Diagnostic Vocabulary for Primary Care

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The diagnostic vocabulary of a clinician appears to be specific and measurable for each clinical discipline.

The diagnostic vocabulary of 11 primary care physicians over four-years' work has been analyzed. For every 1,000 patients cared for, each physician made, on average, 2,691 diagnoses every year, representing a diagnostic vocabulary of 475 different clinical entities. This vocabulary has been analyzed according to frequency of usage and clinical decision making. The clinical, teaching, and administrative implications of this analysis are discussed.

The concept of a diagnostic vocabulary helps both to understand and to teach primary care. The questioning of colleagues and the work of Elstein et al¹ suggest that most practicing clinicians, when presented with any patient's complaint, automatically recall from their diagnostic vocabulary about two to four (rarely more) diagnostic possibilities, which they rank in order of probability. This list then guides their further questions and other actions which are aimed at refuting or confirming their initial ranking. As the clinician collects further information the rank order may be changed, or some items on the list replaced. In the primary care setting, few physicians appear to manipulate more than four diagnostic hypotheses at any one moment, but during a long clinical history they may have considered a much greater number of diagnostic possibilities.

The diagnostic vocabulary used in this way by most clinicians appears to have the following significant characteristics:

1. It forms the basis of the physician's clinical actions.

2. The effective recall and manipulation of this

From the Department of Family Practice, Memorial University of Newfoundland, St. John's, Newfoundland. Requests for reprints should be addressed to Dr. Keith Hodgkin, 94, Marwood Drive, Great Ayton, Middlesborough, Cleveland TS9 6PB, England. vocabulary is the basis of the physician's skill and is the essential element that must be taught to students.

3. The range of each clinician's working vocabulary is a measure of previous clinical experience.

A premedical student starts with a layman's diagnostic vocabulary of perhaps 20 diseases; a family physician of five to ten years' experience manipulates nearly 500. It would be helpful to know the appropriate expected vocabulary size at various stages between these two endpoints.

4. The character of the diagnostic vocabulary used by primary care physicians is similar to primary care morbidity surveys.^{2,3*} For the participants, such surveys often appear to be statements of diagnostic vocabulary rather than true epidemiological assessments of morbidity.

5. The individual items of each experienced physician's vocabulary and the frequency of their usage are specific for the discipline practiced by the physician. Both these parameters are identifiable and measurable for any physician. They therefore have significant implications for the teaching and administration of that discipline. Thus, a neurosurgeon, obstetrician, and family physician are, in effect, talking different languages,

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^{*}Canadian Medicare figures show many similarities, but are distorted by administrative factors.⁴

lable 1. Analysis of the 475 of	2,691 Dia	Diagnostic gnoses on	Labels Use Every 1,000	Description of the provided by 11 Physics of the provided by 11 Ph	vsicians to Cared For	o Make a Yea	Irly Average
Subgroup			Group				Total
	I	II	III	IV	V	Number of Diagnoses	Entities Suspected
A Minor	72.5 (2.7%)	122.5 (4.6%)	101.0 (3.7%)	7.5 (0.3%)	1.2 (0.04%)	304.7 (11.3%)	33
B Minor, must be watche	d 814.2 (30.3%)	633.1 (23.6%)	431.8 (16.0%)	45.1 (1.7%)	11.4 (0.4%)	1,935.6 (72.0%)	180
C Early diagnosis vital		128.8 (4.8%)	140.0 (5.2%)	25.7 (1.0%)	9.7 (0.4%)	304.2 (11.3%)	144
D Chronic			106.0 (3.9%)	14.8 (0.5%)	4.9 (0.2%)	125.7 (4.6%)	73
E Life threatening			4.5 (0.2%)	15.0 (0.5%)	1.3 (0.04%)	20.8 (0.8%)	45
Total Number of Diagnoses	886.7 (33%)	884.4 (33%)	783.3 (29%)	108.1 (4%)	28.5 (1.0%)	2,691 (100%)	-
Total Number of Disease Entities in Each Group	5	28	127	106	209		475

in a way that can be identified and defined.

6. "Disuse atrophy" of a physician's range of vocabulary appears to follow: (a) diminished clinical experience, (b) lack of adequate continuing medical education, (c) aging of the physician. Measurements of vocabulary range and frequency of usage could thus be used to assess any physician's postgraduate needs.

This paper analyzes the working diagnostic vocabulary of 475 disease labels used by 11 family physicians according to two parameters:

frequency of usage-5 groups (I, II, III, IV, and V).

handling and management-5 groups (A, B, C, D, and E).

This breakdown (Table 1 and Appendix 1) gives considerable insight into the nature of some of the main problems raised when teaching and administering the delivery of effective primary care. For full understanding of these problems, it is essential to relate all discussion to the actual disease entities involved, as outlined in Appendix 1.

The following arbitrary categories have been used to allocate the 475 entities into the following broad groupings:

Frequency of usage analysis

Group I-Very common, ie, diagnosis used as

basis for action more than 70 times per 1,000 patients per year.

Group II-Common, ie, diagnosis used as basis for action 20 to 70 times per 1,000 patients per vear.

Group III-Less common, ie, diagnosis used as basis for action 1.8 to 20 times per 1,000 patients per year.

Group IV-Rare, ie, diagnosis used as basis for action 0.5 to 1.8 times per 1,000 patients per year. Group V-Very rare, ie, diagnosis used as a basis for action less than 0.5 times per 1,000 patients per year.

Analysis according to primary handling and management

Subgroup A-Minor diseases with few problems of diagnosis or treatment.

Subgroup B-Relatively minor diseases that must be treated and watched for recurrences, complications, or confusion with serious diseases.

Subgroup C-Diseases in which early diagnosis prevents serious consequences.

Subgroup D-Chronic or progressive diseases with major health implications.

Subgroup E—Life threatening diseases for which early diagnosis is expected by both physician and patient.

Methods and Materials

Eleven general practitioners at the end of every consultation reviewed their actions and recorded every diagnosis (suspected or firm) which had formed the basis for any action taken after the consultation. Thus, if the physician had prescribed a tranquilizer and ordered a chest x-ray for an anxious middle-aged female smoker, the physician might record the following: Anxiety and smoker's cough/?? Ca lung.

The 11 physicians were distributed as follows:

- two urban practices—seven physicians
- one rural practice—two physicians
- one dormitory/resort town-two physicians.

The study covered four years, 1969-1973, and the population cared for varied between 22,000 and 25,000 National Health Service patients in the Northeast area of Britain between the rivers Tees and Tyne.

Results and Conclusions

For every 1,000 patients cared for, a yearly average of 2,691 firm or suspected diagnoses were made by the 11 physicians. To do this, the physicians based their actions on a total of 475 different diagnostic labels (Appendix 1).

Analysis according to commonness and rank order of frequency (Table 1 and Appendix 1).

Group I—Very Common. Five entities were responsible for one third (33 percent) of the diagnoses considered by the family physicians.

Group II—Common. Twenty-eight entities were responsible for a further one third (33 percent) of the diagnoses used by the family physicians. A brief glance (Appendix 1) at the contents of this and the previous group reveals how incomplete is the preparation and teaching in the undergraduate and hospital years.

Group III—Less Common. One hundred twenty-seven entities were responsible for a further 29.3 percent of diagnoses, and together with Groups I and II (160 entities) are responsible for 95 percent of all diagnoses by the family physicians. This group represents the gray area between primary and secondary care where specialist opinion and hospital-based training are of greatest help to both patient and primary physician.

Group IV—Rare. One hundred six entities were responsible for a further four percent of diagnoses.

Together with the 209 entities in Group V, this group forms the basis of much hospital teaching (Appendix 1).

Group V—Very Rare. Two hundred nine entities were responsible for only one percent of the family physicians' work.

Classification according to handling and management

The 475 clinical diagnostic labels used in the primary care situation were further classified, according to the problems and clinical decision making involved, into five subgroups, A, B, C, D, and E.

This classification reflects the clinical decision making of the primary care physician and, therefore, has further significant administrative as well as clinical and teaching implications.

Subgroup A.

(11.3 percent of All Primary Diagnoses— 33 Different Disease Entities)

Minor diseases (mainly of short duration) with few problems of diagnosis or treatment, eg, colds, boils, dandruff. (For exact details see Appendix 1).

Clinical Implications. Many such conditions are never reported. Patients, pharmacists, or nurses can safely deal with this group. A small number may need referral to a physician.

Administrative Implications. For highly trained physicians to deal with this group would appear to be a waste of resources. Paramedical staff with a simple basic training could diagnose and treat these conditions.

Subgroup B.

(72 percent of All Primary Diagnoses— 180 Different Disease Entities)

Relatively minor diseases that must be treated and carefully watched for complications, recurrences, or confusion with more serious disease, eg, migraine, varicose veins, globus, erythema nodosum (Appendix 1).

The size and character of this group has tremendous clinical, teaching, and administrative implications.

Clinical and Teaching Implications

• The majority of conditions are rarely encountered in the hospital. Adequate practical teaching requires considerable exposure to primary care practice outside the hospital. • The ratio of trivial to serious may be up to 100 times that of the hospital population. The primary care physician should not apply blindly the costly and sometimes dangerous diagnostic and therapeutic methods of the hospital to this mass of primary diseases. He/she must develop many other clinical skills, some of which can only be learned outside the hospital, to deal with these problems cheaply and effectively.

• Serious consequences may complicate inadequate primary care, eg, chronic suppurative otitis, or glue ear, may follow an inadequately treated acute otitis.

• Complications, recurrences, and further problems in this group occur only in a small proportion of patients. Mistakes and inadequate handling by the primary care physician are easily obscured by the less serious disease. Primary care physicians should be trained to have a high degree of selfcriticism, combined with a detailed knowledge of the natural history of common diseases.

• The nature and size of this group provide large and almost untapped opportunities for health education and preventive medicine of the most productive kind in the community.

• Presymptomatic screening techniques are crude and applicable to few diseases. Early symptoms are likely to remain the most effective way of delineating high-risk groups. Thus, it is by close watch on this group that early diagnosis of serious disease is often most practicable, eg, early pulmonary tuberculosis, diabetes in the obese, and behavior problems in children.

Administrative Implications

• The direct application of hospital methods of investigation and treatment to this large primary group can waste enormous quantities of patient and community resources.

• Any physician performing primary care must be trained to develop methods that use time, clinical observation, and other means economically to diagnose and treat this large subgroup of diseases.

• Physicians largely trained and working in hospitals can easily be unaware of both the effort required for, and the enormous potential of, good primary care.

• A physician working closely with one, two, or three trained practice nurses can perform as effectively as the same number of physicians working on their own.⁴

• Emergency departments in large hospitals are

often both inefficient and expensive when handling this large group.

Subgroup C.

(11.3 percent of All Primary Care Problems—144 Different Disease Entities)

Diseases in which early diagnosis and treatment are essential to prevent serious consequences, eg, anemia, depression, appendicitis (Appendix 1).

These are the diseases the primary care physician must know, however infrequently they occur.

Clinical and Teaching Implications

• The primary presentation is often different or less definite than in the hospital; acute appendicitis, myxedema, and (pre-ruptive) tubal pregnancy are good examples of this.

• Such conditions are not too common in primary care and effective teaching situations may be difficult to create even in a two-year period of primary care training experience.

Administrative Implications

• A greater degree of health education in the community about these problems would undoubtedly help to achieve earlier diagnosis.

• Early diagnosis frequently saves more extensive, more costly treatment at a later date.

Subgroup D.

(4.6 percent of All Primary Diagnoses— 73 Different Disease Entities)

Chronic or progressive diseases with major health implications. Treatment is often supportive, partial, or otherwise incomplete, eg, asthma, stroke, alcoholism, arthritis (Appendix 1).

The chronic and relatively unpreventable nature of this group of diseases has two main effects. 1. Early diagnosis is of lesser importance than management.

2. Despite the proportionately small numbers of patients affected, the number of patient-years of care in the community over which patients need help is considerable.

Clinical Implications

Although much essential treatment and supportive care for these patients is started in the hospital, their main needs are for supportive services to enable them to live as near normally as possible in their own community. Thus, for a patient with rheumatoid arthritis or stroke, an effective, inex-

Group	Subgroup	Rank	Frequency	Entity		
I. Very Common Disease	s A. Minor Diseases—					
Deale numbers 1	Few Problems	F	70 5	Conserficial injunios		
Rank numbers i	(Tentity)	5	12.5	Superficial injuries		
nrough 5, number						
or entities: 5,						
3 percent of all						
lagnoses made./	B Belatively Minor					
	Diseases-Must					
	Be Watched					
	(4 entities)	1	496.4	Acute upper respiratory		
	(4 childes)	199	400.4	tract infections		
			162 7	Acute tonsillitis		
			133.0	Coughs		
			120.1	Colds		
			50.4	Acute bronchitis		
			30.2	Acute tracheitis etc		
		2	120 1	Simple anxiety and		
		101		tension states		
		3	120.0	Contraceptive advice		
		4	77.8	Acute gastroenteritis		
II. Commonly Diagnosed	A. Minor Diseases-	111	1110	, touto guoti contornio		
)iseases	Few Problems					
Rank numbers 6	(5 entities)	14	33.0	Chickenpox		
hrough 33. number	(0 01111100)	24	26.9	Wax in ears		
of entities: 28.		26	24.2	Boils and carbuncles		
esponsible for		29	19.6	Acute gastritis		
3 percent of all		30	18.8	Sties		
liagnoses made.)						
9	B. Relatively Minor	110				
	Diseases-Must Be					
	Watched					
	(18 entities)	6	66.2	Acute otitis media		
		7	60.0	Rubella		
		8	50.0	Mumps		
		9	48.1	Acute urinary tract infectio		
		10	38.2	Pregnancy		
		11	36.4	Prolapsed lumbar		
				intervertebral disc		
		12	36.2	Fibrositis		
		13	35.7	Eczema		
		15	32.6	Osteoarthritis (all types)		
		16	32.0	Red eye		
		17	30.7	Obesity		
		19	29.7	Drug and allergic rashes		
		21	29.2	Sprains		
Automation and and and		23	27.8	Sinusitis (maxillary)		
		25	25.2	Papular urticaria		
		31	18.5	Scabies		

	Appendix, C	ontinue	d	in the state of the state
Group	Subgroup	Rank	Frequency	Entity
	and the second sec	32	18.4	Otitis externa
		33	18.2	Influenza (epidemic)
	C. Early Diagnosis and			
	Treatment of Major			
	Importance			
	(5 entities)	18	30.0	Hypochromic anemia
		20	29.3	Ulcer-type dyspepsia
		22	28.1	Aspiration pneumonitis
		27	21.4	All fractures
		28	20.0	Depression
III. Less Common Diseases	A Minor Diseases	20	2010	Depression
(Bank numbers 34	Few Problems			
through 160 number	(16 entities)	36	17 4	Virue warte
of entities: 127	(To entities)	13	12 /	Fuetachian catarrh
responsible for		40	11.4	Dontal parios
29 percent of all		49	10.6	Plenharitie
diagnoses made)		76	10.6	Depdauff
diagnoses made.)		70	0.0	Dandrun
		80	0.0	Dental extraction
		88	5.7	Diaper rash
		93	5.0	Muscle cramps
		101	4.7	Chillblains
		102	4.7	Sebaceous cysts
accountry and have		105	4.5	Pruritus ani
*		122	3.0	Nasal polyps
		137	2.4	Ingrowing toenails
and the second second second		139	2.3	Ganglion
and the second second		145	2.1	Herpes stomatitis
		155	2.0	Bunions
s count party	B. Relatively Minor			
All and the second second	Diseases—Must Be	34	18.0	Insomnia
the second se	Watched	35	17.5	Acute cervical adenitis
a succession of the second	(64 entities)	37	16.7	Varicose veins
		38	16.0	Migraine
a care decision in the second second second		40	12.8	Menopause
Acore press mania or		41	12.6	Maternal anxiety
The second se		42	12.6	Refractive errors
Marsips on Line and the second		45	12.1	Dysfunctional uterine
Areas vitaget tracting sport				hemorrhage
and the second sec		46	12.1	Constipation
hanner takter i		48	11.9	Tenosynovitis
inter a state of the state		50	11.5	Herpes simplex
Construction of the other states		51	11.5	Paronychia and whitlows
a the second		55	10.8	Functional gastritis
Construction of the second second		56	10.8	Foreign bodies (all sites)
Recent R.J. S. P. S. and Record		57	10.7	Tonsil and adenoid
Served a serve a server server				enlargement
Transferences in the state		59	10.5	Aphthous ulcer
in the second second second		64	9.4	Allergic rhinitis
unit am a benefic		66	9.1	Seborrheic eczema
parties and an		67	9.0	Impetigo
and the second se		68	9.0	Marriage problems
			0.0	

DIAGNOSTIC VOCABULARY

Appendix, Continued						
Group	Subgroup	Negic 1	Rank	Frequency	Entity	
Alwinith	Lat .		69	8.8	Acne	
			70	8.6	Acute wheezy bronchitis	
			72	7.1	Sinusitis (frontal)	
			73	6.9	Cervical erosion	
			74	6.7	Dental abscess	
			78	6.4	Prolapse	
			79	6.2	Synovitis	
			81	6.0	Ventral hernia	
			82	6.0	Tinea pedis	
			83	6.0	Internal derangement of knee	
			84	5.0	Fainte	
			04	5.5	Epistavia	
			00	5.8	Epistaxis Encomodio dyomonorrhop	
			00	5.7	Spasmould dysmenormea	
			89	5.0	Reetning	
			91	5.2	Burns (all areas)	
			92	5.0	Scarlet fever	
			93	5.0	Congenital cold fingers	
					(Raynaud)	
			95	5.0	Psoriasis	
			96	5.0	Brachial neuralgia	
			97	4.9	Anal fissure	
			104	4.5	Herpes zoster	
			106	4.4	Sleeping problems in children	
			110	4.0	Giant urticaria	
					(and angioneurotic edema)	
			114	3.5	Hormonal amenorrhea	
			116	3.1	Balanitis	
			118	3.1	Hay fever	
			120	3.0	Pin worms (threadworms)	
			121	3.0	Malingering	
			124	3.0	Alopecia areata	
			126	2.9	Eating problems	
			127	2.9	Tinea corporis	
			132	2.5	Gingivitis and pyorrhea	
			133	2.5	Glossitis	
			135	2.4	Vaginitis (adult)	
			138	23	Phimosis	
			140	2.0	Monilia (thrush) vaginal	
			140	2.2	Tice	
			142	2.2	Nourofibromata	
			147	2.1		
			149	2.1	functional longration ato	
			150	0.1	lunctional laryngitis, etc	
			150	2.1	Manilia and	
			151	2.0	Nionilla, oral	
			153	2.0	Fityriasis rosea	
			158	1.9	Flatfoot	
Autor abrillation	5.0	102	160	1.8	Subconjunctival hemorrhage	
C. Ear	ly Diagnosis	and				
Treatm	nent of Majo	r				
Impor	tance					
(27 en	tities)		39	14.9	Piles	

	Appendi	ix, Contin	ued	
Group	Subgroup	Rank	Frequency	Entity
and the second se		44	12.2	Hysteria
Building the stand of the stand of the		47	12.0	Infective hepatitis
Desp-pro-mo-my		54	10.9	Chronic bronchitis
the second second second		60	10.4	Acute appendicitis
		63	10.0	Adult pulmonary tuberculosis
i a company i		87	5.7	Diabetes mellitus (all types)
			4.0	Surveillance
			0.8	Insulin sensitive
the second se			0.9	Obese type
start of an end of the second starts		98	4.8	Inguinal hernia
and the second se		99	4.8	Chronic cholecystitis
and the second se		100	4.7	Acute lobar pneumonia
La madanen via pibrimana fi		108	4.3	Squint and ocular imbalance
primbus."		109	4.1	Cataract
CLIPPER MARKED AND A		111	4.0	Concussion
Scan Ht better		112	4.0	Myxedema
Tengunity real incast		113	3.7	Chronic rheumatic heart disease
a point of		115	3.3	Reflux esophagitis and
		117	2.1	niatus nernia
anguest and interest		117	3.1	Dry pieurisy
		123	3.0	Female sterility
		125	3.0	Pernicious anemia
The plant of the state of Sanchale		129	2.8	Chronic suppurative otitis media
		134	2.4	Acute mesenteric adenitis
terment annual in provident		140	2.1	
		140	2.1	Speech problems
		154	2.0	congenital mailformation of
Line Granmer Haustra disentation		156	10	Litering fibroids
		150	1.9	Overlie inbroids
		157	1.9	Infostious monopuelessia
D. Chr	nia Progracejva	159	1.9	mectious monoriucieosis
Disease	es-Many Problem	ns		
(19 enti	ties)	52	11.3	Essential hypertension
		53	11.1	Congestive heart failure
Constants (adult)		61	10.3	Simple asthma
"Alternation of the second of		62	10.1	Strokes, cerebral hemorrhage,
hisning (human) vegerally				thrombosis, other
Y HER -				cerebrovascular accidents
i sancolienni		65	9.4	Rheumatoid arthritis
Prestantian automation		71	8.5	Angina pectoris
And the second s		75	6.7	Chronic asthmatic
report and a second statements				bronchitis (chronic
Newspire read =				obstructive lung disease)
A REAL PROPERTY AND A REAL PROPERTY AND A		77	6.5	Duodenal ulcer
Protocol Protocol		90	5.2	Deafness
Subgroup and responsively		107	4.3	Atrial fibrillation
		119	3.0	Chronic alcoholism
		128	2.8	Bronchiectasis
		130	2.8	Emphysema
101			teritiki t	(generalized chronic)

Appendix, Continued						
Group	Subg	roup	Rank	Frequency	Entity	
hivdrocere .		233	131	2.7	Paralysis agitans	
			136	2.4	Corns and callosities	
			141	2.2	Hypochondriasis	
			143	2.2	Gout	
			144	2.2	Obsessional neurosis	
			152	2.0	Intermittent claudication	
	E. Life Threa Diseases	tening				
Elitable omphet de	(1 entity)		103	4.5	Myocardial infarct	
IV. Rare Diseases	A. Minor Dis	eases—				
(Rank numbers 161	Few Problem	IS				
through 266,	(6 entities)		161	1.8	Retroflexed uterus	
number of entities:			169	1.6	Acne rosacea	
106, responsible for			170	1.6	Sweat rash	
3.9 percent of all			179	1.5	Lipoma	
diagnoses made.)			180	1.5	Tarsal and meibomian cysts	
5			201	1.1	Intertrigo	
	B. Relatively	Minor			0	
	Diseases-M	ust Be				
	Watched		162	1.8	Vulvovaginitis in children	
	(44 entities)		171	1.6	Globus hystericus	
			172	1.6	Paroxysmal auricular	
					tachycardia	
			175	1.5	Vitreous opacities	
			176	1.5	Metatarsalgia	
			177	1.5	Adenopharyngeal	
					conjunctival virus infection	
			181	1.5	Prepatellar bursitis	
			184	1.4	Generalized bursitis	
		SBS	185	1.4	Tennis elbow	
			188	1.3	Clicking jaw	
			189	1.3	Quinsy	
			190	1.3	Angular stomatitis	
			192	1.3	Clicking rib	
			193	1.2	Icthyosis	
			196	1.2	Tonsillar debris	
			199	1.2	Supraspinatus tendinitis	
			203	1.1	Habit cough	
			206	1.0	Pediculosis capitis	
			214	0.9	Premenstrual tension	
			215	0.9	General alopecia	
			217	0.9	Whooping cough	
			218	0.9	Carpal tunnel syndrome	
			220	0.9	Inadequate personality	
			222	0.9	Extrasystoles	
			223	0.9	Salivary calculus	
			224	0.9	Umbilical hernia	
			227	0.8	Impotence	
Furniscal becula			228	0.8	Bell palsy	
			230	0.8	Deviated nasal septum	

Appendix, Continued						
Group	Subgro	oup	Rank	Frequency	Entity	
			232	0.8	Hydrocele	
			234	0.8	Acute epididymo-orchitis	
			235	0.7	Tantrum (in children)	
			236	0.7	Sexual behavioral problems	
and the second sec					of childhood	
			237	0.7	Neurodermatitis	
			244	0.6	Sibling jealousy	
			248	0.6	Male infertility	
			250	0.6	Chronic omphalitis	
			251	0.6	Acute hip syndrome	
			253	0.6	Pigeon toes	
			257	0.5	Nail-biting habit	
Sumality and anne with			258	0.5	Continual crying (children)	
merry action			259	0.5	Frigidity	
Sweeter camin			265	0.5	Frozen shoulder	
* Linderia			266	0.5	Plantar fasciitis and	
Tests and multiple over the					calcaneal spur	
Control Sector	C. Early Diagn	osis and				
	Treatment of	Vlajor				
	Importance				City al Marriago	
he he children in the symplety	(30 entities)		166	1.7	Gastric ulcers	
Globus Incorporate			174	1.6	Diverticulosis and	
Inst. Action. The The Patients?					diverticulitis	
auctorescore and			177	1.5	Rodent ulcer	
Contraction and a second state			182	1.5	Benign hypertrophy of	
algiszarona algis					prostate	
Asseropharymouri			183	1.4	Hemoptysis	
bortomotives and a phanting			191	1.3	Spontaneous pneumothorax	
Proprinting Section			194	1.2	Thyrotoxicosis	
nilis surf cashe an 700			198	1.2	Osteochondritis	
- Woote sinds?			202	1.1	Febrile convulsions	
Without the second			204	1.1	Corneal ulceration	
Variable Variable			208	1.0	Impacted feces	
and a story white			213	0.9	Small ovarian tumors	
dia principal 3			215	0.9	Osteitis deformans	
ICTNY 2816			221	0.9	Acute glaucoma	
Foneillak Galeria k			225	0.8	Roundworms	
surgest manufacting			226	0.8	Ivianic depressive syndrome	
Maber rough			229	0.8	Impalance, ocular muscles	
Pachecolouris my war a			231	0.8	Pleural effusion	
A STATISTIC DE LE SERVER A COM			232	0.8	Ischlorectal abscess	
5 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			240	0.7	Twisted ovarian tumor	
and a start			243	0.6	Derite neel adhasiana	
A BRANDER MARKEN MARKE			247	0.6	Feritorieal auresions	
			249	0.0	Acuto este emvelitie	
relocution			252	0.0	Chronic pyclonenhritic	
Salvary certainan			204	0.5	Secretory otitis modia	
A REAL PROPERTY AND A REAL PROPERTY A			200	0.5	Trigeminal neuralgia	
Contraction of the second s			200	0.5	Femoral hernia	
Velto Lati			262	0.5	Incomplete descent of testos	
multiply heads batalying			205	0.5	moomplete descent of testes	

	Appendix	,Contin	ued	
Group	Subgroup	Rank	Frequency	Entity
	and a first start	264	0.5	Breast abscess
	D. Chronic, Progressive			
	Diseases-Many			
	Problems			
	(12 entities)	164	1.7	Cerebral arteriosclerosis
	(165	1.7	Prolapsed cervical
				intervertebral disc
		167	17	Schizophrenia
		168	1.7	Mental deficiency
		205	1.0	Senile osteoporosis
		209	1.0	Nonspecific urethritis
		211	1.0	Arteriosclerotic gangrene
		212	1.0	Illeerative colitis
		225	0.8	Achrondroplasia
		200	0.8	Spectic colon
		230	0.7	Spastic colon
		241	0.7	
	E 116 Thursdaylog	261	0.5	WIUCOUS COIITIS
	E. Life Inreatening			
	Diseases	100	1.0	
	(14 entities)	163	1.8	Meningitis, encephalitis,
				and cerebral abscess
		173	1.6	Acute intestinal obstruction
		185	1.4	Bronchogenic carcinoma
		187	1.4	Attempted suicide
		195	1.2	Pulmonary embolism and infarc
		197	1.2	Carcinoma of colon
	selard. Co. ice	200	1.2	Carcinoma of breast
		207	1.0	Cerebral tumor and space-
				occupying lesion of skull
		210	1.0	Tuberculous meningitis
		219	0.9	Carcinoma of stomach
		242	0.6	Carcinoma of rectum
		245	0.6	Perforated peptic ulcer
		246	0.6	Intussusception
		255	0.5	Carcinoma of uterine cervix
V. Verv Rare Diseases	A. Minor Diseases—			
(Rank numbers 267	Few Problems			
through 475	(5 entities)	267	0.4	Chapped hands
number of entities:	(0 0111100)	288	0.3	Pediculosis pubis
209 responsible for		292	0.3	Excoriation of skin
1 percent of all		341	0.2	Brittle nails
diagnosos mado)		453	0.2	Pediculosis corporis
diagnoses made./	P. Polotivoly Minor	400	U	r ediculosis corpons
	Discosso Must			
	Diseases-iniust			
	(EQ entition)	260	0.4	Searring alonosis
	(SU entities)	208	0.4	Inconting alopedia
		2/1	0.4	Incontinence of feces and urine
		272	0.4	Episcieritis
and man		275	0.4	Pilonidal sinus and cyst
		278	0.4	Mastitis of puberty in boys
		279	0.4	Abscess of Bartholin glands

	Appendix	, Contin	ued	
Group	Subgroup	Rank	Frequency	Entity
- Provide the second		281	0.4	Ervthema nodosum
		282	0.4	Knock knees
		283	0.4	Hammer toes
		284	0.4	Coccydynia
the second s		285	0.4	Olecranon bursitis
		295	0.3	Breath-holding attacks
		297	0.3	Wandering
		298	0.3	Stealing
and the second se		299	0.3	Pseudocvesis
a contraction of the providence		304	0.3	Virus pneumonia
the set of		305	0.3	Q-Fever
and the second second second second		306	0.3	Blocked lachrymal duct
A CONTRACTOR AND A CONTRACTOR		308	0.3	Prolapse of rectum
a standard source and		312	0.3	Ringworm of nails
MARCO HUNGER		313	0.3	Dermatitis herpetiformis
Municipal and a second s		314	0.3	Lichen planus
Musiper South		315	0.3	Ervthema serpens
		316	0.3	Granuloma annulare
		317	0.3	Semimembranous bursitis
Manuagene angoverne		318	0.3	Dupuvtren contracture
second and a second sec		323	0.2	Thumbsucking
- A lange of the second of the		324	0.2	Bocking and head banging
 America a la campanona a la 		024	0.2	(in sleen)
Adama re anala		332	0.2	Paranhimosis
Participation and when the filment		334	0.2	Panilloma of urinary tract
Enconorma el revico		336	0.2	Bingworm of scalp
Cercional of anese		337	0.2	Ervthema multiforme
25 เป็นสมบัติ 25 เป็นสมบัติ		340	0.2	Onychogryphosis
Those the reserved is the quantum		342	0.2	Granuloma pyogenicum
address of the second s		343	0.2	Mallet fingers
Carlossynta art secondal		351	0.1	Primary amenorrhea
Contraction of conducts		352	0.1	Spina bifida occulta
Participation provide thread		355	0.1	Cleft palate and barelin
industria a contract		361	0.1	Enidemic vertico
Contractor of Manager and		368	0.1	Molluscum contagiosum
		370	0.1	Traumatic ostoitis of patella
		303	0.1	lirethral caruncia
alwayer hererbits		300	.05	Torn ligament of knop
Personal States and States		405	.03	Acute infective polypouritie
To be and a second s		405	.025	Epidemia bissup
		400	.025	Orf
		430	.025	Bakar avet
		459	.025	Bassala infantum
		452	0	Epidemic winter versiting
		4/4	0	Horponging infection
C Ea	why Diagnosis and	4/5	0	Herpangina Infection
C. Ea Treatr	ment of Major			Garcaio averante nista: Sentitive multi naist
Impor (82 ar	titics	260	0.4	Agute goporrhos
(82 er	illies/	209	0.4	Parapola
an and second in the second		270	0.4	
		213	0.4	Acute mus

Appendix, Continued						
Group	Subgroup	dast	Rank	Frequency	Entity	
en e	20	1	274	0.4	Acute pulmonary edema	
			276	0.4	Acute nephritis	
			280	0.4	Ectopic pregnancy	
			287	0.4	Congenital pyloric stenosis	
			289	0.3	Brucellosis	
			290	0.3	Erysipelas	
			291	0.3	Diptheria	
			294	0.3	Cretinism	
			302	0.3	Subarachnoid hemorrhage	
			310	0.3	Hydronephrosis	
			311	0.3	Acute salpingitis	
			319	0.3	Postural deformities of spine	
			320	0.3	Dislocation of joints	
					(excluding shoulder)	
			321	0.3	Chorea	
			322	0.2	Tapeworm	
			327	0.2	Cerebral emboli	
			328	0.2	Retinal detachment	
			329	0.2	Chronic glaucoma	
			330	0.2	Acute mastoiditis	
			331	0.2	Acute hemorrhage pancreatitis	
			347	0.2	Hemolytic diseases of	
					the newborn	
			348	0.2	Dislocation of shoulder	
			349	0.1	Latent syphilis	
			350	0.1	Vascular accidents in the eye	
			354	0.1	Congenital dislocation of hip	
			356	0.1	Hemorrhagic disease of	
					newborn	
			357	0.1	Cardiovascular syphilis	
			358	0.1	Uremia	
			359	0.1	Acute retention of urine	
			360	0.1	Secondary tuberculosis,	
					bones and joints	
			362	.07	Toxoplasmosis	
			363	.07	Staphylococcal and	
					hemophilus pneumonia	
			364	.07	Carpopedal spasm	
			367	.07	Urethral stricture	
			369	.05	Polymyalgia rheumatica	
			371	.05	Tuberculosis of urogenital tract	
			372	.05	Lupus vulgaris	
			373	.05	Tabes dorsalis	
			374	.05	Typhoid and paratyphoid	
			376	.05	Malaria	
			378	.05	Pink disease	
			379	.05	Simmond disease	
			380	.05	Exophthalmos with obesity	
anton all			383	.05	Henoch-Schönlein purpura	
			388	.05	Stokes-Adams attacks	
			389	.05	Deep femoral-vein thrombosis	

GroupSubgroupRankFrequencyEntity390.05Empyema392.05Pyelonephrosis395.05Pemphigus neonatorium396.05Acute septic arthritis397.05Osteochondritis dissecans398.05Reiter disease401.025Miliary tuberculosis402.025Tuberculous endometritis403.025Intestinal tuberculosis404.025Schistosomiasis405.05Celiac syndrome415.025Chronic iridocyclitis426.025Celiac syndrome433.025Multiple neurofibromatosis444.025Steroid osteoporosis445.0Primary syphilis446.0General paralysis of the insane449.0.0450.0Acute rheumatic fever450.0.05461.0.05462.0.02462.0461.0461.0462.0462.0462.0462.0462.0462.0462.0462.0462.0464.0465.0466.0467.0468.0468.0468.0468.0468.0 <th></th> <th>Appendi</th> <th>x, Contiu</th> <th>ined</th> <th></th>		Appendi	x, Contiu	ined	
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395.05Pemphigus neonatorium396.05Acute septic arthritis397.05Osteochondritis dissecans398.05Reiter disease401.025Miliary tuberculosis402.025Tuberculous endometritis403.025Intestinal tuberculosis407.025Schistosomiasis408.025Amebic dysentery409.025Pituitary infantilism415.025Chronic iridocyclitis426.025Celiac syndrome433.025Hematocolopos434.025Multiple neurofibromatosis440.025Steroid osteoporosis4450Primary syphilis4470Secondary syphilis4480Gumma4590Hyperparathyroidism4610Addison disease4620Scurvy4620Scurvy4620Scurvy			392	.05	Pvelonephrosis
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407.025Schistosomiasis408.025Amebic dysentery409.025Pituitary infantilism415.025Chronic iridocyclitis426.025Celiac syndrome433.025Chronic salpingitis and pyosalpinx434.025Hematocolopos435.025Multiple neurofibromatosis4450Primary syphilis4450Primary syphilis4470Secondary syphilis4480General paralysis of the insane4490Gumma4500Congenital syphilis4570Acute rheumatic fever4590Hyperparathyroidism4600Adrenal medulla tumor4610Acdison disease4620Scurvy4620Scurvy4620Scurvy			403	.025	Intestinal tuberculosis
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409.025Pituitary infantilism415.025Chronic iridocyclitis426.025Celiac syndrome433.025Chronic salpingitisand pyosalpinx434.025435.025Multiple neurofibromatosis440.025Steroid osteoporosis4450Primary syphilis4470Secondary syphilis4480General paralysis of the insane4490Gumma4500Congenital syphilis4570Acute rheumatic fever4590Hyperparathyroidism4600Adrenal medulla tumor4610Addison disease4620Scurvy4620Scurvy			408	.025	Amebic dysentery
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and pyosalpinx 434 .025 Hematocolopos 435 .025 Multiple neurofibromatosis 440 .025 Steroid osteoporosis 445 0 Primary syphilis 447 0 Secondary syphilis 448 0 General paralysis of the insane 449 0 Gumma 450 0 Congenital syphilis 457 0 Acute rheumatic fever 459 0 Hyperparathyroidism 460 0 Adrenal medulla tumor 461 0 Addison disease 462 0 Scurvy 462 0 Scurvy			433	.025	Chronic salpingitis
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4600Adrenal medulla tumor4610Addison disease4620Scurvy4620Scurvy			459	0	Hyperparathyroidism
461 0 Addison disease 462 0 Scurvy 463 0 Bioloto			460	0	Adrenal medulla tumor
462 0 Scurvy			461	0	Addison disease
A62 0 Diskota			462	0	Scurvy
403 U NICKELS			463	0	Rickets
467 0 Plummer-Vinson syndrome			467	0	Plummer-Vinson syndrome
469 0 Regional ileitis			469	0	Regional ileitis
470 0 Perinephric abscess			470	0	Perinephric abscess
472 0 Slipped femoral epiphyses			472	0	Slipped femoral epiphyses
D. Chronic, Progressive	D. Chr	nic, Progressiv	e		
Diseases—	Disease	s—			
Many Problems	Many F	roblems			
(42 entities) 277 0.4 Prostatitis	(42 ent	ties)	277	0.4	Prostatitis
286 0.4 Congenital eye defects			286	0.4	Congenital eye defects
296 0.3 Senile dementia			296	0.3	Senile dementia
300 0.3 Homosexuality			300	0.3	Homosexuality
301 0.3 Addictions (excluding alcohol)			301	0.3	Addictions (excluding alcohol)
303 0.3 Healed choroiditis			303	0.3	Healed choroiditis
309 0.3 Portal cirrhosis of liver			309	0.3	Portal cirrhosis of liver
325 0.2 Petit mal			325	0.2	Petit mal
326 0.2 Symptomatic epilepsy			326	0.2	Symptomatic epilepsy
332 0.2 Fistula in ano			332	0.2	Fistula in ano
338 0.2 Dermatitis artefacta			338	0.2	Dermatitis artefacta
339 0.2 Bedsore			339	0.2	Bedsore
344 0.2 Imperforate anus			344	0.2	Imperforate anus
and megacolon					and megacolon

DIAGNOSTIC VOCABULARY

Group	Subgroup	Rank	Frequency	Entity		
		345	0.2	Major deformities of limbs		
		346	0.2	Meningomyelocele		
		353	0.1	Monstrosity		
		365	.07	Complete heart block		
		366	.07	Chronic nephritis		
		375	.05	Idiopathic larvngeal palsy		
		377	05	Bronzed diabetes		
		384	05	Anorevia nervosa		
		385	.05	Narcolensy		
		386	.05	Monière diagage		
		207	.05	Meter neurone disease		
		307	.05	Wotor neurone disease		
		400	.05	Hydrocephaius		
		404	.025	Sarcoidosis		
		418	.025	Hypertensive encephalopathy		
		419	.025	Periarteritis nodosa		
		425	.025	Achalasia		
		429	.025	Nephrotic syndrome		
		431	.025	Renal dwarfism		
		438	.025	Ankylosing spondylitis		
		441	.025	Sudeck osteoporosis		
		442	.025	Microcephaly		
		443	.025	Congenital polycystic kidney		
		444	.025	Tuberous sclerosis		
		445	0	Presenile dementia		
		455	0	Acromegaly		
		456	0	Diabetes insipidus		
		458	0	Cushing syndrome		
		464	0	Raynaud disease		
		465	0	Buerger disease		
	E Major Life	400		Buerger discuse		
	Threatening					
	Diseases					
	(30 entities)	293	0.3	Hypoglycemic coma		
		307	0.3	Carcinoma of esophagus		
		335	0.2	Large ovarian cyst		
		381	05	Multiple myelomatosis		
		382	05	Acute leukemia		
		301	.05	Carcinoma of gallbladder		
		001	.00	and papereas		
		204	05	Carolnoma of prostato		
		410	.05	Hodakin disease		
		410	.025	Cient felliouler hans have		
		411	.025	Chant follicular lymphoma		
		412	.025	Chronic myelold leukemia		
		413	.025	Chronic lymphoid leukemia		
		414	.025	Wycosis fungoides		
		416	.025	Dissecting aneurysm		
		417	.025	Middle meningeal hemorrhag (traumatic)		
		420	.025	Valvular (tension)		

Appendix, Continued				
Group	Subgroup	Rank	Frequency	Entity
small to president particular		422	.025	Epithelioma (tongue)
		423	.025	Carcinoma of tonsil
		424	.025	Mixed parotid tumor
		427	.025	Mesenteric infarction
		428	.025	Carcinoma of kidney
		430	.025	Carcinoma of bladder
		432	.025	Carcinoma of vulva
		437	.025	Sarcoma of bone
		451	0	Smallpox
		454	0	Diabetic coma
		466	0	Carcinoma of larynx
		468	0	Volvulus of intestines
		470	0	Carcinoma of body of uterus
		473	0	Traumatic intracranial
				hemorrhage

Author's note: The low frequencies of ischemic heart disease, diabetes, venereal disease, and addiction reflect geographic and cultural influences and are not due to methodological defects.

pensive home aid or home help service may be more important over the years than a knee replacement operation or a CAT scanner.

Administrative Implications

The concept of the community health care team consisting of nurses, physiotherapists, occupational therapists, social workers, home helps, meals-on-wheels, holiday relief, laundry services, etc, will work only if physicians are prepared to be fully involved and to delegate freely. Methods of payment of health care personnel are vital here.

As the services of health care professionals become increasingly expensive, there is a parallel need to ensure that, wherever possible, the methods of payment encourage, not discourage, effective delegation to less well-paid personnel.

Subgroup E.

(0.8 percent of All Primary Diagnoses— 45 Different Disease Entities)

Life threatening diseases. Diagnosis is expected by both patient and medical profession to be as early as possible, eg, carcinoma of all kinds, myocardial infarcts, dissecting aneurysm (Appendix 1).

Clinical Implications

A brief glance at the contents of this group reveals the emotive and spectacular nature of these conditions. A great deal of medical teaching and effort are expended on this small and highly specialized group.

Administrative Implications

In view of the small numbers of patients affected and the relatively poor return for time and effort spent, the primary care teaching and costbenefits of our present methods of handling this group require much further questioning and study.

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