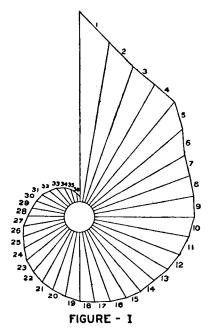
VEGETABLE DRUGS EMPLOYED BY AMERICAN PHYSICIANS.1

JOHN URI LLOYD, PHAR. M.

PART I-Selection by Physicians Other than Eclectic.

During the past year it became the pleasurable duty as well as opportunity of this writer, to make an historical study of both the beginnings and the records of the various vegetable remedies of the Pharmacopeia of the United States. This was issued as a 140 page Bulletin of the Lloyd Library, under the title, "History of the Vegetable Drugs of the Pharmacopeia of the United States."

Came then a question as to the relationship that existed between the various vegetable drugs official in the Pharmacopeia, as contrasted with vegetable reme-



dies not thus recognized, and the extent to which remedies introduced by the Eclectic school of medicine, as well as those peculiar to the Eclectic practice, were employed by physicians of other schools. This led to the preparation of a list of drugs, embodying the principal remedies employed by the Eclectic school of medicine as well as those official. This was distributed to a number of physicians of schools other than Eclectic, all of whom were known to use vegetable remedies, and all of whom were graduates of colleges of recognized professional standing.

The reports received from these physicians were of exceeding interest, and furnished exceptional opportunity for comparative study of the remedies employed. The summary made from these reports is as follows, the accompanying diagram graphically illustrating the same, Fig. 1.

This diagram portrays in graphic form the comparative values of the remedies

²The author expresses his thanks to the house of Lloyd Brothers for permission to summarize the first two reports from their researches, as well as for their financial contribution to the expensive general study (No. 3) herewith presented.

named by the physicians contributing to this report. This figure, as well as Figure II (p. 1231), and III (p. 1236), is the device of Everett I. Yowell, Ph. D., Assistant Professor of Astronomy in the University of Cincinnati. He describes the construction of the shell as follows:

"The graphical representation of data is made, usually, either by straight lines of length proportional to the several given quantities, or by surfaces similarly proportional. The rectangle and circle are of frequent use, but are not available where many quantities are to be represented, on account of the great number of separate figures. In a case like this, a circle, for instance, may be divided into a set of sectors to represent the quantities, by making the central angles proportional to the quantities. This method is objectionable, if there is much disparity in the size of the several quantities, as in the present case; for the circle would have to be of enormous size to represent clearly the smaller quantities. The objection may be met by making a new figure, based on the circle; the central angles of the sectors are equal, but the lengths of the radii vary. Such sectorial areas are represented by numbers whose square roots represent the radii, enabling us to use a set of numbers for radii, much smaller than the given set. The bounding areas are not now continuous; this is remedied by replacing each arc by an inclined line, through its middle point, so drawn that consecutive ones meet on the radius common to two sectors. Thus we form a conch (shell) that expands as it curls, each partition of which represents one of our quantities. The center has been cut out of the present illustration to avoid the confusion of the meeting radii; the original numbers were increased by the proper amount (one in this case) to allow for this.—EVERETT I. YOWELL, Ph. D

TABLE No. I.

(Selecting of remedies by physicians, none of whom were Eclectic.)

1. Echinacea was named by 148 physicians.

Aconite was named by 108 physicians.

Macrotys (Cimicifuga) was named by 96 physicians. Bryonia was named by 91 physicians. Gelsemium was named by 89 physicians.

- Pulsatilla was named by 60 physicians.
- Veratrum was named by 57 physicians.
 Belladonna was named by 55 physicians. Cactus was named by 54 physicians.
- Apocynum and Chionanthus were each named by 51 physicians. Thuja was named by 49 physicians. Nux Vomica was named by 45 physicians. 10.

11. 12.

- Phytolacca was named by 39 physicians. Digitalis was named by 37 physicians. 13. 14.
- 15. Hydrastis was named by 36 physicians. 16. Lobelia was named by 34 physicians. 17. Dioscorea was named by 30 physicians. 18. Ipecac was named by 28 physicians.
- Rhus Tox was named by 27 physicians. 19. 20. Baptisia was named by 25 physicians.
- Collinsonia and Cratægus were each named by 23 physicians. 21.
- 22. Asclepias was named by 21 physicians. 23.
- Apis was named by 19 physicians. Passiflora was named by 17 physicians. 24.
- 25. Cannabis, Viburnum and Hyoscyamus were each named by 14 physicians.

26.

- Iris was named by 13 physicians. Caulophyllum and Staphisagria by 11 physicians. 27.
- 28. Scutellaria, Podophyllum, Eryngium, Mangifera and Helonias were each named by 9 physicians.
- 29. Colchicum, Colocynth, Sticta and Jaborandi were each named by 8 physicians.
- 30. Sanguinaria, Ignatia, Berberis aq., Mitchella, Salix Nigra Aments and Strophanthus were each named by 7 physicians.
- 31. Chelidonium and Drosera were each named by 6 physicians.
- 32. Calendula, Ergot, Eupatorium, Grindelia, Matricaria and Tiger Lily were each named by 5 physicians.
- 33. Adonis, Aletris, Black Haw (Viburnum prunifolium), Cantharides, Cypripedium and Leptandra were each named by 4 physicians.
- 34. Aesculus, Arnica, Asthma weed (Euphorbia pilufifera), Avena, Cascara, Conium, Elaterium, Erigeron, Euphorbia, Euphrasia, Lycopus, Sambucus, Saw Palmetto, Solanum and Valerian were each named by 3 physicians.

Achillea, Amygdalus, Ampelopsis, Aralia, Capsella, Catalpa, Coca, Dulcamara, Eucalyptus, Euonymus, Gravel Root (Euptaorium purpureum), Hamamelis, Pinus Can., Senecio, Stillingia and Xanthoxylum, were each named by 2 physicians.
 Chelone glabra, Cinnamon, Convallaria, Anthemis, Cubeba, Equisetum, Fragrant Su-

36. Chelone glabra, Cinnamon, Convallaria, Anthemis, Cubeba, Equisetum, Fragrant Sumach (Eupatorium aromaticum), Fucus, Gentian, Gossypium, Hydrangea, Lupulin, Matico, Melilotus, Oenanthe crocata, Oxydendron, Piper Methysticum, Plantago, Polymnia, Prunus, Quercus, Rheum, Senna, Serpentaria and Taraxacum were each named by 1 physician.

37. None of the following were named by any physician:

Actæe alba, Agrimonia, Ailanthus. Alnus, Ambrosia, American Hemp (Can. sat.), Barosma, Boletus, Cactus Flowers. Ceanothus, Chimaphila, Cinchona, Cnicus, Coffea, Columbo. Cornus, Corydalis, Damiana, Epigæa, Epilobium, Frasera, Fraxinus, Galium.

Gaultheria. Guaiacum, Guarana. Helleborus, Hepatica, Horse Chestnut, Humulus, Inula, Jacaranda, Jalap, Juglans, Kalmia, Kamala, Lappa, Lycopodium, Marrubium. Myrica, Nepeta. Panax, Penthorum, Physostigma, Polemonium, Polystrichum, Polygonatum,

Polygonum, Prunella, Ptelea. Rhamnus Calif.. Rubus, Rumex. Sarracenia, Senega, Spikenard, Spotted Spurge, Stigmata Maydis, Stramonium Swamp Milkweed, Trifolium. Triticum, Urtica, Ustilago, Verbascum, White Snakeroot, Xanthium Spinosum, Yerba Santa. Zingiber.

Comments on Table No. I.

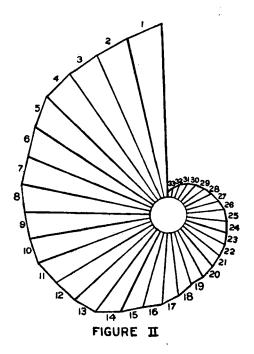
The diagram accompanying (Fig. 1) presents at a glance the comparative importance, in their estimation, of the remedies named by the physicians taking part in this discussion. Scattered throughout the list are to be found drugs both official and non-official, in unexpected positions. For example, Echinacea, a non-official drug, heads the list, being named by 148 physicians, whilst in section 36, out of 25 drugs named by only one physician, 14 are official This last class embraces the old standards Prunus, Rhubarb, Senna, Serpentaria, Cubeba, Gentian, Cinnamon and Taraxacum. In like manner, in the thirty-fifth section (next to the last) Coca appears in company with such seemingly unimportant drugs as Gravel Root (Eupatorium purpureum) and Lycopus.

These facts lead one to ponder over the mighty problem that confronts Pharmacopoeial Revision Committees, whose aim it is to serve the professions of medicine and pharmacy in the selecting of the remedial agents that shall be added to or discarded from the Pharmacopæia. In this connection it is evident, from other considerations than the data embraced in this one summary, that many drugs need be considered from several angles. For example, Cinnamon (No. 35) is very important, for it is not only used enormously in culinary directions, but yields a popular oil, which is also a flavor of merit. Oil of Cubebs is also largely employed as a substitute for the drug itself. Cocaine is enormously used by physicians who do not use Coca as a whole, whilst special preparations, such as the bitterless tincture of Cascara, are favorite forms of the thus much employed Rhamnus purshiana. Enormous amounts of Senna, Buchu, Gentian and other

old favorites, are employed by makers of popular medicines, even though now comparatively neglected by prescribing physicians. Drugs such as Epilobium, Nepeta and Triticum are very properly preferred in decoction and infusion. Such remedies as these must, therefore, be considered by reason of their respective merits and special uses.

It is, however, a fact that many drugs, once supreme, are now obsolete, excepting as lingering relics of Pharmacopæial inheritance. Indeed, some cumberers of the Pharmacopæia have been professionally neglected, almost from the traditional European past, whilst many remedies much used at the present date are conspicuous by reason of their absence from the Pharmacopæia.

Among the striking surprises of Table No. I is the great proportion of official drugs that are scarcely noticed at all, as shown by the fact, already stated, that



out of twenty-five well-known drugs in the last class (No. 36) fourteen were official. Not less interesting, in this connection, is the fact that out of seventy drugs entirely ignored by every physician (No. 37) eighteen are yet official in the Pharmacopæia, some of them being very ancient Pharmacopæial stand-bys. A few of the causes for this condition have been mentioned, and others are recorded in *Part Three* of this paper.

PART II.—Selection of Remedies by Eclectic Physicians.

Since the opinion of no Eclectic physician was voiced in Table No. I, and since in the practice of Eclectic physicians many plant preparations and botanical drugs unrecognized in the U. S. P. have, for many decades, predominated, arose now the question as to how physicians of the Eclectic school of medicine would report

upon the same list of remedies. This led to the distribution among a like number of Eclectic physicians of the list that had previously been sent to physicians of other schools, with the request that the remedies be by them marked, in the order of their importance and use. The reports received from these Eclectic physicians were of increasing interest, especially when contrasted with those previously received from physicians of other schools, and as regards the similarity of the selection, there being a marked resemblance between the two classes, as shown by the following extract from the summing up made by us at that time:

"For the graphic illustration showing the relative importance of the vegetable remedies as used by physicians of the Eclectic school, see the accompanying diagram. (Fig. No. II.)³ The table following shows in a striking manner the comparative importance of each drug, as named by the physicians of the Eclectic school, and also by physicians of schools other than Eclectic."

	Table	No.	II.		
Rank as					Rank in Table
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Eclectic					physicians other
physicians					than Eclectic.
1	Gelsemiumnamed by	105	Eclectic	physicians	. 5
2	Aconitenamed by			physicians	
3	Bryonianamed by			physicians	
4	Macrotysnamed by	90		physicians	
5	Echinaceanamed by			physicians	
6	Belladonnanamed by			physicians	
	Veratrumnamed by			physicians	
8	Nux Vomicanamed by Phytolaccanamed by			physicians	
9	Lobelianamed by			physicians	
10 1 1	Pulsatillanamed by			physicians	
12	Cactusnamed by			physicians	
13	Ipecacnamed by			physicians	
10	Tpecac		Delicenc	projectano	
• • •	Apocynumnamed by	41	Eclectic	physicians	. 10
14 }	Apocynumnamed by Chionanthusnamed by	41	Eclectic	physicians	. 10
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15	Rhus Toxnamed by			physicians	
16	Dioscoreanamed by			physicians	
17	Hydrastisnamed by			physicians	
18	Podophyllumnamed by			physicians	
19	Asclepiasnamed by	15	Eclectic	physicians	. 22
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21	Apisnamed by	13	Eclectic	physicians	. 2 3
22	Ergotnamed by	12	Eclectic	physicians	. 32
23	Passifloranamed by	11	Eclectic	physicians	. 24
,	Destate manual bar	-10	Enlantia	a busisia ma	90
24	Baptisianamed by			physicians	
24 }	Virburnum (opulus)named by	10		physicians	
, ,	Digitalisnamed by	10	Eclectic	physicians	. 14
25	Cratægusnamed by	9	Eclectic	physicians	. 21
26	Jaborandinamed by			physicians	
ſ	Avenanamed by	7		physicians	
27	Colocynthnamed by Ervngiumnamed by	7		physicians	
* 1	Eryngiumnamed by	7		physicians	
	Sanguimarianamed by	7		physicians	
28	Black Hawnamed by	6	Lectic	physicians	. 3 3

^{*}For explanation of diagram, see page 1229.

TABLE No. II.—Continued.

	Caulophyllumnamed	bv	5	Eclectic	physi	cians	27
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29							
	Stillingianamed					cians	
	Tiger Lilynamed	by	5	Eclectic	physi	cians	32
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	Berberisnamed	bv	4	Eclectic	physi	cians	30
	Cannabisnamed					cians	
	Heloniasnamed					cians	
30	Droseranamed	by	4	Eclectic	: physi	cians	31
	Matricarianamed					cians	32
	Senecionamed					cians	35
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	Convallarianamed					cians	36
	Fragrant Sumachnamed	by :	3	Eclectic	physi	cians	36
	Gossypiumnamed	bv :	3	Eclectic	physic	cians	36
	Hydrangeanamed					cians	36
4	Mangiferanamed					cians	28
31	Rumexnamed	by :	3	Eclectic	physic	cians	(unnamed)
	Salix Nigranamed	bv :	3	Eclectic	physic	cians	30
	Scutellarianamed					cians	28
	Strophanthusnamed	Dy 3	3	Eclectic	physic	cians	30
	Xanthoxylumnamed	by :	3	Eclectic	physic	cians	35
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9	Agrimonianamed	by 2	2	Eclectic	physic	cians	(unnamed)
	Aletrisnamed					cians	33,
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i	Cascaranamed					cians	34
	Chelidoniumnamed	by :	2	Eclectic	physic	cians	31
	Cinnamonnamed	bv :	2	Eclectic	physic	cians	36
32						cians	34
324							
	Gravel Rootnamed					cians	35
	Grindelianamed	by :	2	Eclectic	physic	cians	32
1	Ignatianamed	by 3	2	Eclectic	physic	cians	30
	Leptandranamed					cians	33
	Plantagonamed					cians	33
	Triticumnamed	by 2	2.	Eclectic	physic	cians	(unnamed)
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	Amygdalusnamed					ian	35
							36
	Anthemisnamed					ian	
	Calendulanamed					ian	32
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1	Colchicumnamed					ian	29
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- 1	Cypripediumnamed					ian	33
- 1	Epigæanamed	by 1	1.	Eclectic	physic	cian	(unnamed)
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Comments on Table No. II.

Comparison of the list of remedies as employed by Eclectic physicians, with the selection made by physicians of schools other than Eclectic.

Comparing the remedies selected by physicians of the Eclectic school with those presented in Table No. I, compiled from reports of physicians of schools other than Eclectic, we find as a rule a striking similarity in the remedies selected. main remedies, as given in the first part of each list (compare the ranking numbers, given in the first and last columns of Table No. II) are substantially the same, and the remedies named in one list are, as a rule, included in the other, although the position varies somewhat. Aconite stands second in each list, while Bryonia and Macrotys change places, each being third in one list and fourth in the other. Gelsemium and Echinacea also change places in the two lists, Gelsemium heading the list of remedies named by the Eclectic physicians, and holding fifth place in the list of physicians other than Eclectic. Exactly the reverse is true of Echinacea, which heads the list of remedies named by physicians other than Eclectic, while it stands fifth in rank as named by Eclectic physicians. This fact is especially interesting when we consider that Echinacea was introduced to the profession by Eclectic physicians, was long employed and highly valued by them alone, and is still, by the general profession, credited as being an "Eclectic remedy." In other directions, marked deviations occur. For example, Podophyllum, which stands eighteenth in the Eclectic list, falls to 28 in the list of physicians other than Eclectic, while Digitalis, No. 24 in the Eclectic list, ranks as No. 14 in the other list. The low rank given to Digitalis by Eclectic physicians is probably due to the fact that the Eclectic school of medicine has made exceptional studies of more kindly remedies for heart control than the energetic Digitalis. Among the features that will be surprisingly interesting is the fact that Hydrastis stands No. 17 in the Eclectic list, and No. 15 in the companion list, although Hydrastis has for seventy-five years been a recognized "Eclectic remedy."

Remarkable and very interesting comparisons between these two lists may be made in many directions. For example, Pulsatilla, a drug introduced by the Homeopathic profession, and next popular in the Eclectic school, stands No. 11 in the Eclectic list and No. 7 in that of physicians of schools other than Eclectic. Cactus, another presumably Eclectic favorite, stands No. 12 in the Eclectic list and No. 9 in the companion list. However, comparative studies such as these can be made by whoever is interested in this direction, and no doubt many will examine the two lists here given with much interest.

The two studies, a brief resumé of which is here given, indicate that the practicing physicians of America now freely employ any remedial agent that appeals to them as being useful, regardless of either its origin, or the school affiliations of its introducers. Remedies introduced by the Eclectic profession during its seventy-five years' existence are now found in all the Pharmacopæias of the world, and are as freely employed by physicians of other schools as by Eclectics. Indeed, as shown by a comparison of the two lists herein presented, many old-time Pharmacopæial drugs have been abandoned by their former friends, and replaced by the newer Eclectic discoveries. As examples of such we would mention Rumex, Triticum and Zingiber, that were completely ignored by physicians of schools other than Eclectic, although these drugs have had Pharmacopæial records for all

time, and still hold a place among the official remedies named in the Pharmaco-poeia of 1900.

PART III.

Came finally a more cosmopolitan question, namely, whether either of the lists herein presented was fairly representative of the consumption of vegetable remedies by the entire body of general practitioners of the American medical profession. Having become thus involved in the study of this problem, the writer concluded that the question could be fairly answered only through the summarizing of reports from many thousands of physicians, scattered over the entire United States, and embracing all vegetable drugs of any importance whatever. Accordingly, a new list was made of vegetable drugs, embracing all those official in the Pharmacopæia, all the Eclectic vegetable drugs, and in addition the principal members of the Homeopathic materia medica, thus covering all the vegetable drugs employed to any extent by physicians in America, regardless of school or professional affiliation. Under cover of letter postage, and carrying each a return stamped (letter postage) envelope addressed to the writer of this paper, this list was sent to 30,000 physicians, located in every section of the United States, with a request reading as follows:

This page carries the names of all the vegetable drugs of the Pharmacopæia of the United States, 1900 edition, together with those used in the practice of physicians generally.

Place a double cross (xx) before remedies of great value in your practice. Example: xx Aconite.

Place a single cross (x) before all remedies less important. Example: x Aesculus. Cross off all remedies not used at all in your practice. Example: Achillea.

In choosing the physicians to whom this list was sent pains were taken to establish that each should be one whose college of graduation was known, and every physician contributing to the report filled out a blank giving both his college of graduation and the date of his graduation, but no other reference whatever was made to professional affiliations. At the time the summarizing of these reports was made more than 10,000 reports from practicing physicians had been received, to which it may be added that the reports subsequently received (too late to be officially recorded) are seemingly in accordance with those previously received and summarized.

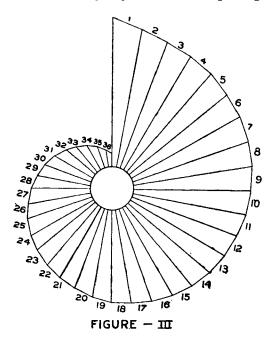
In selecting the names of physicians to whom the list was sent an attempt was made to choose, as far as possible, only those engaged in the general practice of medicine, and directions were given that the list be compiled from the Medical Directory in such a manner as to include only a moderate number of physicians from each city. It was hoped that in this manner the general country practitioner might be prevented from being hopelessly outclassed by the large number of specialists in cities, who might not properly be included in a list of "practicing physicians."

The reports from this final list of drugs are of exceeding interest, as taken in connection with those previously mentioned. They are graphically presented in Fig. No. III, the drugs included being named in Table No. III.

Owing to the large number of reports summarized in this diagram, and the

^{*}For explanation of the diagram, see page 1229.

many drugs represented therein (more than two hundred in number), as well as to the fact that many of these were nearly identical in rank, it was impossible to make the divisions of the wheel represent *single* drugs. They were therefore divided by Professor Yowell into *groups*, or *classes*, beginning with the drug most



frequently named, the difference between these groups being greater than the difference between the successive members of a group.

TABLE No. III.

(The asterisk before a drug indicates that it is official in the 1900 edition of the U. S. P.)

Cactus, (Flowers and Stem) *Hydrastis *Aconite *Gelsemium *Ipecac	mentioned mentioned mentioned	by by by	5634 5618 5540	physicians physicians physicians physicians physicians
3 {*Digitalis* *Ergot* *Belladonna	mentioned mentioned mentioned	by by by	5436 5402 5343	physicians physicians physicians
4 { *Nux Vomica		bу	5246	physicians
Echinacea *Viburnum prunifolium, (Black Haw) *Valerian *Podophyllum	mentioned mentioned mentioned mentioned	by by	4996 4956	physicians physicians
Thuja	mentioned mentioned mentioned mentioned mentioned	by by by	4915 4870 4853	physicians physicians physicians
7 { *Capsicum	mentioned mentioned	by by	4710 4596	physicians physicians

TABLE No. III-Continued.

	No III Continued				
(Pulsatilla	mentioned			
Į	*Apocynum	mentioned			
-8⊀	*Gentiana *Sabal, (Saw Palmetto)	mentioned mentioned	Dy L	4010	physicians
]	*Veratrum, (V. viride)	mentioned			
- [*Hamamelis				physicians
			-		
ſ	*Phytolacca	mentioned	bу	4420	physicians
9∤	*Viburnum, (V. opulus)	mentioned	by	4377	physicians
- 1	*Cimicifuga, (Macrotys)	mentioned			
,	Collinsonia	mentioned	υy	4606	physicians
ſ	*Cannabis Indica	mentioned	bу	4239	physicians
10	Passiflora	mentioned	by	4162	physicians
- 1	Chionanthus	mentioned			
(*Arnica	mentioend	-		
[*Strophanthus	mentioned			
11 }	*Cinchona	mentioned			
- 1	*Sanguinaria	mentioned	by	3955	physicians
(Caulophyllum	mentioned	by	3920	physicians
1	*Cinnamon	mentioned	bу	3913	physicians
12	Rhus Tox	mentioned	by	3858	physicians
••	*Colocynth	mentioned	bу	3814	physicians
ĺ	Gaultheria (Oil of Gautheria is		L	080/	-1
ţ	official)	mentioned	DУ	3794	physicians
- (Dioscorea				physicians
13	Baptisia				physicians
	Asclepias	mentioned	bу	3747	physicians
- (*Eriodictyon, (Yerba Santa)	mentioned	by	3650	physicians
14	*Eucalyptus				physicians
14	{ *Eucalyptus	mentioned	by	3579	phy s icians
. 1	Tris	mentioned	bv	3474	physicians
1	*Mentha piperita				physicians
1	*Stillingia				physicians
J	*Senna				physicians
15					physicians
1	*Carbo Ligni, (Wood Charcoal)				physicians
į	Helonias				physicians
1	*Pilocarpus, (Jaborandi)	mentioned	by	3340	physicians
1	*Grindelia				physicians
	*Gossypium				physicians
16	*Stramonium				physicians
	Aletris				physicians
,	Hydrangea		bу	2101	physicians
	*Glycyrrhiza	mentioned			physicians
17		mentioned	by	2978	physicians
	[*Guaiacum				
18	{ *Taraxacum	mentioned	by	2902	physicians
	{ *Santonica	mentioned	bу	2894	physicians
1	*Calendula	mentioned	by	2761	physicians
	Cratægus *Jalap *Rheum *Triticum	mentioned	bу	2747	physicians
19	*Jalap	mentioned	bу	2739	physicians
	*Rheum	mentioned	by	2726	physicians
ľ	*Triticum	mentioned	þу	2717	physicians
Ų	Damiana	mentioned	DУ	2676	physicians
- (*Berberis	mentioned	Ъv	2607	physicians
ì	*Physosistigma	mentioned	bv	2599	physicians
- 1	*Sarsaparilla	mentioned	bv	2596	physicians
	*Xanthoxylum	mentioned	bv	2565	physicians
20{	Trifolium	mentioned	b y	2553	physicians
- 1	Drosera	mentioned	by	2515	physicians
	*Quassia	mentioned	Dy	2495	physicians
ı	Rhus aromatica, (Fragrant Sumach) Avena	mentioned	Dy b	2488	pnysicians
,	LITCHA	mennoned	υy	2401	pnysicians

THE JOURNAL OF THE

TABLE No. III—Continued.

		iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii			
	*Scutellaria	mentioned	hv	2444	physicians
	Ignatia	mentioned			physicians
	*Scilla	mentioned	by	2410	physicians
	Erigeron, (Oil of Erigeron is Offi-		•		
	Lingeron, (on b) Brigeron is on		١	0000	
21	{ _ cial)	mentioned			physicians
	*Coca	mentioned	bv	2387	physicians
	Adonis				physicians
			рy	2000	pirysicians
	*Conium	mentioned	by	2379	physicians
	Eupatorum purpureum, (Gravel Root)	mentioned	hv	2352	physicians
	*Uva Ursi	montioned			
	C Ova Olsi	memmoned	υy	2329	physicians
	[Coffea, (Caffeine is official)	mantioned	h.,	9200	a husisia na
	Contea, (Capeme is official)	mentioned			physicians
	*Lycopodium	mentioned			physicians
	1 *Convollania	mentioned	hv	2262	physicians
22	*Zingiber			0000	physicians
	L'Emginer	mentioned			physicians
	*Geranium	. metionned	by	2228	physicians
	(*Senega	mentioned			physicians
	C benega	memmed	9	2201	physicians
	(*Staphisagria	mentioned	hv	2145	physicians
	Chelidonium				physicians
	*Euonymus,	mentioned	by	2086	physicians
	Eryngium				physicians
	Pinus canadensis	mentioned			
	{ *Cypripedium	mentioned	by	2062	physicians
23	*Lupulin				
	*Calumba	mentioned			
	*Sassafras	mentioned	by	2042	physicians
	*Eupatorium, (E. perfoliatum)	mentioned			
		mentioned	h	0010	physicians
	(*Serpentaria	mentioned	UУ	2019	physicians
	Rumex	mentioned	h.,	1000	ahusisians.
		mentioned	υy	1996	physicians
	Euphorbia pilulifera, (Asthma Weed)	mentioned	bу	1978	physicians
	Mitchella	mentioned			
24-	Salix Nigra Aments	mentioned	h.,	1050	Shusisians
41		mentioned	υy	1990	physicians
	Aesculus hippocastanum, (Horse				
	(hactwest)				
	(nesimul)	mentioned	bv	1924	physicians
	Chestnut)	mentioned	by hv	1924	physicians
	Acsculus, (Aes. glabra)	mentioned	by by	1924 1894	physicians physicians
	Acsculus, (Aes. glabra)	mentioned	bу	1894	physicians
95	Acsculus, (Aes. glabra)	mentioned mentioned	by by	1894 1850	physicians physicians
25	Acsculus, (Aes. glabra)	mentioned mentioned mentioned	by by by	1894 1850 1825	physicians physicians physicians
25	Acsculus, (Aes. glabra)	mentioned mentioned mentioned	by by by	1894 1850 1825	physicians physicians physicians
25	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus	mentioned mentioned mentioned	by by by by	1894 1850 1825 1742	physicians physicians physicians physicians
25	Acsculus, (Aes. glabra)	mentioned mentioned mentioned mentioned	by by by by by	1894 1850 1825 1742 1700	physicians physicians physicians physicians physicians
25	Acsculus, (Aes. glabra)	mentioned mentioned mentioned mentioned	by by by by by	1894 1850 1825 1742 1700	physicians physicians physicians physicians physicians
	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio	mentioned mentioned mentioned mentioned mentioned mentioned	by by by by by by by	1894 1850 1825 1742 1700 1692	physicians physicians physicians physicians physicians physicians
25 26	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium	mentioned mentioned mentioned mentioned mentioned mentioned inentioned	by by by by by by by	1894 1850 1825 1742 1700 1692 1681	physicians physicians physicians physicians physicians physicians physicians physicians
	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus	mentioned mentioned mentioned mentioned mentioned inentioned mentioned	by by by by by by by by	1894 1850 1825 1742 1700 1692 1681 1654	physicians physicians physicians physicians physicians physicians physicians physicians
	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus	mentioned mentioned mentioned mentioned mentioned inentioned mentioned	by by by by by by by by	1894 1850 1825 1742 1700 1692 1681 1654	physicians physicians physicians physicians physicians physicians physicians physicians
	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia	mentioned mentioned mentioned mentioned mentioned mentioned mentioned mentioned	by by by by by by by by by	1894 1850 1825 1742 1700 1692 1681 1654 1654	physicians physicians physicians physicians physicians physicians physicians physicians physicians
	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus	mentioned mentioned mentioned mentioned mentioned inentioned mentioned	by by by by by by by by by	1894 1850 1825 1742 1700 1692 1681 1654 1654	physicians physicians physicians physicians physicians physicians physicians physicians physicians
	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus	mentioned mentioned mentioned mentioned mentioned mentioned mentioned mentioned mentioned	by	1894 1850 1825 1742 1700 1692 1681 1654 1654	physicians
	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus	mentioned mentioned mentioned mentioned mentioned mentioned mentioned mentioned mentioned mentioned mentioned	by	1894 1850 1825 1742 1700 1692 1681 1654 1596	physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians
	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus Lilium tigrinum, (Tiger Lily)	mentioned mentioned mentioned mentioned mentioned mentioned mentioned mentioned mentioned mentioned mentioned	by	1894 1850 1825 1742 1700 1692 1681 1654 1596 1528 1506	physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians
26 ~	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus	mentioned mentioned mentioned mentioned mentioned mentioned mentioned mentioned mentioned mentioned mentioned	by	1894 1850 1825 1742 1700 1692 1681 1654 1596 1528 1506	physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians
	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus Lilium tigrinum, (Tiger Lily) *Zea, (Stigmata Maydis)	mentioned	by	1894 1850 1825 1742 1700 1692 1681 1654 1596 1528 1506 1504	physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians
26 ~	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus Lilium tigrinum, (Tiger Lily) *Zea, (Stigmata Maydis) *Cardanomum	mentioned	by b	1894 1850 1825 1742 1700 1692 1681 1654 1596 1528 1506 1504 1478	physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians physicians
26 ~	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus Lilium tigrinum, (Tiger Lily) *Zea, (Stigmata Maydis) *Cardamomum *Prunus	mentioned	by b	1894 1850 1825 1742 1700 1692 1681 1654 1596 1528 1506 1504 1478 1426	physicians
26 ~	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus Lilium tigrinum, (Tiger Lily) *Zea, (Stigmata Maydis) *Cardamomum *Prunus	mentioned	by b	1894 1850 1825 1742 1700 1692 1681 1654 1596 1528 1506 1504 1478 1426	physicians
26 ~	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus Lilium tigrinum, (Tiger Lily) *Zea, (Stignata Maydis) *Cardamomum *Prunus *Chimaphila	mentioned	by b	1894 1850 1825 1742 1700 1692 1681 1654 1596 1528 1506 1504 1478 1426 1422	physicians
26 ~	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus Lilium tigrinum, (Tiger Lily) *Zea, (Stigmata Maydis) *Cardanomum *Prunus *Prunus *Chimaphila Piper methysticum	mentioned	by b	1894 1850 1825 1742 1700 1692 1681 1654 1596 1528 1506 1542 1478 1426 1422 1409	physicians
26 ~	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus Lilium tigrinum, (Tiger Lily) *Zea, (Stignata Maydis) *Cardamomum *Prunus *Chimaphila	mentioned	by b	1894 1850 1825 1742 1700 1692 1681 1654 1596 1528 1506 1542 1478 1426 1422 1409	physicians
26 ~	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus Lilium tigrinum, (Tiger Lily) *Zea, (Stigmata Maydis) *Cardannomum *Prunus *Chimaphila Piper methysticum Dulcamara	mentioned	by b	1894 1850 1825 1742 1700 1692 1681 1654 1596 1528 1506 1504 1478 1426 1422 1409 1389	physicians
26 ~	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus Lilium tigrinum, (Tiger Lily) *Zea, (Stigmata Maydis) *Cardanomum *Prunus *Prunus *Chimaphila Piper methysticum Dulcamara *Mentha virdis.	mentioned	by b	1894 1850 1825 1742 1700 1692 1681 1654 1596 1528 1506 1478 1442 1409 1389 1345	physicians
26 ~	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus Lilium tigrinum, (Tiger Lily) *Zea, (Stigmata Maydis) *Cardanomum *Prunus *Prunus *Chimaphila Piper methysticum Dulcamara *Mentha virdis.	mentioned	by b	1894 1850 1825 1742 1700 1692 1681 1654 1596 1528 1506 1478 1442 1409 1389 1345	physicians
26 ~	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus Lilium tigrinum, (Tiger Lily) *Zea, (Stigmata Maydis) *Cardamomum *Prunus *Prunus *Chimaphila Piper methysticum Dulcamara *Mentha virdis. *Buchu, (Barosma)	mentioned	by b	1894 1850 1825 1742 1700 1692 1681 1654 1596 1528 1506 1504 1428 1448 1422 1409 1389 1345 1316	physicians
26 -	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus Lilium tigrinum, (Tiger Lily) *Zea, (Stigmata Maydis) *Cardamomum *Prunus *Chimaphila Piper methysticum Dulcamara *Mentha virdis. *Buchu, (Barosma) Euphrasia	mentioned	by b	1894 1850 1825 1742 1700 1692 1681 1654 1556 1504 1478 1426 1428 1429 1389	physicians
26 ~	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus Lilium tigrinum, (Tiger Lily) *Zea, (Stigmata Maydis) *Cardamomum *Prunus *Chimaphila Piper methysticum Dulcamara *Mentha virdis. *Buchu, (Barosma) Euphrasia Euphorbia, (E. corollata)	mentioned	by b	1894 1850 1825 1742 1700 1692 1681 1654 1556 1504 1478 1426 1422 1409 1389 1345 1293 1293 1293	physicians
26 -	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus Lilium tigrinum, (Tiger Lily) *Zea, (Stigmata Maydis) *Cardanomum *Prunus *Cardanomum *Prunus *Chimaphila Piper methysticum Dulcamara *Mentha virdis *Buchu, (Barosma) Euphrasia Euphorbia, (E. corollata) Lycopus	mentioned	by b	1894 1850 1825 1742 1700 1692 1681 1654 1556 1504 1478 1426 1422 1409 1389 1345 1293 1293 1293	physicians
26 -	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus Lilium tigrinum, (Tiger Lily) *Zea, (Stigmata Maydis) *Cardanomum *Prunus *Cardanomum *Prunus *Chimaphila Piper methysticum Dulcamara *Mentha virdis *Buchu, (Barosma) Euphrasia Euphorbia, (E. corollata) Lycopus	mentioned	by b	1894 1850 1825 1742 1700 1692 1681 1654 1654 1506 1528 1506 1428 1448 1448 1448 1448 1429 1499 1345 1316 1293 1288 1288 1288 1288 1288 1288	physicians
26 -	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus Lilium tigrinum, (Tiger Lily) *Zea, (Stigmata Maydis) *Cardanomum *Prunus *Cnimaphila Piper methysticum Dulcamara *Mentha virdis *Buchu, (Barosma) Euphrasia Euphorbia, (E. corollata) Lycopus *Aurantii Am. Cort.	mentioned	by b	1894 1850 1825 1742 1700 1692 1681 1654 1556 1528 1506 1448 1448 1449 1389 1345 1316 1280 1280 1280 1280 1280 1280 1280 1280 1280 1280 1280 1280 1280 1280 1280	physicians
26 -	Acsculus, (Aes. glabra) *Sumbul Sticta Helleborus Juglans Senecio *Aspidium *Humulus *Spigelia Amygdalus *Caryophyllus Lilium tigrinum, (Tiger Lily) *Zea, (Stigmata Maydis) *Cardanomum *Prunus *Cardanomum *Prunus *Chimaphila Piper methysticum Dulcamara *Mentha virdis *Buchu, (Barosma) Euphrasia Euphorbia, (E. corollata) Lycopus	mentioned	by b	1894 1850 1825 1742 1700 1692 1681 1654 1556 1528 1506 1448 1448 1449 1389 1345 1316 1280 1280 1280 1280 1280 1280 1280 1280 1280 1280 1280 1280 1280 1280 1280	physicians
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TABLE No. III—Continued.

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Comments on Table III.

Many surprises appear in Table III, none being greater to the writer than that which came in the name of the drug heading the list, which might rationally have been expected to occupy a position far down the line. Instead, this drug, in the opinion of Professor Yowell, who devised the diagram (see note page 1229), stands so far above the others as to form a class to itself.

Another surprise to the writer is, that the exclusively American drug, Hydrastis, precedes Aconite, a great favorite among physicians of all schools of medicine, that has for over a century enjoyed a world-wide reputation. Likewise, just how such a drug as Viburnum prunifolium comes to rank in Class 5, and to precede the world-known Podophyllum, of the same class, is inexplicable. The same remark might be made concerning many other drugs, in other classes.

It is of interest to note that Capsicum and Lobelia, two Thomsonian sheet anchors, form a class (No. 7) to themselves, which could not have occurred through their selection by Thomsonian physicians, these being few in proportion to the physicians of other schools.

It will be observed that while Pharmacopæial drugs dominate the first twenty-three classes, this is also true of Classes 33 and 35, while the last class (No. 36) is composed wholly of unofficial drugs. In this connection it should be stated that the printed list submitted to physicians had no mark to designate drugs as Pharmacopæial or otherwise, the name only of the drug appearing.

We must not overlook the fact previously mentioned (p. 1230) that many drugs seldom employed as simples (as Santonica) yield constituents that are freely em-

This list accompanies our paper.

ployed in medicine under distinctive names, whilst others, seemingly little used, are employed largely in the form of unofficial pharmaceutical preparations of which these drugs form a part. This phase of the subject has, however, been already discussed.

In considering the subject broadly, the writer is led to the opinion that the majority of physicians are guided in their uses of remedies by their own judgment, based upon clinical observation and professional necessity. It is evident that physicians in actual practice generally prescribe as they see fit, regardless of whether a drug or a preparation is mentioned in the Pharmacopæia or has been recommended by their therapeutic instructors, or whether it be advocated or not by the leaders now in authoritative positions.

The writer will freely confess that a study such as this leads to distractive confusion and a shattering of ideals. It reminds him of an experience some years ago when, hoping to curtail the number of cathartic remedies that it was his duty to prepare for physicians, he ventured to send a list of the best known cathartics to a selected number of physicians who, by reason of their practice and positions, might be considered representative, with a request that they cross off from the list each cathartic that in their opinion could be excluded from the physician's armamentarium. To his surprise, the reports indicated not only the advisability of retaining the entire list, but the increasing of it by several additions.

Unquestionably, many physicians of prominence do not use remedies that with others are favorites, and vice versa. Possibly, also, the reports here summarized are dominated by physicians versed in the use of vegetable remedies, those neglecting them failing to reply. In passing it may be said that one physician crossed off every item but Opium, with the comment that no other remedy was necessary!

In it all the writer feels under many obligations to the many physicians who have collaborated with him in this work, and who, without exception, took great pains to be courteous, while many were even enthusiastic. Many hundreds of letters of great interest came to him in connection with this list, but these necessarily cannot be even commented on in these pages.

This paper may well close with the remark that, in the writer's opinion, the Pharmacopæial Committee is confronted, in drug selection, with a perplexing problem. Whatever may be their action, criticism is certain in some directions because of remedies included, whilst in other directions, certain of the remedies excluded will be made subjects of adverse comment. Drugs that with many physicians are favorites will surely be omitted from the 1910 revision of the U. S. P. whilst others little used by some practicing physicians will certainly be retained. Be this as it may, it is to be hoped that this study, with its many striking features, will lead those inclined to harsh criticism and strictures to a more liberal comprehension of the materia medica problem as a whole, and to a kindlier view, when the new edition of the Pharmacopæia appears, in case they feel that blunders of either omission or commission have been made. At any rate, in case this statistical study be placed on record, it will, as time goes by, be of interest to those desirous of commenting upon the drug records of the past.