a unique and integral part of Ayurvedic prescription has broadened the scope of its medicinal usage. Gold known for intellectual enhancing (medhya), antitoxic (vishaghn) and rejuvenative (rasayana) properties, has been used in the formulations for all age groups, including during the period of pregnancy.

The most popular among the gold administration in ancient India is Kashyapa’s prescription of gold in Pediatrics i.e. Swarnaprashana. According to Kashyapa the gold has to be rubbed with ghee and honey and is to be administered to the baby every day. It increases intelligence, digestive power, vigor, complexion, strength and lifespan. On administration of Swarnaprashana for 1 month the baby’s intelligence quotient is expected to be highly increased and becomes more immune. On administration for 6 months the baby’s concentration will be remarkably improved and becomes a good listener (shrutadhara). Swarnaprashana for neonatal baby has been considered as one of the shodashasamskaras (sixteen rites) by Kashyapa.

Charaka has given a unique attribution to the action of gold. He terms it to be anti-toxic (vishaghn). He claims that the poison cannot stay in the body of a person who takes gold internally, just like the drop of water put on lotus
leaf. Sushruta opines that there will be a absence of production of breast milk soon after the delivery due to the obstruction of channels at chest region. Hence the baby has to be given the gold mixed with honey and ghee on the first day. Sushruta explains in Medhayushkameeya adhayaya that for good intelligence and long life span one can take gold every day. Vaghbha in the lehanavidhi has given some herbal drugs along with which gold has to be administered. These include vacha (Acorus calamus Linn.), vrahmi (Bacopa monnieri Linn.), shankhpushpi (Convolvulus pluricaulis) and Shatavari (Asparagus racemosus Wild). He has given separate rejuvenative combinations with gold termed to be swarnarasayana. The gold administered with milk and amalaki (Emblica officinalis Gaertn.) powder can bring back the severely ill into healthy state. Along with Shatavarighrita and honey or with shankhpushpi gold can enhance the life span. With vacha it enhances intelligence and with vidarikanda (Puraria Tuberose DC.) it enhances the vigour.

Rasendra cu damani, a prominent rasa classic of 12th century claims gold to be best immune-protector. It claims that gold can prevent possible forthcoming diseases, root out the existent diseases and is a very good anti-dote for all varieties of poisons.

Ayurvedaparakasha, a text of 17th century has given the differential action of Swarna in its bhasma form and in its shodhita form. He claims swarnabhasma (Pakvahema) is rasayana while purified gold (Apakwahema – unincinerated gold) is anti-toxic (Vishaghna) and increases complexion alleviates emaciation and is a good nourisher. He has also given set of herbal drugs to be taken along with purified gold for different actions among which gold rubbed with vacha, honey and ghee increases intelligence. Ayurvedaparakasha has given a highest place for gold in medicine and he claims that even when all purificatory therapies (Panchakarma) also fail, one can choose gold for therapeutics and it is the better even than Shilajatu rasayana, Bhallataka rasayana, Swarnamakshika rasayana.

Rasayana property of gold has been high lightened by majority the classical books. Being rasayana it has got positive action on all the dhatus. Along with that, Swarna is attributed with the actions like vrushya (aphrodisiac), brumhana (nourisher), vishahara (antitoxic), hrudya (cardiotonic), kantiprada (increases complexion), vagvishuddida (clears the voice), ojovivruddikara (increases the essence of all the dhatus), buddhimedhasmrutikara (increases decisive power, intelligence and memory), yakshmahara (cures tuberculosis), balya (increases strength), swarakara (good for voice), sandhateduritakshaya (treats the worst emaciation), unmadahara and apasmarahara. Thus Swarna with madhura (sweet), tikta (bitter) and kashaya (astringent) taste, madhuravipaka (sweet after biotransformation) and sheetaveerya (cold potency) acts on both mind and body. It is a tridoshapacifying drug.

The recent text, of 20th century Rasa Tarangini regards Swarna as garbhashtapanamuttamam (good in implantation/Fertility Index Promoter) and pumsavanopayigi (useful in getting baby with desired sex). Another Rasa text Bruhat rasa rajasundara in Suvarnaprakarana mentions it as bhroona hitam sarvada (always good for foetus/profoetal) and added one of the indications as raktapradara. Author of Astangasangraha advises the usage of Kwatha of certain herbal drugs prepared in golden or silver vessel for the entire first month of the pregnancy. Many medicines prescribed in Garbhini rogadhikar and Sutika rogaadhikara contains gold as an important ingredient like Garbhachintamani rasa, Garbhapeeyushavalli rasa, Bruhatsootikara rasa, Sootikavallabha rasa, and Sootikabharana rasa etc. Some of the important formulations of gold mentioned in
AFI,\textsuperscript{10} sourced from various Ayurvedic classics are depicted in Table 1.

<table>
<thead>
<tr>
<th>Table 1: Certain formulations of gold with their indications</th>
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<tr>
<td><strong>Formulation</strong></td>
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<tr>
<td>1. Yogendra Rasa</td>
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<td>2. Rasaraja Rasa</td>
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<td>3. Svarnasindura</td>
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<td>4. SvarnaParpati</td>
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<td>5. BruhatVatacintamani Rasa</td>
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<td>6. HemargarbhaPottali Rasa</td>
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<td>7. ShwasaKasacintamani rasa</td>
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<td>8. VasantaKusumakara rasa</td>
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<td>9. Sutikabharana rasa</td>
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</tbody>
</table>
10. Yakruti Hruddaurbalya (Weakness of the heart), Sannipata Jvara, Svedadhikya (Excessive Sweating) 7.04 SYS (Hrudroga)

11. Sutashekhara Rasa Amlapitta, Chardi (Emesis), Gulma (Abdominal lump), Kasa (Cough), Grahani (Malabsorption syndrome), TridoshajaAtisara (Diarrhoea due to all Dosha), ShulaShwasa (Asthma), Mandagni (Impaired digestive fire), Hikka (Hiccup), Udavarta (Condition in which there is upward movement of vayu), Rajayakshma (Tuberculosis) 5.28 YR (Amlapitta)

12. Vasantaamalati rasa JeernaKasa (Chronic cough), Vishamajvara (Intermittent fever), Jeernajvara (Chronic fever) 5.23 SBM (Jvara 60-62)

13. Makaradvaja Hruddaurbalya (Weakness of the heart), Jara (Senility/Progeriasis), Jvara (Fever), Agnimandya (Digestive impairment), Valipalita, Used as Rasayana&Vajikarana (Aphrodisiac and Nutrient to body and mind with adaptio-immuno-neuro-endocrino-modulator properties) 3.03 BR (Vajikarana 237-246)

14. BrahmiVati Vataroga , SannipataJvara, Apatantraka (Hysteria with loss of consciousness), Akshepa (Convulsions), Santatajvara (Continuous Fever), Hruddaurbalya, Bhrama (Vertigo), Manoroga (Psychological Disorder) 2.52 SYS (Vataroga)

15. Mritasanjvanigutika SannipataJvara (High grade fever due to vitiation of all Dosha), Apasmara (Epilepsy), Manovibhrama (Delirium), Visha (Poison) 2.2 SY (Gutika 66)

(Note: Media of bhavana (levigation) in the formulation is not included during calculation of % of gold. Hence the percentage is approximate only.)


Discussion:
Gold has been used in Ayurvedic therapeutics since centuries. Elemental gold was administered in the fine powder form or by rubbing on stone in the earlier period. Various anupanas like Vacha, Vidarikanda, Shankhpushpi, ghee and honey are advised to be used as anupana. With the development of specialized branch dealing with herbominerals – Rasashastra-, a newer dosage form of gold was developed in the name of bhasma. Gold is an ingredient in the formulations of all forms of Rasoushadhies viz. khalveeya rasayana, kupipakwa rasayana, parpati and pottali kalpas.Among the kupipakwa rasayanas, Makaradhwaja is one of well known formulation which involves the use of gold, although there is nil or minimal amount of gold in the end product.

Usually metals are used in Ayurveda only after purificatory process called shodhana. There was no specific purificatory method advised for gold in the period of Brihattrayis. Later,Rasashastra texts have provided specific
methods for its purification. Some authorities claim that there is no need of purification for gold as it itself is a pure metal (shuddhaloha).\textsuperscript{11}

Administration of gold in infants and children was found in ancient classic like Sushrutasamhita, Kashyapasamhita, Astangasangraha and Astangahridaya. Classically, shuddhaswarna is advised to be taken along with suitable anupana for this purpose.

However, in current clinical practice use of Swarnabhasma with anupanas like ghee and honey is commonly found. In addition, certain gold containing formulations like Vasanta kusumarakapasa, Swarna malini vasanta, Bhrihatvata chintamani rasa etc. is prevalent. There is a classical Ayurvedic recommendation to administer gold to the people of all age group.

Acknowledgements
Authors express their sincere gratitude to Prof. Prasanna N Rao, Principal, SDM College of Ayurveda and Hospital, Hassan, Prof. P.K. Prajapati Headand Dr. Galib, Assistant Professor, Dept. of Rasashastra and BhaishajyaKalpana, IPGT&RA, Gujarat Ayurved University, Jamnagar for their technical inputs and constant encouragement.

References:
1. Hemaraja Sharma, Kashypa samhita of Vradadhajeevaka, 4\textsuperscript{th} edition, Chapter 1, Varanasi: Chowkambha SamskritaSamsthana;2009;p.5.

Source of support: Nil, Conflict of interest: None Declared.