

BIBLIOGRAPHY OF PAREIRA

NATIONAL FORMULARY V

By

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GRADUATE IN PHARMACY

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Margrave, G.

1648.

(Caapeba Brafilienfibus)

Guilielmi Pisonis de medicina brasiliensi libri 4, et Georgii Marcgravii historiae rerum naturalium Brasiliae libri 8, Brasil, p. 25. (Am. Jour. Pharm., 8, p. 193; Linne, Species Plant., 1 ed., v. 2, p. 1031; Sloane, Catalogus Plant., etc., p. 85; Good, Family Flora, etc., v. 2, to. 93.)

(Caapeba is a synonym of Pareira Brava, being the native name used by the Brazilians. The drug is used in certain diseases of the bowels and urinary passage.)

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Piso, W.

1648.

(Caapeba)

de medicina brasiliensi libri 4, et Georgii Marcgravii historiae rerum naturalium Brasiliae libri 8, p. 94 et 26. (Am. Jour. Pharm., 8, p. 193; Ibid., 45, p. 449; Flückiger & Hanbury, Pharmacographia, 1 & 2 ed., p. 26; Neues Jahrbuch für Pharm., 31, p. 257; Berl. Jahrb. d. Pharm., 23, p. 79; Gobel & Kunze, Pharm. Waarenkunde, v. 2, p. 83, tab. 13; Linne, Species Plant., 1 ed., v. 2, p. 1031; Sloane, Catalogus Plantarum, p. 85; Good, Family Flora, etc., v. 2, t. 93; Pereira, J., The Elements of Materia Medica, etc., 2 ed., v. 2, p. 1791.)

(Includes Caapeba in its synonyma of Pareira Brava, which was the native name given to it by the Brazilians.)

Flückiger & Hanbury in their Pharmacographia, state that a species of Cissampelos called by the Portuguese Caapeba, described by Piso in 1648, afterwards became associated with Pareira Brava.)

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Piso, W.

1658.

Caapéba.

de Indae Utriusque re Naturali Et Medica libri quatuordecim, quorum contenta pagina sequens exhibet, pp. 261 & 312. (Am. Jour. Pharm., 8, p. 193; Sloane, Catalogus Plant., p. 85.)

Gives a description and illustration of the above named plant.

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Zanoni, G.

1675.

(Butua vel Brutua)

Istoria Botanica di Giacomo Zanoni, etc., 59, fig. 22. (Flückiger & Hanbury, Pharmacographia, 1 & 2 ed., p. 26; Neumann, Chymiae Med., v. 2, pt. 3, p. 491.)

The original was not available.

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Ray, J. R.

1688.

(Convolvulus Brasilianus, etc.)

Historia plantarum, etc., v. 2, p. 1331. (Am. Jour. Pharm., 8, p. 193; Berl. Jahrb. d. Pharm., 23, p. 81; Linne. Species Plant., 1 ed., v. 2, p. 1031; Sloane, Catalogus Plant., etc., p. 85.)

The original was not available.

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Rheede tot Draskestein, H. A.

1692.

(Cissameplos pareira.)

Hortus indicus malabaricus, etc., v. 7, t. 62. (Index Londinensis, v. 2, p. 215.)

The original was not available.

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Plumier, C.

1693.

(Clematis baccifera, etc.)

Description des plantes de L' Amerique, fig. 93, fil. t. 183, p. 78. (Nova Plant., Gen., p. 33; Neumann, Chymiae Medicae, v. 2, pt. 3., p. 491; Woodville, Medic. Bot., 2 ed., v. 1, p. 167; Linne, Species Plant., 1 ed., v. 2, p. 1031; Linne,

Materia Medica, 2 ed., p. 218; Sloane, Catalogus Plant., etc., p. 85; Persoon, C. H., Synopsis plant., etc., v. 2, p. 633.)

The original was not available.

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Pomet, P.

1695.

Du Pareira Brava

Histoire Generale des Drogues, p. 69. (Flückiger & Hanbury, Pharmacographia, 1 & 2 ed., p. 26; Pharm. Jour., 33, p. 81; Ibid., 46, p. 219; Hanbury, Sci. Papers, p. 385; Jour. de pharm. et de chimie, 101, p. 284; Am. Jour. Pharm., 45, p. 451.)

Cut of the root given on p. 68 and a description on p. 69. ("The first author to give an account in print of Pareira Brava seems to be Pomet. He describes the drugs as then recently seen in Paris, and he figures the specimen given him by Tournefort." Pharm. Jour., 33, p. 81.)

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Mentzel, C.

1696.

(Pareira)

Lexicon plantarum polyglotton, p. 56. (Berl. Jahrb. d. Pharm. 23, p. 81.)

The original was not available.

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Sloane, H.

1696.

Clematis baccifera, glabra & villosa, rotundo & umbilicato folio.

Catalogus Plantarum quae in Insula Jamaica, etc., p. 85.

Gives scientific synonyma with references.

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Geston, J.

1699.

(Pareira Brava.)

Sloane M.S., 4045, fol. 240. (Am. Jour. Pharm., 45, p. 452; Pharm. Jour., 33, p. 81; Flückiger & Hanbury, Pharmacographia, 1 & 2 ed., p. 26; Hanbury, Sci. Papers, p. 386.)

("An extract of a letter (In Sloanian collection, British Museum) to John Ellis, in which the author states he is enclosing samples of Pareira Brava, or Parra Brava, giving its uses and dose.")

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Helvetius, J. A.

1703.

(Pareira Brava.)

Traité des Maladies les plus frequentes et des remedes specifiques pour les guerir, Paris, 98. (Am. Jour. Pharm., 45, p. 450; Pharm. Jour., 33, p. 81; Pharm. Era, 8, p. 228; Flückiger & Hanbury, Pharmacographia, 1 & 2 ed., p. 26; Hanbury, Sci. Papers, p. 384; Jour. de pharm. et de chim., 101, p. 284; Woodville, Med. Bot., 2 ed., v. 1, p. 169.)

(Tried the drug, and gave strong testimony in its favor.)

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Plumier, C.

1703.

Caapeba.

Nova plantarum americanarum Genera, p. 33. (Berl. Jahrb., d. Pharm., 23, p. 81; Am. Jour. Pharm., 8, p. 193; Woodville, Medic., Bot., 2 ed., v. 1, p. 167; Willdenow, Linne's Species Plant., 1 ed., v. 4, pt. 2, p. 861; Linne, Species Plant., 1 ed., v. 2, p. 1031.)

Gives seven figures on plate 79, also a description of the floral parts on page 33.

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Sloane, H.

1707.

(Clematis baccifera, etc.)

Natural History of Jamaica, etc., v. 1, p. 200. (Am. Jour. Pharm., 8, p. 193; Berl. Jahrb. d. Pharm., 23, p. 81; Woodville, Medic. Bot., 2 ed., v. 1, p. 167; Linne, Species Plant., 1 ed., v. 2, p. 1031; Willdenow, Linne's Species Plant., 4 ed., v. 4, pt. 2, p. 861; Nees von Esenbeck, T.F.L., Plantae officinales, etc., v. 2, plate 367.)

The original was not available.

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Geoffroy, E. F.

1710.

(Parreira brava)

Hist. d. l' acad. Royale des sciences, Paris, v. \_\_, p. 56. (Flückiger & Hanbury, Pharmacographia, 1 & 2 ed., p. 26; Hanbury, Sci. Papers, p. 383; Jour. de pharm. et de chimie, 101, p. 284; Berl. Jahrb. d. Pharm., 23, p. 82; Neumann, Chymiae Medicae, v. 2, pt. 3, p. 492; Gobel & Kunze, Pharm. Waarenkunde, v. 2, p. 82; Woodville, Medic. Bot., 2 ed., v.1, p. 169; Am. Jour. Pharm., 45, pp. 449 & 450; Pharm. Jour., 33, p. 81.)

The following quotation is given:

"He (Geoffroy) reported many favourable trials with Pareira in cases of inflammations of the bladder and sup-  
pression of urine."

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Petiver, J.

1716.

(Pareira Brava.)

Sloane MS., 3340, p. 306. (Am. Jour. Pharm., 45, p. 451; Pharm. Jour., 33, p. 81; Hanbury, Sci. Papers, p. 385.)

("An extract of a letter (in Sloanian collection) concerning Pareira Brava, which author wrote on Dec. 11, 1716, to Colonel Worsley, His Majesty's Envoy at Lisbon hoping that the latter will be able to bring him some Pareira Brava.")

Helvetius, J. F.

1717.

(Pareira Brava.)

Sloane MS. #3340, p. 291; Philosophical Trans., 29, p. 365. (Murray, Hist. Eng. Dict., v. 7, p. 473; Am. Jour. Pharm., 45, p. 450; Pharm. Jour., 33, p. 81; Flückiger & Hanbury, Pharmacographia, 1 & 2 ed., p. 26; Hanbury, Sci. Papers, p. 384.)

(In a letter to Monfieur Duyvenvoorde Embaffador Extraordinary from the States General, and by him communicated to the Royal-Society, Helvetius writes about Pareira Brava, a root from Brazil, where it is called the Universal Remedy, with the preparations and dose of it.)

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Lochner, M.F.

1719.

Schediasma de Parreira brava, novo Americano allusque recentioribus calculi remedus.

Schediasma de Parreira Brava, (Ed. 2 in 4), 86 pages, 6 tab. (Flückiger & Hanbury, Pharmacographia, 1 & 2 ed., p. 26; Berl. Jahrb. d. Pharm., 23, p. 82; Neumann, Chymiae Med., v. 2, pt. 3, p. 493; Gobel & Kunze, Pharm. Waarenkunde, v.2, tab. 13, p. 84; Woodville, Medic. Bot., 2 ed., v. 1, p. 169; S. G. L. Index, Series 1, v. 10, p. 491.)

("Published a treatise on Pareira Brava, and brought forward a plant of Eastern Africa figured in 1675 by Zanoni, and supposed to be the mother-plant of the drug.")

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Teichmeyer, H. F.

1729.

de caepeba sive Parreira brava.

de caepeba sive Parreira brava, 1 & 2. (S.G.L. Index, S. 1, v. 10, p. 491.)

The original was not available.

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Carl, J. S. 1733.

(Pareira.)

Medicinische Rathschlage Meistens vor Stands-Personen in langwieriger Kranckheit, um vor Zarte sensible Temperamente den gelinden sichern Natur-Weg Zu suchen und zu uben, 12, S. 67. (Berl. Jahrb. d. Pharm. v. 23, p. 82.)

The original was not available.

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Miller, P. 1735.

(C. folius peltatis cordatis emarginatis.)

Gardeners Dictionary, 1 ed., n. 1. (Willdenow, Linne's, Species Plantarum, 4 ed., v. 4, pt. 2, p. 861.)

The original was not available.

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Linne, C. 1737.

(Cissampelos Pareira.)

Genera Plantarum, etc. no. 1138. (De Candolle, Prodrromus Systematis, etc., v. 1, p. 100; Nees von Esenbeck, T.F.L., Plantae officinales, etc., v. 2, plate 367.)

The original was not available.

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Pomet, P. 1737.

(Pareira Brava.)

Histoire Generale des Drogues, \_ed., p. \_\_. (Am. Jour. Pharm., 44, p. 109; Drugg. Circ., 16, p. 124.)

(An illustration and account is given of the true pareira root.)

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Barrere, P. 1741.

(Pareira Brava.)

Histoire Naturelle de la France equinoxiale, etc., p. 2.  
(Berl. Jahrb. d. Pharm. 23, p. 83.)

("die Abuta habe manche Aehnlichkeit mit Pareira brava")

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Geoffroy, E. F.

1741.

(Butua.)

Tractatus de Materia Medica, v. 2, p. 21. (Am. Jour. Pharm., 45, p. 451; Pharm. Jour., 33, p. 81; Proc. Am. Pharm. Assoc., 22, p. 128; Flückiger & Hanbury, Pharmacographia, 1 & 2 ed., p. 26; Hanbury, Sci. Papers, p. 385.)

(Gives botanical description and physical properties of Butua (Pareira Brava of the Portuguese) and also its uses.)

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Linne, C.

1749.

(Cissampelos Pareira folius peltatis cordatis emarginatis.)

Materia Medica, 1 ed., #459; Ibid., 2 ed., p. . (Flückiger & Hanbury, Pharmacographia, 1 ed., p. 26; Ibid., 2 ed., p. 27; Linne, Species Plant., 1 ed., v. 2, p. 1031.)

The original was not available.

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Hill, J.

1751.

Pareira Brava.

A History of the Materia Medica, p. 599. (Pharm. Jour., 33, p. 81; Am. Jour. Pharm., 45, p. 449; Chem. & Drugg., 108, p. 877; Hanbury, Sci. Papers, p. 385.)

A brief account of its origin, botanical and physical description, medicinal properties, types of preparations and doses. "Pareira Brava has been but very lately known in Medicine, the discovery of it to us is owing to the Portuguese; none of the ancient authors were acquainted with it, or in-

deed have described any root that at all resembles it, either in form or virtues. Boutoua is its original Brafilian name, and from thence we have formed Butua, Brutua, and Ambutus, they call it also Membroeq. The Portuguefe gave it the name of Pareira Brava."

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Loefling, P.

1751-1756.

(Cissampelos pareira.)

Reise nach den Spanischen Landern, etc., p. 344. (Berl. Jahrb. d. Pharm., 23, p. 83.)

The original was not available.

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Neumann, D.

1752.

de Pareira Brava oder von der Parreira Brava.

Chymiae Medicae, v. 2, pt. 3, p. 489.

A lengthy detailed account of Pareira Brava. Comments on the scientific and botanical names, gives botanical description, medicinal uses, and a number of references.

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Linne, C.

1753.

Cissampelos Pareira.

Species Plantarum, 1 ed., v. 2, p. 1031. (Am. Jour. Pharm., 8, p. 193; Flückiger & Hanbury, Pharmacographia, 1 ed., p. 26; Ibid., 2 ed., p. 27; Linne, Materia Medica, 2 ed., p. 218; De Candolle, Prodromus Systematis Naturalis Regni Vegetabilis, etc., v. 1, p. 100; Good, Family Flora, etc., v.2, t. 93; Nees von Esenbeck, T.F.L., Plantae officinales, etc., v. 2, plate 367; Griffith, Medical Botany, etc., p. 106.)

Reports the above plant as the source of Pareira Brava.

Gives synonyms for the scientific name with references.

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Browne, P.

1756.

(*Cissampelos scandens*.)

The Civil & Natural History of Jamaica, p. 357. (Am. Jour. Pharm., 8, p. 193; Woodville, Medic. Bot., 2 ed., v. 1, p. 167.)

American Journal Pharmacy states:

that part of synonyma of *Pareira Brava* appears to be title.

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Plumier, C.

1756.

(*Caapeba* Griseb.)

Plantarum americanarum fasciculus primus, etc., t. 67, fig. 2. (Index Londinensis, v. 2, p. 215.)

The original was not available.

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Lewis, W.

1761.

*Pareira*.

An Experimental History of the Materia Medica, etc., p. 422. (Woodville, Med. Bot., 2 ed., v. 1, p. 169.)

Gives synonyms, habitat, botanical and physical description, uses, and preparations.

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Linne, C.

1772.

*Cissampelos Pareira*, *Pareirae Bravae Radix*.

Materia Medica per Regna Tria Naturae, etc., 1 ed., p. 218; Ibid., 2 ed., p. . (Willdenow, Linne's Species Plant., 4 ed., v. 4, pt. 2, p. 861.)

Gives scientific name, and habitat of the plant yielding *pareira brava radix*, its medicinal properties and preparation and two references.

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Aublet, F.

1775.

(Pareira Brava blanc, White Pareira Brava.)

Hist. des Plantes de la Guiane Francoise, etc., v. 1, p. 618, tab. 250. (Flückiger & Hanbury, Pharmacographia, 1 & 2 ed., p. 30; Am. Jour. Pharm., 45, p. 455; Pharm. Jour., 33, p. 81; Hanbury, Sci. Papers, p. 392; Jour. de pharm. et de chim., 101, p. 289; Gobel & Kunze, Pharm. Waarenkunde, v. 2, p. 82, tab. 13.)

("States that the root of *Abuta rufescens* was, in the time of his visit to French Guiana, shipped from that colony to Europe as Pareira Brava blanc.")

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Murray, J. A.

1776.

(Caapeba.)

Apparatus Medicaminum tam simplicium quam praeparatorum, etc., v. 1, p. 499. (Pereira, J., the Elements of Materia Medica, 2 ed., v. 2, p. 1791.)

The original was not available.

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Bergius, P.J.

1778.

(Pareira Brava.)

Materia Medica e regno vegetabili, etc., p. 815. (Gobel & Kunze, Pharm. Waarenkunde, v. 2, tab. 13, p. 84; Woodville, Medic. Bot., 2 ed., v. 1, p. 170.)

The original was not available.

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Woodville, W.

1790.

Cissampelos Pareira. Pareira Brava Cissampelos.

Medical Botany, 1 ed., v. 1; Ibid., 2 ed., v. 1, p. 167, plate 65; Ibid., 3 ed., v. \_\_, p. \_\_. (U.S. Dispens., 4 ed., p. 504; Ibid., 5, 6, 7, & 8 ed., p. 532; Ibid., 9 ed., p. 550; Ibid., 10 ed., p. 551; Ibid., 11 ed., p. 577; Ibid., 12 ed., p. 637; Ibid., 13 ed., p. 660; Ibid., 14 ed., p. 689; Ibid., 15 ed., p. 1084; Ibid., 17 ed., p. 1012; Ibid., 19 ed., p. 917; Bentley & Trimen, Medic. Plants, v. 1,

plate 15; Pharmacopœia of India, p. 7; Berl. Jahrb. d. Pharm., 23, p. 84; Gobel & Kunze, Pharmaceutische Waarenkunde, v. 2, p. 82; Index Londinensis, v. 2, p. 215; Good, Family Flora, etc., v. 2, t. 93; Pritzel, Iconum Botanicarum Index, etc., p. 271.)

Gives scientific synonyms, natural order, botanical description of the root, habitat, uses, dose, preparations and numerous references, also a cut (plate #65.)

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De La Marck, J. B. P. A. de M.

1791-1823.

(Cissampelos Pereira.)

Tableau encycl. etc., Illustr., t. 830. (Berl. d. d. Pharm. Gesells., 23, p. 84; Gobel & Kunze, Pharmaceutische Waarenkunde, v. 2, p. 82; De Candolle, Prodrômus Systematis, etc., v. 1, p. 100; Index Londinensis, v. 2, p. 215; Nees von Esenbeck, T.F.L., Plantae officinales, etc., v. 2, plate 367; Pritzel, Iconum Botanicarum, etc., 1 ed., p. 271.)

The original was not available.

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Jussieu, A. L.

1791.

Cissampelos, L. Caapeba.

Genera plantarum secundum ordines naturales disposita, etc., p. 316. (Nees von Esenbeck, T.F.L., v. 2, plate 367.)

Gives a general account of the above ground parts of the plant.

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Swartz, O.

1791.

(Cissampelos Pereira)

Observationes botanicae, quibus plantae Indiae, etc., p. 380, t. 10, f. 5. (Berl. Jahrb. d. Pharm., 23, p. 83; Willdenow, Linne's Species Plantarum, 4 ed., v. 4, p. 861; Lindley, Flora Medica, p. 372; De Candolle, Prodrômus Systematis, etc., v. 1, p. 100; Index Londinensis, v. 2, p. 215.)

The original was not available.

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Ruiz, L. et Pavon, J.

1794.

(*Chondrodendron tomentosum*.)

Florae peruvianaee et chilensis, etc., p. 132. (Bentley & Trimen, Medic. Plants., v. 1, plate 11; De Candolle, Prodrum Systematis Naturalis Regni Vegetabilis, etc., v. 1, p. 98; Eichler, Martius' Flora Brasiliensis, v. 13, p. 167.)

The original was not available.

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Linne, C.

1797.

*Cissampelos pareira*.

Systema vegetabilium, etc., ed. Persoon, 15 ed., p. 937. (Nees von Esenbeck, T.F.L., Plantae officinale, etc., v. 2, plate 367.)

Gives a description of the flower.

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Willdenow, C. L.

1805.

*Cissampelos Pareira*.

Linne's Species Plantarum, 4 ed., v. 4, part 2, p. 861. (U.S. Dispens., 4 ed., p. 504; Ibid., 5, 6, 7, & 8 ed., p. 532; Ibid., 9 ed., p. 550; Ibid., 10 ed., p. 551; Ibid., 11 ed., p. 577; Ibid., 12 ed., p. 637; Ibid., 13 ed., p. 660; Ibid., 14 ed., p. 689; Ibid., 15 ed., p. 1084; Ibid., 17 ed., p. 1012; Ibid., 19 ed., p. 917; Nees von Esenbeck, T.F.L., Plantae officinales, etc., v. 2, plate 367.)

Gives synonyms for the scientific name and references.

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Coxe, J. R.

1806.

*Cissampelos Pareira*.

Am. Dispens., 1 ed., p. 267; Ibid., 4 ed., p. 179.

A brief account of the habitat, botanical and physical description, medicinal properties, types of preparations, dose, scientific name, botanical classification and part official.

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Persoon, C. H.

1807.

*Cissampelos pareira*.

Synopsis plantarum seu Enchiridium botanicum, etc., v. 2, p. 633. (Nees von Esenbeck, T.F.L., Plantae officinale, etc., v. 2, plate 367.)

Gives a general account of the plant, its habitat, and a reference.

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Roques, J.

1808.

(*Cissampelos pareira*.)

Plantes usuelles indigenes et exotiques, etc., v. 2, t. 5. (Index Londinensis, v. 2, p. 215.)

The original was not available.

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Aubert du Petit-Thouars, A. C. M.

1809.

(*Cissampelos pareira*.)

Jour. de Botanique, v. 2, pl. 3, fig. 1, p. \_\_\_. (Berl. Jahrb. d. Pharm., 23, p. 84.)

The original was not available.

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Titford, W. J.

1811.

Velvet Leaf, (*Cissampelos Pariera*.)

Sketches towards a Hortus botanicus americanus, plate 12, fig. 7. (Index Londinensis, v. 2, p. 215.)

Gives a colored plate of twelve figures of which figure No. 7 is Velvet Leaf (*Cissampelos Pariera*.) An explanation follows on next page. A decoction of the root is an excellent diuretic and good in gravel and all obstructions of the urinary passages.

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Flenck, J. J. von

1812.

(*Cissampelos pareira*.)

Icones Plantarum Medicinalum secundum systema Linnaei digestarum cum enumeratione virum et usus medici, etc., v. 8, t. 723. (Index Londinensis, v. 2, p. 215.)

The original was not available.

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Lunan, J.

1814.

(*Cissampelos Pareira*.)

Hortus Jamaicensis, v. 2, p. 254. (Flückiger & Hanbury, Pharmacographia, 1 ed., p. 26; Ibid., 2 ed., p. 27; Bentley & Trimen, Medic. Plants, v. 1, plate 15.)

The original was not available.

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Chaumeton, F. P.

1818.

(*Cissampelos pareira*.)

Flore Medicale, etc., v. 5, t. 262. (Index Londinensis, v. 2, p. 215.)

The original was not available.

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De Candolle, A. P.

1818.

(*Cissampelos Pareira*.)

Regni vegetabiles systema naturale, sive ordines, genera et species plantarum secundum method naturalis normas digestarum et descriptarum, v. 1, p. 533. (Am. Jour. Pharm., 8, p. 193; De Candolle, Prodromus Systematis, etc., v. 1, p. 100; Good, Family Flora, etc., v. 2, t. 93; Nees von Esenbeck, T.F.L., Plantae officinales, etc., v. 2, plate 367; Griffith, Medical Botany, etc., p. 106.)

The original was not available.

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Dierbach, J. J. 1819.

(Cissampelos pareira.)

Handbuch der medicinisch-pharmaceutischen Botanik, etc., 1 ed., p. 409. (Nees von Esenbeck, T.F.L., Plantae officinale, etc., v. 2, plate 367.)

The original was not available.

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Consbruch, G. W. & Ebermaier, J. E. C. 1820.

(Cissampelos pareira.)

Allgem. Encycl., v. 5, p. 278. (Nees von Esenbeck, T. F. L., Plantae officinale, etc., v. 2, plate 367.)

The original was not available.

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Virey, J. J. 1820.

(Cissampelos pareira.)

Histoire naturelle des medicamens, etc., 1 ed., p. 254. (Nees von Esenbeck, T.F.L., Plantae officinale, etc., v. 2, plate 367.)

The original was not available.

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Feneulle, H. 1821.

**Analyse des racines de pareira brava.**

Jour. de pharm. et de chimie, 13, p. 404. (Nat'l. Dispens., 2 ed., p. 1060; Ibid., 3 ed., p. 1130; Ibid., 5 ed., p. 1198; Almanach Tasehenbach, 44, p. 172; Ibid., 45, p. 137; Pharm. Jour., 73, p. 698; Good, Family Flora, etc., v. 2, t. 93; Pareira, J., Elements of Materia Medica, etc., 2 ed., v. 2, p. 1793.)

Lists seven constituents found in pareira brava and reports on their solubilities.

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Sprengel, W.

1822.

Ueber die Pflanze, welche die Radices Pareirae Bravae liefert.

Berlinisches Jahrbuch für die Pharmacie, 23, p. 79. (Index Londinensis, v. 2, p. 215.)

Gives the botanical source of Pareira Brava and a number of references. Two plates are given, No. A & B., at end of volume.

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Richard, A.

1823.

(Cissampelos pareira.)

Botanique medicale, ou Histoire naturelle et medicale des medicamens, etc., v. 2, p. 645. (Nees von Esenbeck, T.F.L., Plantae officinale, etc., v. 2, plate 367.)

The original was not available.

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De Candolle, A. P.

1824.

Cissampelos Pareira.

Prodromus Systematis Naturalis Regni Vegetabilis, etc., v.1, p. 100. (Nees von Esenbeck, T.F.L., Plantae Officinale, etc., v. 2, plate 367; Reveil, O. & Dupuis, A., Le Regne Vegetal., v. 9, p. 7.)

Gives scientific synonyma with references.

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De Candolle, A. P.

1824.

Cocculus Chondodendron.

Prodromus Systematis Naturalis Regni Vegetabilis, etc., v. 1, p. 98. (Hanbury, Sci. Papers, p. 387; Eichler, Martiu's Flora Brasiliensis, v. 13, p. 167.)

Gives scientific synonyma with references.

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Saint-Hilaire, A. F. C. P. 1824.

(*Cocculus* (?) *platyphylla*.)

Plantes Usuelles des Brasiiliens, pl. 42. (Am. Jour. Pharm., 45, p. 454; Pharm. Jour., 33, p. 82; Hanbury, Sci. Papers, p. 387; Bentley & Trimen, Medic. Plants, v. 1, plate 11.)

The original was not available.

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Saint-Hilaire, A. F. C. P. 1825.

(*Cocculus cineriscens*.)

Flora Brasiliae meridionalis, v. 1, pl. 47. (Martius', Flor. Bras. v. 13, p. 200.)

The original was not available.

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Saint-Hilaire, A. F. C. P. 1825.

(*Cocculus platyphylla*.)

Flora Brasiliae meridionalis, v. 1, pl. 48, Pl. us. t. 42. (Martius' Flor. Bras., v. 13, p. 200.)

The original was not available.

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Descourtilz, M. E. 1827.

(*Cissampelos Pareira*.)

Flore medicale des Antilles, etc., v. 3, t. 201; Ibid., v. 3, t. 231; Ibid., v. 4, t. 256. (Bentley & Trimen, Medic. Plants, v. 1, pl. 15; Gobel & Kunze, Pharm. Waarenkunde, v. 2, p. 82; Index Londinensis, v. 2, p. 215; Flückiger & Hanbury, Pharmacographia, 1 ed., & 2 ed., p. 26; Pritzel, Iconum Botanicarum, etc., 1 ed., p. 271.)

The original was not available.

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Vellozo de Miranda, J. 1827.

(*Cissampelos Abutua*.)

Florae Fluminensis Icones nunc primo eduntur, Tom X, tab. 140. (Am. Jour. Pharm., 45, p. 454; Pharm. Jour., 33, p. 82; Flückiger & Hanbury, Pharmacographia, 1 ed., p. 25; Martius, Flor. Bras., v. 13, p. 200; Hanbury, Sci. Papers, p. 387; Bentley & Trimen, Medic. Plants, plate 11, v. 1; Index Londinensis, v. 2, p. 215.)

The original was not available.

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Sprengel, K.

(before 1828.)

(*Cissampelos pareira*.)

Uebers des Gewächser, p. 675. (Nees von Esenbeck, T.F.L., Plantae officinales, etc., v. 2, t. 367.)

The original was not available.

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Brodie, B. C.

1828.

(*Pareira Brava*.)

London Medical Gazette, 1 ed., p. 300. (Flückiger & Hanbury, Pharmacographia, 1 ed., p. 27; Ibid., 2 ed., p. 27; Pareira, J., Elements of Materia Medica, 2 ed., v. 2, p. 1791.)

("The re-introduction of *Pareira Brava* into medical practice is due (so far as Great Britain is concerned) to Brodie who recommended it in 1828 for inflammation of the bladder.")

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Nees von Esenbeck, T. F. L.

1828.

*Cissampelos pareira*, Lin.

Plantae officinales, etc., v. 2, t. 367. (Index Londinensis, v. 2, p. 215.)

Gives scientific name, natural order, general and specific characteristics with an illustration containing eleven figures; also references.

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Geiger, P. L. 1829.

*Cissampelos Pareira.*

Handbuch der Pharmacie, 1 ed., v. 2, pt. 2, p. 1763. (Gobel & Kunze, Pharm. Waarenkunde, v. 2, p. 82.)

Gives scientific name, and common names, part official, general and specific characters, with adulterations.

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Loudon, J. C. 1829.

(*Cissampelos pareira.*)

An Encyclopaedia of plants, p. 848. (Good, Family Flora, etc., v. 2, t. 93.)

The original was not available.

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Gobel, K. C. T. F. & Kunze, G. 1830-1834.

*Radix Pareirae Bravae.*

Pharmaceutische Waarenkunde, v. 2, tab. 13, fig. I, b-c. (Am. Jour. Pharm., 45, p. 456; Pharm. Jour., 33, p. 103; Hanbury, Sci. Papers, p. 392.)

Grieswurzel, Caapeba, Putua, Cipo de Cobras and Erva de N. Senhora (der Brasilianer) are synonyms for the drug. Tab. 13, with fig. I, b-c, pertaining to Pareira Root, with information on p. 82. Numerous references are also given.

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Merat, F. V., & Lens, A. J. de 1834.

(*Pareira Brava.*)

Dict. Univ. de Mat. Med., 4, p. \_\_\_\_\_. (Am. Jour. Med. Sci., 17, p. 259.)

The original was not available.

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Wood, G. B. & Bache, F. 1834.

Pareira Brava.

U. S. Dispens., 2 ed., p. 1099; Ibid., 3 ed., p. 1095.

Gives scientific name of the plants, its history, botanical description, habitat, medicinal properties, and dose.

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Betton, T. F. 1835.

American Intelligence. On the Use of the Pareira Brava in Irritable Bladder.

Am. Jour. Med. Sci., 17, p. 259. (U. S. Dispens., 4 ed., p. 504; Ibid., 5, 6, 7, & 8 ed., p. 533; Ibid., 9 ed., p. 551; Jour. Mat. Med., 6, p. 305; Good, Family Flora, etc., v. 2, t. 93.)

Gives a new use of Pareira Brava, its history, method of preparation and dose.

---

Griffith, R. E. 1836.

Pariera brava.

Am. Jour. Pharm., 8, p. 193.

Gives a list of scientific names with references, botanical history and description, habitat, and medicinal properties.

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Decaisne, J. 1837.

Memoire sur la famille des Lardizabalees, precede d' observations d' anatomie comparee des tiges de quelques vegetaux dicotyledones. Dans quelques Menispermeees (Cissampelos Pareira, Cocculus laurifolius.)

Comptes Rendus, 5, p. 393. (Pharm. Jour., 35, p. 705; Am. Jour. Pharm., 48, p. 234.)

The structure of the stem of the false Pareira is discussed.

---

Lindley, J.

1838.

Cissampelos.

Flora Medica, p. 372. (Bentley & Trimen, Medic. Plants, v. 1, plate 15; Good, Family Flora, etc., v. 2, t. 93; Griffith, Medical Botany, etc., p. 106.)

Gives a description of the plant, its habitat and uses of the root with references.

---

Wiggers, A.

1838.

Ueber Cissampelin, eine neue vegetabilische Salzbase.

Annal. der Chem. u. Pharm., 27, p. 29. (U. S. Dispens., 5, 6, 7, & 8 ed., p. 533; Ibid., 9 ed., p. 551; Ibid., 10 ed., p. 552; Ibid., 11 ed., p. 578; Ibid., 12 ed., p. 638; Ibid., 13 ed., p. 661; Ibid., 14 ed., p. 689; Ibid., 15 ed., p. 1085; Ibid., 17 ed., p. 1012; Ann. der Chem. & Pharm., 33, p. 81; Nat'l. Dispens., 1 ed., p. 1036; Ibid., 2 ed., p. 1059; Ibid., 3 ed., p. 1129; Ibid., 5 ed., p. 1198; Am. Jour. Pharm., 11, p. 352; Merck's Rpt., 27, p. 7; Neues Jahrbuch für Pharm., 31, p. 260; Jour. de pharm. et de chim., 31, p. 13; Bentley & Trimen, Medic., Plants, v. 1, plate 11, Ibid., plate 15; Good, Family Flora, etc., v. 2, t. 93; Pereira, J., Elements of Materia Medica, etc., 2 ed., v. 2, p. 1793.)

Isolated from pareira brava a vegetable alkali, called Cissampelina. Gives method of isolation.

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Pereira, J.

1839-40.

(Cissampelos pareira.)

The Elements Materia Medica, etc., 1 ed., p. 739. (Good, Family Flora, etc., v. 2, t. 93.)

The original was not available.

---

Wood, G. B. & Bache, F. 1839.

Pareira, Lond., Pareira Brava.

U. S. Dispens., 4 ed., p. 503; Ibid., 5, 6, 7, & 8 ed., p. 532; Ibid., 9 ed., p. 550; Ibid., 10 ed., p. 551; Ibid., 11 ed., p. 577; Ibid., 12 ed., p. 637; Ibid., 13 ed., p. 660; Ibid., 14 ed., p. 689; Ibid., 15 ed., p. 1083; Good, Family Flora, etc., v. 2, t. 93.)

Gives a detailed account of the drug, including a scientific name of the plant, method of preparation, botanical classification, history, botanical description, habitat, medicinal properties, uses, dose, and official preparations.

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Wiggers, A. 1840.

Ueber das Pelosin.

Ann. der Chem. u. Pharm., 33, p. 81. (Arch. d. Pharm., 236, p. 530; Pharm. Jour., 73, p. 698; Guibort, Hist. des. Drog., 4 ed., v. 3, p. 671.)

Isolated from pareira root 4-5% of an alkaloid to which he gave the name of cissampeline, later changed to pelosine.

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Eichler, A. G. 1841-1872.

Botryopsis Platyphylla Miers.

Martius, Flora Brasiliensis, v. 13, part 1, tab. 48, p. 199. (Am. Jour. Pharm., 45, p. 454; Pharm. Jour., 33, p. 81; Flückiger & Hanbury, Pharmacographia, 1 ed., p. 25; Ibid., 2 ed., 25; Hanbury, Sci. Papers, p. 387; Bentley & Trimen, Medic. Plants, v. 1, No. 11.)

Gives botanical description of plant, habitat, part used, and a number of references, also a cut.

---

Eichler, A. G. 1841-1872.

*Chondodendron tomentosum*.

Martius' *Flora Brasiliensis*, v. 13, pt. #1, plate 36. (Index Londinensis, v. 2, p. 184.)

Technical description of the plant on page 167, and an illustration of eight figures.

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Eichler, A. G. 1841-1872.

*Cissampelos Pareira*, L.

Martius' *Flora Bras.*, v. 13, pars. 1, tab. 50, fig. 7.  
(Flückiger & Hanbury, *Pharmacographia*, 1 ed., p. 28; *Ibid.*, 2 ed., pp. 28 & 29.)

Technical description of the plant on p. 215, and three illustrations, figures 3, 7, & 8.

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Brodie, B. C. 1842.

Symptoms affecting the Bladder in consequence of Disease in the Kidney. Treatment of these cases.

Lectures on the Diseases of the Urinary Organs, 3 ed., p. 138.  
(Flückiger & Hanbury, *Pharmacographia*, 1 ed., p. 27; *Ibid.*, 2 ed., p. 27; Bentley & Trimen, *Medic. Plants*, v. 1, No. 11.)

The decoction of the root of *pareira brava* renders the urine less alkaline.

---

Pereira, J. 1842.

*Cissampelos Pareira*--*Pareira Brava* or Velvet Leaf.

The Elements of *Materia Medica & Therapeutics*, 2 ed., v. 2, p. 1791.

Gives the scientific name, general and specific characters of the plant, its habitat, and a description of the

root, its composition, chemical characteristics, physiological effects, uses, method of administration, dose, and preparations. A list of substitutions are described.

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St. Hilaire, A. & Tulsane, L. 1842.

Menispermaceae, *Cocculus Platyphylla*.

Annales des Sciences Naturelles, S. 2, v. 17, p. 134.  
(Martius, Flor. Bras., v. 13, p. 200.)

*Cocculus Platyphylla* is known as *pareira brava*.

---

MacLagan, D. 1843.

Ueber den Bebeerubaum des brittischen Guiana.

Ann. der Chem. u. Pharm., 48, p. 106. (Arch. d. Pharm., 236, p. 531.)

Gives the composition of Bebeerine isolated from the above tree.

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MacLagan, D. & Tilley, T. 1845.

Ueber die Constitution des Bebeerines.

Ann. D. Chem. u. Pharm., 55, p. 105. (Arch. d. Pharm., 236, p. 532.)

Mentions the source of Bebeerine, its uses, and chemical composition.

---

Hoffmann, F. 1846.

(*Pareira brava*)

Medicina Rationali Systematica, v. 1, 4., pt. 2, p. 272.  
(Berl. Jahrb. d. Pharm., 23, p. 82.)

The original was not available.

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Lindley, J. 1846.

*Cissampelos pareira.*

The Vegetable Kingdom, 1 ed., p. 309. (Index Londinensis, v.2, p. 215.)

The original was not available.

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Spach, E. 1846.

(*Cissampelos pareira.*)

Histoire naturelle des vegetaux. Phanerogames, Atlas, t. 62. (Index Londinensis, v. 2, p. 215.)

The original was not available.

---

Carson, J. 1847.

(*Cissampelos pareira.*)

Illustrations of Medical Botany, etc., v. 1, t. 8. (Index Londinensis, v. 2, p. 215. )

Gives a general account of the plants, its parts, constituents, and uses of the drug with a colored illustration.

---

Cassone, F. 1847.

(*Cissampelos pareira.*)

Flora Medico-Farmacaceutica, v. 1, t. 37. (Index Londinensis, v. 2, p. 215.)

The original was not available.

---

Griffith, R. E. 1847.

*Cissampelos*--Linn. *C. Pareira*, Linn.

Medical Botany or Descriptions of the more important plants used in medicine, etc., 1 ed., p. 106. (Good, Family Flora, etc., v. 2, t. 93.)

Gives a general account of the plant, its parts, constituents, habitat, common and foreign names, and uses of the drug. Two illustrations of the above ground part are given.

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Bödeker, C.

1849.

Chemisch-physiologische Untersuchung liniger Stoffe aus der Familie der Menispermeeen. Pelosin.

Ann. der Chem. u. Pharm., 69, p. 53. (Arch. d. Pharm., 236, p. 531; Ibid., 250, p. 684; Ibid., 251, p. 137; Pharm. Jour., 73, p. 698; Bentley & Trimen, Medic. Plants, v. 1, No. 11.)

Mentions, pelosine, a constituent of the root of Cissampelos Pareira and gives the results of a chemical analysis.

---

Lindley, J.

1849.

(Cissampelos pareira.)

Medical & Oeconomical Botany, 1 ed., p. 87. (Index Londinensis, v. 2, p. 215.)

The original was not available.

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Guibourt, N. J. B. G.

1850.

Racine de butua ou de pareira-brava.

Hist. des Drog., 4 ed., v. 3, p. 671. (Am. Jour. Pharm., 45, p. 456; Hanbury, Sci. Papers, p. 392; Jour. de pharm. et de chimie, 101, p. 282.)

Gives botanical origin, habitat, allied plants, and a number of references.

---

Planta, A. V.

1851.

Ueber das Bebeerin

Ann. der Chem. u. Pharm., 77, p. 333. (Arch. d. Pharm., 236, p. 532; Ibid., v. 250, p. 684.)

Discusses Bebeerin and gives its chemical composition.

---

King, J., & Newton, R. S. 1852.

Cissampelos Pareira.

Am. Dispens., 1 ed., p. 126.

Gives the scientific name of the drug, part official, history, origin, botanical and physical description, medicinal properties and uses, dose, and official preparations.

---

Pereira, J. 1852.

Cissampelos Pareira-Radix.

The Elements of Materia Medica & Therapeutics, 3 ed., v. 1, p. 278.

Lists Cissampelos Pareira as a good diuretic.

---

Lindley, J. 1853.

Cissampelos pareira.

The Vegetable Kingdom, 3 ed., p. 309.

Calumbine occurs in Pareira Brava, which is used in Brazil as a tonic and diuretic.

---

Good, P. P. 1854.

Cissampelos pareira.

The Family Flora and materia medica botanica, etc., v. 2, No. 93. (Index Londinensis, v. 2, p. 215.)

Gives a colored plate of the plant with a technical de-

scription of the flower, the natural order, history, synonyms, uses, doses, and various preparations of the root are also included on the pages following along with references.

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Miller, W. J. 1854.

Pareira Brava.

Am. Jour. Pharm., 26, p. 285.

The above thesis of the Philadelphia College of Pharmacy is listed by title only.

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Loudon, Mrs. J. C. 1855.

Pareira Brava Root.

Loudon's Encyclopaedia, p. 848.

Gives an illustration of the flower, and the etymology of Cissampelos. "The roots of several species are said to have powerful medicinal qualities. That of C. Pareira or Pareira brava, is bitter, diuretic, and aperient."

---

Lindley, J. 1856.

Cissampelos. Linnaeus.

C. Pareira Linnaeus--(Pareira Brava, Velvet Leaf.)

Medical & Oeconomical Botany, 2 ed., p. 87.

Gives natural order, a description of the above ground parts, its habitat and uses of the drug. The root is used as a tonic and diuretic. An illustration of the leaf is included.

---

Lee, C. A.

Cissampelos Pareira (Pareira Brava)

Jour. Mat. Med., 3, p. 92. (Ibid., 6, p. 305.)

Gives a description and habitat of the plant, early history of the root, physical properties, chemical constituents and uses.

---

Argenti, V. M. de

1862.

(Cissampelos pareira)

Album de la flora medico-farmacaceuticae industrial indigena y exotica, v. 1, t. 24. (Index Londinensis, v. 2, p. 215.)

The original was not available.

---

Wiggers, A.

1863.

(False Pareira.)

Pharmacognosie, \_\_ed., p. 472. (Pharm. Jour., 73, p. 698.)

The following quotation is given:

("Describes what is evidently a false pareira in which he found pelosine, but adds that the drug is evidently mixed not only with stems of the same plant but also of other plants.")

---

Grisebach, A. H. R.

1864.

Cissampelos, L.

Flora of the British West Indian Islands, 1 ed., p. 10.  
(Bentley & Trimen, Medic. Plants, v. 1, plate 15; Eichler, Martius' Flora Brasiliensis, v. 13, p. 167.)

Gives a technical description of the plant and its flower, and its distribution in the British West Indies.

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King, J.

1864.

Cissampelos Pareira. (Brasilianische Waldrebe.)

Am. Dispens., 6 ed., p. 311; Ibid., 8, 10, 15, & 16 ed., p. 261.

Gives scientific name of the drug, botanical classification, detailed description of the shrub yielding the root, history, origin and habitat, solubility of active constituents, medicinal properties and uses, dose, and official preparations. Mentions another species growing in Brazil possessing similar properties.

---

Mayer, F. F.

1865.

The Raphides or Crystals in Certain Vegetable Drugs.

Am. Jour. Pharm., 37, p. 32.

States oxalate of lime, in form of acicular, prismatic, or rhomboidal crystals is contained in Pareira and other drugs.

---

Ferre, F. J., & Bentley, R., & Wood, H. C.

1866.

Cissampelos Pareira, Linn. Pareira Brava, or Velvet Leaf.

Pereira's, Manual of Materia Medica & Therapeutics, etc., 1 ed., v. 1, p. 849.

Gives a general account of the plant, its parts, constituents, uses of the drug, with physiological effects, doses, method of administration and official preparations.

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Bates, J.

-32-  
1867.

Cissampelos Pareira. (Pareira Brava.)

Jour. Mat. Med., 6, p. 305.

Gives scientific and common name, natural order, habitat, part used, synonyms, description, history, chemical analysis, adulterations, dose, uses and action, methods of administration, and quotes letters of doctors.

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Waring, E. J.

1868.

Cissampelos Pareira, Linn. Pareira Brava.

Pharmacopœia of India, p. 7. (Am. Jour. Pharm., 45, p. 449; Ibid., 64, p. 250; Pharm. Jour., 29, p. 193; Ibid., 33, p. 81; Ibid., 51, p. 829; Hanbury, Sci. Papers, p. 382.)

Gives habitat, part official, description, medical properties and therapeutic uses, also preparations and doses.

---

Flückiger, F. A.

1869.

Zur Geschichte des Buxins.

Neues Jahrbuch für Pharmacie, 31, p. 257; Pharm. Jour., 29, p. 192. (King's Am. Dispens., 18 ed., 3 rev., v. 2, p. 1437; U. S. Dispens., 14 ed., p. 690; Ibid., 15 ed., p. 1085; Ibid., 17 ed., p. 1012; Ibid., 19 ed., p. 917; Ibid., 20 ed., p. 1537; Ibid., 21 ed., p. 818; Archiv. der Pharm., 191, p. 97; Ibid., 236, p. 532; Ibid., 251, p. 137; Flückiger & Hanbury, Pharmacographia, 1 ed., p. 27; Ibid., 2 ed., p. 28; Jour. de pharm. et de chim., 101, p. 282; Pharm. Jour., 73, p. 699; Berichte d. d. Chem. Gesell., 3, p. 232; Bentley & Trimen, Medic. Plants, v. 1, plates 11 & 15.)

States that the alkaloid, Pelosine, was first extracted from roots and stems of Pareira Brava and that it is identical with Buxine, the alkaloid of the leaves of Buxus sempervirens.

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Hesse, O.

1870.

Ueber das Paricin.

Berichte der Deutschen Chemischen Gesellschaft, 3, p. 232.  
(Archiv. d. Pharm., 192, pp. 235 & 237; Am. Jour. Pharm., 42,  
p. 404.)

Paricine originally found in a cinchona bark has been reported the same as Beberine, Buxine or Pelosine, but this is now disputed.

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Reveil, O. & Dupuis, A.

1870.

Pareira.

Le Regne Vegetal, v. 9, Flore Medicale Texte, v. 3, p. 7.  
(Ibid., v. 10, plate 1.)

Gives a general account of the plant, its parts, chemical constituents, and uses of the drug with a list of species and references.

---

Reveil, O., Dupuis, A., Gerard, Fr., & Herincq, F.

1870.

Cissampelos pareira

Le regne Vegetal, v. 4, Botanique Generale-Atlas, v. 2,  
plate 38. (Index Londinensis, v. 2, p. 215.)

Gives a colored plate of the plant, (figures 5 a-5 g)  
and an explanation on previous page.

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Reveil, O., Dupuis, A., Gerard, Fr., & Herincq, F.

1870.

Pareira Brava. Cissampelos pareira (Linne)

Le regne Vegetal, v. 10, Flore Medicale Atlas, v. 3, plate I.  
(Index Londinensis, v. 2, p. 215.)

Gives a colored plate of the plant with five figures and  
an explanation on the previous page.

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Maisch, J. M.

1871.

(Pareira.)

Proc. Am. Pharm. Assoc., 19, p. 113.

Learns from Squibb's report that root of pareira was on market. States Prof. Schleiden of Jena called attention to it twenty years previous.

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Miers, J.

1871.

(Botryopsis platyphylla.)

Contributions to Botany iconographic and descriptive, etc., v. 3, p. 307. (Am. Jour. Pharm., 45, p. 453; Pharm. Jour., 33, p. 81; Ibid., 34, p. 421; Flückiger & Hanbury, Pharmacographia, 1 ed., p. 25; Hanbury, Sci. Papers, p. 387; Bentley & Trimen, Medic. Plants, v. 1, plate 11.)

(In a monograph of the Menispermaceae, "Mr. Miers contends for this name being written *Chondrodendron* as more in accordance with its derivation from  $\chi\omicron\nu\varsigma$   $\delta\epsilon\nu\varsigma$  pos.")

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Mill, J. W.

1871.

Fluid Extract of Pareira Brava, not official.

Yrbk. Br. Pharm. Conf., 8, p. 374.

States that the drug from its density is a refractory substance to percolate. Describes the method of powdering.

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Oliver, (D), & Hanbury, D.

1871.

Inquiries relating to Pharmacology & Economic Botany.

Admiralty Manual of Scientific Inquiry, \_\_\_ed., p. \_\_\_. (Hanbury, Science Papers, p. 191; Pharm. Jour., 73, p. 761.)

The following quotation is given in Hanbury's Science Papers:

"The pareira brava of commerce consisted of inert woody stems."

Squibb, E. R.

1871.

Notes on Pareira.

Proc. Am. Pharm. Assoc., 19, pp. 113 & 500; Am. Jour. Pharm., 44, p. 107; Pharm. Jour., 31, p. 846; (Ibid., 33, p. 103; Ibid., 46, p. 219; King's Am. Dispens., 18 ed., v. 2, p. 1436; Am. Jour. Pharm., 45, p. 456; Drugg. Circ., 16, p. 124; Pharm. & Chem., 5, p. 133; U. S. Dispens., 14 ed., p. 690; Hanbury, Sci. Papers, p. 392; Jour. de pharm. et de chimie, 96, p. 405; Yr. Bk. Br. Pharm. Conf., 9, p. 20.)

Discusses the history, habitat, description, and medicinal properties of the root and stem of Pareira, its substitute based on twenty-five years of experience.

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Baillon, E. H.

1872.

(*Cissampelos pareira*.)

Histoire des plantes, v. 3. 17, 18. (Index Londinensis, v. 2, p. 215.)

The original was not available.

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Pocklington, H.

1872.

The Microscope in Pharmacy.

Pharm. Jour., 32, p. 15. (Yrbk. Br. Pharm. Conf., 9, p. 21.)

States that the so-called root of Pareira of British Pharmacy is really stem of *Cissampelos Pareira*. Gives a description of the sections of the root of Pareira as revealed by the microscope.

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Scheffer, R. H. C. C.

1872.

(*Cissampelos pareira*)

Observationes phytographicae, t. 14. (Index Londinensis, v. 2, p. 215.)

The original was not available.

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Giles, R. W.

1873.

The Official, Commercial, and Authentic Sources of Pareira Brava.

Pharm. Jour., 33, p. 519.

Comments on Hanbury's recent communication on Pareira in the Pharm. Jour. States a museum of authentic specimens and substitutes would prevent adulteration.

---

Groves, T. B.

1873.

Pareira.

Pharm. Jour., 33, p. 519.

In discussing Gile's paper, states a great many medical men are disappointed with the action of Pareira Brava preparations possibly due to substitution.

---

Hanbury, D.

1873.

On Pareira Brava.

Pharm. Jour., 33, pp. 81 & 102; Hanbury Science Papers, p. 382; Am. Jour. Pharm., 45, p. 449; Jour. de pharm. et de chimie, 97, p. 433; Ibid., 101, p. 282. (Nat'l. Dispens., 2 ed., p. 1059; Ibid., 3 ed., p. 1128; Ibid., 5 ed., p. 1197; King's Am. Dispens., 18 ed., v. 2, p. 1436; Am. Jour. Pharm., 46, p. 336; Ibid., 48, p. 234; Ibid., 64, p. 250; U. S. Dispens., 14 ed., p. 689; Pharm. Jour., 35, p. 702; Ibid., 46, p. 218; Ibid., 51, p. 829; Ibid., 73, pp. 698 & 761; Proc. Am. Pharm. Assoc., 22, p. 128; Ibid., 41, p. 673; Chem. & Drugg., 83, p. 515; Ibid., 108, p. 877; Dig. Com. U.S.P. & N.F., 1913, p. 405; Flückiger & Hanbury, Pharmacographia, 1 ed., p. 25; Ibid., 2 ed., p. 26; Yrbk. Br. Pharm. Conf.

10, p. 23; Bentley & Trimen, Med. Plants, v. 1, plates 11 & 15; Buchner, Neues Repertorium für Pharmacie, v. 23, p. 279; Index Londinensis, v. 2, p. 184; Pharm. Era, 8, p. 228; Br. & Col. Drugg., 22, p. 558.)

Gives an extensive resume of the early history, botanical source, habitat, method of identification, and uses of the drug. Many references and footnotes are given, also cuts. The statement that Pareira Brava is derived from Cissampelos Pareira is erroneous.

---

Maisch, J. M.

1873.

Chondodendron tomentosum.

Am. Jour. Pharm., 45, p. 563.

Mention of the presentation of specimens of leaves and fruit of Chondodendron tomentosum by D. Hanbury, as noted on page 449.

---

Maisch, J. M.

1873.

Pareira brava.

Am. Jour. Pharm., 45, p. 522.

Exhibited three samples of Pareira, two false and one true.

---

Stoddart, W. W.

1873.

(Pareira Brava.)

Pharm. Jour., 33, p. 520.

Discusses Gile's paper. States many wholesale houses had difficulty because of variation in Pareira Brava preparations. Gives a method of distinguishing between the roots

and stems.

---

Brandis, D.

1874.

(Cissampelos Pareira.)

Forest Flora of North-West and Central India, p. 10. (Bentley & Trimen, Med. Plants, v. 1, plate no. 15.)

The original was not available.

---

Flückiger, F.A. & Hanbury, D.

1874.

Pareira Brava.

Pharmacographia, 1 ed., p. 25; Ibid., 2 ed., p. 25. (U. S. Dispens., 15 ed., p. 1084; Ibid., 19 ed., p. 916; Ibid., 17 ed., p. 1012; Pharm. Jour., 34, p. 421; Bentley & Trimen, Med. Plants., v. 1, plates 11 & 15.)

Gives the botanical origin, history, description, microscopic structure, chemical composition, uses and substitutes of Pareira Brava, with twenty-three references.

---

Hanbury, D.

1874.

Chondodendron or Chondrodendron ?

Pharm. Jour., 34, p. 421. (Ibid., 45, p. 600; Bentley & Trimen, Med. Plants, v. 1, plate 11.)

Gives reasons in favor of each way of spelling the genus name with or without "R".

---

Lee, W. T.

1874.

Pareira Brava.

Am. Jour. Pharm., 46, p. 247.

The above thesis of the Philadelphia College of Pharmacy is listed by title only.

---

Moss, J.

Note on a Sophistication of Pareira Root.

Pharm. Jour., 33, p. 911; Am. Jour. Pharm., 46, p. 335. (King's Am. Dispens., 18 ed., v. 2, p. 1436; Pharm. Jour., 35, p. 702; Ibid., 46, p. 219; Proc. Am. Pharm. Assoc., 22, p. 310; Yrbk. Br. Pharm. Conf., 11, p. 123.)

Advises pharmacists to examine their stock of Pareira to prevent substitution of stem for root. Reports that he found stems mixed with the root to the extent of an equal amount.

---

Baillon, E. H.

1876.

Cissampelos pareira.

Dictionnaire de Botanique, v. 1, p. 559. (Index Londinensis, v. 2, p. 215.)

Gives an illustration and description of the flowers.

---

Greenish, T.

1876.

(Pareira.)

Pharm. Jour., 35, p. 717.

In discussing Moss' paper, states that he believes the cells in the hemispherical tract consisted of parenchymatous tissue.

---

Harley, J.

1876.

(Pareira.)

Royle's Manual of Materia Medica, 6 ed., p. 721. (Murray's, Hist. Eng. Dict., v. 7, pt. 1, p. 473.)

The following quotation is given by Murray:

"Pareira Brava is a climbing shrub indigenous in Brazil."

---

Moss, J.

1876.

Structure & Development of Pareira Stem.

Pharm. Jour., 35, p. 702. (Am. Jour. Pharm., 48, p. 234; Ibid., 64, p. 254; Drugg. Circ., 30, p. 252; Pharm. Jour., 46, p. 219; Ibid., 51, p. 829; Fliickiger & Hanbury, Pharmacographia, 2 ed., p. 30; Yrbk. Br. Pharm. Conf., v. 13, p. 170; Ibid., v. 31, p. 371.)

Gives a detailed description of the stem, so as to be able to detect adulteration of root. Cuts are given of various sections. Discussion by members follow on p. 716.

---

Proctor, B. S.

1876.

Note on Liquid Extract of Pareira.

Yrbk. Br. Pharm. Conf., v. 13, p. 488. (Pharm. Jour., 73, p. 699.)

Mention is made of the powder of Pareira, also what it yields when exhausted.

---

Blanco, M.

1878-80.

(Cissampelos pareira.)

Flora de Filipinas, 3 ed., t. 432. (Index Londinensis, v. 2, p. 215.)

The original was not available.

---

Hager, H.

1878.

Pareira.

Handbuch der Pharmaceutischen Praxis, \_\_\_ed., v. 2, p. 634; Ibid., New Ed., v. 2, p. 634(1887); Ibid., \_\_\_ed., p. 634, (1893). (Index Londinensis, v. 2, p. 184.)

Gives scientific and common name, chemical constituents, uses, and preparations of the root, with an illustration containing three figures.

---

Morrison, C.

1878.

A False Pareira Brava.

Am. Jour. Pharm. 50, p. 430. (Nat'l. Dispens., 2 ed., p.1060; Ibid., 3 ed., p. 1129; Ibid., 5 ed., p. 1197; King's Am. Dispens., 18 ed., p. 1437; Pharm. Jour., 46, p. 218; New Rem., 8, p. 337; Yrbk. Br. Pharm. Conf., v. 16, p. 161.)

Gives the results of analysis of a Brazilian "Pareira Brava," sold as genuine, but which answered neither to the description of *Cissampelos pareira* nor to that of *Chondodendron tomentosum*.

---

Morrison, C.

1878.

False Pareira Brava.

Am. Jour. Pharm., 50, p. 198.

The above thesis of the Philadelphia College of Pharmacy is listed by title only.

---

Saunders, W.

1878.

Pareira Brava.

Proc. Am. Pharm. Assoc., 26, p. 848.

Gives historical data and uses of Pareira.

---

Farquharson, R.

1879.

(Pareira--Pareira (Pareira Brava.)

Guide to Therapeutic & Materia Medica, 2 ed., p. 336; Ibid., 4 ed., p. 402. (Am. Jour. Pharm., 51, p. 334.)

(Pareira Brava referred to as Cissampelos pareira.

Physiological and therapeutical actions given, also preparation and dose.)

---

Maisch, J. M.

1879.

Pareira Brava.

Am. Jour. Pharm., 51, p. 334.

Comments on the scientific name of Pareira Brava as given in Farquharson's "Guide to Therapeutics & Materia Medica."

---

Stille, A., & Maisch, J. M.

1879.

Pareira, U. S. --Pareira Brava.

Nat'l. Dispens., 1 ed., p. 1036; Ibid., 2 ed., p. 1059; Ibid., 3 ed., p. 1128; Ibid., 5 ed., p. 1196. (Pharm. Jour., 46, p. 218.)

Gives a scientific name of the plant, its history and origin, botanical description and classification, habitat, medicinal properties, uses, dose, constituents, preparations, admixtures, substitutions, with illustrations and references.

---

Bentley, R. & Trimen, H.

1880.

Chondrodendron tomentosum, Ruiz & Pavon.

Parreira brava (Old Portuguese). Butus or Abutus.

Medicinal Plants, 1 ed., v. 1, plate 11. (British Pharmacopoeia, 1885, p. 301.)

Gives natural order, references, scientific and English name, synonyms, derivation of the generic name, botanical description, habitat, plant part official with a description, substitutions, chemical composition and medical properties and uses. Figures 1-8 inclusive, with information at end of plate 11. Figure 8 applies to the root, for which a plate is given.

---

Bentley, R. & Trimen, H. 1880.

*Cissampelos Pareira.*

Medicinal Plants, 1 ed., v. 1, plate 15. (Nat'l. Dispens., 1 ed., p. 1036; Ibid., 2 ed., p. 1059; Ibid., 3 ed., p. 1128; Ibid., 5 ed., p. 1196; Pharm. Jour., 46, p. 218; Index Londonensis, v. 2, p. 215.)

Gives a plate with twelve figures of False Pareira Brava with information. Distinguishes between true and false Pareira Brava. Numerous references are given.

---

Garrod, A. B. & Baxter, E. B. 1880.

(Pareira)

Mat. Med., 4 ed., p. 187. (Murray's, Hist. Eng. Dict., v. 7, part 1, p. 473.)

The following quotation is given by Murray:

"Pareira is a bitter tonic, like calumba, but scarcely ever used as such, it is thought to act as a diuretic."

---

Baillon, H. 1883.

(*Chondodendron tomentosum.*)

Traite de Botanique Medicale, Phanerogamique, v. 1, p. 707. (Index Londinensis, v. 2, pp. 184 & 215.)

The original was not available.

---

Maisch, J. M. 1883.

Minutes of the Pharmaceutical Meeting.

Am. Jour. Pharm., 55, p. 332.

States that a correspondent called his attention to the fact that the drug *Abutua* is stated by the Portuguese Pharmacopoeia to be *pareira brava*.

---

Vidal, \_\_ 1883.

(*Cissampelos pareira*.)

Sin. Fam. & Gen. Pl. Len. Filip., p. \_\_. (Introd. Fl. For. Filip.) Atlas, t. 1, fig. c. (Index Londinensis, v. 2, p. 215.)

The original was not available.

---

Committee 1885.

*Pareirae Radix*. Pareira Root.

British Pharmacopoeia, 1885, p. 301. (Am. Jour., 64, p. 251; Pharm. Era, 8, p. 228; Pharm. Jour., 51, p. 829.)

Gives official Latin and English title, scientific and common name, botanical and physical description, and preparations.

---

Alcock, F. H. 1886.

*Chondodendron* and *Chondrodendron*.

Pharm. Jour., 45, p. 600.

Criticizes the spelling of the generic name of the

plant yielding Pareira as it appears in the British Pharmacopoeia.

---

Kirby, W.

1886.

A False Pareira Brava.

Pharm. Jour., 46, p. 218. (Am. Jour. Pharm., 58, p. 517; Ibid., 64, p. 253; Drugg. Circ., 30, p. 252; West. Drugg., 8, p. 376; Pharm. Jour., 51, p. 829; Ibid., 73, p. 761; Yrbk. Br. Pharm. Conf., v. 23, p. 447.)

Discusses the histological peculiarities of the root and stem with illustrations and numerous references.

---

Moloney, C. A.

1887.

(Pareira Brava.)

Sketch of the Forestry of West Africa with particular reference to its present principal commercial products, 514. (Murray's, Hist. Eng. Dict., 7, p. 473.)

The following quotation was found:

"Pareira brava (Cissampelos Pareira) Velvet-leaf or spurious Pareira."

---

Dujardin-Beaumetz, G. & Egasse, E.

1889.

(Cissampelos pareira.)

Les plantes medicinales indigenes et exotiques, etc., p. 519. (Index Londinensis, v. 2, p. 215.)

The original was not available.

---

Bastin, E. S.

1891.

Detection of Stem Admixtures in Root Drugs.

The Apothecary, 1, p. 6.

Mention is made of Pareira, pieces of stems which are mixed with the root. A method of detecting this adulteration is given.

---

Engler, A. & Prantl, K. 1891.

Cissampelos pareira.

Die naturlichen Pflazenfamilien, etc., v. 3, pt. 2, p. 85.  
(Index Londinensis, v. 2, p. 215.)

Gives a plate with six figures, in which they give a technical description of the plant and its flower.

---

Wardleworth, T. H. 1891.

Spurious Drugs Recently Met With in Trade.

Chem. & Drugg., 39, p. 737; Pharm. Rec., 13, p. 20.

Pareira brava and its substitutes are discussed. States that as a result of substitution the market suffers. Discussion by members on p. 737.

---

Bastin, E. S. 1892.

Starches in Root Drugs.

The Apothecary, 2, p. 49; Am. Drugg. & Pharm. Rec., 23, p. 182. (Yrbk. Br. Pharm. Conf., v. 30, p. 124; Pharm. Jour., 52, p. 747.)

Describes the starch of pareira on p. 58 and gives figures.

---

Dohme, A. R. L. 1892.

The practical use of the microscope in pharmacy.

Proc. Am. Pharm. Assoc., 40, p. 244. (Am. Jour. Pharm., 64, p. 451.)

Illustrates by drawings of transverse sections of pareira brava root, the practical use of the microscope in pharmacy.

---

Holmes, E. M. 1892.

The Relation of Geography & Materia Medica.

Pareira Brava.

Pharm. Jour., 51, p. 770. (Am. Jour. Pharm. 64, p. 249;  
Pharm. Jour., 51, p. 829; Pharm. Rec., 13, p. 303; Proc. Am.  
Pharm. Assoc., 40, p. 664.)

Tells of the substitution of other roots for genuine Pareira Brava. Advises the limitation of its geographical source by the British Pharmacopoeia.

---

Holmes, W. M. 1892.

Bahia Pareira Brava.

Chem. & Drugg., 40, p. 581. (Pharm. Jour., 51, p. 880.)

Explained the most important differences between true and false pareira by use of screen-exhibited microscopic sections.

---

Holmes, W. M. 1892.

The Microscopical Characters of a Spurious Pareira Brava from Bahia.

Pharm. Jour., 51, p. 829. (Am. Jour. Pharm., 64, p. 250;  
Pharm. Jour., 73, p. 761; Proc. Am. Pharm. Assoc., 40, p. 663;

Yrbk. Br. Pharm. Conf., v. 29, p. 126.)

Tells of the confusion as to the true source of the drug. Quotes letters received from various sources. Compares the true and spurious Pareira Brava giving illustrations.

---

Millsbaugh, C. F.

1892.

Menispermaceae. Brazilian Pareira brava.

Medicinal Plants, etc., v. 1, p. 14-2.

States that the root is used as a tonic and diuretic.

---

Ringer, F. A., & Brook, E.

1892.

True & Commercial Pareira.

Pharm. Jour., 51, p. 703; Am. Jour. Pharm., 64, p. 255.  
(U. S. Dispens., 19 ed., p. 917; Ibid., 20 ed., p. 1537;  
Ibid., 21 ed., p. 819; King's Am. Dispens., 18 ed., p. 1436;  
Pharm. Rec., 13, p. 303; Yrbk. Br. Pharm. Conf., v. 29,  
p. 125; Pharm. Jour., 73, p. 699.)

Compares properties of the true and false root. Gives description, microscopic structure, chemical composition. Conclusion: substitute contains less ash, mucilage, alkaloid, smaller proportion fats and fatty acids, small quantity acid resin, and no starch.

---

Elborne, W.

1894.

Remarks on Gnetum.

Yrbk. Br. Pharm. Conf., v. 31, p. 369.

States that the internal structure of the stems of Gnetum L., a genus of Gymnosperms, resembles that of Pareira Brava; "Abutua" and "Butua" are Brazilian terms for Pareira.

Gould, J. C. 1894.

Pareira.

Am. Jour. Pharm., 66, p. 268.

The above thesis of the Philadelphia College of Pharmacy is listed by title only.

---

Wood, H. C., Remington, J. P., and Sadtler, S. P. 1894.

Pareira U. S. (Br.) Pareira.

U. S. Dispens., 17 ed., p. 1010; Ibid., 19 ed., p. 915; Ibid., 20 ed., p. 1537; Ibid., 21 ed., p. 819.

Gives a detailed account of the plant, scientific name, method of preparation, botanical classification, history, botanical description, habitat, medicinal properties, uses, dose, and official preparation, and several illustrations.

---

Engler, A. 1895.

(Cissampelos pareira.)

Die Pflanzenwelt Ost-Afrika, Teil B, p. 507. (Index Londinensis, v. 2, p. 215.)

The original was not available.

---

Barclay, J. 1896.

Liquid Extract of Pareira.

Chem. & Drugg., 48, p. 277. (Yrbk. Br. Pharm. Conf., v. 33, p. 166; Pharm. Jour., 73, p. 699.)

Gives a method of exhausting the root in preparing a Fluid Extract.

---

Dohme, A. R. L. 1896.

The Histology & Pharmacognosy of Pareira Brava.

Drugg. Circ., 40, p. 296. (U. S. Dispens., 19 ed., p. 917; Ibid., 20 ed., p. 1537; Ibid., 21 ed., p. 819.)

Reports that the drug not as popular as formerly, being replaced by uva ursi and pipsissewa. Gives microscopic difference between true and false pareira. Cuts of both are given.

---

Combs, R. 1897.

Some Cuban Medical Plants. Cissampelos Pareira L.

Pharm. Rev., 15, p. 88.

Gives scientific and common name, uses, and its habitat as Cuba. "This plant should not be confounded with Chondodendron tomentosum, which is from Peru and Brazil and furnishes the true medicinal Pareira brava of commerce."

---

Peckolt, T. 1898.

Medicinal Plants of Brazil. Chondodendron tomentosum.

Pharm. Archives, 1, 129. (Bull. Pharm., 12, p. 463; Pharm. Rev., 16, p. 385; Merck's Report, 7, p. 741.)

Gives an account of Chondodendron tomentosum, giving it in German and also an English translation. Gives the botanical origin, history, description, synonyms, uses, dose, and method of preparation.

---

Scholtz, M.

1898.

Bebeerin und Buxin.

Arch. d. Pharm. 236, p. 530. (Ibid., 244, p. 555; Ibid., 237, p. 199; Ibid., 249, pp. 408, 413, and 417; Ibid., 250, pp. 684 & 687; Ibid., 251, pp. 136, 137, 139, 142, 143, & 151; Akademie der Wissenschaften, Wein, v. 121, p. 525; Pharm. Jour., 73, p. 698; Monatsheft für Chem., 33, p. 873 & 875.)

Reviews the literature on the alkaloids of Pareira, with references, and discusses the relationship of Bebeerine and Buxine.

---

Lucas, E. W.

1899.

Notes on Some Official Preparations.

Pharm. Jour., 62, p. 525. (Yrbk. Br. Pharm. Conf., v.36, p. 210; Pharm. Jour., 73, p. 699.)

In discussing ~~Extractum~~ Pareirae Liquidum, gives references and differentiates between true and false varieties of "Pareira Root". The method of manufacturing the extract is also given.

---

Scholtz, M.

1899.

Ueber Pelosin.

Arch. d. Pharm., 237, p. 199. (Ibid., 244, p. 555; Ibid., 249, p. 408; Yrbk. Br. Pharm. Conf., 37, p. 115; Akad. der Wissenschaften, Wein, 121, p. 525; Pharm. Jour., 73, p. 698; Monatsheft f. Chem., 33, p. 873.)

Isolates Pelosine from Pareira Brava. Gives method and analysis.

---

(Editor)

1900.

The Materia Medica of the Pharmacopoeia. Pareirae Radix.

Pharm. Jour., 65, p. 457.

Botanical source, habitat, description, uses, preparations, and constituents are given with cuts of sections.

---

Felter, H. W. & Lloyd, J. U. 1900.

Pareira (U. S. P. ) Pareira.

King's Am. Dispens., 18 ed., v. 2, p. 1436.

Gives scientific name, botanical classification and source, history and description, origin and habitat, chemical composition, medicinal properties and uses, dose, official preparation. Mentions other **drugs** known as Pareira Brava.

---

Fischer, B., & Hartwich, C. 1900.

Guaco.

Hager's Handbuch der Pharmaceutischen Praxis, \_\_\_ed., v. 1, p. 1253; Ibid., \_\_\_ed., v. 1, p. 1253.)

In this article mention is made of Cissampelos Pareira L. being brought to Europe.

---

Holmes, E. M. 1900.

The Commerce of Drugs.

Pharm. Jour., 64, p. 278.

States that the stem and roots of Pareira resemble each other closely, and as a result of this spurious drugs are on market. Drug in small demand because of substitution.

---

Moor, C. G., & Priest, M. 1900.

The Ash of B. P. Drugs.

Yrbk. Br. Pharm. Conf., v. 37, p. 403.

Gives ash content of commercial samples of *Pareirae Radix*.

---

Collett, Sir, H. 1902.

(*Cissampelos pareira*.)

Flora Simlensis, p. 19. (Index Londinensis, v. 2, p. 215.

The original was not available.

---

Nelson, B. E. 1902.

An analytical scheme for the Microscopical Examination of Powdered Drugs.

Merck's Report, 11, p. 227.

Gives scientific name of *Pareira*, common name, natural order, constituents, and description; also gives a description of the powder, its starch grains and crystals, and an illustration.

---

Greenish, H. G. 1904.

Official Processes for Galenical Preparations.

Pharm. Jour., 73, p. 698. (Yrbk. Br. Pharm., Conf., 42, p. 275.)

Gives method of powdering the drug for preparing the liquid extract; also the habitat, uses, constituents and a number of references.

---

Holmes, E. M.

1904.

Concerning Pareira Brava.

Pharm. Jour., 73, p. 761.

Reports that there is a great scarcity of the genuine drug in commerce and as a result of this the drug has fallen into disuse. Tells of the nature of various shipments received. Gives references to adulterants.

---

"Xrayser"

1904.

Pareira.

Chem. & Drugg., 64, p. 699.

Comments on conflicting dictionary information of Pareira. States Dr. Murray considers Chondodendron Tomentosum a misnomer. Hanbury proved this to be an error.

---

Murray, J. A. H.

1905.

Pareira.

Historical English Dictionary, v. 7, p. 473. (Chem. & Drugg., 64, p. 699.)

Gives pronunciation, etymology, habitat, and uses. States that spurious Pareira is historically the real pareira, "pareira" of pharmacy being a misnomer. Gives four references.

---

Greenish, H. G.

1906.

The British Pharmacopoeia.

Chem. & Drugg., 69, p. 864. (Dig. Com. U.S.P. & N.F., 1906, p. 422.)

As secretary of the committee on vegetable drugs, recommends the omission of *Pareirae Radix* from British Pharmacopoeia.

---

Scholtz, M. 1906.

Ueber Bebeerin.

Pharm. Post, 39, p. 617. (Akad. Wissenschaften Wein, 121, p. 525; Monat. f. Chem., 33, p. 873.)

States Pelosine is obtained from *Pareira brava*.

---

Scholtz, M. 1906.

Ueber die Alkaloide der *Pareirawurzel*.

Arch. d. Pharm., 244, p. 555. (Dig. Com. U.S.P. & N.F., 1906, p. 422; Pharm. Era, 37, p. 9; Arch. d. Pharm., 249, p. 408; Ibid., 250, pp. 687 & 690; Akad. der Wissenschaften, Wein, 121, p. 334; Yrbk. Br. Pharm. Conf., 44, p. 120; Ibid., 50, p. 28; Monat. f. Chem., 33, p. 873; S.G.L. Index, S. 2, v.12, p. 602.)

Determines as far as possible the alkaloids of *Pareira Brava*, and gives references.

---

Lecomte, H. 1907.

(*Cissampelos pareira*.)

Flore gen. Indo-Chine, v. 1, p. 145. (Index Londinensis, v. 2, p. 215.)

The original was not available.

---

Farwell, O. A. 1908.

Adulterations and Substitutions of Crude Drugs.

Merck's Rept., 17, p. 34. (Dig. Com. U.S.P. & N.F., 1908, p. 426.)

Lists various adulterants of and substitutes for  
Pareira.

---

Lenz, W., & Arends, G. 1908.

Pareira.

Hager's Handbuch der Pharmazeutischen Praxis, etc., Supplement Edition \_\_, p. 533.

Gives scientific name, common names, part official, physical and chemical description and uses.

---

Therapeutic Committee British Medical Association. 1908.

British Pharmacopoeia Revision.

Pharm. Jour., 81, p. 811; Suppl., Brit. Med. Jour., 1908, v. 2, p. 320. (Dig. Com. U.S.P. & N.F., 1908, p. 426.)

Suggest Pareirae Radix and its preparations be deleted from British Pharmacopoeia, because of its doubtful value.

---

Beille, G. L. 1909.

(Cissampelos pareira.)

Precis de botanique pharmaceutique, v. 2, p. 359. (Index Londinensis, v. 2, p. 215.)

The original was not available.

---

Capps, J. A., Pratt, J. H., Mc Crae, T., & Halsey, J. F. 1909.

Pareira: Fluidextractum Pareirae.

Jour. Am. Med. Assoc., 53, p. 533. (Dig. Com. U.S.P. & N.F., 1909, p. 569.)

They recommend the deletion of pareira and the fluid-extract from the Pharmacopoeia.

---

Beilstein, C.

1910.

Report of Committee on Prevention of Adulteration.

Proc. Nat'l. Wholes. Drugg. Assoc., p. 105. (Dig. Com. U.S.P. & N.F., 1910, p. 636.)

States that one lot of Pareira Brava consisted of roots entirely different from the official drug.

---

Engler, A. & Diels, L.

1910.

Menispermaceae. *Cissampelos pareira* L.

Das Pflanzenreich Regni vegetabilis conspectus, Heft 46, p. 288. (Index Londinensis, v. 2, p. 215.)

Gives the scientific name, general and specific characteristics, with an illustration (figures A-K) of the above ground parts, and numerous references.

---

Engler, A. & Drude, O.

1910.

(*Cissampelos pareira*.)

Die vegetation der erde, etc., 9 ed., v. 1, p. 267. (Index Londinensis, v. 2, p. 215.)

The original was not available.

---

La Wall, C. H., & Bradshaw, H.

1910.

Ash Standards in Drugs--Are they necessary?

Proc. Am. Pharm. Assoc., 58, p. 754. (Dig. Com. U.S.P. & N.F., 1910, p. 636.)

Reports the percentage of ash found in commercial samples.

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Rusby, H. H. 1910.

The "Raid" Occurred.

Pract. Drugg., 27, p. 423. (Dig. Com. U.S.P. & N.F., 1910, p. 636.)

Mention is made of the fact that Pareira consists of spurious roots or the stems.

---

(Editor) 1911.

Pareira.

Pharm. Jour., 87, p. 655. (Dig. Com. U.S.P., & N.F., 1911, p. 520.)

Genuine root is almost unprocurable at the present time, therefore, pareira brava from Bahia, should be chemically examined as to its percentage of pelosine.

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Scholtz, M. 1911.

Ueber die Alkaloide der Pareirawurzel.

Arch. d. Pharm., 249, p. 408. (Chem. & Drugg., 79, p. 507; Dig. Com. U.S.P. & N.F., 1911, p. 520; Proc. Am. Pharm. Assoc., 59, p. 220; Arch. d. Pharm., 251, p. 139; Akademie der Wissenschaften Wien, 121, pp. 525, 537, & 546; Monatsheft f. Chem., 33, pp. 873 & 875.)

Deals with alkaloidal constituents of Chondrodendron tomentosum. Has separated a new alkaloid "chondrodine". Gives its chemical and physical properties.

---

Faltis, F. 1912.

Alkaloide der Pareirawurzel.

Setzungsber Akademie der Wissenschaften in Wien, 121, p. 525. (Monatsheft f. Chem., 33, p. 873; Arch. d. Pharm., 250, p. 685; Ibid., 251, pp. 136 & 138; Jour. Am. Pharm. Assoc., 2, p. 1001; Yrbk. Am. Pharm. Assoc., 1, p. 194; Ibid., 2, p. 212; Dig. Com. U.S.P. & N.F., 1912, p. 387; Yrbk. Br. Pharm. Conf., 50, p. 27; Ibid., 52, p. 24; Chem. & Drugg., 81, p. 334; Chemisches Zentralblatt, 83, pt. 2, p. 1660, Yrbk. Br. Pharm. Conf., 50, p. 27.)

Discusses the alkaloids of Pareira, their production and chemical composition and gives references. Three of them were isolated from crude beberine.

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Needham, R. H.

1912.

Practical Suggestions on Pharmacopoeial Revision.

Jour. Am. Pharm. Assoc., 1, p. 1345. (Dig. Com. U.S.P. & N.F., 1912, p. 387.)

Pareira is noted for the interest it arouses in study of vegetable histology.

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Scholtz, M.

1912.

Die Alkaloide der Pareirawurzel.

Arch. d. Pharm., 250, p. 684. (Jour. Am. Pharm. Assoc., 2, p. 1001; Yrbk. Am. Pharm. Assoc., 1, p. 194; Chem. & Drugg., 81, p. 948; Arch. d. Pharm., 251, pp. 136, 137, & 142; Yrbk. Br. Pharm. Conf., 50, p. 27; S.G.L. Index, S. 3, v. 8, p. 699.)

Criticizes the work of Faltis in regard to alkaloids of pareira root. Points out that Faltis relied on carbon and hydrogen determinations, whereas he (Scholtz) gives a series of analyses of the alkaloids in which the carbon, hydrogen, and nitrogen were determined.

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(Editor)

1913.

Pareira Brava.

Brit. & Col. Drugg., 63, p. 92. (Dig. Com. U.S.P. & N.F., 1913, p. 405.)

States that the drug not in favor with English doctors; the bulk of the drug sold during war was not genuine. Gives cuts of various sections of the true and false drug.

---

Kebler, L. L.

1913.

Report of the Committee on Drug Market.

Jour. Am. Pharm. Assoc., 2, p. 1101. (Dig. Com. U.S.P. & N.F., 1913, p. 405.)

Reports the ash and moisture content as found in commercial samples of Pareira.

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Monteiro da Silva, J. R.

1913.

"Pareira Brava"

Nouveaux Remedes, 30, p. 31. (Yrbk. Br. Pharm. Conf., 50, p. 291.)

In discussing Cinchonas, mention is made of another plant known as Pareira Brava.

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Power, F. B.

1913.

The Influence and Development of some of the researches of Daniel Hanbury. Maisch and Pareira Brava.

Chem. & Drugg., 83, p. 514. (Dig. Com. U.S.P. & N.F., 1913, p. 405.)

Refers to Hanbury's paper on Pareira in Pharmaceutical Journal, 35, p. 81.

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Rusby, H. H.

1913.

Report of Committee on Drug Market, August, 1912.

Jour. Am. Pharm. Assoc., 2, pp. 685 & 1101. (Dig. Com. U.S.P. & N.F., 1913, p. 405; Drugg. Circ., 57, p. 740.)

Speaking of Pareira says:-

"Large shipments heavily mixed with stem pieces have been offered."

---

Scholtz, M.

1913.

Die Alkaloide der Pareirawurzel.

Arch. d. Pharm., 251, p. 136. (Yrbk. Am. Pharm. Assoc., 2, p. 212; Drugg. Circ., 57, p. 393; S.G.L. Index, S. 3, v. 8, p. 699.)

Tells of isolation of the alkaloids Bebeerine, Iso-bebeerine, B-Bebeerine, and Chondrodine, from Pareira.

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Thurston, A., & Thurston, A. N.

1913.

Ash and Moisture Constants of Powdered Vegetable Drugs.

Jour. Am. Pharm. Assoc., 2, p. 475. (Dig. Com. U.S.P. & N.F. 1913, p. 405.)

Give the ash and moisture constant of Pareira Brava Root.

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Baker, W. L.

1914.

Pareira Brava.

Proc. Am. Assoc. Pharmaceutical Chemists, 7, p. 211; Jour. Am. Pharm. Assoc., 4, p. 226. (Dig. Com. U.S.P. & N.F., 1914, p. 403; Ibid., 1915, p. 360.)

Gives a list of crude drugs and chemicals rejected by the Norwich Pharmacal Company, among which is Pareira

Brava of the spurious variety.

---

Fawcett, W. & Rendle, A. B. 1914.

(Cissampelos pareira.)

Flora of Jamaica, v. 3, pt. 1., p. 193. (Index Londinensis, v. 2, p. 215.)

The original was not available.

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Rippetoe, J. R. 1914.

The Examination of some drugs with special reference to the anhydrous alcohol and ether extracts and ash.

Am. Jour. Pharm., 86, p. 441. (Dig. Com. U.S.P. & N.F., 1914, p. 403.)

Gives percentage of alcohol, water, and ether extract, also ash content of Pareira.

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Scholtz, M. & Koch, O. 1914.

Die Alkaloide der Pareirawurzel.

Arch. d. Pharm., 252, p. 513. (Dig. Com. U.S.P. & N.F., 1914, p. 403; Ibid., 1915, p. 360; U. S. Dispens., 21 ed., p. 819; Yrbk. Am. Pharm. Assoc., 3, p. 256; Yrbk. Br. Pharm. Conf., 53, p. 24; Jour. Soc. Chem. Ind., 34, p. 680; S.G.L. Index, S. 3, v. 8, p. 699.)

Continues the work on the four alkaloids of Pareira, together with pharmacological tests.

---

(Beringer, G. M., Chairman.) 1915.

Pareira.

Jour. Am. Pharm. Assoc., 4, p. 1378. (Dig. Com. U.S.P. & N.F., p. 360; Yrbk. Br. Pharm. Conf., 53, p. 363; Ibid., 59, p. 18.)

The committee on unofficial standards suggest that Pareira be included in the next revision of the National Formulary. The botanical origin, description, chemical composition and powder, are given.

---

Engler, A. & Prude, O. 1915.

*Cissampelos pareira*, L.

Die vegetation der erde, etc., 9 ed., v. 3, p. 192. (Index Londinensis, v. 2, p. 215.)

Gives a technical description of the plant and its flower, under figure 121.

---

Geare, R. I. 1915.

Medicinal and Food Plants of Porto Rico.

Merck's Report, 24, p. 83.

States that a "Pareira brava", is a product of Bejuco de Mona.

---

Dohme, A. R. L. 1917.

Report of Committee on Prevention of Adulteration.

Proc. Nat'l. W. D. A., 43, p. 512. (Dig. Com. U.S.P., & N.F., 1917, p. 275.)

Mentions the adulterants of Pareira Root.

---

Peckholt, G. 1917.

(*Chondodendron platyphyllum*.)

Bull. Agr. Intelligence, 8, p. 248. (Chem. Abstr., 11, p. 3349; Yrbk. Br. Pharm. Conf., 55, p. 231.)

(Identified the plant called in Brazil "Jaboticaba de cipo," "Abutua legitima," "Parreira brava," "Parreira do matto," "Uva do matto," as *Chondodendron platyphyllum*.)

---

Basu, \_\_ 1918.

(*Cissampelos pareira*.)

Indian Medicinal Plants, t. 42. (Index Londinensis, v. 2, p. 215.)

The original was not available.

---

Holm, T. 1918.

Medicinal Plants of North America. *Cissampelos Pareira*.

Merck's Rp't., 27, pp. 7 and 60. (Yrbk. Am. Pharm. Assoc., 7, p. 239.)

Describes the botanical and structural characteristics of the plant and also touches upon its chemical constituents. States that the rhizome is sold in the American market. Fourteen figures given.

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Higgins, E. 1919.

Medicinal Plants in Bahia.

Commerce Reports, v. 4, no. 502, p. 1722. (Am. Jour. Pharm., 92, p. 183; Pharm. Era, 53, p. 51.)

States Pareira Brava root (*Cissampellos pareira*) is a powerful tonic, remedy for stomach and bladder trouble, beriberi, brain fever, and meningitis.

---

Faltis, F. & Neumann, F.

1921.

Alkaloide der Pareira-Wurzel. (II) Das Isochondodendrin.

Monatshefte für Chemie, 42, p. 311. (Chem. & Drugg., 97, p. 462; Yrbk. Br. Pharm. Conf., 59, p. 18.)

Discusses the alkaloids of pareira root and gives numerous references. States that the true source of pareira root is "Chondodendron platyphyllum".

---

Farwell, O. A.

1927.

Lets Get Better Crude Drugs.

Am. Drugg., 76, p. 16.

States that Pareira root is adulterated with stem. Gives a cut of Pareira and gives a method of detecting similar drugs.

---

Frerichs, G., Arends, G. & Zörnig, H.

1927.

Pareira.

Hager's Handbuch der Pharmazeutischen Praxis, \_\_\_ed., p. 389.

Gives scientific and common name, natural order, part used, synonyms, chemical analysis, and medicinal properties.

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(Editor)

1928.

Pareira Brava.

Chem. & Drugg., 108, p. 877. (Pharm. Era, 8, p. 228.)

Gives the history of Pareira root in their commercial compendium.

---

Hogstad, A. Jr.

1930.

Can you define an Alterative.

Am. Drugg., 82, p. 26.

Discusses the term "alteratives", mentions several drugs classed as such among which is Pareira and gives cuts.

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List of Journals Consulted.

- Am(ericana) Drugg(ist), vol. 13-20, 1884-1891; vol. 73-81,  
1925-1930.
- Am(ericana) Drugg(ist) & Pharm(aceutical) Rec(ord), vol. 22-  
72, 1892-1924.
- Am(ericana) Jour(nal) of Pharm(acy), vol. 1-101, 1829-1929.
- Brit(ish) & Col(onial) Drugg(ist), vol. 12-81, 1887-1928.
- Bull(etin of the ) Am(ericana) Pharm(aceutical) Assoc(iation)  
vol. 1-6, 1906-1911.
- Bull(etin of) Pharm(acy), vol. 5-42, 1891-1928.
- Chem(ist), vol. 1-2, 1824-1825; vol. 1-8, 1840-1847; vol.  
1-4, 1849-1853; vol. 1-6, 1854-1858.
- Chem(ist) & Drugg(ist), vol. 1-112, 1859-1930.
- Dig(est of) Com(ments on the ) U. S. P. & N.F., vol. \_\_,  
1905-1922;
- Drug Bull(etin), vol. 50-52, 1928-1930.
- Drugg(ists) Circ(ular), vol. 1-73, 1857-1929.
- Eclec(tic) Med(ical) Jour(nal), vol. 12-85, 1853-1925.
- Jour(nal of the) Am(ericana) Pharm(aceutical) Assoc(iation),  
vol. 1-18, 1912-1929.
- Jour(nal of) Mat(eria) Med(ica), vol. 1-19, 1859-1880, vol.  
31-34, 1893-1896.
- Merck's Report, vol. 1-24, 1892-1915.
- New Rem(edies), vol. 1-12, 1872-1883.
- Midl(and) Drugg(ist), vol. 1-10, 1899-1909.

Midl(and) Drugg(ist) & Pharm(aceutical) Rev(iew), vol.  
43-61, 1909-1927.

Pharm(aceutical) Era, vol. 1-65, 1887-1928.

Pharm(aceutical) Jour(nal), v. 1-124, 1841-1930.

Pharm(aceutical) Record, v. 4-15, 1884-1893.

Pharm(aceutical) Rev(iew), vol. 14-26, 1896-1908.

Pharm(aceutische) Runds(chau), v. 1-13, 1883-1895.

Pharm(acist) & Chem(ist), vol. 1-18, 1868-1885.

Proc(eedings of the) Am(ericana) Pharm(aceutical) Assoc(iation)  
vol. 1-59, 1851-1911.

The Apothecary (Boston), vol. 1-7, 1904-1910.

The Apothecary (Chicago), vol. 1-6, 1891-1897.

West(ern) Drugg(ist), vol. 2-50, 1880-1928.

Y(ea)rb(oo)k (of the) Am(ericana) Pharm(aceutical)  
Assoc(iation), v. 1-12, 1912-1923.

Y(ea)rb(oo)k (of the) Br(itish) Pharm(aceutical) Conf(erence)  
vol. 4-66, 1867-1928.

List of Books Consulted.

- Baillon, E. H., Dictionnaire de Botanique, v. 1, 1876.
- Bentley, R., & Trimen, H., Medicinal Plants, 1 ed., v. 1, 1880.
- Brodie, B. C., Lectures on the Diseases of the Urinary Organs, 3 ed., 1842.
- Carson, J., Illustrations of Medical Botany, etc., v. 1, 1847.
- Coxe, J. R., Am. Dispens., 1 ed., 1806; 4 ed., 1818; 6 ed., 1825; 7 ed., 1827; 8 ed., 1830; 9 ed., 1831.
- De Candolle, A. P., Prodrromus Systematis Naturalis Regis Vegetabilis, etc., v. 1, 1824.
- Eichler, A. G., Martius', Flora Brasiliensis, v. 13, 1841-1872.
- Engler, A., & Diels, L., Das Pflanzenreich Regni vegetabilis conspectus, 46 Heft, 1910.
- Engler, A., & Prantl, K., Die Vegetation der Erde, etc., 9 ed., v. 3, 1915.
- Engler, A., & Prantl, K., Die natürlichen Pflanzenfamilien, etc., v. 3, 1891.
- Flückiger, F. A., & Hanbury, D., Pharmacographia, 1 ed., 1874; 2 ed., 1879.
- Geiger, P. L., Handbuch der Pharmacie, 1 ed., v. 2, pt. 2., 1829.
- Gobel, K. C. T. F., & Kunze, G., Pharmaceutische Waarenkunde, v. 2, 1830-1834.

- Good, P. P., *The Family Flora*, v. 2, No. 93, 1854.
- Griffith, R. E., *Medical Botany or Descriptions of the more important plants used in medicine, etc.*, 1 ed., 1847.
- Grisebach, A. H. R., *Flora of the British West Indian Islands*, 1864.
- Guibourt, N. J. B. G., *Histoire des drog.*, 4 ed., v. 3, 1850.
- Hager, H., *Handbuch der Pharmaceutischen Praxis*, \_\_ed., v.2, 1878; \_\_ed., v. 1, 1900; \_\_ed., v. 1, 1907; Supplement Ed. \_\_, 1908; \_\_ed., 1927.
- Hill, J., *A History of the Materia Medica*, 1751.
- Hoffmann, F., *Medicina Rationali Systematica*, v. 1, 1846.
- Index Catalogue of the Surgeon-General's Library*, S. 1, v. 10; S. 2, v. 12; S. 3, v. 8.
- Jussieu, A. L., *Genera plantarum secundum ordines naturales disposita, etc.*, 1791.
- King, J., *Am. Dispens.*, 1 ed., 1852; 6 ed., 1864; 8 ed., 1872; 10 ed., 1875; 15 ed., 1881; 16 ed., 1889; 18 ed., 1900.
- Lewis, W., *An Experimental History of the Materia Medica, etc.*, 1761.
- Lindley, J., *Flora Medica*, 1838.
- Lindley, J., *Medical & Oeconomical Botany*, 2 ed., 1856.
- Lindley, J., *The Vegetable Kingdom*, 3 ed., 1853.
- Linne, C., *Materia Medica per Regna Tria Naturae, etc.*, 1 ed., 1772.

- Linne, C., *Species Plantarum*, 1 ed., v. 2, 1753.
- Linne, C., *Systema vegetabilium*, etc., ed. Persoon, 15 ed.,  
1797.
- Long, E., *The History of Jamaica*, v. 1-3, 1774.
- Loudon, Mrs. J. C., *Loudon's Encyclopaedia*, 1855.
- Millspaugh, C. F., *Medicinal Plants*, etc., v. 1 & 2, 1892.
- Murray, J. A. H., *Historical English Dictionary*, v. 7, 1905.
- Nees von Esenbeck, T. F. L., *Plantae officinales*, etc.,  
v. 2, 1828.
- Neumann, D., *Chymiae Medicae*, v. 2, 1752.
- Pereira, J., *The Elements of Materia Medica & Therapeutics*,  
2 ed., v. 2, 1842; *Ibid.*, 3 ed., v. 1, 1852; 1 ed.,  
edited by Farre, F. J., Bentley, R, & Wood, H. C.,  
V. 1, 1866.
- Persoon, C. H., *Synopsis plantarum seu Enchiridium botanicum*,  
etc., v. 2, 1807.
- Piso, W., *de Indae Utriusque Re Naturali Et Medica*, etc.,  
1658.
- Plumier, C., *Nova plantarum americanarum Genera*, 1703.
- Pomet, P., *Histoire Generale des Drogues*, 1695.
- Pritzel, G. A., *Iconum Botanicorum Index*, etc., 1866.
- Pritzel, G. A., *Index Londinensis*, rev. ed., v. 2, 1930.
- Reveil, O., & Dupuis, A., *Le Regne Vegetal.*, v. 9, *Flore  
Medicale Texte 3*, 1870.
- Reveil, O., Dupuis, A., Gerard, Fr., & Herincq, F., *Le  
regne Vegetal.*, v. 4, *Botanique Generale--Atlas 2*;

- v. 10, Flore Medicale--Atlas 3, 1870.
- Sloane, H., Catalogus Plantarum quae in Insula Jamaica,  
1696.
- Stille, A., & Maisch, J. M., Nat'l. Dispens., 1 ed., 1879;  
2 ed., 1879; 3 ed., 1884; 5 ed., 1894.
- Thacher, J., New Am. Dispens., 1 ed., 1810; 2 ed., 1813;  
4 ed., 1821.
- Titford, W. J., Sketches towards a Hortus botanicus american-  
us, 1811.
- Waring, E. J., Pharmacopoeia of India, 1868.
- Wiggers, A., Pharmacognosie, \_\_\_ed., 1863.
- Willdenow, C. L., Linne's Species Plantarum, 4 ed., v. 4,  
1805.
- Wood, G. G., & Bache, F., U. S. Dispens., 2 ed., 1834; 3 ed.,  
1836; 4 ed., 1839; 5 ed., 1843; 6 ed., 1845; 7 ed.,  
1847; 8 ed., 1849; 9 ed., 1851 ; 10 ed., 1854; 11 ed.,  
1858; 12 ed., 1865; 13 ed., 1870; 14 ed., 1879; 15 ed.,  
1883; 17 ed., 1894; 19 ed., 1907; 20 ed., 1918; 21 ed.,  
1926.
- Woodville, W., Medical Botany, 2 ed., v. 1, 1810.

UNITED STATES PHARMACOPOEIA (O-X)

(1820-1920)

and

NATIONAL FORMULARY (I-V)

(1888-1926)

HISTORY

OF

PAREIRA

U.S.P. 1840 S. p. 47.

Pareira. Pareira Brava.

The root of Cissampelos Pareira.

U.S.P. 1850 S. p. 53.

Pareira. Pareira Brava.

The root of Cissampelos Pareira.

U.S.P. 1860 P. p. 41.

Pareira. Pareira Brava.

The root of Cissampelos Pareira.

U.S.P. 1870 P. p. 41.

Pareira. Pareira Brava.

The root of Cissampelos Pareira.

U.S.P. 1880 p. 247.

Pareira

Pareira

(Pareira Brava)

The root of *Chondodendron tomentosum* Ruiz et Pavon  
(Nat. Ord., Meni/spermaceae).

In sub-cylindrical, somewhat tortuous pieces, about four to six inches (10 to 15/ centimeters) long, varying in thickness from three-quarters of an inch to four/ inches (2 to 10 centimeters); externally dark brownish-gray, with

transverse ridges/ and fissures and longitudinal furrows; internally pale brown, the fresh cut hav/ing a waxy lustre; bark thin; wood porous, in two or more somewhat irregularly/ concentric circles, and with distinct medullary rays; inodor-ous and bitter.

Pieces having a bright yellow color, or with a grayish, hard, nearly tasteless/ wood, should be rejected.

Preparation: Extractum Pareirae Fluidum.

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U.S.P. 1890 p. 294.

Pareira

Pareira

(Pareira Brava)

The root of *Chondodendron tomentosum* Ruiz et Pavon (nat. ord./ Menispermaceae).

In subcylindrical, somewhat tortuous pieces, about 10 to 15 Cm. long, vary/ing in thickness from 2 to 10 Cm.; ex-ternally dark brownish-gray, with trans-/verse ridges and fissures and longitudinal furrows; internally pale brown,/ and, when freshly cut, having a waxy lustre; bark thin; wood porous, in two/ or more somewhat irregularly concentric circles, with rather large medullary/ rays, and no distinct central pith; inodorous; taste bitter.

(295) Pieces having a bright yellow color, or the woody portion of which is/ grayish, hard, and nearly tasteless, should be rejected.

Preparation: Extractum Pareirae Fluidum.

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U.S.P. 1900, p. 333.

Pareira

Pareira

{Pareira Brava}

The dried root of *Chondrodendron tomentosum* Ruiz et Pavon (Fam./ Menispermaceae).

Subcylindrical, knotty, and somewhat tortuous, cut into pieces of various/ lengths, 1 to 6 Cm. in diameter; externally blackish-brown, with transverse/ ridges and fissures and longitudinal furrows; hard, heavy, and tough; when/ freshly cut having a waxy lustre, internally yellowish- or brownish-gray, the/ dried transverse sections exhibiting several inequilaterally concentric circles of/ interrupted, porous wood-wedges projecting beyond the markedly retracted in-/tervening tissue of the rather large medullary rays; odor slight; taste bitter.

Average dose. --2 Gm. (30 grains)

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N.F. IV (1916) p. 326.

Pareira

Pareira

(U.S.P. VIII)

Pareira Brava

The dried roots of *Chondrodendron tomentosum* Ruiz et Pavon (Fam./ Menispermaceae), without the presence of more than 5 per cent. of stems/ or other foreign matter.

Nearly cylindrical, more or less tortuous, of variable length and from 1 to 6 cm./ in diameter, externally brownish-black or blackish-brown with transverse ridges on/ knot-like projections, occasionally fissured and longitudinally wrinkled or even/furrowed; hard, heavy and tough; when freshly cut having a waxy luster; the trans/verse surfaces exhibiting several successive eccentric and distinctly radiate con/centric zones of projecting, secondary fibrovascular bundles, each from 2 to 4 mm./ in width, and separated by distinct concentric zones of parenchyma and stone cells./ Stems deeply furrowed, grayish in color, usually covered with foliaceous patches of/ lichens bearing their blackish apothecia; internally grayish-yellow, with a prominent/ development of wood with a tendency to separate fibrovascular bundles and without/ a waxy luster. Odor slight; taste very bitter.

The powder is dark brown, containing numerous starch grains and a few woody / fragments ; starch grains mostly simple, occasionally unequally two- to four-compound,/ the individual grains ellipsoidal or oblong, 0.005 to 0.02 mm. in diameter and occa-/sionally with central clefts or irregular markings; fragments with large, wide/ tracheae, the walls with numerous slit-like pores and associated with long, thick-/walled, strongly lignified, porous wood fibers; stone cells in small groups, with thick/ porous walls and in form resembling those of the fruits and seeds; fragments

of starch-/bearing parenchyma; the cells of the root being thick-walled, strongly lignified and/ with large, longitudinal, elliptical pores; occasional fragments of blackish-brown cork./

Pareira yields not more than 5 per cent of ash.

Average Dose- Metric, 2 Gm. --Apothecaries, 30 grains.

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N.F. V. (1926) p. 372.

PAREIRA

Pareira

Pareir.

Pareira Brava

Pareira is the dried root of *Chondodendron tomentosum* Ruiz et Pavon/ (Fam. Menispermaceae).

Pareira contains not more than 5 per cent of its stems or more than 2/ per cent of other foreign organic matter.

Description and physical properties.

Unground Pareira: Nearly cylindrical or more or less tortuous, of variable length/ and from 1 to 6 cm. in diameter; externally brownish black with transversed/ ridges on knot-like projections, occasionally fissured and longitudinally wrinkled/ or even furrowed; hard, heavy and tough; when freshly cut having a waxy luster;/ the transverse surfaces exhibiting several successive concentric zones of fibro-/vascular bundles, each from 2 to 4 mm. in width crenated borders and sepa-/rated by distinct zones of parenchyma and stone cells, the zones radially marked/ by prominent medullary rays. Stems deeply furrowed, grayish in color,

usually/ covered with foliaceous patches of lichens; internally grayish yellow, with a/ prominent development of wood, with a tendency to separate fibro-vascular/ bundles, and without a waxy luster. Odor slight; taste very bitter.

Powdered Pareira: Dark brown, containing numerous starch grains and a few/ woody fragments; starch grains mostly simple, occasionally unequally 2- to/ 4-compound, the individual grains ellipsoidal or oblong, 0.005 to 0.030 mm./ in diameter and occasionally with central clefts or irregular markings; fragments/ with large, wide tracheae, the walls with numerous slit-like pores and associated/with long, thick-walled, strongly lignified, porous wood fibers; stone cells in / small groups, with thick porous walls and in form resembling those of the fruits/ and seeds; fragments of starch-bearing parenchyma; the cells of the root being/ thick-walled, strongly lignified and with large, longitudinal, elliptical pores; occasional fragments of blackish brown cork.

Preparation: Fluidextractum Pareirae

Average Dose: Metric, 2 Gm. --Apothecaries, 30 grains.

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Summary of Data of U.S.P. 1820-1920  
and N.F., 1888-1926.

Pareira.

Official in U.S.P. 1840, '50, '60, '70, '80, '90, 1900;  
N.F. 1916, '26.

Official Latin Title:

Pareira U.S.P. 1840, '50, '60, '70, '80, '90, 1900;  
N.F. 1916, '26.

Official English Title:

Pareira Brava, U.S.P. 1840, '50, '60, '70.

Pareira, U.S.P. 1880, '90, 1900; N.F. 1916, '26.

Official Abbreviations:

Pareir. N.F. 1926.

Official Synonym:

(Pareira Brava) U.S.P. 1880, '90.

Pareira Brava, N.F. 1916, '26.

Official Family (Nat. Order):

Menispermaceae, U.S.P. 1880, '90, 1900; N.F. 1916, '26.

Botanical Source:

Cissampelos Pareira, U.S.P. 1840, '50, '60, '70.

Chondrodendron tomentosum, U.S.P. 1900.

Chondrodendron tomentosum, U.S.P. 1880, '90; N.F. 1916,  
'26.

Part Used:

Root, U.S.P. 1840, '50, '60, '70, '80, '90.

Dried root, U.S.P. 1900; N.F. 1926.

Dried roots, N.F. 1916.

Commercial Varieties:

None.

Description:

U.S.P. 1840, p. 47; '50, p. 55; '60 & '70, p. 41; '80, p. 247; 1890, p. 294; 1900, p. 333; N.F. 1916, p. 326; '26, p. 372.

Official Preparations:

Extractum Pareirae Fluidum, U.S.P. 1880, '90.

Fluidextractum Pareirae, N.F., 1926.

Dose:

2 Gm. -- 30 grains, 1900; N.F. 1916, '26.

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Approved by W. O. Richtmann

Assoc. Prof. of Pharmacognosy