A Review on the Sunnah of Miswak (Salvadora Persica) and its Potentiality to Improve Oral Health

Fatin Nur Majdina Nordin*, Siti Rabiatul Adawiyah S. Mohsain, Sumaiyah Mohd Tamizi, Monika@Munirah Abd Razzak.
Program of Applied Science with Islamic Studies, Institute of Postgraduate Studies and Department of Al-Quran and Al-Hadith, Academy of Islamic Studies, University of Malaya (UM)

Abstract

Salvadora persica, known as ‘miswak’ in Arabic is used by Muslims ever since decades ago as an oral hygienic tool. Miswak is mentioned in a number of ahadith and strongly recommended by the Prophet Muhammad s.a.w. Miswak is a small tree known as Arak in Arabic, found in rocky slope and sandy area and predominantly found in Pakistan, India and mainly in Arabian Peninsula. This paper aims to review and analyse the potentials of Salvadora persica in improving oral health based on Islamic and scientific perspectives. Qualitative method has been applied in this study by reviewing the authentic hadith texts related to miswak application. Similarly, a number of scientific researches on Salvadora persica were highlighted. This study has found that the potentials of Salvadora persica are not only based on its mechanical properties but also depends on its biological properties such as antibacterial, antifungal and antiplaque that will help in preventing dental problems such as dental plaque, dental caries, periodontal diseases and gingivitis.

Keywords: oral hygienic tool, Islamic and scientific perspectives, mechanical properties, biological properties, antibacterial.

Introduction

Oral hygiene is the practice of keeping the mouth and teeth clean and healthy. This practice aims to prevent oral diseases such as cavities, gingivitis, periodontal disease and bad breath. To maintain oral hygiene, there are various methods that can be implemented such as
brushing, flossing and gargling. Historically, people began to use oral cleaning tools when they realized that oral health is among the main attractions of one’s appearance (Bos, G., 1993; Berita Harian, 2010). A number of societies, including Muslims, view miswak as the best teeth cleaning tool, as the edge of the wood will act as a brush, while the active ingredient in it will help in cleaning the mouth. ‘Miswak’ appliance is a traditional practice in the Arabian Peninsula and vast majority of Muslim community across the world.

The term ‘miswak’ or ‘siwak’ derives from Arabic word ‘saka’ which mean to rub something or clean the teeth. According to ‘Abd al-Karim Zaidan, the scholars used the term miswak to clarify the usage of a stick to clean the teeth and remove its waste (‘Abd al-Karim Zaidan, 1997). Al-Sun’ani and Al-Nawawi also shared the same understanding of miswak. According to him miswak refers to the usage of a stick on the teeth to eliminate the yellowing effects of food residues stuck on the teeth (Al-Sun’ani, 1997, and al-Nawawi, 2001). In short, miswak is any part of the tree either twigs, branches or roots which is used to cleanse the teeth. Besides the discussion on the part of tree used as miswak, the characters of miswak including its ability to clean, its fibrous and being wet should be considered.

Miswak has various names as it is known as ‘datan’ in India and Pakistan, ‘miswaki’ in Tanzania, ‘kayu sugi’ in Nusantara and ‘miswak’ in Arabia. Generally, miswak is extracted from different plants that are utilized as miswak such as Neem (Azadirachta indica) which is widely used in India, the lime tree (Citrus aurantifolia) and the orange tree citrus (Citrus sinensis); occasionally used by the West African as chewing stick, the roots of Senna (Cassia vennea); used by African Negroes and the roots of Arak (Salvadora persica) that is normally used in the Middle East. Arak is the plant that was used by the Prophet Muhammad (s.a.w.). According to Muslim commentators of Prophetic narrations on siwak, cleaning sticks from arak tree are highly recommended as the most suitable tree for making the miswak stick. (Ibn Qayyim al-Jauziyah, 2003 and Rispler-Chaim, V, 1992).

Today miswak popular as a teeth cleaning tool; this popularity has religious and spiritual flavor. Contemporary researches also show that miswak has high potential in refining oral health because it can help in inhibiting the growth of several oral bacteria and plaque formation (Sofrata, 2011, al-Bayaty, 2010, Poureslami, 2007, Cendrin, J, 2008 and Almas, K, 2004, 2001). Thus, the aim of this paper is to analyze what are the potentials Salvadora persica in improving oral health. Both Islamic and scientific perspectives on miswak would be presented. With great emphasis on its guidance in this matter, Prophetic ahadith on miswak would be reviewed. This result is expected to encourage Muslims to practice the sunnah with in depth knowledge and not by taqlid.

As this paper is a review paper, to understanding the topic from Islamic perspective, related ahadith from Sahah al-Sittah (Collection from the Six Books of Ahadith) and authentic books of tafsîr (interpretations of the Qur’an) will be studied. The scientific perspective on miswak and its potential in improving oral health will also be studied. The paper is divided into three parts which are miswak in the perspective of hadith (Table 1 and Table 2) and fiqh and Muslim scholar’s view (Table 3). The scientific perspective of miswak is discussed based on its effects and applications are clarified.

**Miswak as oral health cleaning tool as stated in the Prophetic narrations**

Hadith is the second authentic reference source after the Qur’an. There are number of ahadith of the Prophet (s.a.w) which encourages people to practice siwak in their daily life. According to these narrations, the Prophet (s.a.w.) gave keen interest to siwak as the oral cleaning tool. The following tables are comparative classifications of ahadith of miswak that are mentioned in the Six Authentic Books of hadith collections; there are some repeated hadith mentions in those books.
Table 1: The ahadith on miswak in Six Authentic Books of Hadith

<table>
<thead>
<tr>
<th>No.</th>
<th>Name of ahadith</th>
<th>Book of hadith</th>
<th>Total No. of ahadith</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sahih al-Bukhariyi</td>
<td>Book of Ablution, Book of Jumaat, Book of Tahajjud, Book of Prayer, Book of Five Compulsory (Fardhu al-Khams), Book of Fasting</td>
<td>18</td>
</tr>
<tr>
<td>2</td>
<td>Sahih Muslim</td>
<td>Book of Hygiene (Taharah), Chapter of Siwak, Book of Juma’at, Book of Hajj, Book of Ru’yah</td>
<td>18</td>
</tr>
<tr>
<td>3</td>
<td>Sunan al-Tarmidhiyi</td>
<td>Chapter of Hygiene (Taharah), Chapter of Jumaat, Chapter of Fasting, Chapter of Marriage (al-Nikah), Chapter of Adab</td>
<td>6</td>
</tr>
<tr>
<td>4</td>
<td>Sunan Ibn Majah</td>
<td>Chapter of Hygiene (Taharah), Chapter of Fitrah, Chapter of Prayer and Juma’at Prayer, Chapter of Fasting</td>
<td>12</td>
</tr>
<tr>
<td>5</td>
<td>Sunan al-Nasa’iyyi</td>
<td>Book of Hygiene (Taharah), Chapter of Siwak, Book of Juma’at, Book of Qiyam al-Lail, Book of Zynah</td>
<td>18</td>
</tr>
<tr>
<td>6</td>
<td>Sunan Abu Da’ud</td>
<td>Book of Hygiene (Taharah), Chapter of Siwak, Book of Prayer and Qiyam al-Lail, Book of Fasting, Book of Clothes, Book of Law</td>
<td>20</td>
</tr>
</tbody>
</table>

Table 1 demonstrates the number of ahadith of miswak appliance mentioned by the Prophet (s.a.w.) as narrated in the collections of Sahih al-Bukhariyi, Sahih Muslim, Sunan al-Tarmidhiyi, Sunan Nasa’iyyi, Sunan Ibn Majah and Sunan Abu Daud. Most of the ahadith on miswak in the books of hadith are stated in the chapters of Hygiene, except in books like Sunan Nasaie, Sunan Abu Daud and Sahih Muslim. These three books dedicated an independent chapter for ahadith on miswak. Ahadith on miswak can be classified into three subtopics which are the method of miswak application, recommended time for miswak, and the advantages of miswak.

Table 2: Three subtopics regarding ahadith of miswak

<table>
<thead>
<tr>
<th>No.</th>
<th>Subtopics</th>
<th>No. of ahadith</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Method of miswak application</td>
<td>“I came to the Prophet s.a.w. and I saw him carrying a siwak in his hand and cleaning his teeth, saying, “u’ u’, as if he was retching while the siwak was in his mouth” (Sahih al-Bukhariyi, Book of Ablution, Hadith No. 245 and Sunan Abu Daud, Book of Cleanliness, Chapter Kaifa Yastaka, Hadith No. 49)</td>
</tr>
<tr>
<td>2</td>
<td>Recommended time for miswak</td>
<td>“Whenever the Prophet s.a.w. got up at night, he used to clean his mouth with siwak.” (Sahih Bukhari, Book of Ablution, Hadith No. 246)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“I asked Aisyah: what the Prophet did first when he entered his house, and she replied: He used siwak (first of all)” (Sahih Muslim, Book of Purification, Pertaining to tooth-stick, Hadith No. 488 &amp; 489)</td>
</tr>
</tbody>
</table>
| 3   | Advantage of miswak              | “Ten are the acts according to fitrah; clipping the mustache, letting the beard grow, using the siwak, snuffing up water in the nose, cutting the nails, washing the finger joints, plucking the hair under the armpits, shaving the pubes, and cleaning one’s private parts with water. The narrator said: I have forgotten the tenth, but it may have
The Prophetic narrations on miswak could also be categorized into three. The first category is those hadith that exhibits how the Prophet (s.a.w) performed miswak. This category explains how the Prophet (s.a.w) performed miswak application. The second category highlights the time to perform miswak; according to these ahadith, tooth brush (miswak) is not limited to any specific time. In fact the Prophet (s.a.w) encouraged to be done at anytime; during ablution, recitation of the Qur’an, meditation (zikr), qiyamullail (night time prayers); prior to prayer, entering mosque or house, on getting up from sleep and in interaction with people, are among the recommended (sunnah) occasions to perform siwak.

**Miswak as Oral Health Tool: Fiqh Perspective**

The Qur’an did not mention directly the commandment of siwak practice, however the general principle of hygiene has been strengthened in the Qur’an. The Qur’an states require Muslims to be clean (the Qur’an, 9:108). The role of hadith is significant in explaining the details of hygienic lifestyle including the precision of oral cleanliness. Among the Prophetic narrations that recommend the culture of miswak is the following:

“The Prophet s.a.w. said, It (i.e siwak) is a purification for the mouth and it is a way of seeking Allah’s pleasures.”
(Sahih Bukhari, Book of Fasting, Chapter dry or green siwak for fasting person).

This hadith expounds the importance of performing siwak in Islam; on the one hand, this hadith teaches that siwak (tooth brush) helps to clean the mouth, and it is the way to seek the pleasure of Allah, on the other hand. Furthermore, Huzaifah (r.a) narrated that:

“Whenever the Prophet (s.a.w.) got up at night, he used to clean his mouth with Siwak”. (Sahih Bukhari, Book of Ablution, Hadith No. 246 (a)).

Both of the above mentioned hadith have shown the priority that has been given by the Prophet (s.a.w) to dental care. Though the mainstream of the Muslim jurists are on the view that siwak is strongly recommended practice in Islam, there are number of Muslim jurists who hold that siwak is, indeed, mandatory practice in Islam. Similarly, there is ongoing debate among Muslim jurists, on whether the use of siwak can be replaced with toothbrush or other tools to clean the teeth and mouth, however, still the usage of siwak has its own unique features.

**Early Muslim Jurists and their Opinions on siwak**

Among Muslim jurists who addressed siwak include, among others, Ibn Qayyim, Ibn al-Nafis, Ibn Hajar, Imam al-Nawawi. Their commentaries are highlighted in the following table.

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<table>
<thead>
<tr>
<th>Miswak</th>
<th>Oral Health Tool: Fiqh Perspective</th>
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Table 3: Commentaries of Muslim scholars regarding miswak

<table>
<thead>
<tr>
<th>No.</th>
<th>Scholars</th>
<th>Commentaries</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ibn Qayyim</td>
<td><em>Siwak</em> is favorable for many reasons, such as perfuming the breath, strengthening the gingival, clearing the phlegm and the sight and preventing cavities. It is also keep up the health of the stomach, help the digestion process, clears the voice, makes the speech eloquently, and encourages individual to recite the Qur’an, remember of Allah and pray. <em>Siwak</em> also fights the feeling of sleepiness and lethargy, pleases the Lord, gratifies the angels and boosts up the act of good deeds (Ibn Qayyim, 2003).</td>
</tr>
<tr>
<td>2</td>
<td>Ibn Nafis</td>
<td>By using <em>siwak</em> moderately, it will polish the teeth and strengthen its root, prevent cavities and improving the manner of laughing (Ibn Nafis, 1986).</td>
</tr>
<tr>
<td>3</td>
<td>Ibn Hajar Asqalani</td>
<td>Regarding technical aspect, Ibn Hajar said that the best route to brush the teeth is from the upper side to the down side of the teeth to prevent gum bleeding (Ibn Hajar, 1986).</td>
</tr>
<tr>
<td>4</td>
<td>Imam Nawawi</td>
<td>For Imam Nawawi, brushing from the right side of the mouth or horizontally is the best method of cleaning the teeth (Al-Nawawi, 1996, 2001).</td>
</tr>
</tbody>
</table>

Miswak as Oral Health Tool: Scientific Perspective

Along with the development of science and technology, the innovation in oral health care also grows from the use of wood to the invention of assortment of brush. The quality of brush is improved from time to time and range of materials is studied to produce a good feature of toothpaste. Scientific studies about miswak have been conducted by modern scientists, in which the positive effect of miswak is identified, which mainly due to its mechanical and biological outcome.

Mechanical Effect of miswak

Tooth brush is the most natural process to remove food remaining on teeth. Among many types of tooth brushes, miswak is identified as a useful tool to eliminate food residue on the teeth. The stick of miswak has mechanical functions same as toothbrush does; it can reach all parts of the month.

Biological Effect of miswak

On the biological side, miswak provides important chemicals that function as a toothpaste to the mouth during the tooth brush. Followings are some laboratory research findings about miswak’s biological effects:

i. Active ingredient and chemical composition of miswak

The phytochemical studies of miswak has found that it contains almost 19 active ingredients that can help to promote healthy teeth and mouths of consumers. The three main components which are essential for oral care are chloride,1 calcium oxalate2 and fluoride;3 other chemical contents of miswak including Vitamin C,4 tannins,5 resins,6 alkaloids,7 trimethyamine,8 silica,9 and aromatic oils (essential oil).10 (Sorfata, A.H. 2010, Poureslami, H.R. et al. 2007 and Lafi and Ababneh, 1995).

ii. An antibacterial effect better than the use of toothbrush.

Studies have showed that Salvadora persica contains antibacterial substances against several types of cryogenic bacteria commonly found in the oral cavity. The active ingredients in miswak will help in preventing the formation and production of bacteria on the teeth and in the mouth. The effectiveness of an ideal antimicrobial agent is depends on its ability to kill microbes or bacteria and cause minimal toxic effects to the host cell. There are almost 500 types of microorganisms found in oral cavity and some will cause oral infections. This is where the significance of miswak comes about with the presence of gallic acid, alkaloid and benzyl-isothiocyanate that will act as
antibacterial and antimicrobial substances by inhibiting acid growth and production in oral cavity (Rajabalian et al., 2009 and Khatak, 2010). According to Sofrata, A.H. (2010), miswak stick pieces with no extraction have a strong antibacterial effect against most of bacterial species and this is proved by the large inhibition zones (3.4 cm) of it compared to inhibition zone of aqueous extract of miswak (0.2 cm).

In this study al-Lafi and Ababneh (1995) on antibacterial activity of Salvadora persica against several types of aerobic and anaerobic bacteria, reported that Salvadora persica extracts have a drastic effect on the growth of Staphylococcus aureus. Al-Mas (2001) studied of seven different types of Salvadora persica taken from various part of Asia had shown that Salvadora persica found in Saudi Arabia and Acacia arabica from Pakistan have the antibacterial activity despite the fact that Peelu from Pakistan is not (Al-Mas, 2001).

Moreover, another study was carried out by Al-Mas and Al-Zeid focused on the comparison between the use of toothbrush and miswak to the presence of Streptococcus mutans and lactobacilli in saliva. The result of the study had shown a significant decrease in the number of S.mutans whereas there was no significant difference in the number of lactobacilli present in saliva. Thus, they have come to the conclusion that miswak extracts (50%) showed antimicrobial activity as the numbers of bacteria calculated were decreased especially the number of S.mutans (Al-Mas et al., 2004).

iii. Stimulate the production of calcium and chloride in saliva.
A study conduct by Gazi et al. (1992) about the impact of siwak on the contents of saliva within a certain period had shown that siwak resulted in significant increases in calcium (22 times) and chloride (6 times) and reduction in phosphate and pH in salivary content. The saturation of calcium in the saliva prevents demineralization and promotes remineralization of tooth enamel while high concentrations of chloride will inhibit the formation of calculus (Khatak et al., 2010). Therefore, the teeth will last longer, not easily decomposed and thus, become healthier. Another study has done by Sushil Kaur (2011) on the effect of chewing miswak on flow rate, pH, and levels of calcium phosphate, chloride and thiocyanate of whole saliva. The result has shown that the chewing of miswak will resulted in increases of mean flow rate of stimulated whole saliva in all groups compared to the chewing of cotton roll. This circumstance indirectly indicate that plants used as chewing sticks may have the potential of releasing substances into saliva that could influence the state of oral health.

iv. Antiplaque effect on teeth
Dental caries and periodontal diseases are among major oral problems. Most of these problems arise from the formation of dental plaque bacteria in one’s mouth. Research done by Al-Bagieh (1997) and his science group shows extracts of siwak will inhibits the growth of some bacteria that can cause plaque, which is 13.63% more effective than placebo in controlling the growth of plaque. In addition, a Sweden researcher who studied an antiplaque feature of the siwak has found that the level of Plaque Index for experienced users is 52%. This indicate that miswak give a significant effect in decreasing plaque formation on teeth. The proper method of handling of miswak also influences the antiplaque effect on user’s teeth (Cendrin et al., 2008). However, Batwa and his group of researcher in their study have argued that the effect of using either miswak or toothbrush is equivalent. This condition may be influenced by several factors such as method and duration of their usage and the way of their handling. (Batwa et al., 2006). In general, majority of the studies in this matter revealed that miswak has the ability in decreasing the plaque formation which eventually leads to the diminishing of the risk of gingivitis and bleeding gums.

Other uses of Miswak
Besides being a tooth cleaning tool, miswak can also be used to enhance the health of the body; for instant, because of the presence of antimicrobial activity in it, miswak play important role in tongue cleaning. Moreover, it is also utilizable to overcome badly habits such as smoking and thumbs sucking and helps in the process of tooth development as well (Almas, K and Al Lafi, 1995). According to Sher, H. (2011) and his research group, Salvadora persica can be classified as a multipurpose plant and possesses several agro-pharmaceutical features. The S.persica root can be used to treat epilepsy, gonorrhea and skin disease, spleen troubles and stomach ulcer (Sanoqo et. al., 1999). Another study found that S.persica possess insect repellent and antiplasmodial actions which will benefit in treating malaria diseases (Ali et. al., 2002).
Analysis: miswak and Its Potential in Improving Oral Health
Oral health is integral to general well-being and relates to the quality of life that extends beyond the functions of craniofacial complex (Palombo, E.A., 2011). However oral health has been overlooked by some people. Mouth plays an important role not only for communication, but for eating, drinking and as an organ of digestion. Teeth are important in food breaking to the smaller structure to enhance the digestive process. Other than that, it also plays the vital role in the pronunciation of consonant letter, keeping the facial beauty and shape look of a person (Rahimah, 1987).

There are various types of toothbrushes in the modern markets; yet miswak is still relevant to our age and probably will be the same in the future. Miswak can help to prevent plaque formation and cavity by reducing the accumulation of food residue in mouth and not allow bacteria to attach to the teeth. Bacteria live and reproduce on the teeth and tongue and it takes almost 24 hours for it to attach to a tooth and develop plaque. As plaque is a fertile breeding ground for bacteria, thus brushing can help interfering and reducing formation of plaque on the teeth especially if it is done regularly (Edwards, 2008). Nearly every one of the dentist advice the public to brush the teeth minimally twice a day, but differently occur to the Prophet (s.a.w) as he advice the Muslim to brush the teeth five times a day, which is before every solah (pray) performed. The recommendation demonstrates the concern of the Prophet (s.a.w.) towards health care particularly in oral health.

If a plastic brush without chemical constituent can prevent cavity, similar effect goes to miswak except that it has bitter oil and active ingredients. The most important thing is miswak is a natural product and it does not have side effect if applied in a proper way. Al-Bayati (2008) refer to Salehi, P said that miswak itself is very useful in the prevention of tooth decay even if it is used without any other tooth cleaning tools. Most of the dentists nowadays promote the usage of toothbrush together with floss and mouthwash to remove bacteria; however some of the mouthwash has been reported to have a number of side effects such as brown discoloration of teeth and give a bitter taste (Al-Bayaty FH et al, 2010). This proved that miswak is still relevant up to the present world and Muslims are encouraged to implement miswak as their daily oral care.

Regarding the advantages of miswak, as mentioned in previous researches and studies, majority of the scholars use the terms such as refreshing the mouth, teeth whitening and strengthening the tooth root in clarifying the action of miswak in maintaining oral health care. These dynamic actions can be proved by the presence of active or chemicals ingredients in the siwak stick naturally. The Prophet Muhammad s.a.w. also used siwak derived from Salvadora persica not from other wood available in Arab country. In the opinion of the author, the reason of this may be due to the advantages of Salvadora persica itself compared to other tree that is suitable to be applied as a miswak. However as noted earlier, there is no trouble of using others materials as a teeth cleaning tools, but siwak is one of the Prophet’s recommendation which also beneficial to be followed by Muslims.

There are several claims saying that miswak can sharpen the brain or mind, increases fluency of speaks and tongue, reduces fatigue, dilutes mucus and phlegm and increase the appetite. The action is possible as because the whole tree of Salvadora persica can be used for medical or health purposes and all the benefit can be obtained by the practitioner if the usage method is accurately practiced (Akhtar J et al, 2011). Physiologically, teeth and mouth have several nerves that connected to the brain, thus their functions are interconnected and will affect each other. Yet, more research should be conducted to deeply explicate this matter.

In the authors’ opinion, the nature of the modern toothbrush and siwak are alike and it is possible that the invention of modern toothbrush was the result of adaptation or observation of the siwak stick. The recommendation of siwak that revealed by Allah through His Prophet s.a.w. contain immense of reason and wisdom. Even the practicing of siwak itself as an oral health tool merely categorized as sunnah muakaddah due to the Islamic law, but the attempt of cleaning the teeth and ensure the oral health care either by means of the modern toothbrush, floss or mouthwash also can be classified as a sunnah as looking to the objective or maqasid syari’ah (Islamic term) of the deed. However, the best way is to endeavor of what had exactly done by the Prophets.a.w. in those days.

Miswak is one of the Islamic heritages in oral health care. Historically, miswak has been used by Muslims and Salvadora persica is a plant that is often used as a miswak, which is also the plant species used by the Prophet s.a.w. The practice of miswak is still relevant...
and should be continuously implemented as the clinical studies and scientific researchers showed positive effects of it in oral health care. Besides, the World Health Organization is also encouraging further research to be done since people recently tend to return to the application of natural sources that will leads to zero side effects.

**Conclusion**

_Miswak_ is a natural toothbrush, and it is one of the best tooth brushing methods in oral healthcare. Apart from being valuable for the healthy body, _miswak_ has some unique features such as being easy to use without requiring expertise, affordable and cost effective. However, the optimum effect of miswak will eventually depend on the method and techniques of practicing it.

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1 It helps to remove stains from teeth
2 It helps prevent the formation of dental caries and remove stains from teeth.
3 It is very effective in preventing the formation of dental caries because of its ability to dampen the enamel and reaches the potential formation of dental caries. It also has a barrier of damage or decay.
4 It strengthens capillaries of the gums and prevents gum swelling and help to heal and repair tissue.
5 It helps to heal swollen gums and have antimicrobial effects. Tannin or tannic acid is a chemical mixture of Gallic acid.
6 Resins and tannins have astringent effect on mucous membrane and form a layer that protects the enamel surface from dental caries.
7 Alkaloids of the Salvadorini in siwak have antibacterial effect as well.
8 It is very effective in reducing the attachment of the tooth surface and reduces plaque accumulation in the mouth.
9 Silica in siwak acts as an abrasive material to remove impurities to whiten the teeth.
10 It gives freshness in the mouth and eliminates bad breath