

AN EVALUATION OF MEDICAL PERIODICALS

JENNIE GREGORY, M.S.

PART I

THE evaluation of any literature, scientific or artistic, is a difficult matter. Whether a book or an article is pronounced good or bad depends much on the personal bias of the reviewer. In the main, the soundest test for all literature—be it the work of Shakespeare or of Harvey—is the test of time and use.

The evaluation of journals as organs of medical research is a somewhat different matter,—and yet, not so different, either. The test of time can be and indeed has been applied to them, for the shelves of medical libraries are burdened with many an age-yellowed sporadic journal and pamphlet—once the mouth-piece of some learned society. But nowadays new journals appear almost monthly, until even the richest libraries cannot afford them all; nor can the most indefatigable reader hope to do more than scan the contents of the more important journals. Today there are approximately 2,220 medical and biological periodicals, 511 of which are published in this country alone. It is this almost staggering amount of material that demands some evaluation, some sorting-out of the most useful publications.

Whoever makes such an attempt (and obviously the research man himself cannot wait for time to do this) must choose some criterion for estimating the usefulness of journals. Any criterion would necessarily be more or less arbitrary and open to criticism. The one chosen, in this survey, for evaluating the usefulness of the periodicals in a given field, was simply the frequency with which they were cited in bibliographies encompassing that field. There may be some objection to the evaluating of a journal's usefulness merely by counting the number of times it is cited by authorities in a given field. This method would seem to penalize the journal that offers many minor contributions. But such did not seem to be the case in endocrinology, the field that was used for a trial of the method (3). A fair evaluation of the journals in this field was obtained, and therefore the method was extended into the present survey. A similar determination of the value of periodicals in fields other than medicine has been carried out—in chemistry (5), mathematics (1), and geology (2). In medicine it has been done for

general medicine (4, 7), endocrinology (3), and endocrinology of sex (6).*

To be more specific as to method: bibliographies on the various subjects were obtained from suitable sources (usually from a single source to each field, but in some cases from a combination of sources), and the references to each journal were tabulated individually. The sources of the bibliographies vary somewhat from field to field but on the whole they are comparable. At first it was planned to use three sources of material: (1) Long bibliographies from recent books on the subject, such as Cameron's "Recent advances in endocrinology"; (2) Bibliographies from journals confined to a single field, such as the *American Journal of Roentgenology and Radium Therapy*; (3) Abstract journals. As the study developed it became apparent that the second of these sources was the best, for the bibliographies in journals were of later date than those in books of a survey nature, they contained more references, and were much more generally accessible. The third group was discarded altogether because of the tendency of abstract journals to give abstracts from journals that are to be obtained only with difficulty, to the exclusion of those of wide circulation. It was suggested that the *Quarterly Cumulative Index Medicus* would be a uniform source, but use of it would have defeated the purpose of the analysis,—namely, an evaluation based on *use*; for the *Quarterly Cumulative* lists all articles, while bibliographies presumably list only the articles actually used. The *Quarterly Cumulative* also lists articles only once, while an article, if it is really of value, may be referred to several times in the bibliographies.

In most cases, the references in one volume of a periodical were used, although in some cases two volumes were required to give a sufficient number. Each of the tabulations was based on more than 500 references. The minimum is actually higher than 500, since no references to a journal were counted unless that journal was referred to more than once. The average number of references (to all sources) is 990.

There was some question as to what should constitute an adequate number of references. The minimum of 500 was finally decided upon. That it was a good choice is borne out by the following results. After the tabulations were made, the number of references was correlated with the number of journals

* For a similar appraisal of dental periodicals, see Dr. Ingo Hackh's article in the preceding number of this BULLETIN, 25: 109. (Editor's note.)

referred to. The correlation coefficient was $.738 \pm .064$. There is a relatively slow increase of the number of journals cited, in comparison with the increase of the number of references.¹ The largest tabulation for any one field was 2,500 references to 129 journals; and the smallest, 503 references to 73 journals. Clearly, the number of references and the number of journals referred to do not increase at the same rate.

The next question was: would the references yield a list of journals that would contain three-fourths of the important material? Jenkins (4) showed that the law of diminishing returns holds true for one who peruses all the literature in general medicine. Mengert (6) showed the operation of this law in the literature on the endocrinology of sex. This fact has been brought out again in a graph * which represented the average per cent. of articles in the number of journals. This graph showed that for the first two journals in the lists the average per cent. of articles to the average field is twenty-five per cent.; for the first eight, fifty per cent.; and for the first twenty-five, seventy-five per cent. Therefore compilation was made of comparatively short lists of journals that contain practically all of the literature relating to each field; consequently, the interesting conclusion is reached that one does not need to examine all the periodicals in a given field and allied fields to cover the subject adequately.

From the frequency tabulations mentioned above, the journals were arranged in the order of their importance for each field. For this publication, the lists have been shortened to twenty-five journals or less, but in every case they cover from two-thirds to three-fourths of the material.

This method of tabulation has the disadvantage of not giving any indication of the usefulness of abstract journals and journals with abstract sections. An attempt has been made to overcome

¹ The findings were as follows, listed in the ascending order of the number of references, and given in "round" numbers except in the cases of the largest and the smallest tabulations:

<i>No. of fields</i>	<i>No. of references</i>	<i>Journals referred to</i>
I	503	73
11	500 to 700	50 to 100
9	760 to 1000	50 to 100
3	1500 to 1600	120 to 150
I	1850	130
I	2475	335
I	2500	129

* Not reproduced, since the author's excellent summary gives us everything but the actual "curve" itself. (Editor's note.)

this lack by appending a list of such journals useful in each field. (See the comment following each table.)

In nearly every case the journal which was used in tabulating appears first in the list of journals for its field. This, at first glance, seems to indicate that writers publishing in a given journal are unduly partial in citing references to it and that the result is unfair to other journals. This conclusion has been demonstrated to be untrue in the case of other sciences, and there is no reason why medicine should be an exception.

The choice of fields to tabulate was a difficult problem, and the place of some in the list may be questioned. The criterion was again one of use. An attempt was made to include any field that might be useful by itself. For example, the study of diabetes is not a field in the sense that otolaryngology and surgery are; but there are clinics and research groups devoted exclusively to diabetes, and thus a section on journals of interest to these groups seems advisable. It is possible that other groups of equal importance have been omitted, but it is hoped that the omissions have been few. These lists, together with the abstract sources appended, should solve the problem of what to read to "keep up with the literature."

(Text continued on p. 185)

1. ANESTHESIA AND ANALGESIA			2. SURGERY			3. BACTERIOLOGY		
Rank	Journal	cum. % ref.	Rank	Journal	cum. % ref.	Rank	Journal	cum. % ref.
1.	Curr. Res. Anesth. & Analg.	10.0	1.	Arch. Surg.	7.9	1.	J. Exper. Med.	12.7
2.	J. A. M. A.	18.5	2.	Ann. Surg.	15.7	2.	J. A. M. A.	21.2
3.	Am. J. Physiol.	23.1	3.	Surg., Gynec. & Obst.	23.5	3.	J. Infect. Dis.	28.6
4.	Zentralbl. f. Gynäk.	27.2	3.	J. A. M. A.	30.5	4.	Zentralbl. f. Bakt.	35.3
5.	Am. J. Surg.	31.2	4.	Arch. f. klin. Chir.	34.6	5.	Ann. Inst. Pasteur	39.9
6.	J. Pharmacol. & Exper. Therap.	35.0	5.	Brit. M. J.	38.4	6.	J. Bact.	44.4
7.	Arch. Surg.	38.6	5.	Zentralbl. f. Chir.	42.2	7.	Ztschr. f. Hyg. u. Infektionskr.	48.7
8.	Surg., Gynec. & Obst.	41.9	6.	Am. J. Surg.	45.3	8.	Deutsche med. Wchnschr.	52.8
9.	J. Am. Chem. Soc.	45.0	7.	Lancet	48.1	J.	J. Immunol.	55.9
10.	Am. J. Obst. & Gynec.	47.6	8.	Beitr. z. klin. Chir.	50.6	10.	Proc. Soc. Exper. Biol. & Med.	58.8
11.	Brit. M. J.	49.2	9.	Deutsche Ztschr. f. Chir.	55.4	11.	Pub. Health Rep.	61.5
11.	J. Lab. & Clin. Med.	51.7	10.	Am. J. M. Sc.	57.4	12.	J. Med. Research	64.1
12.	Deutsche med. Wchnschr.	54.1	11.	Virehows Arch. f. path. Anat.	59.2	13.	J. Path. and Bact.	66.5
12.	München. med. Wchnschr.	56.4	12.	München. med. Wchnschr.	60.8	14.	Lancet	68.7
13.	Schmerz Narkose-Anaesth.	58.5	13.	New England J. Med.	62.3	15.	Compt. rend. Soc. de Biol.	70.7
14.	Arch. f. exper. Path. u. Pharmakol.	60.1	14.	Am. J. Physiol.	63.7	16.	Bull. Johns Hopkins Hosp.	72.6
14.	Arch. Int. Med.	61.7	14.	Arch. Neurol. u. Psychiat.	65.1	16.	Klin. Wchnschr.	74.5
14.	California & West. Med.	63.3	14.	Deutsche med. Wchnschr.	66.5	17.	Compt. rend. Acad. Sc.	76.3
14.	Zentralbl. f. Chir.	64.9	14.	J. Urol.	67.9	18.	Am. J. Pub. Health	78.0
15.	Ann. Surg.	66.4	15.	Brit. J. Surg.	69.2	19.	Brit. M. J.	79.5
15.	J. Biol. Chem.	67.9	16.	Proc. Soc. Exper. Biol. & Med.	70.3	20.	J. Hyg.	81.0
15.	Proc. Roy. Soc. Med. (section on anesth.)	69.4	17.	Am. J. Roentgenol.	71.4	21.	München. med. Wchnschr.	82.4
16.	Klin. Wchnschr.	70.8	17.	Surg. Clin. N. A.	72.4	21.	Wien. klin. Wchnschr.	83.8
16.	Proc. Staff Meet. Mayo Clin.	72.2	17.	Bull. et Mem. Soc. d. Chirurgiens de Paris	73.4	22.	Am. J. Hyg.	85.1
	50 others (26.7%)	98.9	17.	M. Rec.	74.4		Science	86.4
	Data from <i>Curr. Res. in Anesth. & Analg.</i> , vols. 10-12, 1931-1933. Tabulation of these data yielded 799 references to 74 journals.		17.	Ztschr. f. orthop. Chir.	75.4		104 others (13.4%)	99.8
	Abstract sources for this field:			81 others (34.6%)	100.0		Data from the "Textbook of bacteriology," by Zinsser and Bayne-Jones, 7th ed. (Appleton-Century, 1934). Tabulation of these data yielded 2597 references to 129 journals.	
	Internat. Abstr. Surg.			Data from <i>Arch. Surg.</i> , vol. 30, 1935.			Abstract sources for this field:	
	Curr. Res. in Anesth. & Analg.			Tabulation of these data yielded 1000 references to 109 journals.			Biol. Abstr.	
	Chem. Abstr.			Abstract sources for this field:			Zentralbl. f. Bakt.	
				Internat. Abstr. Surg.				
				J. Bone & Joint Surg.				
				Zentralbl. f. Chir.				
				Rev. de Chir.				

4. INFECTIOUS DISEASES			5. PARASITOLOGY			6. CANCER.		
Rank	Journal	cum. % ref.	Rank	Journal	cum. % ref.	Rank	Journal	cum. % ref.
1.	J. Infect. Dis.	15.0	1.	J. Parasitology	16.7	1.	Am. J. Cancer	11.5
2.	J. Exper. Med.	26.8	2.	Am. J. Hyg.	32.5	2.	Virchows Arch. f. path. Anat.	16.2
3.	J. Bact.	32.1	3.	Parasitology	39.1	3.	Surg., Gynec. and Obst.	20.4
4.	Zentralbl. f. Bakt.	37.0	4.	Ann. Trop. Med.	43.1	4.	Ztschr. f. Krebsforsch.	24.5
5.	Compt. rend. Soc. de Biol.	41.5	5.	Science	46.0	5.	J. A. M. A.	27.8
6.	Proc. Soc. Exper. Biol. & Med.	45.3	6.	Am. J. Trop. Med.	48.2	6.	Arch. Surg.	30.6
7.	Ztschr. f. Hyg. u. Infektionskr.	48.8	7.	J. Am. Vet. M. A.	50.4	7.	Compt. rend. Soc. de Biol.	33.3
8.	Arch. Inst. Past. Tunis	52.2	8.	Arch. f. Schiffs- u. Tropen-Hyg.	52.4	8.	Ann. Surg.	35.8
9.	J. A. M. A.	55.0	9.	J. Helminthol.	54.4	8.	J. Biol. Chem.	38.3
10.	J. Immunol.	57.5	7.	Tr. Am. Micr. Soc.	56.4	9.	J. Exper. Med.	40.7
11.	J. Am. Vet. M. A.	59.6	8.	Ann. de Parasitol.	58.3	9.	Lancet	43.1
12.	Ann. Inst. Past.	61.5	8.	Arch. Naturg.	60.2	10.	Arch. Path.	45.4
13.	Brit. J. Exper. Path.	63.3	8.	J. A. M. A.	62.1	11.	Am. J. Obst. and Gynec.	45.4
14.	Am. Rev. Tuberc.	65.0	9.	Ill. Biol. Monogr.	63.8	11.	Beitr. z. path. Anat. u. z. allg. Path.	47.3
15.	J. Path. and Bact.	66.6	9.	Zool. Anz.	65.5	12.	Bull. Assoc. franç. p. l'étude du Cancer	49.2
15.	Science	68.2	10.	Compt. rend. Soc. de Biol.	67.1	13.	Am. J. M. Sc.	51.0
16.	J. Biol. Chem.	69.8	10.	Zool. J. Abt. Syst.	68.7	13.	Biochem. J.	52.7
16.	J. Lab. and Clin. Med.	71.3	11.	Bull. Soc. Path. Exot.	70.0	14.	Beitr. z. klin. Chir.	54.4
17.	J. Med. Research	72.8	12.	Biol. Bull.	71.2	15.	Proc. Soc. Exper. Biol. and Med.	56.0
18.	J. Prev. Med.	74.0	12.	Proc. U. S. Nat. Mus.	73.4	16.	Zentralbl. f. Gynäk.	57.5
18.	Pub. Health Rep.	75.1	13.	J. Exper. Med.	73.4	17.	Arch. f. Gynäk.	60.2
19.	Bull. Johns Hopkins Hosp.	76.2	13.	Arch. Protistenk.	75.5	17.	Biochem. Ztschr.	61.5
20.	Am. J. Trop. Med.	77.2	14.	Indian M. Gaz.	76.4	18.	Arch. f. exper. Zellforsch.	62.7
20.	J. Am. Chem. Soc.	78.1	14.	J. Trop. Med.	77.3	19.	Arch. Int. Med.	63.8
20.	Ztschr. f. Immunität.	79.0	14.	U. S. D. A. Bull.	78.2	19.	Canad. M. A. J.	64.9
	52 others (19.3%)	99.2		54 others (22.2%)	100.4	19.	J. Path. and Bact.	66.0
	Data from the <i>J. Infect. Dis.</i> , vols. 54-56, 1934-35. Tabulation of these data yielded 883 references to 52 journals.			Data from the <i>J. Parasitology</i> , vols. 21-18, 1935-1932. Tabulation of these data yielded 695 references to 80 journals.		19.	Klin. Wchnschr.	67.1
	Abstract sources for this field: Biol. Abstr. (since 1926) Bact. Abstr. (prior to 1926) Zentralbl. f. Bakt.			Abstract source for this field: Zentralbl. f. Bakt.			81 others (33.0%)	100.1
							Data from the <i>Am. J. Cancer</i> , vols. 23-1014 references to 81 journals.	
							Abstract sources for this field: Am. J. Cancer Ztschr. f. Krebsforsch. Internat. Abstr. Surg. Cancer Rev.	

7. RADIOLOGY			8. ROENTGENOLOGY			9. CARDIOLOGY		
Rank	Journal	cum. % ref.	Rank	Journal	cum. % ref.	Rank	Journal	cum. % ref.
1.	Am. J. Roentgenol.	9.9	1.	Am. J. Roentgenol.	13.8	1.	Am. Heart J.	13.9
2.	J. A. M. A.	19.3	2.	J. A. M. A.	25.6	2.	J. A. M. A.	25.9
3.	Radiology	26.2	3.	Radiology	31.7	3.	Arch. Int. Med.	37.3
4.	Fortsch. a. d. Geb. d. Röntgenstrahlen	32.1	4.	Ann. Surg.	36.4	4.	Am. J. M. Sc.	46.1
5.	Surg., Gynec. and Obst.	35.6	5.	Surg., Gynec. and Obst.	40.2	5.	J. Clin. Investigation	51.7
6.	Acta Radiol.	41.2	6.	J. Bone and Joint Surg.	43.6	6.	New England J. Med.	54.0
7.	Arch. Surg.	43.5	7.	Arch. Surg.	46.6	7.	München. Med. Wechschr.	56.2
8.	Am. J. Cancer	47.3	8.	J. Urol.	49.3	8.	Ztschr. f. klin. Med.	58.4
9.	Arch. Int. Med.	49.9	9.	Am. J. Dis. Child.	51.8	9.	Proc. Soc. Exper. Biol. and Med.	60.4
10.	Ann. Surg.	51.8	10.	Wien. klin. Wechschr.	54.1	10.	Ann. Int. Med.	62.4
11.	Radiol. Med.	53.7	11.	Am. J. M. Sc.	56.2	11.	Quart. J. Med.	64.0
11.	Am. J. Surg.	55.2	11.	Brit. M. J.	58.3	12.	Ann. Int. Med.	65.6
11.	Bull. et Mem. Soc. med. d. Hôp. de Paris	56.7	12.	Am. J. Cancer	60.2	9.	J. Exper. Med.	67.2
11.	Virchows Arch. f. path. Anat.	58.2	12.	New England J. Med.	62.1	9.	Klin. Wechschr.	68.8
12.	Beitr. z. klin. Tuberk.	59.7	13.	Strahlentherapie	64.0	9.	Med. Klin.	70.4
12.	Brit. M. J.	61.0	13.	Arch. Int. Med.	65.7	10.	Tr. A. Am. Physicians	71.9
12.	J. de Radiol. et d'Electrol.	62.3	14.	Am. Rev. Tuberc.	67.2	10.	Med. Clin. N. A.	73.4
12.	Röntgenpraxis	63.6	14.	Brit. J. Radiol.	68.7	11.	Am. J. Path.	74.7
12.	Vestnik roentgen. i rad.	64.9	14.	Lancet	70.2	12.	Clin. Sc.	75.8
13.	Lancet	66.2	14.	München. med. Wechschr.	71.7	12.	Lancet	76.9
13.	Am. J. Path.	67.3	15.	Arch. f. klin. Chir.	73.0	12.	Medicine	77.0
14.	Am. J. Path.	68.2	16.	Acta Radiol.	74.1	13.	South. M. J.	78.1
14.	Am. Rev. Tuberc.	69.1	49 others (27.9%)		102.0	13.	Arch. f. exper. Path. u. Pharmakol.	79.1
14.	J. Bone and Joint Surg.	70.0	Data from the <i>Am. J. Roentgenol. & Radium Therapy</i> , vol. 34, 1935. Tabulation of these data yielded 528 references to 71 journals.			13.	J. Biol. Chem.	80.1
14.	J. Thoracic Surg.	70.9	Abstract sources for this field:				37 others (18.5%)	98.6
14.	Rev. Neurol.	71.8	Am. J. Roentgenol.				Data from "The diagnosis and treatment of diseases of heart," by Christian (Oxford univ. pr., 1935); and "Diseases of the heart and blood vessels," by Wolferth, in <i>Progressive Medicine</i> , vol. 3 (Lea & Febiger, 1931).	
14.	Strahlentherapie	72.7	Radiology				Tabulation of these data yielded 605 references to 61 journals.	
	Data from <i>Radiology</i> , vol. 25, 1935. Tabulation of these data yielded 544 references to 82 journals.	101.5	Internat. Abstr. Surg.				Abstract sources for this field:	
	Abstract sources for this field:		J. Bone & Joint Surg.				Am. Heart J.	
	Am. J. Roentgenology		Fortschr. a. d. G. d. Röntgenstr.				Zentralbl. f. Herz. u. Gefass. Krankh.	
	Internat. Abstr. Surg.						Arch. des Mal. du Coeur	
	Fortschr. a. d. G. d. Röntgenstr.							

10. HEMATOLOGY			11. DERMATOLOGY AND SYPHILOLOGY			12. ALLERGY		
Rank	Journal	cum. % ref.	Rank	Journal	cum. % ref.	Rank	Journal	cum. % ref.
1.	J. A. M. A.	10.3	1.	Arch. Dermat. and Syph.	23.3	1.	J. Allergy	29.0
2.	Arch. Int. Med.	18.9	2.	Arch. Dermat. u. Syph.	31.8	2.	J. A. M. A.	44.0
3.	J. Exper. Med.	26.8	3.	J. A. M. A.	39.1	3.	J. Lab. and Clin. Med.	49.6
4.	Am. J. M. Sc.	32.2	4.	Brit. J. Dermat. and Syph.	42.1	4.	J. Immunol.	54.0
5.	Deutsche Arch. f. klin. Med.	36.2	5.	Klin. Wchnschr.	45.1	5.	Am. J. M. Sc.	57.8
6.	Ztschr. f. klin. Med.	39.9	6.	Ann. de Dermat. et. Syph.	47.8	6.	Arch. Int. Med.	61.4
7.	Am. J. Physiol.	43.5	7.	Bull. Soc. franç. de Dermat. et Syph.	49.8	7.	Arch. Dermat. and Syph.	64.0
8.	Bull. Johns Hopkins Hosp.	46.9	8.	Dermat. Wchnschr.	51.8	8.	Compt. rend. Soc. de Biol.	65.6
9.	New England J. Med.	50.0	9.	München. med. Wchnschr.	53.8	8.	Illinois M. J.	67.2
10.	Deutsche med. Wchnschr.	55.2	10.	Arch. Int. Med.	55.7	8.	Med. Rec.	69.8
11.	Klin. Wchnschr.	57.4	7.	Deutsche med. Wchnschr.	57.6	8.	Proc. Soc. Exper. Biol. and Med.	71.4
11.	München. med. Wchnschr.	59.6	8.	Lancet	59.4	9.	Ann. Int. Med.	74.5
12.	J. Med. Research	61.5	9.	Dermat. Ztschr.	62.3	10.	Am. J. Dis. Child.	75.8
13.	Folia Haemat.	63.2	10.	Zentralbl. f. Haut- u. Geschlechtskr.	63.5	10.	J. Exper. Med.	77.1
14.	Brit. M. J.	64.8	11.	Am. J. M. Sc.	64.7	10.	Lancet	78.4
15.	J. Physiol.	66.3	11.	Arch. Neurol. and Psychiat.	65.8	10.	New England J. Med.	79.7
15.	Virchows Arch. f. path. Anat.	67.8	12.	Bull. Johns Hopkins Hosp.	66.8	11.	Am. J. Physiol.	80.7
16.	Quart. J. Med.	69.2	13.	Brit. M. J.	69.8	11.	California and West. Med.	81.7
17.	Compt. rend. Soc. de Biol.	70.5	13.	Folia Haematol.	67.8	12.	Biochem. Ztschr.	82.7
17.	J. Path. and Bact.	71.8	13.	N. Y. State J. M.	68.8	12.	Canad. M. A. J.	83.5
17.	Med. Klin.	73.1	13.	Virchows Arch. f. path. Anat.	69.8	12.	J. Biol. Chem.	85.1
18.	Arch. f. exper. Path. u. Pharmakol.	74.2	14.	Am. J. Syph. and Neurol.	70.7	12.	Klin. Wchnschr.	85.9
18.	Jahrb. f. Kinderh.	75.3	14.	J. Infect. Dis.	71.6	12.	Texas State J. Med.	86.7
18.	J. Biol. Chem.	76.4	14.	Med. Klin.	72.5	31	others (14.2%)	100.9
	58 others (23.6%)	100.0	14.	Med. Rec.	73.4		Data from the J. of Allergy, vol. 6, nos. 2-5, 1935; and "Allergy in general practice," by Feinberg (Lea & Febiger, 1934). Tabulation of these data yielded 613 references to 56 journals.	
	Data from "Diseases of the blood" (by various authors), in <i>Oxford Medicine</i> . Tabulation of these data yielded 801 references to 83 journals.		14.	Presse Méd.	74.3		Abstract source for this field: J. of Allergy (after 1935)	
	Abstract sources for this field: Am. Heart J. Folia Haematol. Zentralbl. f. Herz. u. Gefass. Krankh. Ztschr. f. Kreislauf. Arch. des Mal. du Coeur		72	others (25.0%)	99.3			
				Data from <i>Arch. Dermatol. & Syphilol.</i> , vols. 30-31, 1934-35. Tabulation of these data yielded 894 references to 99 journals.				
				Abstract sources for this field: Arch. Derm. & Syph. Urol. & Cutan. Rev. Am. J. Syph. Dermat. Zentralbl. Zentralbl. f. Haut- u. Geschlecht.				

13. OTOLARYNGOLOGY			14. ENDOCRINOLOGY			15. DIABETES		
Rank	Journal	cum. % ref.	Rank	Journal	cum. % ref.	Rank	Journal	cum. % ref.
1.	Arch. Otolaryngol.	13.4	1.	Am. J. Physiol.	9.1	1.	J. A. M. A.	12.3
2.	Ann. Otol., Rhin. and Laryngol.	23.7	2.	Compt. rend. Soc. de Biol.	17.2	2.	Arch. Int. Med.	21.4
3.	Laryngoscope	30.1	3.	Endocrinol.	24.5	3.	New England J. Med.	28.9
4.	Ztschr. f. Hals-, Nasen- u. Ohrenh.	36.5	4.	Proc. Soc. Exper. Biol. and Med.	30.2	4.	J. Biol. Chem.	36.1
5.	J. A. M. A.	41.7	5.	Klin. Wchnschr.	34.2	5.	Am. J. M. Sc.	43.0
6.	J. Laryngol. and Otol.	45.9	6.	Arch. f. exper. Path. u. Pharmakol.	38.0	6.	Klin. Wchnschr.	47.0
7.	J. Allergy	49.8	7.	J. Biol. Chem.	41.8	7.	Am. J. Physiol.	50.5
8.	Acta Oto-laryng.	52.0	8.	Endocrinol.	45.3	8.	J. Clin. Investigation	52.8
9.	Monatschr. f. Ohrenh.	54.7	9.	J. A. M. A.	48.8	9.	Ann. Int. Med.	54.7
10.	Ann. d'oto-laryng.	56.8	10.	J. Physiol.	52.3	10.	Bull. Johns Hopkins Hosp.	56.5
11.	Am. J. M. Sc.	58.7	11.	Ztschr. f. d. ges. exper. Med.	55.1	11.	Proc. Soc. Exper. Biol. and Med.	58.1
12.	Lancet	60.5	12.	Biochem. Ztschr.	57.6	12.	Endocrinol.	59.8
13.	Surg., Gynec. and Obst.	62.3	13.	Arch. Int. Med.	60.1	13.	Acta Med. Scandinav.	61.3
14.	Ann. Surg.	64.0	14.	Canad. M. A. J.	62.1	14.	Brit. M. J.	62.8
15.	Arch. ital. di Otol.	65.7	15.	J. Pharmacol. and Exper. Therap.	64.0	15.	J. Metab. Research	64.3
16.	Zentralbl. f. Hals-, Nasen-, u. Ohrenh.	67.1	16.	Arch. f. Gynäk.	65.7	16.	Canad. M. A. J.	65.7
17.	Arch. f. Ohren-, Nasen- u. Kehlk.	68.3	17.	Am. J. M. Sc.	66.4	17.	J. Physiol.	67.0
18.	Beitr. z. prakt. u. theoret. Hals-, Nasen- u. Ohrenh.	69.4	18.	Brit. M. J.	67.9	18.	Quart. J. Med.	68.3
19.	Brit. M. J.	71.6	19.	Biochem. J.	69.4	19.	Lancet	69.4
20.	Virchows Arch. f. path. Anat.	72.7	20.	Arch. f. d. ges. Physiol.	70.9	20.	Med. Clin. No. Am.	70.5
21.	Arch. f. d. ges. Physiol.	73.8	21.	Zentralbl. f. Gynäk.	72.1	21.	Proc. Staff Meet. Mayo Clin.	71.6
22.	Arch. Path.	74.8	22.	J. Clin. Investigation	73.3	22.	Ztschr. f. klin. Med.	72.7
23.	Tr. Am. Laryng., Rhin. and Otol. Soc.	75.8	23.	Proc. Roy. Soc. Med.	74.3	23.	Am. J. Dis. Child.	73.7
24.	62 others (24.8%)	76.8	24.	Rev. Soc. Argent. de Biol.	75.2	24.	Arch. f. exper. Path. u. Pharmakol.	74.7
25.	Data from <i>Arch. Otolaryngology</i> , nine months' issues chosen at random from vols. 18-20, 1933-34. Tabulation of these data yielded 717 references to 88 journals.	100.6	25.	100 others (23.4%)	99.5	25.	Deutsche med. Wchnschr.	75.7
	Abstract sources for this field: Arch. Otolaryng. Ann. Otol., Rhin., & Laryng. J. Laryngol. & Otol.			Data from "Recent advances in endocrinology," by Cameron (Blakiston, 1934); and from the author's bibliographies on various phases of endocrinology. Tabulation of these data yielded 1619 references to 125 journals. Abstract sources for this field: Endocrinology Endokrinologie Physiol. Abstr.			Data from "The treatment of diabetes mellitus," by Joslin (Lea & Febiger, 1935). Tabulation of these data yielded 926 references to 89 journals.	

16. THYROID			17. ENDOCRINOLOGY OF SEX (MENGERT'S DATA)			18. OBSTETRICS AND GYNECOLOGY		
Rank	Journal	cum. % ref.	Rank	Journal	cum. % ref.	Rank	Journal	cum. % ref.
1.	J. Biol. Chem.	7.3	1.	Am. J. Physiol.	6.8	1.	Am. J. Obst. and Gynec.	18.0
2.	Biochem. Ztschr.	12.1	2.	Compt. rend. Soc. de Biol.	12.6	2.	Zentralbl. f. Gynäk.	28.7
3.	Brit. M. J.	16.8	3.	Proc. Soc. Exper. Biol. and Med.	17.6	3.	J. A. M. A.	36.3
3.	J. A. M. A.	21.5	4.	Anat. Rec.	22.3	4.	Arch. f. Gynäk.	41.6
4.	Am. J. Physiol.	25.4	5.	Am. J. Anat.	26.6	5.	Surg., Gynec. and Obst.	46.4
4.	Arch. Int. Med.	29.3	6.	J. Exper. Zool.	30.6	6.	Am. J. Physiol.	50.1
4.	Compt. rend. Soc. de Biol.	33.2	7.	Arch. f. Gynäk.	33.6	7.	J. Obst. and Gynaec. Brit. Emp.	53.4
5.	Arch. f. exper. Path. u. Pharmakol.	36.2	8.	Endocrinol.	36.1	8.	Lancet	56.4
6.	Am. J. M. Sc.	39.0	9.	Klin. Wehnschr.	38.3	9.	Brit. M. J.	59.0
6.	Biochem. J.	41.8	10.	Proc. Roy. Soc. London	40.4	10.	Proc. Soc. Exper. Biol. and Med.	61.0
7.	Ztschr. f. physiol. Chem.	44.4	11.	Zentralbl. f. Gynäk.	42.5	11.	Ztschr. f. Geburtsh. u. Gynäk.	62.8
7.	Proc. Soc. Exper. Biol. and Med.	47.0	12.	J. A. M. A.	44.5	12.	Klin. Wehnschr.	64.6
8.	Deutsche med. Wehnschr.	49.4	13.	J. Physiol.	46.1	13.	Endocrinol.	66.1
9.	J. Physiol.	51.6	14.	Biol. Bull. Marine Biol. Lab.	47.6	14.	Monatschr. f. Geburtsh. u. Gynäk.	67.5
9.	J. Physiol.	53.8	15.	Bull. Johns Hopkins Hosp.	49.0	15.	Carnegie Inst. Contrib. to Embryol.	68.8
9.	Surg., Gynec. and Obst.	56.0	16.	Brit. J. Exper. Biol.	50.4	16.	J. Biol. Chem.	70.0
10.	Klin. Wehnschr.	58.1	16.	Carnegie Institute of Washington, Publ.	51.7	17.	München. med. Wehnschr.	70.9
10.	Bull. Johns Hopkins Hosp.	60.2	17.	Arch. f. d. ges. Physiol.	53.1	18.	Am. J. Roentgenol.	71.7
11.	Arch. f. klin. Chir.	62.1	17.	Arch. f. Entwicklungsmech. d. Organ.	54.3	18.	Bull. Johns Hopkins Hosp.	72.5
11.	Endocrinol.	64.0	18.	Ann. Naturalist	55.5	18.	New England J. Med.	73.3
11.	München. med. Wehnschr.	65.9	18.	Naturalist	55.5	19.	Am. J. Dis. Child.	74.1
12.	Ann. Surg.	67.4	19.	Ann. Surg.	55.5	19.	Am. J. Anat.	74.9
12.	Arch. f. d. ges. Physiol.	68.7	20.	Annat. Rec.	100.0	20.	Anat. Rec.	75.6
13.	J. Pharmacol. and Exper. Therap.	70.0	20.	Arch. Int. Med.	76.3	20.	Arch. Int. Med.	76.3
13.	Lancet	71.3	20.	Gynec. et Obst.	77.0	20.	Gynec. et Obst.	77.0
13.	Quart. J. Exper. Physiol.	72.6	20.	Jap. J. Obst. and Gynec.	77.7	20.	Jap. J. Obst. and Gynec.	77.7
	47 others (27.4%)	100.0		93 others (22.2%)	99.9		93 others (22.2%)	99.9
Data from "The thyroid gland," by Harington (Oxford, 1933); and "Diagnosis and treatment of diseases of the thyroid gland," by Crile (Saunders, 1932). Tabulation of these data yielded 537 references to 73 journals.			Data for this list, and the list itself, are quoted from Mengert, "Periodicals on the endocrinology of sex," <i>Endocrinol.</i> , 18: 421-22 (1934). This list represents 2474 references to 335 journals.			Data from the <i>Am. J. Obst. & Gynec.</i> , vol. 29, 1935. Tabulation of these data yielded 1555 references to 119 journals.		
			Abstract sources for this field:			Abstract sources for this field:		
			Endocrinol.			Am. J. Obst. & Gynec.		
			Endocrinol.			Internat. Abstr. Surg.		
			Zentralbl. f. Gynäk.			Zentralbl. f. Gynäk.		
			Chem. Abstr.			J. Obst. & Gynaec. (British)		
			Physiol. Abstr.					
			J. Obst. & Gynaec. (British)					

19. NERVOUS AND MENTAL DISEASES

Rank	Journal	cum. % ref.
1.	Arch. Neurol. and Psychiat.	13.3
2.	Zentralbl. f. d. ges. Neurol. u. Psychiat.	22.9
3.	J. A. M. A.	27.9
4.	J. Nerv. and Ment. Dis.	32.5
5.	Am. J. Psychiat.	36.3
6.	Deut. Ztschr. f. Nervenheilk.	39.8
7.	Brain	42.7
7.	Rev. Neurol.	45.6
8.	Am. J. Psychiat.	48.4
9.	Arch. f. Psych. u. Nervenkr.	50.9
10.	Monatschr. f. Psychiat. u. Neurol.	53.2
11.	Arch. Int. Med.	55.2
11.	Klin. Wchnschr.	57.2
11.	München. med. Wchnschr.	59.2
12.	Am. J. M. Sc.	60.9
12.	Assoc. f. Res. in Nerv. and Ment. Dis.	62.6
13.	Deutsche med. Wchnschr.	64.0
13.	Wien. Klin. Wchnschr.	65.4
14.	Lancet	66.6
14.	Med. Rec.	67.8
14.	New England J. Med.	69.0
15.	Arch. f. d. ges. Physiol.	69.9
15.	Internat. Ztschr. f. Psychoanal.	70.8
15.	Med. Klin.	71.7
15.	Surg., Gynec. and Obst.	72.6
15.	Virchows Arch. f. path. Anat.	73.5
61	others (26.6%)	100.1

Data from the *J. Nerv. & Ment. Dis.*, vols. 79-81, 1934-35. Tabulation of these data yielded 655 references to 87 journals. Abstract sources for this field: Psychol. Index (suspended) Psychol. Abstr. J. f. Psych. u. Neur. J. Nerv. & Ment. Dis. Arch. Neur. & Psychiatry Neurol. Zentralbl. Zentralbl. f. d. ges. Neurol. u. Psychiat.

20. NUTRITION

Rank	Journal	cum. % ref.
1.	J. Biol. Chem.	22.8
2.	Am. J. Physiol.	30.1
3.	J. Nutrition	36.8
4.	Biochem. J.	41.6
5.	Proc. Soc. Exper. Biol. and Med.	45.0
6.	Compt. rend. Soc. de Biol.	47.7
7.	J. Physiol. Chem.	50.2
8.	Biochem. Ztschr.	52.3
9.	J. Physiol.	54.3
10.	Science	56.3
10.	Am. J. Dis. Child.	58.3
11.	Arch. Int. Med.	60.1
12.	Physiol. Rev.	61.6
13.	J. A. M. A.	63.0
13.	J. Agric. Research	64.4
14.	J. Clin. Investigation	65.6
15.	Arbeitsphysiol.	66.7
16.	Arch. f. d. ges. Physiol.	67.8
16.	Bull. Soc. Chim. Biol.	68.9
16.	Indian J. M. Research	69.0
17.	J. Am. Chem. Soc.	70.1
17.	Klin. Wchnschr.	71.2
17.	New England J. Med.	72.3
18.	Univ. Mo. Ag. Exp. St. Res. Bull.	73.2
19.	Ztschr. f. Biol.	74.0
124	others (25%)	99.0

Data from the *J. Nutr.*, vols. 7, 8, 1933-34. Tabulation of these data yielded 1508 references to 149 journals. Abstract source for this field: Nutr. Abstr. & Rev.

21. VITAMINS

Rank	Journal	cum. % ref.
1.	J. Biol. Chem.	20.4
2.	Biochem. J.	37.4
3.	Proc. Soc. Exper. Biol. and Med.	41.9
4.	Am. J. Physiol.	45.8
4.	J. A. M. A.	49.7
5.	Lancet	53.4
6.	Pub. Health Rep.	56.3
7.	Brit. M. J.	58.7
8.	J. Nutrition	60.6
9.	Am. J. Dis. Child.	62.5
9.	Biochem. Ztschr.	64.4
10.	Arch. f. d. ges. Physiol.	65.8
11.	Ztschr. f. Physiol. Chem.	67.0
12.	Sp. Rep. Ser. Med. Res. Council	68.1
13.	Indust. and Engin. Chem.	69.2
13.	J. Path. and Bact.	70.3
13.	Science	71.4
14.	Compt. rend. Acad. des Sc.	72.4
14.	Indian J. Med. Research	73.4
15.	J. Hyg.	74.3
16.	J. Am. Chem. Soc.	75.2
17.	J. Physiol.	76.0
18.	Proc. Roy. Soc. Med.	76.7
19.	Bull. Soc. Chim. Biol.	77.4
19.	Klin. Wchnschr.	78.1
105	others (21.6%)	98.7

Data from "The Vitamins: a symposium on the present status of the knowledge of the vitamins," by various authors (A. M. A., 1932); and "Vitamins: a survey of recent knowledge" published under the direction of the Medical Research Council of Great Britain (His Maj.'s stat. off., 1932). Tabulation of these data yielded 1869 references to 130 journals. Abstract source for this field: Nutr. Abstr. & Rev.

24. GROWTH AND DEVELOPMENT

Rank	Journal	cum. % ref.
1.	Am. J. Dis. Child.	12.4
2.	Am. J. Physiol.	18.0
3.	J. A. M. A.	22.7
4.	Am. J. Phys. Anthropol.	27.0
5.	J. Exper. Med.	31.0
6.	Am. J. Anat.	34.1
7.	J. Biol. Chem.	36.6
7.	Ztschr. f. Kinderh.	39.1
8.	Dent. Cosmos	41.5
8.	Endocrinol.	43.9
9.	Anat. Rec.	46.1
10.	Proc. Soc. Exper. Biol. and Med.	48.2
11.	Arch. Int. Med.	50.1
11.	Physiol. Rev.	52.0
12.	J. Immunol.	53.8
13.	Ergeb. d. inn. Med. u. Kinderh.	55.4
14.	Klin. Wchnschr.	56.9
14.	Lancet	58.4
15.	Arch. Pediat.	59.7
15.	Science	61.0
16.	Ztschr. f. Schulgesundhpflg.	62.2
17.	Pub. Health Rep.	63.2
18.	Anat. Anz.	64.1
18.	Arch. Kinderh.	65.0
18.	Internat. J. Orthod. and Oral Surg.	65.9
18.	Monat. f. Kinderh.	66.8
18.	New England J. Med.	67.7
	72 others (32.5%)	100.2

Data from the *White House Conference*, Parts 1 & 2 (Appleton-Century, 1932); "Growth changes in bodily size and proportion during first three years," by Bayley and Davis (*Biometrika*, 27: 26, 1935). Tabulation of these data yielded 678 references to 99 journals.

Abstract sources for this field:
 Child. Devel. Abstr.
 Am. J. Dis. Child.
 [Listings for Diseases of Children]

23. DISEASES OF CHILDREN

Rank	Journal	cum. % ref.
1.	Am. J. Dis. Child.	12.0
2.	J. A. M. A.	23.1
3.	J. Biol. Chem.	31.7
4.	Arch. Int. Med.	35.7
5.	J. Exper. Med.	39.3
6.	Lancet	42.7
7.	J. Clin. Investigation	45.8
8.	Am. J. M. Sc.	48.7
9.	J. Pediat.	51.3
10.	Arch. Pediat.	53.7
11.	New England J. Med.	55.7
12.	Am. J. Obst. and Gynec.	57.3
12.	Ztschr. f. Kinderh.	59.1
13.	Brit. M. J.	60.7
13.	Jahrb. f. Kinderh.	62.3
13.	J. Immunol.	63.9
13.	Wien. klin. Wchnschr.	65.5
14.	Ann. Int. Med.	66.9
14.	Arch. Dis. Child.	68.3
14.	J. Lab. and Clin. Med.	69.7
14.	Monatsschr. f. Kinderh.	71.1
15.	Proc. Soc. Exper. Biol. and Med.	72.3
15.	Zentralbl. f. d. ges. Neurol u. Psych.	73.5
	50 others (26.0%)	99.5

Data from the *Am. J. Dis. Child.*, vol. 50, nos. 1 & 2, 1935; *Arch. Pediat.*, vol. 52, Jan.-Mar., 1935; *J. Pediat.*, vol. 7, Aug. & Sept., 1935. Tabulation of these data yielded 593 references to 73 journals.

Abstract sources for this field:
 Child Devel. Abstr.
 Arch. Pediat.
 Am. J. Dis. Child.
 Brit. J. Dis. Child.
 Arch. de Med. des. Enf.

22. GASTRO-ENTEROLOGY

Rank	Journal	cum. % ref.
1.	J. A. M. A.	13.5
2.	Am. J. Dig. Dis. and Nutr.	19.8
3.	Am. J. Surg.	27.7
4.	Am. J. Physiol.	32.8
5.	Arch. Int. Med.	37.7
6.	Lancet	42.3
7.	Ann. Surg.	46.1
8.	Am. J. M. Sc.	49.3
8.	Brit. M. J.	52.5
9.	Ann. Int. Med.	55.5
10.	Am. J. Roentgenol.	58.0
11.	Surg., Gynec. and Obst.	60.3
12.	Arch. f. Verdauungskr.	62.2
12.	Arch. Surg.	64.1
12.	Klin. Wchnschr.	66.0
13.	Guy's Hosp. Rep.	67.3
13.	New England J. Med.	68.6
13.	South. M. J.	69.9
14.	J. Physiol.	71.0
14.	Quart. J. Med.	72.1
14.	Radiology	73.2
14.	Ztschr. f. ges. exper. Med.	74.3
15.	Acta Chir. Scand.	75.2
15.	Bull. Johns Hopkins Hosp.	76.1
15.	Deutsche med. Wchnschr.	77.0
15.	M. J. Australia	77.9
15.	München. med. Wchnschr.	78.8
15.	Physiol. Rev.	79.7
	45 others (21.4%)	101.4

Data from *Oxford Medicine*; Emery, *New Engl. J. Med.*, 212: 680 (1935); Cheney, *Arch. Int. Med.*, 56: 797 (1935); Rehfuess, *Progressive Medicine*, vol. 4 (1931); *Rev. Gastroenterol.*, vols. 1 & 2, 1934-35; *Am. J. Dig. Dis. & Nutr.*, Sept., 1935. Tabulation of these data yielded 524 references to 73 journals.

Abstract sources for this field:
 Rev. Gastroenterol.
 Arch. f. Verdauungskr.
 Arch. des Mal. de l'App. Dig.

25. PUBLIC HEALTH AND HYGIENE

Rank	Journal	cum. % ref.
1.	Am. J. Hyg.	11.8
2.	J. A. M. A.	19.7
3.	Am. J. Pub. Health	25.8
3.	J. Infect. Dis.	31.9
4.	J. Exper. Med.	36.1
5.	Proc. Soc. Exper. Biol. and Med.	40.0
6.	Pub. Health Rep.	43.8
7.	J. Bact.	46.3
7.	J. Path. and Bact.	48.8
8.	Compt. rend. Soc. de Biol.	51.2
9.	Am. Rev. Tuberc.	53.3
10.	Am. J. Trop. Med.	55.1
10.	Brit. J. Exper. Path.	56.9
11.	Lancet	58.6
12.	J. Prev. Med.	60.1
13.	Zentralbl. f. Bakt.	61.5
14.	Ann. Inst. Pasteur	62.8
14.	J. Immunol.	64.1
14.	Science	65.4
15.	Am. J. Path.	66.5
16.	Am. J. Dis. Child.	67.5
16.	J. Parasitol.	68.5
17.	Compt. rend. Acad. des Sc.	69.4
17.	J. Biol. Chem.	70.3
17.	J. Hyg.	71.2
17.	J. Lab. and Clin. Med.	72.1
17.	Pub. Health Bull.	73.0
63 others (27.8%)		100.8

Data from the *Am. J. Hyg.*, vol. 21, 1935;
and the *Am. J. Pub. Health*, vol. 24, 1934.
Tabulation of these data yielded 871 refer-
ences to 90 journals.
Abstract sources for this field:
Bull. Hyg.
Arch. f. Schiffs- u. Tropen-Hyg.
Pub. Health Engin. Abstr.
Zentralbl. f. d. ges. Hyg.

26. INDUSTRIAL HYGIENE

Rank	Journal	cum. % ref.
1.	J. Indust. Hyg.	16.7
2.	J. A. M. A.	21.2
3.	Lancet	25.1
4.	Arch. f. Hyg.	28.5
4.	Pub. Health Bull.	31.9
5.	Biochem. Ztschr.	34.7
5.	Pub. Health Rep.	37.5
6.	Zentralbl. f. Gewerbehyg.	39.8
7.	Am. Rev. Tuberc.	42.0
7.	M. J. Australia	44.2
8.	München. med. Wchnschr.	46.2
9.	J. Biol. Chem.	48.1
10.	Deutsche med. Wchnschr.	49.8
11.	J. Pharmacol. & Exper. Therap.	51.5
11.	Arch. f. Gewerbepath. u. Gewer- behyg.	53.1
11.	Brit. M. J.	54.7
11.	J. Hyg.	56.3
11.	J. Soc. Chem. Ind.	57.9
12.	Ztschr. f. Hyg. u. Infektionskr.	59.3
13.	Am. J. Physiol.	60.5
13.	Compt. rend. Soc. de Biol.	61.7
13.	Nature	62.9
13.	Ztschr. f. angew. Chem.	63.1
14.	Klin. Wchnschr.	64.2
14.	Am. J. Hyg.	65.3
14.	Protoplasm	66.4
14.	Ztschr. f. Krebsforschung	67.5
14.	Ztschr. f. Urol.	68.6
52 others (30.6%)		99.2

Data from the *J. Indust. Hyg.*, vols. 14-15,
1932-33. Tabulation of these data yielded
646 references to 80 journals.
Abstract sources for this field:
J. Indust. Hyg.
Pub. Health Engin. Abstr.
Bibliog. Indust. Hyg.
Zentralbl. f. Gewerbehyg.

27. UROLOGY

Rank	Journal	cum. % ref.
1.	J. Urol.	16.3
2.	J. A. M. A.	25.6
3.	Surg., Gynec. & Obst.	33.5
4.	Ann. Surg.	38.0
5.	Lancet	42.3
6.	Ztschr. f. urol. Chir.	46.1
7.	Brit. M. J.	49.4
8.	Am. J. Surg.	52.3
9.	New England J. Med.	54.9
10.	Urol. & Cutan. Rev.	57.2
11.	Ztschr. f. Urol.	59.4
12.	J. d'Urol.	61.4
13.	Arch. f. klin. Chir.	63.0
14.	Arch. Surg.	64.3
14.	J. Biol. Chem.	65.6
14.	Klin. Wchnschr.	66.9
15.	Brit. J. Surg.	68.1
15.	Med. Rec.	69.3
16.	California & West. Med.	70.3
17.	Brit. J. Urol.	71.2
17.	München. med. Wchnschr.	72.1
17.	Tr. Am. A. Genito-urin. Surg.	73.0
17.	Virchows Arch. f. path. Anat.	73.9
55 others (27.1%)		101.0

Data from the *J. Urology*, vols. 32-33,
1934-35. Tabulation of these data yielded
817 references to 79 journals.
Abstract sources for this field:
Internat. Abstr. Surg.
Brit. J. Urol.
Urol. & Cutan. Rev.
J. d'Urol.

PART 2

The foregoing Tables (1-27) answer primarily the needs of the specialist in his attempt to keep adequately abreast of the literature in his field. Two further Tables have been compiled, to indicate to the medical library and the librarian (A), the indispensable periodicals for all the fields consulted; (B), a short list of essential periodicals in general medicine which cover a large amount of material. This latter list is designed primarily for the individual and for the small library.

The first, or "A" List, was derived by listing in alphabetical order the first six periodicals in the Tables for the various fields. These were chosen because in most cases they include general and clinical periodicals as well as those specializing in the fields in question. They contain an average of 46 per cent. of all the useful material in the various fields. The numbers at the right of the titles indicate the rank of the periodical in each field. For example, the *American Journal of Diseases of Children* ranks 19th in usefulness to those interested in gynecology and obstetrics, and first to those interested in children's diseases and in children's growth and development.

The second, or "B" List, containing the minimum number of essential periodicals in the field of general medicine, was obtained by ranking periodicals of the "A" List according to the frequency of occurrence in certain fields. The fields used were those of anesthesia and analgesia, surgery, bacteriology, cancer, roentgenology, cardiology, hematology, dermatology and syphilology, otolaryngology, endocrinology, gynecology and obstetrics, nervous and mental disease, gastro-enterology, diseases of childhood, public health and hygiene, and urology. The other headings in Tables 1-27 were omitted in order not to overweight certain fields. This list should at least help to solve the problem of "what to buy" for a small library.

(Text continued on p. 188)

" B " LIST

<i>Rank</i>	<i>Journal</i>	<i>Rank</i>	<i>Journal</i>
1.	J. A. M. A.	7.	Virchows Arch. f. path. Anat.
2.	Lancet	8.	J. Exper. Med.
3.	Arch. Int. Med.	9.	Arch. f. Gynäk.
3.	Brit. M. J.	9.	C. R. Soc. de Biol.
4.	Am. J. M. Sc.	10.	Am. J. Dis. Child.
4.	Klin. Wchnschr.	10.	Am. J. Roentgenol.
4.	München. med. Wchnschr.	10.	Am. J. Surg.
5.	J. Biol. Chem.	10.	Zentralbl. f. Gynäk.
5.	New England J. Med.	11.	Arch. f. klin. Chir.
5.	Surg., Gynec. & Obst.	11.	Arch. Neurol. u. Psychiat.
6.	Am. J. Physiol.	11.	J. Clin. Investigation
6.	Proc. Soc. Exper. Biol. & Med.	11.	J. Immunol.
7.	Ann. Surg.	11.	J. Infect. Dis.
7.	Arch. Surg.	11.	J. Urol.

SUMMARY

A total of some 26,760 references were tabulated, and on the basis of the tabulations 230 periodicals were ranked according to their usefulness in relation to 27 different medical subjects. These 27 lists comprise an average of 75 per cent. of the material in these fields; and, it is believed, furnish a dependable guide to all the important periodicals in those subjects.

Those ranking among the first six titles of these lists on various medical subjects have been arranged alphabetically in Tables 28-29 to form the " A " List. A shorter list (" B "), of the most essential periodicals for general medicine, has also been compiled. This list, the " A " List, and the lists for the special fields should furnish a sound basis for the selection of periodicals for medical libraries.

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