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## **UNANI CONCEPT OF PYREXIA AND SOME IMPORTANT ANTI-PYRETIC DRUGS**

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### **ABSTRACT**

In Persian, Fever is called *Tap* and in common Indian language it is called as *Bukhar*. Pyrexia is an abnormal temperature which itself produced in the heart or it may develop in any other organ then transferred to the heart and from heart it is distributed in the whole body via *Rooh* and blood. In the body, this abnormal temperature interferes with normal functions and disrupts them. In Unani system of Medicine, wide description is available about the fever and drugs are also mentioned which have anti-pyretic activity. An attempt has been made to cumulate the anti-pyretic drugs which are mentioned in classical Unani text.

## INTRODUCTION

In Persian, Fever is called **Tap** and in common Indian language it is called as **Bukhar**.<sup>2,7</sup>

Pyrexia is an abnormal temperature which itself produced in the heart or it may develop in any other organ then transferred to the heart and from heart it is distributed in the whole body via **Rooh** and blood. In the body this abnormal temperature interferes with normal functions and disrupt them.<sup>1,2,7</sup>

Fever is an abnormal temperature which produced from the heart, distributed in the whole body and heat up the whole body.<sup>6</sup>

## TYPES OF TEMPERATURE IN UNANI SYSTEM<sup>7</sup>

There are three types of temperatures discussed in Unani system of medicine which are as follows:

(1) **Hararat-E-Ghareezi (Normal Temperature)**: This type of temperature resides in the body up to its living state.

(2) **Hararat-E-Ustuqussi (Core Temperature)**: This type of temperature persists in the body up to its complete destruction. Because of this temperature the dead body become black and decomposed.

(3) **Hararat-e-Ghareebi (Abnormal Temperature)**: This temperature develops in the living body and produce discomfort in it.

## CLASSIFICATION OF FEVER OR PYREXIA

According to **GALEN**, there are two types of pyrexia<sup>2,5,7</sup>

(1) **Humma-e-Marzi (Pyrexia of Disease)**: There is no involvement of any other disease. The fever is itself a disease.

(2) **Humma-e-Arazi (Pyrexia of Complication)**: It is always due to some disease in the body. It develops as a complication of that disease.

Most of the Unani scholars later divided fever into three types<sup>2,7</sup>

(1) **Humma-e-Yaum (Single Day Fever)**:<sup>3, 6</sup> This type of fever persist only for one day. It has a single episode throughout the day. It does not start with chills and rigors.

(2) **Humma-e-Khilti Or Ufooni (Septic Fever)**: If the abnormal temperature first affect **humors** then involves the whole body, it is septic fever.

(3) **Humma-e-Diqqi (Tubercular Fever)**:<sup>3,6</sup> In this type of fever, the abnormal temperature first affect the **organs**.

## CLASSIFICATION ACCORDING TO THE NATURE OF FEVER<sup>2,3, 4, 5</sup>

(1) **Humma-e-Daima or Lazima**: This type of fever persist for the whole duration of the disease and does not come to normal from begining to end. It includes-

(i) Humma-e-yaum

(ii) Humma-e-mutbiqa.

(2) **Humma-e-Naiba or Dairah**: This is periodic in nature. It includes:

- (i) Humma-e-mawaziba
- (ii) Ghib-e-dairah
- (iii) Ruba-e-dairah.

**(3) Humma-e-Mufattirah:** In this type of fever there is remarkable decrease in the temperature but the fever does not subside completely. It includes:

- (i) Humma-e-lisqa,
- (ii) Ghib-e-lazima
- (iii) Ruba-e-lazima.

### **MADARIJ-E-HUMMA (STAGES OF FEVER)**<sup>1,4,7</sup>

There are four stages described in Unani system of medicine

- (1) Darja-e-Ibteda
- (2) Darja-e-Tazaeed
- (3) Darja-e-Inteha
- (4) Darja-e-Inhetat

### **ANTIPYRETIC DRUGS**

Those drugs which are used to lower the raised body temperature i.e. fever are known as antipyretic drugs.

Broadly these may be divided as:

- (1) **Weak antipyretics** act upon the thermoregulatory centre and decrease the abnormal temperature slowly.
- (2) **Strong antipyretics** act upon thermoregulatory centre and constrict the blood vessels or sometimes increase the perspiration and decrease the abnormal temperature quickly.

Regarding fever there are some important points which should be kept in mind and used at the time of requirement.

### **MODES OF ACTIONS OF ANTIPYRECTICS**

Antipyretics work in following manner as described in Unani system of medicine.<sup>4</sup>

- (1) **Tal'een (Laxation)** Due to constipation there may be decrease in excretion of heat from the body. In this condition one can use laxatives to subside the increased temperature.
- (2) **Tareeq (Perspiration)** It is necessary to maintain the balance in temperature. With the help of perspiration the temperature can be reduced and maintained to normal level.
- (3) **Idrar (Diuresis)** By increasing the excretion of urine, we may reduce the abnormally increased temperature easily.
- (4) **Qai (Vomiting)** This is used to maintain the temperature when the body tries to expel through mouth.
- (5) **Tabreed (Cooling)** We may also reduce temperature by directly using those drugs which have cooling effect either externally or internally.

Those drugs which are given for tal'een, tareeq, idrar, qai and sometimes for purgation, not only reduce the temperature but also excrete the toxins from the body which cause fever. In this way these drugs act as antipyretics.<sup>4</sup>

**SOME ANTIPYRETIC DRUGS USED IN UNANI SYSTEM OF MEDICINE**

S. No.	Unani Name	Botanical Name	Alternative Name	Part Used	Chemical Constituents
1.	Khaksi <sup>8,9,10,11,12,13,15,18</sup>	<i>Sisymbrium irio</i> <sup>9,10,11,13,14,15,18</sup>	Khoobah <sup>11,15</sup> , Khoobkalan <sup>8,9,10,11,12,13,15,18</sup>	Seeds <sup>9,11,12,13,15,18</sup>	Fixed oil <sup>10</sup> , Mucilage <sup>10</sup> , Carbohydrate <sup>10,18</sup> , Manganese <sup>10</sup> , Sterol <sup>10</sup> , Quercitin <sup>14</sup> , Isorhamnetin <sup>14,18</sup>
2.	Giloe <sup>8,10,11,12,13,15</sup>	<i>Tinospora cardifolia</i> <sup>10,11,13,14,15</sup>	Gurach <sup>8,10,12,15</sup> , Gulancha <sup>10,12,13,15</sup>	Stem <sup>10,12,13,15</sup>	Starch <sup>10</sup> , Giloin <sup>13</sup> , Giloinin <sup>13</sup> , Berberine <sup>13</sup> , Tinosporide <sup>14</sup>
3.	Karanjwah <sup>8,9,10,11,12,13,15,17</sup>	<i>Caisalpinia bonducella</i> <sup>11,13,15,16,17,18</sup>	Akitamakit <sup>8,9,10,11,12,15</sup> Khaya-e-Iblees <sup>8,9,10,12</sup>	Seeds <sup>9,10,11,12,13,15,16,17</sup>	Bindocycline <sup>11,12</sup> , Fixed oil <sup>10,17,18</sup> , Mucilage <sup>10,17</sup> , Starch <sup>13,17</sup> , Saponin <sup>13,17</sup> , Bonducin <sup>13,17</sup>
4.	Badaaward <sup>8,9,10,11,12</sup>	<i>Fagonia arabica</i> <sup>9,10,11,13,18</sup>	Shokat-ul-baiza <sup>8,9,10,11,12</sup> Dhamasa <sup>10,11,13,18</sup>	Whole plant <sup>10,13,18</sup>	Fixed oil(green) <sup>9</sup> , Salts <sup>9,10</sup> , Volatile oil <sup>10</sup>
5.	Shukai <sup>8,10,12,13,18</sup>	<i>Volutarella divericata</i> <sup>10,13,14,18</sup>	Hafiz-ul-ajsaad <sup>10</sup>	Whole shrub <sup>10,18</sup>	Volatile oil <sup>10</sup> , Salts <sup>10</sup> , Mucilage <sup>10</sup> , Cycloartenol <sup>14</sup>
6.	Afsanteen <sup>10,11,12,13,15,17,18</sup>	<i>Artemisia absinthium</i> <sup>11,13,14,15,17,18</sup>	Sitara <sup>10,12</sup> , Majri <sup>10,12</sup> , Naag ramni <sup>10,12</sup>	Leaves <sup>12</sup>	Volatile oil <sup>10,11,12,13,18</sup> , Absinthol <sup>19</sup> , Absinthin <sup>13,14,18</sup> , Iron <sup>11,12</sup> , Felodrine <sup>10</sup> , Vit-C <sup>10</sup> , Kaempferol <sup>14</sup> , Artanolide <sup>14</sup>
7.	Sinkona <sup>10,13,17</sup>	<i>Cinchona officinalis</i> <sup>10,13,14,17,18</sup>	Joddodak <sup>10</sup> , Kena kena <sup>10</sup>	Bark <sup>10,17,18</sup>	Cinchonine <sup>10,17,18</sup> , Cinchosine <sup>10</sup> , Quinine <sup>10,13,17,18</sup> , Hydroquinine <sup>10</sup> , Quinine acid <sup>10</sup> , Avicularin <sup>14,17,18</sup>
8.	Charaita <sup>8,9,10,11,12,13,15,16,18</sup>	<i>Swertia chirata</i> <sup>10,11,13,14,15,16,18</sup>	Qasbat-ul-zareerah <sup>9,10,12,15</sup> , Kali maig <sup>9,10,12</sup>	Whole plant <sup>11,13,15,16,18</sup>	Ophelic acid <sup>9,11,13,16,18</sup> , Glucoside <sup>9</sup> , Resin <sup>9,10</sup> , Pot.carbonate <sup>9,10,11</sup> , Pot. phosphate <sup>9,10</sup> , Magnesium <sup>9</sup> , Tannic acid <sup>9</sup> , NaCl <sup>9</sup> , Chiratin <sup>13,18</sup> , Swertanone <sup>14,16</sup> , Chiratol <sup>14,16</sup> , Kairatenol <sup>14,16</sup> , Pichierenol <sup>14,16</sup>
9.	Shahtara <sup>8,9,10,11,12,15,18</sup>	<i>Fumeria officinalis</i> <sup>11,13,14,18</sup>	Shahtaraj <sup>8,9,10,11,12,15</sup> , Pit papda <sup>8,9,11,13,15,18</sup>	Leaves <sup>11</sup> , Flowers <sup>11</sup>	Fumeric acid <sup>10,11,12,14</sup> , Fumerine <sup>10,11,12,13</sup> , Corydaline <sup>14</sup> ,

10.	Atees <sup>9,10,11,12,13,17,18</sup>	<i>Aconitum heterophyllum</i> <sup>9,10,11,13,14,17,18</sup>	Patees <sup>9,10,12,17,18</sup> , Shirangi <sup>9,10,12</sup>	Root <sup>9,10,11,13,16</sup>	Malic acid <sup>14</sup> , Cryptopine <sup>14</sup> Aconite acid <sup>9,10,11,12</sup> , Atisine <sup>9,10,11,12,13,14,17,18</sup> , Fixed oil <sup>10</sup> , Hetisine <sup>13,14,17</sup>
11.	Baranjasif <sup>8,9,10,11,12,17</sup>	<i>Artemisia vulgaris</i> <sup>10,11,13,14,17,18</sup>	Shavela <sup>8,9,10,12</sup> , Gomaad <sup>9,10</sup>	Whole plant <sup>11,13,17</sup>	Volatile oil <sup>9,10,13,17</sup> , Eunchiline <sup>10</sup> , Quebrachitol <sup>14,17</sup>
12.	Aalu bukhara <sup>8,9,10,11,12,13,16,18</sup>	<i>Prunus domestica</i> <sup>10,11,13,14,16,18</sup>	Ajjas <sup>8,9,10,11,12</sup> , Aalucha <sup>10,18</sup>	Fruit <sup>10,13,16,18</sup>	Protein <sup>9,10,11,12,16,18</sup> , Fat <sup>9,11,12,18</sup> , Sugar <sup>9,11,12,14,16,18</sup> , Calcium <sup>9,10,11,12,18</sup> , Phosphorus <sup>9,10,11,12,18</sup> , Vit-C <sup>10,18</sup> , Iron <sup>10,18</sup> , Fixed oil <sup>10</sup> , Isosakuranetin <sup>14,16</sup> , Prudomestin <sup>14,18</sup> , Naringenin <sup>14,16</sup>
13.	Imli <sup>8,9,10,11,12,13,15,16,18</sup>	<i>Tamaridus indica</i> <sup>9,10,11,13,15,16,18</sup>	Tamar hind <sup>8,9,10,11,12,15</sup> , Amlika <sup>9,10,12,13,16</sup>	Pulp <sup>9,10,11,12,15,16,18</sup> , Seeds <sup>9,10,11,12,15,16,18</sup> , Leaves <sup>9,15,16</sup>	Tartric acid <sup>9,10,11,12,18</sup> , Tartrate of Potassium <sup>9,10,11,12</sup> , Citric acid <sup>9,10,11,12,18</sup> , Oxalic acid <sup>13,18</sup> , Glucose <sup>9,11,12,14,18</sup> , Fixed oil <sup>9,18</sup> , Tamerindienal <sup>14</sup>
14.	Angoor <sup>8,9,11,12,13,15,16,18</sup>	<i>Vitis vinifera</i> <sup>11,13,14,15,16,18</sup>	Inab <sup>8,9,11,12,15</sup>	Fruit <sup>11,13,15,16,18</sup>	Carbohydrate <sup>9,18</sup> , Proteins <sup>9,18</sup> , Vit-A <sup>9</sup> , Vit-C <sup>9</sup> , Calcium <sup>9</sup> , Iron <sup>9</sup> , Tartric acid <sup>9,13,18</sup> , Resin <sup>9</sup> , Malic acid <sup>9,13,16,18</sup> , Acuminoside <sup>14</sup> , Zeatin <sup>14</sup> , Catechin <sup>14,16,18</sup> , Oxalic acid <sup>13</sup>
15.	Baboon <sup>8,9,10,11,12,13,15,18</sup>	<i>Maticaria chamomila</i> <sup>9,10,11,13,14,15,18</sup>	Baboonaj <sup>8,9,10,11,12</sup> , Marhi <sup>9,10,12</sup>	Root <sup>9,11,12,15</sup> , Flowers <sup>9,10,11,12,13,15,18</sup>	Azulene <sup>9,10</sup> , Anthemene <sup>9,10</sup> , Anthemenic acid <sup>9</sup> , Tensin <sup>9</sup> , Volatile oil <sup>10,11,18</sup> , Salicylic acid <sup>11,13</sup> , Apigenin <sup>11,13,14,18</sup> , Chamazulene <sup>13,14,18</sup>
16.	Arjun <sup>10,11,12,13,15,16,18</sup>	<i>Terminalia arjuna</i> <sup>10,11,13,14,15,16,18</sup>	Balrath <sup>10</sup> , Viru rkshak <sup>10</sup>	Bark <sup>10,11,12,13,15,16,18</sup>	Calcium carbonate <sup>10,11,12</sup> , Tannin <sup>10,11,12,13,14,18</sup> , Sodium <sup>10</sup> , Arjunolitin <sup>14</sup> , Arjunine <sup>13</sup> , Arjunetine <sup>13,14,16</sup>

17.	Braham dandi <sup>12</sup>	<i>Echinops echinatus</i> <sup>13,14,17</sup>	Lubh <sup>12</sup> , Tal kantu <sup>12</sup>	Every part of herb <sup>13,17</sup>	Berberine <sup>20</sup> , Protopine <sup>20</sup> , Taraxesterol <sup>14,17</sup> , Lupeol <sup>14,17</sup> , Beta-amyrin <sup>14,17</sup> , Apigenin <sup>14,17</sup> , Echinacin <sup>14,17</sup> , Echinatin <sup>14,17</sup>
18.	Aspaghoul <sup>8,9,10,11,12,13,15,18</sup>	<i>Plantago ovata</i> <sup>9,10,11,13,15,18</sup>	Bazar-e-qatoona <sup>8,9,10,11,12,15</sup> , Samogul <sup>9,12,15</sup>	Seeds <sup>9,10,12,13,15,18</sup> , husk <sup>9,10,12,15,18</sup>	Mucilage <sup>9,10,11,12,13,18</sup> , Fatty acid <sup>9,10,11,12,18</sup> , Albumin <sup>9</sup> , Cellulose <sup>10</sup> , Aucubin <sup>18</sup> , Lilonic acid <sup>21</sup>
19.	Ispand <sup>8,9,10,11,12,13,15</sup>	<i>Peganum harmala</i> <sup>9,10,11,13,14,15,16,18</sup>	Harmal <sup>8,9,10,11,12,13,15,16,18</sup> , Harmaru <sup>9,12,15</sup>	Seeds <sup>10,11,12,13,15,16,18</sup>	Harmin <sup>9,11,13,14,16,18</sup> , Harmalin <sup>9,11,12,13,16,18</sup> , Harmalol <sup>9,11,12,13,16,18</sup> , Fixed oil <sup>9,10</sup> , Tannin <sup>10</sup> , Peganine <sup>13,14,16</sup>
20.	Bhang <sup>8,9,10,11,12,13,17,18</sup>	<i>Cannabis sativa</i> <sup>10,11,13,14,17,18</sup>	Qinnab <sup>8,10,11,12</sup> , Falak sair <sup>9,11</sup> , Hasheesh <sup>9,10,12</sup> , Waraq-ul-khyal <sup>9,10,12</sup> , Shehdana <sup>11</sup>	Leaves <sup>11,17</sup> , Seeds <sup>17</sup> , Flowers <sup>17</sup>	Cannabinol <sup>9,10,11,12,13,14,17,18</sup> , Cannabol <sup>9,11,12,13,18</sup> , Canine <sup>9,10,11,12,13</sup> , Cannabediol <sup>9,10,11,12,13,14,17,18</sup> , Volatile oil <sup>9,11,12</sup> , Calcium carbonate <sup>9,10,11,12</sup>
13	Palak <sup>8,9,10,11,12,13,15,18</sup>	<i>Spinacia oleracea</i> <sup>10,11,13,14,15,18</sup>	Asfanakh <sup>8,9,10,11,12,18</sup> , Palam saag <sup>10,12</sup>	Seeds <sup>10,11,13,1,185</sup> , Saag <sup>11,12</sup>	Water <sup>9,18</sup> , Protein <sup>9,10,18</sup> , Carbohydrate <sup>9,10,18</sup> , Iodine <sup>13,18</sup> , Lecithin <sup>13,18</sup> , Carotin <sup>13,18</sup> , Calcium <sup>9,10,11,12,18</sup> , Phosphorus <sup>9,10,18</sup> , Iron <sup>9,10,11,12,18</sup> , Vit-A <sup>9,18</sup> , Vit-C <sup>9,10,18</sup> , Nitrates <sup>9,10,18</sup> , Sugar <sup>9</sup> , Rutin <sup>14,18</sup> , Hyperoside <sup>14</sup> , Astragalin <sup>14</sup>
22.	Parsiyaushan <sup>10,11,12</sup>	<i>Adiantum capillus</i> <sup>10,11,13,14,15,17,18</sup>	Hansraj <sup>10,11,12,13,15,17,18</sup> , Shar-ul-jinn <sup>10,11,15</sup>	Whole plant <sup>10,11,12,15,17,18</sup>	Nitrogen <sup>10</sup> , Carbon <sup>10</sup> , Calcium <sup>10</sup> , Magnesium <sup>10</sup> , Sulphur <sup>10</sup> , Salt <sup>10</sup> , Beta-sitosterol <sup>14</sup> , Stigmasterol <sup>14</sup> , Campesterol <sup>14</sup>
23.	Tarbooz <sup>8,10,11,12,13,15,18</sup>	<i>Citrullus vulgaris</i> <sup>10,11,13,14,15,17,18</sup>	Bittikh <sup>8,10,12</sup> , Hindudana <sup>8,10,12,15</sup> , Tarbaj <sup>10</sup>	Seeds <sup>10,12,13,15</sup>	Carbohydrate <sup>17,18</sup> , Sugar <sup>10,11,12,18</sup> , Fat <sup>11,12,17,18</sup> , Protein <sup>11,12,14,17,18</sup> , oil <sup>10,11,12,13,17</sup> , Pectin <sup>11,12,13,18</sup>

					Water <sup>10</sup> , Vit-A <sup>10,17,18</sup> , Vit-C <sup>10,17,18</sup> , Vit-B <sub>12</sub> <sup>10</sup>
24.	Chobchini <sup>9,10,11,12,13,18</sup>	<i>Smilex china</i> <sup>9,10,11,13,14,18</sup>	Khsab-ul-gheeni <sup>12</sup>	Root <sup>10,11,12,13</sup>	Sugar <sup>9,10</sup> , Glycosides <sup>9,10,14</sup> , Saponin <sup>9,10,11,12,13,18</sup> , Resin <sup>9,10,18</sup> , Starch <sup>9,10</sup> , Manganese <sup>10</sup> , Smilaxin <sup>14</sup>
25.	Khurfa <sup>8,9,11,12,13,15</sup>	<i>Portulaca oleracea</i> <sup>11,13,14,15,18</sup>	Rijla <sup>11</sup> , Kalfa <sup>9,13,15,18</sup> , Bazar-ul-hamqa <sup>12</sup>	Seeds <sup>11,12,13,15</sup> , Leaves <sup>11,15</sup>	Potassium oxalate <sup>9</sup> , Mucilage <sup>9,14</sup> , Protein <sup>11,12,18</sup> , Starch <sup>11,12</sup> , Calcium <sup>11,12,18</sup> , Magnesium <sup>11,12,18</sup> , Phosphorus <sup>11,12,18</sup> , Oxalic acid <sup>12</sup> , Copper <sup>11,12,18</sup> , Vit-A <sup>11,12,18</sup> , Vit-C <sup>11,12,18</sup>
26.	Rehan <sup>8,9,10,11</sup>	<i>Ocimum sanctum</i> <sup>9,11,13,14,15,18</sup>	Tulsi <sup>8,9,10,11,13,15,18</sup> , Faranjmushk <sup>10</sup> , Shahsafram <sup>8,9,10</sup>	Seeds <sup>11,13,15,18</sup> , Leaves <sup>11,13,15,18</sup>	Volatile oil <sup>9,10,11,13,18</sup> , Vit-C <sup>18</sup> , Ursolic acid <sup>14</sup> , Caryophyllene <sup>13,14</sup> , Eugenol <sup>13,14,18</sup> , Gallic acid <sup>14</sup> , Vanillic acid <sup>14</sup>
27.	Zarishk <sup>9,11,12</sup>	<i>Berberis vulgaris</i> <sup>9,11,13,14,16</sup>	Dar-e-hald(Bark) <sup>9,11,12</sup> , Rasaut(Extract) <sup>9,11,12</sup>	Fruit <sup>11,16</sup> , Bark <sup>11,13,16</sup>	Barberine <sup>11,12,13,14</sup> , Oxicantine <sup>11,12,13</sup> , Berbamine <sup>13,14,16</sup> , Yuziphine <sup>14</sup> , Palmatine <sup>14</sup> , Lambertine <sup>14</sup>
28.	Tabasheer <sup>8,10,11,12,13,15,16,18</sup>	<i>Bambusa arundinacea</i> <sup>10,11,13,14,15,16,18</sup>	Bansilochan <sup>8,10,11,12,13,18</sup> , Bans Kapoor <sup>10,12</sup>	White exudate <sup>11,12,13,15,16</sup>	Salicylic acid <sup>10</sup> , Iron peroxide <sup>10,11,12</sup> , Potash <sup>10,11,12</sup> , Lime <sup>10,11,12</sup> , Cholin <sup>13,18</sup> , Betain <sup>13</sup> , Aluminium <sup>10,11,12</sup> , Allantoin <sup>14</sup> , Fucosterol <sup>14</sup>
29.	Ushba <sup>10,11,12</sup>	<i>Smilex ornata</i> <sup>10,11</sup>	Anant mol <sup>10</sup> , Saar <sup>10</sup> , Sapreela <sup>10</sup>	Root <sup>12</sup> , Branches <sup>12</sup>	Syncotenic acid, Starch <sup>11,12</sup> , Volatile oil <sup>10,11,12</sup> , Sterol <sup>10</sup>
30.	Unnab <sup>11,12,13,18</sup>	<i>Zizyphus vulgaris</i> <sup>11,13,14,18</sup>	Salana	Fruit <sup>12,13,18</sup>	Mucilage <sup>13</sup> , Sugar <sup>18</sup> , Tannin <sup>18</sup> , Carbohydrate <sup>18</sup> , Zizyberanalic acid <sup>14</sup> , Sanjoinine <sup>14</sup>
31.	Ghafis <sup>8,10,11,12</sup>	<i>Agrimonia eupatoria</i> <sup>10,11,18</sup>	Shajar-e-qahra <sup>10</sup> , Ghais shoka <sup>10,12</sup>	Flower <sup>11,12</sup>	Tannin <sup>10,18</sup> , Mucilage <sup>10</sup> , Volatile oil <sup>10</sup> , Vit-K <sup>18</sup>

32.	Kafoor <sup>8,9,10,11,12</sup>	<i>Cinnamomum camphora</i> <sup>11,13,18</sup>	Kapoor <sup>8,9,10,12,18</sup> , Nishapati <sup>10</sup>	Gum <sup>11,12</sup>	Volatile oil <sup>10,11,12,13</sup>
33.	Kutki <sup>9,10,11,12,13,15,18</sup>	<i>Picrorhiza kurroa</i> <sup>9,11,13,14,15,18</sup>	Mekha kadi <sup>10</sup> , Kateeli <sup>10</sup>	Branches <sup>10,12</sup>	Danalic acid <sup>11,12</sup> , Picrorhizin <sup>11,12,13,18</sup> , kurine <sup>11,12,13,14,18</sup> , Cathartic acid, 6-Feruloylcatalpol <sup>14</sup> , Veronicoside <sup>14</sup> , Minecoside <sup>14</sup> , Picein <sup>14</sup> , Androsin <sup>14</sup> , Catalpol <sup>14</sup>
34.	Kasaundi <sup>8,9,10,11,12,13,15,16,17</sup>	<i>Cassia occidentalis</i> <sup>10,11,13,15,16,17,18</sup>	Talwar phali <sup>9,10,12</sup> , Kashaund <sup>10,12</sup>	Seeds <sup>10,11,13,15,16,17,18</sup>	Cathartin <sup>9</sup> , Salts <sup>9,10</sup> , Achrosine <sup>9</sup> , Olein <sup>9</sup> , Crisophenic acid <sup>9,10,11</sup> , Sugar <sup>9,11,12,17</sup> , Resin <sup>9,11,12</sup> , Starch <sup>9,11,12</sup> , Calcium sulphate <sup>9,11,12</sup> , Magnesium sulphide <sup>9,11,12</sup> , Iron <sup>9,11,12</sup>
35.	Hazardana <sup>11,13</sup>	<i>Euphorbia hypericifolia</i> <sup>11,13,14,17</sup>	-----	Seeds <sup>11</sup>	Phenol <sup>13</sup> , Essential Oil <sup>13</sup> , Glycoside <sup>13</sup> , Quercitrin <sup>14</sup> , Quercetin <sup>14</sup> , Kempferol <sup>14</sup>
36.	Aftimoon <sup>8,9,10,11,12,17</sup>	<i>Cuscuta reflexa</i> <sup>11,13,14,15,16,17</sup>	Shaar-uz-zabeeha <sup>10,15</sup> , Pechaan <sup>10,12</sup> , Aakash bel <sup>8,9,10,12,15,16,17</sup> , Amar lata <sup>9,10,12,17</sup>	Seeds <sup>11,12,13,15,16,17</sup> , Branches <sup>11,12,13,15,16,17</sup>	Cuscutin <sup>9,10,13,16,17</sup> , Bevercetin <sup>10</sup> , Resin <sup>9</sup> , Maragenin I <sup>14</sup> , Scoparone <sup>14,17</sup> , Melanettin <sup>14,17</sup> , Quercetin <sup>9,14,16,17</sup> , Hyperoside <sup>14,17</sup>
37.	Bathuwa <sup>8,11,12,15,17,18</sup>	<i>Chenopodium album</i> <sup>11,13,14,15,17,18</sup>	Qataf <sup>8,12</sup> , Sarmaq <sup>12</sup>	Seeds <sup>12</sup> , Saag <sup>12,15</sup>	Vit-C <sup>11,13</sup> , Carotine <sup>11,13,17</sup> , Volatile oil <sup>11,13</sup> , Iron <sup>17</sup> , Saponins <sup>14,17</sup> , Criptomeridiol <sup>14,17</sup> , Phenolic amide <sup>14</sup>
38.	Bachhnaak <sup>8,10,11,12</sup>	<i>Aconitum napellus</i> <sup>10,11,13,14,18</sup>	Beesh <sup>8,10,11,12</sup> , Meetha telia <sup>10,11,12</sup>	Root <sup>10,11,12</sup>	Aconitine <sup>10,11,13,14,18</sup> , Pseudoaconitines <sup>22</sup> , Napelline <sup>23</sup> , Acotine <sup>11</sup> , Aconitic acid <sup>23</sup> , Benziacotin <sup>11</sup>

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