# Indigenous knowledge of Ethnic Bugis Pagatan in using of medicinal plants, South Kalimantan, Indonesia

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## RESEARCH PAPER

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# Indigenous knowledge of Ethnic Bugis Pagatan in using of medicinal plants, South Kalimantan, Indonesia

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### Abstract

Based on field observations, ethnic Bugis Pagatan has been using medicinal herbs for health and other uses for the past. Society generally derives knowledge from oral tradition. Until now, data and information on utilization based on local wisdom is not yet available and well documented. This raises concerns about the extinction of traditional knowledge in the utilization of plants. This research was conducted on Bugis Pagatan community in Kusan Hilir Subdistrict, Tanah Bumbu Regency. The objectives of the study were to (1) identify the types of medicinal plants utilized by the ethnic Bugis Pagatan and (2) to identify 5 (five) types of medicinal plants utilized by the Bugis Pagatan community based on local wisdom. Data collection is done by interviewing the local community of Bugis Pagatan ethnic who know the benefits of plants as a medicine. The technique of selecting the informant as the research sample used in this research phase is by purposive sampling and snowball sampling method. Interviews aimed at traditional healers (sanro). Each medicinal plant is recorded in its local name, the part used, and how it is used and its use. This study obtained 49 (forty nine) kinds of medicinal plants used by the community, and 5 (five) types of medicinal plants based on local wisdom ie (1) Aju Jawa (Lannea coromandelica Linn.), (2) Allere (Ipomoea pes-caprae Sweet.), (3) Bujolo (Scaevola taccada (Gaertn.) Roxb.), (4) Paranga (Avicenia marina (Forssk.) Vierh.) And (5) Tawaro (Metroxylon sagu Rottb.).

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### Introduction

Medicinal plants have thousands of species. In total about 40,000 types of medicinal herbs that have been known in the world, 30,000 of them allegedly reside in Indonesia. The amount represents 90% of medicinal plants contained in the Asian region. Of these, 25% of them or about 7,500 species are known to have Herbsl or medicinal properties. However, only 1,200 species of plants have been used for raw materials of Herbsl medicines or herbs (PT Sido Muncul, 2015 in Salim & Mudani, 2017).

Apart from the rich diversity of these plants, Indonesia is also rich in tribal and cultural diversity.Na'im, A dan Syaputra, H. (2010) said Indonesia has 1,340 tribes spread from Sabang to Merauke. Each tribe has a different repertoire. Each tribe contains a wealth of local wisdom, including the use of plants for traditional medicine. The cultural tradition of using Herbsl medicine and traditional medicine is reflected in the use of medicinal plants in various ethnic groups in Indonesia. The ethnic uses of medicinal plants for the benefit of traditional medicine. They have different knowledge about traditional medicine, including knowledge of medicinal plants. One of the differences can be seen from the different herbs used for the same treatment.

The diversity of knowledge possessed by these ethnic groups is the cultural richness of the Indonesian nation which must be maintained to be developed. The first step to develop it is by documenting knowledge about the use of medicinal plants in various regions in Indonesia. Base on the knowledge they gain from experience and observation of their develop environment. they also various traditional/local wisdom. The norms that govern human behavior in interacting with their environment, coupled with their traditional wisdom, are environmental ethics that guide human behavior in managing their environment. One of the interesting groups to be studied in this research is the ethnic Bugis Pagatan in Tanah Bumbu District. Based on field observations, Bugis Pagatan community has been using medicinal herbs for health and other uses for the past.

Until now, data and information on utilization based on local wisdom is not yet available and well documented. Society generally derives knowledge from the oral tradition. This raises concerns about the extinction of traditional knowledge in the utilization of plants. Some species of medicinal plants are efficacious based on local wisdom is very valuable. Until now, data and information about the knowledge of the use of medicinal plants based on local wisdom is not yet available and documented. Based on this, it is very important to be able to dig up information and identify how the knowledge of the use of medicinal plants in local communities Bugis Pagatan ethnic mainly to plants based on local wisdom. The information obtained is expected to be used as information, inputs and considerations in decision making and conservation efforts of medicinal plants in the region in the future.

### Materials and methods

### Materials

The tools used in this study consist of questionnaires (questionnaires), stationery, digital cameras, GPS, tally sheets, machetes, and computers for data processing. The object of research is the community of Bugis Pagatan ethnic and plants that are used as medicine in Bugis Pagatan community, Kusan Hilir subdistrict, Tanah Bumbu regency.

### Methods

Data collection is done by interviewing the local community of Bugis Pagatan ethnic who know the benefits of plants as a medicine. The technique of selecting the informant as the research sample used in this research phase is by purposive sampling and snowball sampling method (Sugiyono, 2007). Interviews aimed at traditional or sanro in Bugis Pagatan language. Each medicinal plant is recorded in its local name, the part used, and how it is used and its use. Research and data processing is done within 3 (three) months. Data obtained on all plants used as medicine in Bugis Pagatan community then determined as many as 5 (five) types of plants based on local wisdom. Furthermore, the data obtained in the field is presented in tabulation form. Data analysis was done descriptively according to the purpose of the study (Hamzari, 2008).

## Results & discussion

The area inhabited by Bugis Pagatan people in addition to settling in Pagatan Village, also includes those who live in the villages located on the beach. This indicates that indeed the term "Pagatan" behind the term 'Bugis' does not refer to the current Pagatan Village area, but refers specifically to the area of the former Pagatan Kingdom, which is the coastal region (Akhmar et al., 2017). The knowledge of medicinal plants was obtained from interviews with traditional healers or shaman of ethnic Bugis Pagatan, known as 'Sanro'. Sanro in this society is divided: (1) Sanro Mabura-bura is a traditional healer; (2) Sanro Mimm mana' shaman giving birth; (3) Sanro Pakkadudu is a shaman massage, and (4) Sanro tasiq is a mappenretation shaman (beach party). Based on the information obtained, sanro who knows about medicinal plants is sanro mabura-bura, sanro mimm mana' and sanro pakkadudu. But in this study, the three informants are all sanro mabura-bura. Characteristics of informants ethnic Bugis Pagatan are seen in Table 1.

Table 1. Characteristics of Informants Ethnic Bugis Pagatan.

| No. | Informants | Sanro1    | Sanro2   | Sanro3     |
|-----|------------|-----------|----------|------------|
| 1   | Name       | Pangka    | Nurdin   | Murdani    |
| 2   | Gender     | Woman     | Man      | Man        |
| 3   | Age        | 78 years  | 47 years | 75 years   |
| 4   | Education  |           | High     | Elementary |
|     |            | -         | School   | School     |
| 5   | Village    | Wirittasi | Betung   | Pejala     |
| 6   | Ethnic     | Bugis     | Bugis    | Bugis      |
| 0   |            | Pagatan   | Pagatan  | Pagatan    |

Based on the results of interviews, plants used as medicines as many as 49 species of plants coming from the forest and the surrounding environment. Plants utilized as medicine based on sanro information are seen in Table 2.

Table 2. Plants Utilized as Drugs by ethnic Bugis Pagatan.

| No | Local Name /<br>Indonesia<br>Name | Latin Name                       | Habitus | Section use | Benefits   | How to Use   | Cultivation<br>Status | Place to<br>Grow |
|----|-----------------------------------|----------------------------------|---------|-------------|--|--|-----------------------|------------------|
| 1  | Aju Jawa/Kayu<br>Jawa             | Lannea<br>coromandelica<br>Linn. | Pohon   | Stem bark   | Treatment of<br>all internal<br>diseases   | Boiled, drunk  | Cultivation           | SJ               |
| 2  | Aladi/Keladi                      | Colocasiae<br>sculenta Schoot    | Herbs   | Tubers      | Diabetes   | Boiled, drunk  | Cultivation           | K                |
| 3  | Allere/,<br>Katang-katang         | Ipomoea pes-<br>caprae           | Bush    | Leaf        | Skin stung by<br>jellyfish   | Shoots<br>kneaded,<br>smeared  | Non<br>Cultivation    | Н                |
| 4  | Baka, Etnisn                      | Artocarpus communis              | Pohon   | Root        | Malo'ilaleng<br>(Deep<br>wound)  | Boiled, drunk  | Cultivation           | K                |
| 5  | Bampeng/Bam<br>bu                 | Calamus sp                       | Bush    | Root        | Lumbago  | Boiled, drunk  | Non<br>Cultivation    | Н                |
| 6  | Binahong                          | Basselaru<br>bralinn             | Herbs   | Leaf        | Cholesterol  | Boiled, drunk  | Cultivation           | K                |
| 7  | Bingkudu/<br>Mingkudu             | Morinda<br>citrifoliaL.          | Tree    | Fruit       | Lua dara<br>(Coughing up<br>blood),<br>cholesterol,<br>uric acid, high<br>blood<br>pressure, lack<br>of appetite,<br>vomiting<br>(tetalua) | nDrinking grated<br>water  | d<br>Cultivation      | P                |
| 8  | Bujolo/Beruwa<br>s Laut           | Scaevola taccada                 | Herbs   | Seed        | Mata rabun,<br>infeksi   | Water from the<br>ripe seed (white<br>color) directly<br>dripped into<br>the eye |                       | Н                |
| 9  | Bunga                             | Hibiscus rosa-                   | Herbs   | Root        | Coughing up  |  | Cultivation           | P                |

| No | Local Name /<br>Indonesia<br>Name  | Latin Name                          | Habitus | Section use    | Benefits  | How to Use                                 | Cultivation<br>Status | Place to<br>Grow |
|----|------------------------------------|-------------------------------------|---------|----------------|---|--|-----------------------|------------------|
|    | sapatu,/Kemba<br>ng Sepatu         | sinensis L.                         |         |                | blood   |  |                       |                  |
| 10 | Cangkuk<br>manis/katuk             | Sauropu<br>sandrogynus              | Shrubs  | Leaf           | Streamline<br>breast milk<br>Peddeseng/           | Boiled, made<br>vegetable                  | Cultivation           | P                |
| 11 | Daung ungu                         | Graptophyllum<br>pictum             | Shrubs  | Leaf           |   | Boiled, drunk                              | Cultivation           | K                |
| 12 | Daung<br>landrang                  | -                                   | Herbs   | Leaf           | Urelolo<br>(rheumatism)                           | Boiled, drunk                              | Non<br>Cultivation    | SJ               |
| 13 | Gayam                              | Inocarpus fagifer                   | Tree    | Stem bark      | Diabetes  | Boiled, drunk                              | Non<br>Cultivation    | SJ               |
| 14 | Ilalang/<br>Alang-alang            | Imperata<br>cylindrical<br>Raeusch. | Grass   | Root           | cholesterol                                       | Boiled, drunk                              | Non<br>Cultivation    | SJ               |
| 15 | Jampu<br>paturukala/<br>Jambu Seed | Psidium guajava                     | Tree    | Shoots         | jambang-<br>jambang<br>(diarrhea)                 | Refined, drunk                             | Cultivation           | P                |
| 16 | Jampu Sereng/<br>Jarnbu Mete       | Anacnrdiun<br>zoccidentale          | Tree    | Stem bark      | Collongpello<br>(Hemorrhoid)<br>makate<br>(Itchy) |  | Cultivation           | K                |
| 17 | Kadondong/<br>Kedondong            | Spondias dulcis                     | Tree    | Fruit          | Drug wounds<br>diabetes                           | Shredded<br>wounded<br>around the<br>wound | Cultivation           | P                |
| 18 | Kajulare/<br>kangkung              | Ipomoea<br>aquaticaForsk            | Herbs   | Leaf and Bark  | Low blood<br>pressure                             | Vegetable                                  | Cultivation           | K                |
| 19 | Kaliki/Pepaya                      | Carica papaya L.                    | Tree    | Leaf           | malaria   | Boiled, drunk                              | Cultivation           | K                |
| 20 | Kelapa                             | Cocos nucifera                      | Tree    | Oil from Fruit | gray hair   | Direbus sampai<br>berminyak                | i Non<br>Cultivation  | SJ               |
| 21 | Karamunting                        | Ochthocharis<br>bornensis Bl.       | Bush    | Leaf           | diabetes  | Boiled, drunk                              | Non<br>Cultivation    | Н                |
| 22 | Galingkang/<br>gulinggang          | Senna alata L                       | Shrubs  | Sap and Leaf   | Drugs for skin                                    | The sap is<br>immediately<br>digested      | Non<br>Cultivation    | SJ               |
| 23 | Katapang/Keta<br>pang              | Teminalia<br>catappa                | Tree    | Stem bark      | Medication<br>after<br>childbirth                 | Boiled, drunk                              | Non<br>Cultivation    | Н                |
| 24 | Kiloro/kelor                       | Moringa Oleifera                    | Tree    | Leaf           | Blood booster                                     | Boiled made<br>vegetables                  | Cultivation           | K                |
| 25 | Kumis kucing                       | Orthosiphon<br>aristatus Benth.     | Herbs   | Leaf           | Streamline<br>urine                               | Boiled, drunk                              | Cultivation           | P                |
| 26 | Tagalolo<br>/Awar-awar             | Ficus septica                       | Tree    | Leaf           | Boro, Swollen                                     | Refined,<br>smeared                        | Cultivation           | P                |
| 27 | Luntas/<br>Beluntas                | Pluchea indica L.<br>Less           | Bush    | Leaf           | High blood<br>pressure                            | Boiled, drunk                              | Cultivation           | P                |
| 28 | Meniran                            | Phyllanthusurin<br>aria             | Herbs   | Leaf           | Bladder<br>stones<br>Facilitate                   | Boiled, drunk                              | Non<br>Cultivation    | K                |
| 29 | Nipa/Nipah                         | Nypa fruticans<br>Wurmb             | Tree    | Fruit          | digestion,<br>fever, thrush,<br>asthma<br>(poso)  | be eaten                                   | Non<br>Cultivation    | Н                |
| 30 | Onyi tedong/<br>temulawak          | Curcuma<br>xanthorrhiza             | Herbs   | Tubers         | Skin<br>smoothing                                 | Refined,<br>smeared                        | Cultivation           | P                |
| 31 | Onyi lotong/<br>temuireng          | Curcuma<br>aeruginosa<br>Roxb.      | Herbs   | Tubers         | Internal<br>medicine                              | Refined,<br>smeared                        | Cultivation           | P                |
| 32 | Ota/Sirih                          | Piper betle L.                      | Herbs   | Leaf           | Postpartum care                                   | Boiled, drunk                              | Cultivation           | P                |
| 33 | Pamadeng                           | -                                   | Herbs   | Leaf           | High blood<br>pressure                            | Boiled                                     | Non<br>Cultivation    | SJ               |
| 34 | Pannodara/                         | Alpinia galanga                     | Herbs   | Leaf, Tubers   | Anthelmintic                                      | Refined, drunk                             | Cultivation           | K                |

| No | Local Name /<br>Indonesia<br>Name                    | Latin Name                          | Habitus | Section use                      | Benefits   | How to Use          | Cultivation<br>Status | Place to<br>Grow |
|----|--|-------------------------------------|---------|----------------------------------|--|---------------------|-----------------------|------------------|
| 35 | Lengkuas<br>Panreng/<br>Pandan                       | Pandanus<br>amaryllifolius<br>Roxb. | Herbs   | Leaf                             | Postpartum<br>care   | Leaf                | Cultivation           | K                |
| 36 | Paranga/<br>Api-api                                  | Avicenia marina                     | Tree    | Sap Leaf,<br>Leaf, Resin<br>bark | Drugs Dental<br>pain, fever,<br>cleansing the<br>uterus, birth<br>control cure | smeared             | Non<br>Cultivation    | Н                |
| 37 | Pesajang   | -                                   | Herbs   | Leaf                             | The ulcer<br>drug  | Boiled, drunk       | Non<br>Cultivation    | P                |
| 38 | Pude/Nyamplu<br>ng,bintangur                         | Calophyllum<br>inophyllum           | Tree    | Leaf, Sap                        | Pari toxic<br>drugs  | Boiled /<br>smeared | Non<br>Cultivation    | Н                |
| 39 | Ruku-ruku  | Ocimum<br>tenuiflorum               | Herbs   | Leaf                             | High blood<br>pressure   | Boiled, drunk       | Non<br>Cultivation    | P                |
| 40 | Sapat  | Macaranga<br>triloba                | Tree    | Leaf                             | Diabetes,<br>diabetes,<br>cholesterol  | Boiled, drunk       | Non<br>Cultivation    | Н                |
| 41 | Sarikaja/Sirsak                                      | Annona<br>muricata L                | Tree    | Leaf                             | High blood<br>pressure   | Boiled, drunk       | Cultivation           | K                |
| 42 | Sere<br>wangi/Sereh<br>Wangi                         | Cymbopogonnar<br>dus L              | Herbs   | Root, Bark                       | Smell of<br>sweat, fever   | Boiled, drunk       | Cultivation           | K                |
| 43 | Seruga   | -                                   | Herbs   | Leaf                             | Hot fever  | Boiled, drunk       | Cultivation           | P                |
| 44 | Tampak<br>lorong/<br>penawar<br>sampai,<br>Brotowali | Tinospora Crispa<br>L.              | Herbs   | Bark                             | Medicine<br>worms,<br>diabetes, high<br>blood                                  | Boiled, drunk       | Cultivation           | P                |
| 45 | Tatau  | -                                   | Tree    | Stem bark                        | Diarrhea   | Boiled, drunk       | Non<br>Cultivation    | SJ               |
| 46 | Tawak-tawak<br>bembe,<br>Tambora                     | Duabanga<br>moluccana               | Rumput  | Leaf dan Bark                    | Deep wounds<br>(intestines,<br>ulcers)   | Boiled, drunk       | Non<br>Cultivation    | SJ               |
| 47 | Tawaro/<br>RTubersa                                  | Metroxylon sagu                     | Tree    | Root                             | Jambang<br>dara(Dysente<br>ry), cancer   | Boiled, drunk       | Non<br>Cultivation    | Н                |
| 48 | Tebulotong/<br>Tebu Hitam                            | Saccharum<br>officinarum L          | Rumput  | Root                             | Vomiting<br>blood  | Soaked, drunk       | Cultivation           | K                |
| 49 | Tolasi/Selasih                                       | Ocinum<br>Bassilum L.               | Herbs   | Seed                             | <i>Pellalaleng</i> ,<br>Panas dalam  | Soaked, drunk       | Cultivation           | K                |

Description: H: Forests, P: Grounds K: Gardens, SJ: Around the Road.

The difficulty experienced during interviews with informants is the existence of language barriers. Two informants are elders Bugis Pagatan ethnic who can only speak Bugis, cannot use Indonesian or Banjar Language. The language barrier that occurred during the interview was overcome with the help of the immediate family and neighboring informant as a language translator. The information obtained from sanro is that the commonly used herbs of sanro have also been widely used by the general public such as Leafg ota (Piper betle), panreng (Pandanus amaryllifolius), and Leafg sarikaja (Annona squamosa leaves).

If when patients who seek treatment at home sanro not get the supply of medicinal plants especially taken from outside Pagatan area, then patients prefer sanro using spells or water bidders. In addition to using water bidders and plants, usually the treatment also uses prayers (reading the holy verses of the Qur'an), sometimes even accompanied by objects such as needles or pins. Syuhudi (2015) in his research also states sanro treat medical treatment (medical) and nonmedic (due to the disturbance of spirits, in the form of jinns and demons) in the traditional way, in the form of prayers derived from the Qur'an, water that was given jampi, plants and pressing the nerve points on the body by using supernatural powers. One of the ways to retain patients, shamans apply several cultural strategies, including forming a social network. This social network is formed by patients, patient friends, and patient families, as well as friends of shamans and families of shamans. Traditional medicine needs to be preserved and is a local wisdom.

The forty-nine types of medicinal plants obtained from interviews, then determined as many as 5 (five) types of plants based on local wisdom. Things to be considered in determining 5 (five) types of plants based on local wisdom, namely: (a) derived from plants most widely used as a drug based on local wisdom; (b) fulfill representativeness in the characteristics of medicinal plant habitat of ethnic Bugis Pagatan; (c) having sufficient quantities of plants for the purpose of taking the test sample; and (d) are included in the conservation priority scale, among others: the utilized parts are stems and roots or parts that can kill plants, have an annual life cycle and/or depend on the presence of other species, have a clustered distribution so as to be susceptible to disturbance (Zuhud, EAM and Wisdom, A. 2009). Five types of plants are presented in Table 3.

Table 3. Five Types of Medicines Plants Ethnic Bugis Pagatan Based on Local Wisdom.

| No | Local<br>Name | Latin Name                           | Section use |
|----|---------------|--------------------------------------|-------------|
| 1  | Aju Jawa      | Lannea<br>coromandelica Linn.        | Stem bark   |
| 2  | Allere        | Ipomoea pes-caprae<br>Sweet.         | Leaf        |
| 3  | Bujolo        | Scaevola<br>taccada(Gaertn.) Roxb.   | Seed        |
| 4  | Paranga       | Avicennia marina<br>(Forssk.) Vierh. | Leaf        |
| 5  | Tawaro        | Metroxylon sagu Rottb.               | Root        |

Description 5 (five) types of plants based on local wisdom are described as follows

1. (a) Indonesia Name: Kayu Kuda; Local Name: Aju jawa; Famili: Anarcadiaceae;

Latin Name: Lannea coromandelica Linn.

(b) Usefulness and usage: Internal disease (diabetes, cancer, cholesterol);

Drinking water stem bark

(c) Important information: L.coromandelica is not a native plant in the Kusan

Hilir area, but is brought from Sulawesi and planted in the coastal area of Pagatan. L. coromandelica in Bugis Pagatan community is usually planted according to its utilization that is as border of cattle livestock enclosure, house, or land.

- 2. (a) Indonesia Name: Tapak Kuda, Katang-katang; Local Name: Allere; Famili: Convolvulaceae; Latin Name: Ipomea pes-caprae
- (b) Usefulness and usage: Skin affected by jellyfish stings; Leaf squeezed, smeared.
- (c) Important information: Ethnic Bugis Pagatan resides in Pagatan Coastal, with some communities livelihood as fishermen.I. pes-caprae from Ethnic Bugis Pagatan besides used for the medicine is also used as a rope to tie the results of fishermen
- 3. (a) Indonesia Name: Beruwas Laut; Local Name: Bujolo; Famili: Goodeniaceae; Latin Name: Scaevola taccada (Gaertn.)
- (b) Usefulness and usage: Eye health, myopia; The liquid from the seeds that have been cooked (white) directly diteteskan to the eye.
- (c) Important information: Sanro who has been using this plant routine to prove the goodness of his vision when reading small text.
- 4. (a) Indonesia Name: Api-api; Local Name: Paranga; Famili: Verbenaceae; Latin Name: A. marina (Forssk.) Vierh.
- (b) Usefulness and usage: Tooth ache; The leaf bud sap is dropped directly onto the sore tooth.
- (c) Important information: Its vegetation is found clustered with a solid sand dune and is one of the pioneering communities of mangrove forests (Mackinnon et al., 2000).
- 5. (a) Indonesia Name: Sagu; Local Name: Tawaro; Famili: Arecaceae; Latin Name: Metroxylon sagu Rottb.
- (b) Usefulness and usage: Dysentery; Root is boiled, then the water is drunk.
- (c) Important information: Tawaro (M. sagu), the sticks are used for cooking. Sago in Borneo may

originate from the islands of Irian and Maluku but have been cultivated or grown half wild in freshwater swamps along the coast of Borneo (Flach, 1983 in Mackinnon et al., 2000). Natural sago stands are found in freshwater swamps whose soils comprise over 70% clay and 30% organic matter. In Kalimantan, sago in addition to food substitute for rice, residents also use sago starch as duck food. (Flach, 1983 ini Mackinnon et al., 2000). The Fig. 1. shows the parts of the plant used as a medicine.

Naming plants on the Bugis Pagatan Ethnic there was a similarity with the name of the plant origin Sulawesi region. This is known after an interview with sanro. The similarities, among others, Beruwas Laut (S. taccada) named Bujolo by Bugis Pagatan Ethnic was found on Wawonii Island, Southeast Sulawesi was found under the name Buntolo (Rahayu, et al., 2006). Kayu Jawa (L. coromandelica) is named Aju jawa from ethnic Bugis Pagatan as well as in the region of Sulawesi (Cahyani, 2017). Tapak kuda (I. pes-caprae) is named allere by Ethnic Bugis Pagatan and named after lalere by Bugis Sulawesi).

Utilization of medicinal herbs in addition to the treatment of diseases as well as for health care. This is in line with the research conducted by Radam et al. (2016) of plant species utilized in medicinal treatment in Tanah Bumbu District, South Kalimantan stated that 18 (eighteen) plant species were exploited by the coastal Banjar for treatment, 11 (eleven) species by Bugis ethnic and 14 (fourteen) species by Ethnic Dayak. The knowledge of medicinal plants obtained on the Bugis Pagatan ethnic is expected to be informed back to other communities in order to remain documented and still be utilized even though public health facilities already exist. The knowledge they gain is information passed down from their parents. It is still preserved until now. The use of medicines from plants is expected to remain the choice of Bugis Pagatan community.

# Conclusion

Traditional healers Bugis Pagatan ethnic is known as 'Sanro'. This research produces 49 (forty nine) kinds of medicinal plants used by Bugis Pagatan ethnic community.

In addition, there are 5 (five) types of medicinal plants based on local wisdom that is (1) Aju jawa (Lannea coromandelica Linn.), (2) Allere (Ipomoea pes-caprae Sweet.), (3) Bujolo (Scaevola taccada (Gaertn.) Roxb.), (4) Paranga (Avicenia marina (Forssk.) Vierh.) and (5) Tawaro (Metroxylon sagu Rottb.).

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