



Corpus-based Studies on Nursing Textbooks

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Abstract

English for Specific Purposes (ESP) educators often face dilemma in deciding what lexical items to teach their students. In the field of English for Nursing Purposes (ENP), there is no exception on this issue as well. Only by analyzing the nursing corpus made up of essential core textbooks that can provide better insights and guide to both nursing students and educators. This research aims to highlight the 2,000 most frequently used nursing words across the core textbooks of nursing and to profile the types of 'low frequency' lexis which comprise the nursing corpus in terms of the General Service List (GSL) and Academic Word List (AWL) lexis coverage. By knowing the frequently used nursing words would further reduce students' reading deficiency if the students use the 2000-word list.

Keywords: Corpus-based studies on nursing textbooks; Most frequently used nursing content words; Low-frequency words profiling using the GSL and AWL; Nursing lexis

1. Introduction

The primary function of a nursing corpus should directly assist nurses in understanding the language for the purpose of communication with each other and their patients, report writing and interpreting information for work purposes. It is important to note here that the identification of the most frequent field-specific academic words is essential (Chung & Nation, 2003); for responsible planning for ESP or EAP courses. The field of English for Academic Purposes (EAP) such as ENP has become imperative in bridging the students from their general proficiency English into learning the language in a context. This scenario has become crucial especially when students enroll to higher learning institutions in Malaysia. Most of the nursing colleges in this country have developed an intensive program with the hope to solve this matter.

Unfortunately, the English instructors who are responsible in teaching the students may also encounter difficulties; not knowing the vocabulary to be focused on as they are not from the nursing background. Having a good knowledge of academic vocabulary has been emphasized for success at higher levels of education (Ward, 2009; Nation, 2001; Coxhead, 2000; Nation & Waring, 1997). Thus, the best solution to overcome this matter would be by looking at a corpus of the field in order to 'undergo and understand' the way the vocabulary is presented in the nursing text. On the other hand, the field of nursing is exclusive in the sense that they have a specialized set of vocabulary which is distinct from other fields. The analysis of the academic English corpora is able to portray the vocabulary types, frequency and range coverage of the texts in different fields which lead to the production of word lists (Nation, 2001).

This study focuses on the vocabulary used in a nursing text of 3,640,760 running words from 7 major academic books used by student nurses for a 3 years diploma programme in Malaysia. The academic course books are chosen based on the syllabus provided by the Nursing Board of Malaysia. It is essential to observe the different types of vocabulary used in these course books as it would assist the students to be able to comprehend a nursing text in a more effective way.

1.1 Rationale behind the Development of the Corpus

There is reasonable consensus that a corpus will not just provide insights into the contents but also that the results of the analyses will be claimed to be typical of the language from which the corpus was selected (Mukundan & Menon 2007). L2 students who need to use the language for challenging academic purposes, such as reading academic texts or reading technical texts and who normally have only a limited amount of time to do this, need systematic vocabulary learning instruction in addition to learning through extensive reading or incidental learning (Coady, 1997, Schmitt, 2000 & Nation, 2001).

The creation of nursing corpus in this study is essential as it will reveal the specialized vocabulary that must be instilled in the students. The need for specific academic corpora for various fields is more eminent than ever now as the availability of language corpora to learners and teachers facilitates better learning (Mudraya, 2006).

The corpus created will not only help student nurses but also facilitates the lecturers and instructors in the process of teaching and learning. According to Holme (2006), a common complaint among English language teachers faced with unfamiliar scientific content is that they do not fully understand what they are dealing with and are not properly

equipped to explain the meanings that confront them. With the existence of the corpus, lecturers and instructors would be able to prepare themselves with the proper subject matter.

1.2 Books Used in Creating the Corpus

This corpus is created based on seven course books as listed below:

- i) Anatomy & Physiology
- ii) Medical Surgical Nursing
- iii) Pharmacology in Nursing
- iv) Clinical Nursing and Related Sciences
- v) Fundamental of Nursing
- vi) Nursing Ethics
- vii) Leadership and Management in Nursing

The course books listed are categorized into 2 which are:

- a) Specialized Technical Nursing Course Books (i, ii, iii, iv and v)
- b) Non Technical Nursing Course Books (vi and vii)

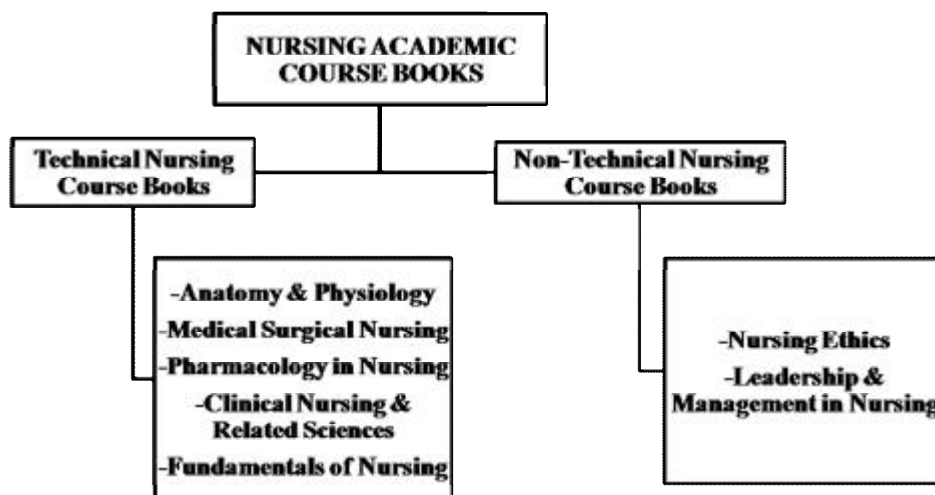


Figure 1. The Categorization of the Books

The first book is named “Ross and Wilson Anatomy and Physiology in Health and Illness” by Anne Waugh and Allison Grant. This subject will be able to help learners understand the basic human body functions and life processes, major human body systems and their functions and also the anatomical locations, structures, and physiological functions of the main components of each major system of the human body. The second book is named “Brunner & Suddarth’s Textbook of Medical-Surgical Nursing” written by Suzanne C. Smeltzer, Brenda G. Bare, Janice L. Hinkle and Kerry H. Cheever. In this course, student nurses will receive advance education not only in medical but in surgical as well in order to expand the nursing roles in hospitals and healthcare centres. The third book is “Trounce’s Clinical Pharmacology for Nurses” by Ben Greenstein. Pharmacology is the study of the science of medicine. In the healthcare field, these drugs are used to treat, prevent or even diagnose diseases and therefore insufficient knowledge on this by doctors or nurses might lead to a worsen condition or even fatality. The fourth book is “Watson’s Clinical Nursing and Related Sciences”, 7th edition, edited by Mike Walsh and Alison Crumbie.

The clinical nursing skills for the nurses are essential not only to provide comprehensive care but also enhance clinical competence. For nurses to provide health service at different settings such as hospitals, health centers, health post and at the community level including home based care for chronically sick patients, this course is very necessary. The fifth book was named “Kozier and Erb’s Fundamentals of Nursing, Concepts, Process and Practice,” 8th Edition written by Berman, Snyder, Kozier and Erb. This subject is a general idea of patient relations including basic human needs, communication skills, stress and hospitalization, and transcultural factors influencing nursing care; the adult patient care unit; advanced principles of patient hygiene; body mechanics; positioning and ambulating the adult patient; and medical

isolation. The sixth is the “Nursing Ethics” 5th Edition written by Ian E. Thompson, Kath M. Melia, Kenneth M Boyd, and Dorothy Horsburgh.

Nursing ethics is a branch of applied ethics that concerns itself with activities in the area of nursing. Although nursing ethics are quite similar to medical ethics, it can be differentiated by the highlights on relationship, human dignity and mutual care. It is important to study nursing ethics specifically because student nurses will occupy a specific place in the division of labour in healthcare. The seventh book chosen was “Effective Leadership and Management in Nursing” by Eleanor J.Sullivan and Phillip J. Decker. This course provides full details on the leadership and management in nursing profession. Leadership is one of the skills that student nurses should possess which will help them provide direct care to the community.

2. Objectives of the Study

The main aim of this study is to explore and determine the language of nursing from the aspects of the vocabulary used in terms of their loading, distributions and the specialized words in the nursing texts. Thus, the objectives of the study are as below:

- 1) To identify the word properties in the language of nursing
- 2) To determine the 2000 most frequently used nursing words

3. Methodology

The seven academic nursing texts were used to create the nursing corpus which contains 3,640,760 running words. These seven books were chosen based on the program of study for the nursing diploma course in one of the nursing college in Malaysia. These textbooks were then scanned, digitized and all the charts, diagrams and bibliographies were removed and convert all into text file format (.txt). For this step, Abby Fine Reader 8.0 software was used to preserve the originality of the texts. The scanning and digitizing procedure has been done in various studies by Al-MarooqiMukundan (2009), Mukundan (2007), and Mukundan & Hussin (2007) and Mukundan and Menon (2007). The digitized texts were run using RANGE software (Heatley, Nation & Coxhead, 2002) to discriminate the types of words according to word list (GSL, AWL and non-word list items). Subsequently, Word Smith 5.0 (Scott, 2010) was used to find the 2,000 most frequently used nursing words and the number of low frequency words in each nursing academic books.

4. Results and Discussion

4.1 The Vocabulary Size of the Corpora

A total of 3,640,760 tokens (running words) were found from all the texts inclusive of the specialized (technical) and general (non-technical) nursing academic course books. The corpus presents 97,836 types of words. The tokens and types represented in each book are shown in the table below.

Table 1. The number of tokens and types in each book.

| CORPUS | TOKENS | TYPES |
|--|------------------|--------|
| i) Anatomy & Physiology | 195,729 | 11,182 |
| ii) Medical Surgical Nursing | 1,529,951 | 64,592 |
| iii) Pharmacology in Nursing | 219,366 | 19,101 |
| iv) Clinical Nursing and Related Sciences | 664,979 | 25,710 |
| v) Fundamental of Nursing | 623,097 | 30,681 |
| vi) Nursing Ethics | 241,773 | 12,065 |
| vii) Leadership and Management in Nursing | 165,865 | 11,420 |
| TOTAL | 3,640,760 | |

In this study, the low frequency words listed below are defined as the words which occur once up to ten times in each book. The words are then identified and categorized into three:

1. Words which are in General Service List (GSL)
2. Words which are in the Academic Word List (AWL)
3. Words which are not in the General Service List (GSL) and Academic Word List (AWL)

The motive to identify the number of these words and their categories is to show the coverage of words in the nursing academic text.

Table 2. Book of Anatomy and Physiology

| FREQUENCY | TOTAL WORDS | LIST | | |
|-----------|-------------|------|-----|----------------|
| | | GSL | AWL | NON GSL/AWL |
| 1 | 4401 | 594 | 254 | 3553 |
| 2 | 1509 | 326 | 136 | 1047 |
| 3 | 863 | 199 | 89 | 575 |
| 4 | 580 | 129 | 52 | 399 |
| 5 | 443 | 108 | 56 | 279 |
| 6 | 309 | 87 | 34 | 188 |
| 7 | 290 | 85 | 29 | 176 |
| 8 | 209 | 70 | 33 | 106 |
| 9 | 189 | 53 | 18 | 118 |
| 10 | 144 | 44 | 19 | 81 |

Table 3. Book of Medical-Surgical Nursing

| FREQUENCY | TOTAL WORDS | LIST | | |
|-----------|-------------|------|-----|----------------|
| | | GSL | AWL | NON GSL/AWL |
| 1 | 37439 | 699 | 235 | 36505 |
| 2 | 6885 | 427 | 162 | 6296 |
| 3 | 3335 | 290 | 115 | 2930 |
| 4 | 2263 | 244 | 76 | 1943 |
| 5 | 1575 | 164 | 94 | 1317 |
| 6 | 1180 | 155 | 66 | 959 |
| 7 | 945 | 139 | 68 | 738 |
| 8 | 772 | 136 | 55 | 581 |
| 9 | 671 | 118 | 53 | 500 |
| 10 | 543 | 95 | 53 | 395 |

Table 4. Book of Pharmacology in Nursing

| FREQUENCY | TOTAL WORDS | LIST | | |
|-----------|-------------|------|-----|----------------|
| | | GSL | AWL | NON GSL/AWL |
| 1 | 10470 | 826 | 344 | 9300 |
| 2 | 2376 | 390 | 166 | 1820 |
| 3 | 1254 | 261 | 106 | 887 |
| 4 | 819 | 208 | 83 | 528 |
| 5 | 535 | 144 | 57 | 334 |
| 6 | 394 | 109 | 37 | 248 |
| 7 | 354 | 109 | 31 | 214 |
| 8 | 246 | 74 | 36 | 136 |
| 9 | 221 | 78 | 25 | 118 |
| 10 | 186 | 61 | 23 | 102 |

Table 5. Book of Clinical Nursing and Related Sciences

| FREQUENCY | TOTAL WORDS | LIST | | |
|-----------|-------------|------|-----|----------------|
| | | GSL | AWL | NON GSL/AWL |
| 1 | 10661 | 765 | 335 | 9561 |
| 2 | 3409 | 481 | 215 | 2713 |
| 3 | 1864 | 340 | 151 | 1373 |
| 4 | 1282 | 255 | 112 | 915 |
| 5 | 870 | 176 | 99 | 595 |
| 6 | 735 | 163 | 86 | 486 |
| 7 | 561 | 134 | 63 | 364 |
| 8 | 467 | 108 | 60 | 299 |
| 9 | 376 | 102 | 45 | 229 |
| 10 | 310 | 81 | 52 | 177 |

Table 6. Book of Fundamentals of Nursing

| FREQUENCY | TOTAL WORDS | LIST | | |
|-----------|-------------|------|-----|----------------|
| | | GSL | AWL | NON GSL/AWL |
| 1 | 14619 | 828 | 303 | 13488 |
| 2 | 3762 | 450 | 210 | 3102 |
| 3 | 2101 | 334 | 141 | 1626 |
| 4 | 1399 | 265 | 118 | 1016 |
| 5 | 981 | 212 | 92 | 677 |
| 6 | 772 | 179 | 76 | 517 |
| 7 | 608 | 143 | 66 | 399 |
| 8 | 525 | 138 | 62 | 325 |
| 9 | 417 | 113 | 54 | 250 |
| 10 | 367 | 101 | 57 | 209 |

Table 7. Book of Nursing Ethics

| FREQUENCY | TOTAL WORDS | LIST | | |
|-----------|-------------|------|-----|----------------|
| | | GSL | AWL | NON GSL/AWL |
| 1 | 5078 | 787 | 380 | 3911 |
| 2 | 1694 | 452 | 216 | 1026 |
| 3 | 987 | 290 | 170 | 527 |
| 4 | 574 | 195 | 98 | 281 |
| 5 | 453 | 157 | 85 | 211 |
| 6 | 326 | 134 | 70 | 122 |
| 7 | 243 | 117 | 43 | 83 |
| 8 | 218 | 87 | 56 | 75 |
| 9 | 161 | 79 | 42 | 40 |
| 10 | 146 | 71 | 37 | 38 |

Table 8. Book of Leadership and Management in Nursing

| FREQUENCY | TOTAL WORDS | LIST | | |
|-----------|-------------|------|-----|----------------|
| | | GSL | AWL | NON GSL/AWL |
| 1 | 4851 | 802 | 385 | 3664 |
| 2 | 1604 | 418 | 197 | 989 |
| 3 | 890 | 274 | 139 | 477 |
| 4 | 626 | 205 | 134 | 287 |
| 5 | 413 | 156 | 75 | 182 |
| 6 | 323 | 110 | 68 | 145 |
| 7 | 276 | 116 | 59 | 101 |
| 8 | 201 | 101 | 45 | 55 |
| 9 | 181 | 78 | 30 | 73 |
| 10 | 160 | 70 | 38 | 52 |

Tables 2 to 8 show the number of words which occur once up to 10 times in all the nursing academic course books. From the data presented, it is revealed that there are many words in the nursing academic text which do not belong to the general or academic words. These words are the specialized vocabulary in the nursing field and they may consist of medical terms used in the environment or work place of the nurses. This further enhances the rationale of having a corpus for the language of nursing as it is able to expose underlying words in the nursing field. These 'low-frequency' words may bring about lexical learning challenges to student nurses due to their low occurrence in the textbooks. The GSL and AWL can be easily obtained or downloaded if they are required by the educators and students. However, these non-GSL and non-AWL words cannot be identified unless further content analysis or lexicology research is carried out. This result shows that even the specialised nursing words are not frequently recycled and repeated throughout the texts which may debilitate the effective learning of nursing lexis. Specialised nursing words should appear more frequently throughout the texts so that they can be reckoned with and learned more effectively. Perhaps, these textbooks have not accommodated the necessary lexical learning principles.

4.2 The 2,000 most frequent nursing words

The most common 2,000 words used in the nursing academic course books are identified after removing all the functional words in the English language such as articles, pronouns and other functional grammatical items in the language. The GSL word families were not removed at this stage because this 2000 words list is considered as a list to enhance the teaching and learning process. GSL words which are maintained in these 2,000 most frequent nursing words are the words which are considered as the words which are useful and needed for the field of ENP. Moreover, there are 2,157 types in these most frequent nursing words which eventually make it a higher coverage list compared to both GSL and AWL merged. Thus, it shows that a genre-specific corpus should always be developed in order to discriminate and identify the eminent words in the field that provide higher significance to content-specific word list development (Martinez,2009;Mudraya 2006;Ward,1999). The words found are remained in their lexico-grammar forms to promote better comprehension of words in 'authentic' or 'real' forms in terms of frequency (see Ward, 2009).

Table 9: 25 most frequent used nursing words in the nursing academic course books

| WORDS | FREQUENCY |
|----------|-----------|
| PATIENT | 16982 |
| PATIENTS | 13934 |
| CARE | 11909 |
| HEALTH | 9177 |
| BLOOD | 8406 |
| NURSE | 8220 |
| NURSING | 7535 |
| PAIN | 7089 |
| USED | 6402 |

| | |
|------------|------|
| USE | 5483 |
| DISEASE | 4979 |
| NURSES | 4908 |
| TREATMENT | 4646 |
| BODY | 4567 |
| PEOPLE | 4412 |
| CLIENT | 4380 |
| INCLUDE | 4156 |
| SKIN | 4098 |
| PRESSURE | 4081 |
| FAMILY | 3806 |
| MANAGEMENT | 3783 |
| TIME | 3783 |
| RISK | 3721 |
| INFECTION | 3576 |
| CLIENTS | 3455 |

Functional words like 'the', 'an' and 'a' (articles), 'she', 'he', 'them', etc (pronouns) and other functional grammatical items were removed from the list. The top 100 of the 2,000 nursing words is listed in Appendix A.

5. Conclusion

The teaching and learning of English for Nursing Purposes (ENP) can be enhanced with the existence of the nursing corpus. Student nurses may be exposed to the vocabulary important in their field in a more comprehensive way. With the creation of this corpus, ENP material developers would have an idea and guidelines on the vocabulary needed to be taken into consideration when developing a material or an ENP course book. On the other hand, the production of the nursing dictionaries can be developed not only based on the medical terminologies but also focusing on the frequently used nursing words in the field.

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Appendix A

| | | | | | |
|----|------------|----|-------------|-----|-------------|
| 1 | PATIENT | 42 | SEE | 83 | RESPIRATORY |
| 2 | PATIENTS | 43 | PROBLEMS | 84 | PART |
| 3 | CARE | 44 | THERAPY | 85 | PRACTICE |
| 4 | HEALTH | 45 | HEART | 86 | CHANGE |
| 5 | BLOOD | 46 | SURGERY | 87 | AREA |
| 6 | NURSE | 47 | COMMON | 88 | FOLLOWING |
| 7 | NURSING | 48 | PROCESS | 89 | RATE |
| 8 | PAIN | 49 | LEVEL | 90 | WOMEN |
| 9 | USED | 50 | INFORMATION | 91 | FIGURE |
| 10 | USE | 51 | HOME | 92 | WORK |
| 11 | DISEASE | 52 | RESULT | 93 | INCREASE |
| 12 | NURSES | 53 | PHYSICAL | 94 | LESS |
| 13 | TREATMENT | 54 | BOTH | 95 | NECESSARY |
| 14 | BODY | 55 | NEEDS | 96 | GIVEN |
| 15 | PEOPLE | 56 | CANCER | 97 | FIRST |
| 16 | CLIENT | 57 | SUPPORT | 98 | SEVERE |
| 17 | INCLUDE | 58 | PROVIDE | 99 | ACTIVITY |
| 18 | SKIN | 59 | SIGNS | 100 | USING |
| 19 | PRESSURE | 60 | CLINICAL | 101 | RESPONSE |
| 20 | FAMILY | 61 | FACTORS | 102 | OTHERS |
| 21 | MANAGEMENT | 62 | EXAMPLE | 103 | INJURY |
| 22 | TIME | 63 | EFFECTS | 104 | RIGHT |
| 23 | RISK | 64 | PREVENT | 105 | DEVELOP |
| 24 | INFECTION | 65 | ACUTE | 106 | POSITION |
| 25 | CLIENTS | 66 | CONTROL | 107 | HIGH |
| 26 | SYSTEM | 67 | SPECIFIC | 108 | URINE |
| 27 | SYMPTOMS | 68 | POSSIBLE | 109 | DRUGS |
| 28 | NEED | 69 | MEDICATIONS | 110 | HOURS |
| 29 | CAUSE | 70 | CHRONIC | 111 | APPROPRIATE |
| 30 | CHANGES | 71 | WELL | 112 | RENAL |
| 31 | ASSESSMENT | 72 | ASSOCIATED | 113 | RESULTS |
| 32 | FLUID | 73 | LEVELS | 114 | INCLUDING |
| 33 | CELLS | 74 | OCCURS | 115 | SMALL |
| 34 | IMPORTANT | 75 | LIFE | 116 | STATUS |
| 35 | FUNCTION | 76 | MUSCLE | 117 | INDIVIDUAL |
| 36 | NORMAL | 77 | AGE | 118 | CAUSES |
| 37 | PERSON | 78 | MEDICAL | 119 | CARDIAC |
| 38 | LOSS | 79 | BONE | 120 | SIDE |
| 39 | OCCUR | 80 | HELP | 121 | BECOME |
| 40 | INCREASED | 81 | YEARS | 122 | PROCEDURE |
| 41 | TISSUE | 82 | RELATED | 123 | DRUG |

124 DECREASED
125 ACTION
126 NEW
127 DIFFERENT
128 SURGICAL
129 EFFECTIVE
130 COMPLICATIONS
131 ACTIVITIES
132 FAILURE
133 BRAIN
134 MORAL
135 MAKE
136 SOCIAL
137 TYPE
138 PROBLEM
139 WATER
140 CONDITION
141 CELL
142 PRIMARY
143 HISTORY
144 POTENTIAL
145 MEDICATION
146 STAFF
147 LIVER
148 AREAS
149 CHEST
150 PRESCRIBED
151 AVAILABLE
152 MADE
153 TAKE
154 WEIGHT
155 ILLNESS
156 PRESENT
157 DEVELOPMENT
158 MAJOR
159 DISORDERS
160 ABILITY
161 BED
162 SEVERAL
163 EXPERIENCE
164 INTAKE
165 REQUIRED
166 BLEEDING

167 GROUP
168 LOWER
169 AGENTS
170 GROUPS
171 ORAL
172 STRESS
173 EARLY
174 ABLE
175 FORM
176 PLAN
177 REDUCE
178 NEEDED
179 TEACHING
180 ROLE
181 DATA
182 NERVE
183 MEMBERS
184 GENERAL
185 PLACE
186 AVOID
187 PULMONARY
188 OLDER
189 WOUND
190 DIAGNOSIS
191 TUBE
192 REQUIRE
193 DIABETES
194 SAME
195 ASSESS
196 LARGE
197 GOALS
198 UNIT
199 CONDITIONS
200 PERFORMED
201 VOLUME
202 DEATH
203 LEFT
204 OXYGEN
205 EVEN
206 HOSPITAL
207 ETHICS
208 CHILDREN
209 ANOTHER

210 DRAINAGE
211 SERVICES
212 CALLED
213 SITE
214 FREQUENTLY
215 KNOWLEDGE
216 PER
217 INTERVENTIONS
218 PERSONS
219 RESEARCH
220 URINARY
221 ADDITION
222 OWN
223 FOOD
224 BLADDER
225 DAILY
226 PERIOD
227 BASED
228 INDIVIDUALS
229 EXERCISE
230 IDENTIFY
231 CAUSED
232 OUTCOMES
233 HUMAN
234 ADEQUATE
235 HEAD
236 LOW
237 ESPECIALLY
238 PERSONAL
239 GLUCOSE
240 EFFECT
241 INVOLVED
242 DECREASE
243 FLOW
244 MUSCLES
245 ETHICAL
246 SEXUAL
247 ADMINISTRATION
248 ANXIETY
249 EDUCATION
250 MAINTAIN
251 STATE
252 VALUES

253 AMOUNT
254 TRACT
255 DAMAGE
256 FURTHER
257 BACK
258 CATHETER
259 JOINT
260 INCREASES
261 HAND
262 MEASURES
263 COMMUNICATION
264 PROCEDURES
265 DETERMINE
266 EXAMINATION
267 TYPES
268 PRO
269 SKILLS
270 SLEEP
271 TEST
272 EVERY
273 DIET
274 LUNG
275 QUALITY
276 TABLE
277 EYE
278 ENVIRONMENT
279 ESSENTIAL
280 ABDOMINAL
281 COMMUNITY
282 ARTERY
283 LEARNING
284 RESOURCES
285 TAKEN
286 CASES
287 GOOD
288 INFECTIONS
289 KNOWN
290 TEMPERATURE
291 SIGNIFICANT
292 INSULIN
293 TISSUES
294 WAY
295 FOUND

296 AFFECTED
297 AIR
298 IMPAIRED
299 QUESTIONS
300 MAKING
301 SYSTEMS
302 PLANNING
303 STAGE
304 INCLUDES
305 MONITORING
306 CASE
307 ENSURE
308 TEAM
309 TREAT
310 UPPER
311 GREATER
312 STUDY
313 MOVEMENT
314 SITUATION
315 BOWEL
316 LOCAL
317 REQUIRES
318 SERUM
319 EVALUATION
320 LEAD
321 BREAST
322 RATHER
323 TIMES
324 ELDERLY
325 INCREASING
326 ADULTS
327 CONSIDERED
328 BECOMES
329 INVOLVES
330 ISSUES
331 LIKELY
332 ADMINISTERED
333 CONTACT
334 DIAGNOSTIC
335 STATES
336 CERTAIN
337 VESSELS
338 PROVIDES

339 MEN
340 EVIDENCE
341 VENOUS
342 ALCOHOL
343 OUTPUT
344 AGAINST
345 GROWTH
346 PARTICULARLY
347 MEANS
348 PUBLIC
349 VARIOUS
350 REST
351 POSITIVE
352 DISORDER
353 PRESENCE
354 STRATEGIES
355 REDUCED
356 LONG
357 PULSE
358 EMOTIONAL
359 SODIUM
360 COMMONLY
361 PROMOTE
362 TRAUMA
363 DIFFICULT
364 SPINAL
365 AFFECT
366 DECISIONS
367 TREATED
368 ASSIST
369 MONTHS
370 PROFESSIONAL
371 PARTICULAR
372 SHOCK
373 EDEMA
374 FLUIDS
375 CHART
376 RESPONSIBILITY
377 MENTAL
378 ARTERIAL
379 TESTS
380 RIGHTS
381 CARING

382 MOUTH
383 RESULTING
384 ACTIONS
385 FINDINGS
386 GASTRIC
387 LONGTERM
388 REMOVED
389 DISEASES
390 SELFCARE
391 PROTEIN
392 SURFACE
393 HEALTHCARE
394 PRODUCE
395 SYNDROME
396 APPROACH
397 BALANCE
398 METHODS
399 MIGHT
400 EXCESSIVE
401 PROVIDING
402 PROVIDED
403 REPORT
404 ACTIVE
405 COULD
406 UNDERSTANDING
407 PREVENTION
408 HORMONE
409 BREATHING
410 RANGE
411 MAIN
412 END
413 FEW
414 DOSE
415 SENSORY
416 TAKING
417 BEHAVIOR
418 FEVER
419 HEALING
420 STUDIES
421 ACID
422 GIVE
423 SECONDARY
424 LESIONS

425 CRITICAL
426 PERFORMANCE
427 POSTOPERATIVE
428 DOWN
429 PHASE
430 FOCUS
431 OPEN
432 BEST
433 DISCHARGE
434 HAIR
435 USEFUL
436 REGULAR
437 EXPOSURE
438 FEELINGS
439 INFLAMMATION
440 FORMATION
441 TOTAL
442 ASSESSED
443 SENSE
444 SIMILAR
445 WALL
446 ORDER
447 RADIATION
448 NUTRITIONAL
449 EXTERNAL
450 SAFETY
451 EQUIPMENT
452 PERIPHERAL
453 SUPPLY
454 CALCIUM
455 AMONG
456 COMPLETE
457 LEAST
458 METHOD
459 VASCULAR
460 CAUSING
461 SEEN
462 DESCRIBE
463 HEARING
464 SIZE
465 LATER
466 CIRCULATION
467 MOTOR

468 ENERGY
469 ACT
470 CORD
471 EXPECTED
472 MOVE
473 VITAL
474 DESCRIBED
475 NATURE
476 IMPROVE
477 RESPONSES
478 ABOVE
479 DIRECT
480 DISCOMFORT
481 ABNORMAL
482 RESPONSIBLE
483 CENTRAL
484 HAVING
485 KIDNEY
486 PLACED
487 AROUND
488 HIGHER
489 VOMITING
490 FOODS
491 FREQUENT
492 GLAND
493 DECISION
494 PRODUCTION
495 LACK
496 OBSTRUCTION
497 MANAGER
498 DEGREE
499 IMMUNE
500 SERIOUS
501 PLASMA
502 DEPRESSION
503 IDENTIFIED
504 VEIN
505 AGENT
506 TERMS
507 FEEL
508 CEREBRAL
509 COPING
510 INDICATED

511 KNOW
512 TUMOR
513 LONGER
514 ONCE
515 VISION
516 INTERVENTION
517 APPLIED
518 NECK
519 RED
520 LUNGS
521 MONITOR
522 CAVITY
523 PRINCIPLES
524 FORMS
525 SPECIAL
526 HYPERTENSION
527 INCIDENCE
528 NORMALLY
529 REACTION
530 REFERRED
531 SET
532 THYROID
533 EXERCISES
534 RAPID
535 FAMILIES
536 GENERALLY
537 THEORY
538 COMPLEX
539 NUTRITION
540 PHYSICIAN
541 THERAPEUTIC
542 ANTERIOR
543 STRUCTURES
544 MANIFESTATIONS
545 NOW
546 PROCESSES
547 INTERNAL
548 IMPORTANCE
549 ACCESS
550 FACTOR
551 SETTING
552 EXAMPLES
553 PERFORM

554 DEEP
555 REMOVAL
556 POWER
557 BELOW
558 MINUTES
559 NERVES
560 AIRWAY
561 FATIGUE
562 EAR
563 LIGHT
564 ADDITIONAL
565 NAUSEA
566 GOAL
567 INITIAL
568 SITUATIONS
569 POOR
570 VARIETY
571 HORMONES
572 INDICATE
573 ALWAYS
574 DISCUSSED
575 HELPS
576 REPORTED
577 STRUCTURE
578 FUNCTIONS
579 PAST
580 UNDERSTAND
581 CONSIDER
582 SECRETIONS
583 YEAR
584 MEMBRANE
585 NERVOUS
586 DRY
587 HEALTHY
588 CURRENT
589 POINT
590 SOLUTION
591 SOMETIMES
592 METABOLIC
593 TECHNIQUES
594 ACCORDING
595 ACHIEVE
596 CULTURAL

597 PRACTICES
598 STOMACH
599 ATTENTION
600 PROLONGED
601 BASIS
602 KEY
603 LIKE
604 LYMPH
605 ONSET
606 COURSE
607 KEEP
608 DRESSING
609 MANAGE
610 FACE
611 WAYS
612 STERILE
613 SPACE
614 ASSISTANCE
615 EMERGENCY
616 ASK
617 DISCUSS
618 LIFESTYLE
619 MONITORED
620 RELATIONSHIP
621 CONCERNS
622 NEGATIVE
623 SOUNDS
624 ALLOW
625 CLOSE
626 CHILD
627 TESTING
628 CLEAR
629 NATIONAL
630 OBTAINED
631 PSYCHOLOGICAL
632 SECRETION
633 SECOND
634 AWARE
635 VISUAL
636 DIETARY
637 PREGNANCY
638 SYSTEMIC
639 BOX

640 DEVICES
641 RELEASE
642 DIAGNOSES
643 REACTIONS
644 DEVELOPED
645 LIVING
646 MULTIPLE
647 BELIEFS
648 GASTROINTESTINAL
649 ILL
650 ABSENCE
651 ORGANS
652 APPEAR
653 BONES
654 GLANDS
655 POSTERIOR
656 DIFFICULTY
657 SHORT
658 WORKING
659 POTASSIUM
660 POLICY
661 SMOKING
662 FOOT
663 LEADING
664 ORGANIZATION
665 SOCIETY
666 IMMEDIATELY
667 RETURN
668 SPREAD
669 VIEW
670 GAS
671 ADULT
672 VENTRICULAR
673 JUST
674 LEARN
675 ALTERED
676 VEINS
677 REMOVE
678 CARDIOVASCULAR
679 RELIEF
680 FEAR
681 COUGH
682 FOLLOW

683 DISCUSSION
684 ENCOURAGED
685 CULTURE
686 PREPARATION
687 SUBSTANCES
688 SITES
689 DOSES
690 JOB
691 SHOWN
692 PREVIOUS
693 PROFESSIONALS
694 STROKE
695 BREATH
696 GENETIC
697 STAGES
698 DEFICIENCY
699 MANAGING
700 PROMOTION
701 PROVIDERS
702 RECOMMENDED
703 RECORD
704 UNITED
705 ARM
706 STANDARDS
707 UNITS
708 ADVERSE
709 INJURIES
710 NOTE
711 VITAMIN
712 STILL
713 TREATMENTS
714 HELPFUL
715 SOUND
716 MODEL
717 ROOM
718 RESISTANCE
719 PROMOTING
720 CHARACTERISTICS
721 DEVELOPS
722 MANAGERS
723 PATTERN
724 DIRECTLY
725 PROGRAMS

726 TECHNIQUE
727 FRACTURE
728 INSERTED
729 BETTER
730 FAT
731 FOUR
732 PREVENTING
733 TAKES
734 MEET
735 OBTAIN
736 ALONG
737 ELEVATED
738 INFLUENCE
739 REMAIN
740 ARTERIES
741 STRENGTH
742 EXTENT
743 DEPENDS
744 ROLES
745 EXPLAIN
746 PRODUCTS
747 FUTURE
748 PROGRAM
749 PURPOSE
750 SOURCE
751 CHEMOTHERAPY
752 DEVELOPING
753 IMMEDIATE
754 COMFORT
755 CONTINUOUS
756 ONES
757 SWELLING
758 ALLOWS
759 CONCENTRATION
760 YOUNG
761 HYGIENE
762 INFORMED
763 ORGANIZATIONS
764 LEG
765 RECEIVE
766 DISABILITY
767 FULL
768 SCREENING

769 APPROXIMATELY
770 BEHAVIORS
771 TUMORS
772 UNDERLYING
773 VALUE
774 SERVICE
775 PARTS
776 WEAKNESS
777 REDUCING
778 EXPERIENCES
779 MAINTAINING
780 ORGAN
781 SURE
782 ELECTROLYTE
783 SEX
784 INFLAMMATORY
785 MILD
786 VARY
787 PROVIDER
788 JOINTS
789 STIMULATION
790 FREE
791 RATIONALE
792 REDUCTION
793 CHEMICAL
794 CONTINUE
795 COUNT
796 MOBILITY
797 PROGRESS
798 THEMSELVES
799 GUIDELINES
800 POPULATION
801 DYSFUNCTION
802 ENCOURAGE
803 PERIODS
804 FUNCTIONING
805 HANDS
806 RELATIONSHIPS
807 ASPECTS
808 THOUGHT
809 MARROW
810 DEPENDING
811 FUNCTIONAL

812 REGIMEN
813 RESPOND
814 FIND
815 BILE
816 LIMITED
817 AGENCY
818 ADVANCED
819 FOLLOWUP
820 HEAT
821 APPLY
822 EVALUATE
823 MALIGNANT
824 PRODUCED
825 TOGETHER
826 TOWARD
827 NEXT
828 USES
829 RAPIDLY
830 RELIEVE
831 RECOVERY
832 MAN
833 PROTECT
834 ABUSE
835 REVIEW
836 LINE
837 KIDNEYS
838 RECEIVING
839 LEADS
840 VENTILATION
841 AIDS
842 LOCATION
843 SAFE
844 BIOPSY
845 ASSESSING
846 LABORATORY
847 WOMAN
848 MASS
849 WORLD
850 ALERT
851 AMOUNTS
852 AVOIDED
853 SETTINGS
854 VALVE

855 FREQUENCY
856 NEUROLOGIC
857 CORRECT
858 ABDOMEN
859 CONCERN
860 INTESTINAL
861 INVOLVE
862 CONSISTS
863 USUAL
864 PATTERNS
865 SOFT
866 CORONARY
867 DURATION
868 REMAINS
869 SEVERITY
870 APPEARANCE
871 BEGIN
872 TEND
873 BEGINS
874 FORMED
875 FRACTURES
876 NASAL
877 EMPLOYEES
878 GRADUALLY
879 INTRAVENOUS
880 RECENT
881 SPIRITUAL
882 DEPARTMENT
883 CONFLICT
884 DEVICE
885 IMPULSES
886 REPLACEMENT
887 RETENTION
888 INCISION
889 SELF
890 EXPERIENCED
891 IMPACT
892 INADEQUATE
893 ALTERNATIVE
894 DIE
895 COLOR
896 CONTINUED
897 LITTLE

898 CERVICAL
899 EFFECTIVENESS
900 INJECTION
901 TERM
902 MIDDLE
903 PAINFUL
904 MALE
905 INTESTINE
906 ULCERS
907 ABSORPTION
908 CONTROLLED
909 DISTRESS
910 FOLLOWED
911 MAINTENANCE
912 PARENTS
913 THINKING
914 EVENTS
915 CARRIED
916 IMAGE
917 REPORTS
918 HEADACHE
919 PHYSIOLOGIC
920 SUBSTANCE
921 INTEGRITY
922 HEPATITIS
923 QUICKLY
924 MECHANICAL
925 OUTCOME
926 WRITTEN
927 BASIC
928 CHOICE
929 MYOCARDIAL
930 DETERMINED
931 INFUSION
932 ANALYSIS
933 HOUR
934 EXCESS
935 EYES
936 MAKES
937 COLD
938 DECREASES
939 REGARDING
940 STANDARD

941 EASILY
942 FEET
943 REHABILITATION
944 RISKS
945 LAW
946 MOVEMENTS
947 MUCOUS
948 REFLEX
949 SIMPLE
950 UNABLE
951 COGNITIVE
952 MEASURE
953 VAGINAL
954 ASSESSES
955 CLOSELY
956 DELIVERY
957 PELVIC
958 MECHANISMS
959 HOSPITALS
960 IMPAIRMENT
961 TRAINING
962 CAREFULLY
963 TASK
964 WHITE
965 GREAT
966 MUCOSA
967 PRECAUTIONS
968 PRODUCES
969 LAST
970 CAPACITY
971 BACTERIA
972 COMBINATION
973 EXCHANGE
974 PITUITARY
975 ANTIBIOTICS
976 BASE
977 ESTABLISHED
978 NEEDLE
979 NODES
980 SOURCES
981 CRISIS
982 DEMONSTRATE
983 MATERIAL

984 PROPER
985 TRANSMISSION
986 COLON
987 ENDOCRINE
988 FEMALE
989 SECTION
990 ACHIEVED
991 BENEFITS
992 CANAL
993 DESIRED
994 GET
995 NATURAL
996 VIRUS
997 AGING
998 CAREFUL
999 METABOLISM
1000 OBSERVED
1001 PREOPERATIVE
1002 CLEAN
1003 FIBRES
1004 INCONTINENCE
1005 INTER
1006 REQUIREMENTS
1007 RESPECT
1008 CONTRACTION
1009 NOTED
1010 SENSATION
1011 SENSITIVE
1012 SUDDEN
1013 ASPIRATION
1014 CONCERNED
1015 DEAL
1016 WHOLE
1017 COME
1018 EFFORT
1019 PROTECTION
1020 CONTRAST
1021 INSTRUCTED
1022 LATERAL
1023 LOST
1024 ASSOCIATION
1025 BACTERIAL
1026 CHECK

1027 LENGTH
1028 PNEUMONIA
1029 PREVIOUSLY
1030 ROUTINE
1031 ULCER
1032 EATING
1033 IRON
1034 AFFECTS
1035 SHOW
1036 ANEMIA
1037 TAUGHT
1038 HIGHLY
1039 LEGAL
1040 MEMBER
1041 NIGHT
1042 APPEARS
1043 DISABILITIES
1044 MINIMIZE
1045 RULES
1046 CYCLE
1047 FEELING
1048 ACCURATE
1049 CONCEPTS
1050 GIVING
1051 WELLBEING
1052 SEIZURES
1053 SUCTION
1054 THEORIES
1055 PRIOR
1056 CHANGING
1057 ASKED
1058 HEMORRHAGE
1059 MEANING
1060 CONTAIN
1061 DEMANDS
1062 ONGOING
1063 TURN
1064 SOON
1065 REASONS
1066 ANTIBODIES
1067 INFECTED
1068 LIVE
1069 SIGN

1070 SLOWLY
1071 ANALGESIC
1072 CONTAINS
1073 PROGRESSIVE
1074 CONTRIBUTE
1075 LEADERSHIP
1076 ADRENAL
1077 ALONE
1078 EMPLOYEE
1079 INEFFECTIVE
1080 ELECTRICAL
1081 ELIMINATION
1082 SINGLE
1083 SLOW
1084 PERFUSION
1085 CIRCUMSTANCES
1086 DUCT
1087 EFFECTIVELY
1088 RAISED
1089 APPROACHES
1090 DEPENDENT
1091 IMPROVED
1092 LAYER
1093 PROSTATE
1094 NOSE
1095 PERSONNEL
1096 BREAKDOWN
1097 RELATIVELY
1098 NAME
1099 PLANS
1100 ELDERS
1101 FULLY
1102 LIVES
1103 PLEURAL
1104 STUDENTS
1105 VENTRICLE
1106 AUTHORITY
1107 CLOSED
1108 CONSEQUENCES
1109 INDICATES
1110 IRRITATION
1111 XRAY
1112 CONSTIPATION

1113 EXTREMITIES
1114 MEASURED
1115 REASON
1116 RESPONSIBILITIES
1117 SMOOTH
1118 SPEECH
1119 BENEFIT
1120 CONSENT
1121 DETECT
1122 DISTAL
1123 GAIN
1124 ORGANISMS
1125 COMPRESSION
1126 RELIGIOUS
1127 SEEK
1128 VIRAL
1129 ACCOUNT
1130 DIALYSIS
1131 INFECTIOUS
1132 INSTRUCTIONS
1133 REDUCES
1134 SKILL
1135 IMPROVEMENT
1136 MEALS
1137 TEETH
1138 ENOUGH
1139 LEGS
1140 LESION
1141 PLAY
1142 PROTEINS
1143 TOLERANCE
1144 CHARACTERIZED
1145 PUT
1146 THERAPIES
1147 ANESTHESIA
1148 AWAY
1149 CENTER
1150 FACILITATE
1151 TASKS
1152 DIFFERENCES
1153 PERCEPTION
1154 RELEVANT
1155 TUBES

1156 EXTREMITY
1157 FACT
1158 HERE
1159 ACTUAL
1160 CONTINUES
1161 FOREIGN
1162 TOUCH
1163 THORACIC
1164 CARRY
1165 WORDS
1166 AGENCIES
1167 ENVIRONMENTAL
1168 MAINTAINED
1169 NEVER
1170 PRACTICAL
1171 RATES
1172 COMPONENTS
1173 COSTS
1174 MEDICINE
1175 PLATELET
1176 RELATION
1177 ANTIBIOTIC
1178 BUM
1179 DEFINED
1180 REPEATED
1181 STOOL
1182 TENSION
1183 TONGUE
1184 ITSELF
1185 TUMOUR
1186 DIRECTED
1187 HIP
1188 LIMB
1189 SINCE
1190 STRONG
1191 ALLERGIC
1192 MOTION
1193 RECORDED
1194 ACROSS
1195 DEHYDRATION
1196 EXTENSIVE
1197 PSYCHOSOCIAL
1198 SUCCESSFUL

1199 WARM
1200 AWARENESS
1201 CHANGED
1202 MATERIALS
1203 MEMBRANES
1204 PERMANENT
1205 QUESTION
1206 FEEDING
1207 JUSTICE
1208 OEDEMA
1209 ESTABLISH
1210 RECOGNIZE
1211 WOUNDS
1212 DUTY
1213 EVENT
1214 MECHANISM
1215 RELAXATION
1216 SOLUTIONS
1217 APPLICATION
1218 CELLULAR
1219 CONTINUING
1220 COPE
1221 IDENTIFYING
1222 INSERTION
1223 PARTIAL
1224 WALLS
1225 ATRIAL
1226 COUGHING
1227 FORCE
1228 SURGEON
1229 VARIES
1230 CONTENT
1231 OVERALL
1232 PREVENTS
1233 KEPT
1234 RHYTHM
1235 DETERMINING
1236 OUTSIDE
1237 PORTION
1238 SPECIMEN
1239 SURVIVAL
1240 ADVISED
1241 ARISE

1242 COST
1243 INTERVIEW
1244 OPERATION
1245 NESS
1246 OFFER
1247 TUMOURS
1248 ADDRESS
1249 EVENTUALLY
1250 FACILITIES
1251 ATTEMPT
1252 DRESSINGS
1253 FIVE
1254 IMPLICATIONS
1255 LIST
1256 POLICIES
1257 COMPLETELY
1258 CONFUSION
1259 GLOVES
1260 LANGUAGE
1261 OPPORTUNITY
1262 RARELY
1263 WIDE
1264 DECISIONMAKING
1265 INITIALLY
1266 MOVING
1267 PARTICIPATE
1268 PREPARED
1269 RELEASED
1270 SENSITIVITY
1271 BIRTH
1272 STEPS
1273 CONSCIOUSNESS
1274 CORTICOSTEROIDS
1275 DOCTOR
1276 ENTER
1277 MEAN
1278 DIARRHEA
1279 PHYSICIANS
1280 ROUTE
1281 THINGS
1282 DISTURBANCES
1283 HEPATIC
1284 INVOLVEMENT

1285 MODERATE
1286 RECEPTORS
1287 THROMBOSIS
1288 CARBON
1289 INCLUDED
1290 LATE
1291 PRACTITIONERS
1292 SUFFICIENT
1293 UTERUS
1294 PROTECTIVE
1295 REFERS
1296 ENHANCE
1297 MATTER
1298 STOMA
1299 TEACH
1300 THINK
1301 TYPICALLY
1302 ACIDS
1303 PRIVACY
1304 SHIFT
1305 SUBSEQUENT
1306 IMPROVING
1307 BODIES
1308 FIELD
1309 OBESITY
1310 SCHOOL
1311 WEAR
1312 AID
1313 ANALGESICS
1314 RARE
1315 REACH
1316 TENDERNESS
1317 INABILITY
1318 OPENING
1319 AGAIN
1320 EFFORTS
1321 TRANSFER
1322 TRANSMITTED
1323 GUIDE
1324 REPRODUCTIVE
1325 STIMULATE
1326 ANAEMIA
1327 RISE

1328 SHOULDER
1329 ACCOUNTABILITY
1330 CLEARLY
1331 COMPARED
1332 CULTURES
1333 HYPOTENSION
1334 SYMPTOM
1335 CONSTANT
1336 CRANIAL
1337 ABILITIES
1338 ATTITUDES
1339 DIAPHRAGM
1340 FEEDBACK
1341 HOLD
1342 OBJECTIVES
1343 SUGGEST
1344 CAPILLARY
1345 INFANTS
1346 SCHEDULE
1347 WALKING
1348 ALMOST
1349 ASTHMA
1350 FACIAL
1351 LARGER
1352 SHAPE
1353 SKELETAL
1354 STIMULI
1355 SYMPATHETIC
1356 VESSEL
1357 FALLS
1358 OBSERVE
1359 CONSIDERATIONS
1360 CONTEXT
1361 DESPITE
1362 DOSAGE
1363 OBJECTS
1364 TENDS
1365 TRADITIONAL
1366 CRITERIA
1367 DYING
1368 DYSPNEA
1369 FINGERS
1370 POLITICAL

1371 SELECTED
1372 ACTS
1373 BLOCK
1374 EPISODES
1375 INNER
1376 SAMPLE
1377 TOXIC
1378 TRANSFUSION
1379 ABSORBED
1380 DEPEND
1381 INVASIVE
1382 OLD
1383 CORTEX
1384 MORPHINE
1385 SUSPECTED
1386 TONE
1387 ADVICE
1388 ATTACHED
1389 CENTERS
1390 COMBINED
1391 INDEPENDENT
1392 INTERVALS
1393 INVOLVING
1394 OCCASIONALLY
1395 POSSIBLY
1396 DELAYED
1397 INITIATED
1398 KNEE
1399 YOUNGER
1400 SITTING
1401 CANCERS
1402 MINUTE
1403 SURROUNDING
1404 WANT
1405 CIRCULATORY
1406 DESTRUCTION
1407 EVALUATED
1408 INTERFERE
1409 OPTIONS
1410 SUGGESTS
1411 COUNSELING
1412 NUTRIENTS
1413 PANCREAS

1414 SELFESTEEM
1415 UNDERGOING
1416 ARTHRITIS
1417 BEHAVIOUR
1418 CONTRACT
1419 BENIGN
1420 INTENSITY
1421 LOCATED
1422 MINIMAL
1423 NEAR
1424 PASS
1425 SLIGHTLY
1426 ABNORMALITIES
1427 ASPECT
1428 CONTAINING
1429 FALL
1430 INTEREST
1431 SCALE
1432 ADMINISTER
1433 FOCUSES
1434 INFARCTION
1435 LOBE
1436 ANALGESIA
1437 DEFICITS
1438 DIMINISHED
1439 HELPING
1440 COMFORTABLE
1441 FOLLOWS
1442 HOT
1443 SOMEONE
1444 TRY
1445 CREATE
1446 DEFICIT
1447 ENTIRE
1448 MEAL
1449 PERCEIVED
1450 TRACTION
1451 CAST
1452 EXPOSED
1453 HELD
1454 PREVENTIVE
1455 VAGINA
1456 BEHIND

1457 MORTALITY
1458 PROMPTLY
1459 SERVE
1460 SHOWS
1461 SWALLOWING
1462 TODAY
1463 WORKERS
1464 ANTIGEN
1465 DESIGNED
1466 DIAGNOSED
1467 EASE
1468 INDEPENDENCE
1469 PLACEMENT
1470 CONTENTS
1471 NODE
1472 OPIOID
1473 PRINCIPLE
1474 SALINE
1475 TOWARDS
1476 EARLIER
1477 FEARS
1478 LIMITS
1479 MAINTAINS
1480 PERMISSION
1481 REGULARLY
1482 EMPHASIS
1483 EXPECTATIONS
1484 FRIENDS
1485 LOOK
1486 MANNER
1487 MUCUS
1488 PARENTERAL
1489 STEM
1490 ANOREXIA
1491 ASPIRIN
1492 COLLECTION
1493 EVALUATING
1494 OSTEOPOROSIS
1495 SPHINCTER
1496 VERBAL
1497 WEAK
1498 EAT
1499 HALF

1500 LIFETHREATENING
1501 MAINLY
1502 PERSISTENT
1503 TEMPORARY
1504 ALTER
1505 AORTA
1506 COMPONENT
1507 DESCRIBES
1508 EVER
1509 BEYOND
1510 CONDUCT
1511 GRIEF
1512 POINTS
1513 TRANSPLANTATION
1514 URETHRA
1515 VISITS
1516 ANTI
1517 CONCEPT
1518 OUTPATIENT
1519 STANDING
1520 SUPPORTIVE
1521 TOPICAL
1522 CONSIDERABLE
1523 FAR
1524 CATHETERS
1525 DECREASING
1526 DEMONSTRATES
1527 EXAMINED
1528 FIBROUS
1529 FINANCIAL
1530 GOVERNMENT
1531 POTENTIALLY
1532 SUICIDE
1533 BECOMING
1534 DIURETICS
1535 MICROORGANISMS
1536 PERITONEAL
1537 PLATELETS
1538 RESIDUAL
1539 RESPIRATIONS
1540 STOP
1541 ACCEPT
1542 DONOR

1543 INTERACTIONS
1544 LEAVE
1545 MARKED
1546 PRIMARILY
1547 READILY
1548 ABSCESS
1549 AUTONOMY
1550 EXPRESS
1551 GENE
1552 LINES
1553 PERFORMING
1554 PUMP
1555 SUBCUTANEOUS
1556 VOLUNTARY
1557 WASTE
1558 AVERAGE
1559 CAREGIVER
1560 EDUCATIONAL
1561 EXCRETION
1562 FLEXION
1563 INCREASINGLY
1564 MEDIA
1565 PASSES
1566 RELATE
1567 THIN
1568 TREATING
1569 ACCOMPANIED
1570 ALREADY
1571 BODYS
1572 IDENTIFICATION
1573 OCCUPATIONAL
1574 OPIOIDS
1575 CLOTHING
1576 POSITIONS
1577 SOMETHING
1578 SPUTUM
1579 SUPPLIES
1580 TALK
1581 ANAL
1582 AVOIDING
1583 COUNTRIES
1584 MEMORY
1585 NECROSIS

1586 OPTIMAL
1587 REFLEXES
1588 ARMS
1589 CLASSIFIED
1590 RECORDS
1591 STAY
1592 SUPERFICIAL
1593 ACQUIRED
1594 COMMUNICATE
1595 GIVES
1596 LEADER
1597 WIDELY
1598 DIGESTIVE
1599 HOSPICE
1600 ANGER
1601 ASSUME
1602 CHOICES
1603 KIND
1604 PROMOTES
1605 TACHYCARDIA
1606 AFFECTING
1607 FINGER
1608 GRAVITY
1609 PROGNOSIS
1610 RECTAL
1611 UNKNOWN
1612 CARCINOMA
1613 CAREGIVERS
1614 INSTEAD
1615 VISIT
1616 ALTERATIONS
1617 DEVELOPMENTAL
1618 ENZYME
1619 HYPOXIA
1620 LENS
1621 MORNING
1622 PARTNER
1623 SUCCESS
1624 COVERED
1625 INTRODUCED
1626 RECEIVED
1627 UNIQUE
1628 BELIEVE

1629 DIOXIDE
1630 FRONT
1631 MINOR
1632 MUSCULAR
1633 PROVISION
1634 ORIGIN
1635 PRIVATE
1636 STIMULATES
1637 COMPLICATION
1638 DAMAGED
1639 ENZYMES
1640 PANCREATIC
1641 READING
1642 CHAIR
1643 EXTENDED
1644 GENDER
1645 LAYERS
1646 LIES
1647 REFERRAL
1648 SIMPLY
1649 VOICE
1650 ASSESSMENTS
1651 BATH
1652 GENETICS
1653 SINUS
1654 STABLE
1655 SKULL
1656 SUBJECT
1657 VIEWED
1658 WITHDRAWAL
1659 COMES
1660 DIFFER
1661 GRAFT
1662 INSUFFICIENCY
1663 ORGANIZATIONAL
1664 PROFESSION
1665 ANESTHETIC
1666 ATTACK
1667 CAPILLARIES
1668 INSTRUCTION
1669 MODELS
1670 PROGRESSION
1671 REGION

1672 ADMINISTERING
1673 COMPHCATIONS
1674 DEFINITION
1675 DEMAND
1676 DIRECTION
1677 MAXIMUM
1678 NOTES
1679 PATHOPHYSIOLOGY
1680 PLANNED
1681 REDNESS
1682 VOIDING
1683 ACCEPTABLE
1684 AORTIC
1685 FORWARD
1686 HEPARIN
1687 PREPARE
1688 SEDATION
1689 SEPSIS
1690 CLINIC
1691 DIABETIC
1692 HEARD
1693 KEEPING
1694 MANAGED
1695 OCCURRED
1696 REPAIR
1697 ACIDOSIS
1698 ALLOWING
1699 COMMUNITYBASED
1700 EXTREMELY
1701 START
1702 STEP
1703 COMPUTER
1704 INTRACRANIAL
1705 READ
1706 SUPERIOR
1707 DRAIN
1708 HABITS
1709 RECTUM
1710 RECURRENT
1711 REGISTERED
1712 THOUGH
1713 CHLORIDE
1714 ECONOMIC

1715 EXCRETED
1716 INSTANCES
1717 LUMBAR
1718 MONITORS
1719 PARTICIPATION
1720 VALVES
1721 APPLYING
1722 DOCUMENT
1723 EXPECT
1724 FORCES
1725 IMMUNITY
1726 LYING
1727 PERHAPS
1728 EXIST
1729 EXPLORE
1730 HEMOGLOBIN
1731 INHIBITORS
1732 SMALLER
1733 SUGGESTED
1734 ANTIBODY
1735 DENTAL
1736 EXCEPT
1737 INTACT
1738 INTENSIVE
1739 POSSIBILITY
1740 PRODUCING
1741 BEGINNING
1742 HARD
1743 MOLECULES
1744 OPPORTUNITIES
1745 PARALYSIS
1746 REQUIRING
1747 SHARE
1748 APPETITE
1749 ATROPHY
1750 CARTILAGE
1751 COMPETENT
1752 FIBERS
1753 HAEMORRHAGE
1754 MOIST
1755 PHARMACOLOGIC
1756 REFLECT
1757 SPLEEN

1758 TRACHEA
1759 AGES
1760 CLOTTING
1761 CURRENTLY
1762 EXPERIENCING
1763 FEATURES
1764 IMMOBILITY
1765 IMPLEMENTATION
1766 ISSUE
1767 MILK
1768 OBJECTIVE
1769 TUBING
1770 BASELINE
1771 CHOOSE
1772 DIFFICULTIES
1773 INTERMITTENT
1774 OBJECT
1775 OUTER
1776 SURFACES
1777 CODE
1778 CONDUCTED
1779 MELLITUS
1780 MET
1781 TOP
1782 CLASSIFICATION
1783 DETECTED
1784 DOCTORS
1785 MILLION
1786 POSITIONING
1787 PROBABLY
1788 RECEPTOR
1789 TARGET
1790 WARD
1791 ATTEMPTS
1792 COMPOSED
1793 COVER
1794 SAY
1795 UTERINE
1796 ABSENT
1797 BUDGET
1798 CALL
1799 ENDS
1800 ILLNESSES

1801 LARGELY
1802 NUMBERS
1803 PROMPT
1804 TERMINAL
1805 UNIVERSAL
1806 ADMITTED
1807 DEFICIENT
1808 EXTREME
1809 INJURED
1810 PORTAL
1811 ADMISSION
1812 BARRIER
1813 CONTAINER
1814 REAL
1815 RECOGNITION
1816 THROAT
1817 DESIRE
1818 PELVIS
1819 PHASES
1820 RELATIVE
1821 CHOLESTEROL
1822 CIRCULATING
1823 DELEGATION
1824 ENCOURAGES
1825 IDENTITY
1826 TECHNOLOGY
1827 ADHERENCE
1828 BUMS
1829 ELASTIC
1830 INTRODUCTION
1831 MEASUREMENT
1832 PRIORITIES
1833 ALLOWED
1834 ANGINA
1835 ANTIGENS
1836 IDENTIFIES
1837 IRREGULAR
1838 OFFERED
1839 ORDERS
1840 RUPTURE
1841 ADDED
1842 BAG
1843 BREAK

1844 CHALLENGE
1845 CHARGE
1846 DUCTS
1847 FRAMEWORK
1848 OPERATIVE
1849 PRESSURES
1850 SAID
1851 SPECIALIST
1852 ACTUALLY
1853 ALLY
1854 COMA
1855 CONSIST
1856 TASTE
1857 TRUST
1858 AUDITORY
1859 FAIL
1860 LIMIT
1861 MIND
1862 PARTNERS
1863 REGARDLESS
1864 SIGNIFICANTLY
1865 STUDENT
1866 COLLABORATIVE
1867 DYSRHYTHMIAS
1868 KINDS
1869 MENSTRUAL
1870 SECONDS
1871 STONES
1872 ACCOUNTABLE
1873 ASSISTED
1874 CHARACTERISTIC
1875 COMPLETED
1876 DEPTH
1877 DETAILED
1878 INTERESTS
1879 LIMITATIONS
1880 SCAN
1881 SCOPE
1882 THERAPIST
1883 ASSISTIVE
1884 CERVIX
1885 CONSISTENT
1886 CUFF

1887 ESOPHAGEAL
1888 LYMPHOCYTES
1889 MEETING
1890 STARTED
1891 SYNTHESIS
1892 AUTONOMIC
1893 GREATLY
1894 HEAVY
1895 HYDRATION
1896 MUSCULOSKELETAL
1897 PROGRESSES
1898 SHARED
1899 CREASED
1900 CURE
1901 INFANT
1902 INFERIOR
1903 LISTED
1904 SPINE
1905 DEMENTIA
1906 DEPENDENCE
1907 FAMILIAR
1908 ORIENTATION
1909 PORT
1910 SUSCEPTIBLE
1911 AMINO
1912 ESTIMATED
1913 IMAGING
1914 INFLUENCED
1915 OESOPHAGUS
1916 PRIORITY
1917 DEGREES
1918 INITIATE
1919 MAJORITY
1920 NASOGASTRIC
1921 OCCURRING
1922 WAVES
1923 ASSISTING
1924 BONY
1925 DELIVERED
1926 EXPRESSION
1927 RECURRENCE
1928 CONGENITAL
1929 ELECTROLYTES

| | |
|------|---------------|
| 1930 | FEEDINGS |
| 1931 | FLAT |
| 1932 | LOCALIZED |
| 1933 | VIRUSES |
| 1934 | FIT |
| 1935 | GROWING |
| 1936 | HEIGHT |
| 1937 | INSTITUTIONS |
| 1938 | ORGANISM |
| 1939 | OVARIAN |
| 1940 | PROXIMAL |
| 1941 | WELLNESS |
| 1942 | ACCUMULATION |
| 1943 | ASSISTS |
| 1944 | DOCUMENTATION |
| 1945 | EQUAL |
| 1946 | GENTLY |
| 1947 | IDEAS |
| 1948 | INTERCOURSE |
| 1949 | OBTAINING |
| 1950 | PALPATION |
| 1951 | RECEIVES |
| 1952 | TOBACCO |
| 1953 | ADVANCE |
| 1954 | ANXIOUS |
| 1955 | BURN |
| 1956 | CHEMICALS |
| 1957 | CONDUCTION |
| 1958 | FLOOR |
| 1959 | MASK |
| 1960 | ORALLY |
| 1961 | RATIONAL |
| 1962 | RESPIRATION |
| 1963 | RULE |
| 1964 | SEPARATE |
| 1965 | SKILLED |
| 1966 | TRUE |
| 1967 | ADOLESCENTS |
| 1968 | DISTURBANCE |
| 1969 | FORMAL |
| 1970 | HYPOTHALAMUS |
| 1971 | REMAINING |
| 1972 | SEIZURE |

| | |
|------|--------------|
| 1973 | SEXUALLY |
| 1974 | APPRAISAL |
| 1975 | DEALING |
| 1976 | DUODENUM |
| 1977 | FELT |
| 1978 | FUNDAMENTAL |
| 1979 | GREATEST |
| 1980 | IMPLEMENTING |
| 1981 | ISOLATION |
| 1982 | TRANS |
| 1983 | BARRIERS |
| 1984 | CHAMBER |
| 1985 | EXAMINE |
| 1986 | FEELS |
| 1987 | GUIDANCE |
| 1988 | INDICATORS |
| 1989 | INSIDE |
| 1990 | MOTHER |
| 1991 | RESTORE |
| 1992 | TURNING |
| 1993 | DUTIES |
| 1994 | EASY |
| 1995 | ENLARGED |
| 1996 | IMPLEMENT |
| 1997 | INSURANCE |
| 1998 | PRESENTED |
| 1999 | PUNCTURE |
| 2000 | TENDENCY |
| 2001 | BRANCHES |
| 2002 | BRING |
| 2003 | CONSCIOUS |
| 2004 | DISTRIBUTION |
| 2005 | ENCOURAGING |
| 2006 | ISCHEMIA |
| 2007 | MOTIVATION |
| 2008 | OPTIC |
| 2009 | PARTICIPANTS |
| 2010 | PROGRAMME |
| 2011 | VERTEBRAL |
| 2012 | WAVE |
| 2013 | ANSWER |
| 2014 | BATHING |
| 2015 | DIARRHOEA |

| | |
|------|---------------|
| 2016 | DRINK |
| 2017 | FIRM |
| 2018 | IMBALANCE |
| 2019 | JAUNDICE |
| 2020 | LIQUID |
| 2021 | NEURONES |
| 2022 | NUMEROUS |
| 2023 | PHARYNX |
| 2024 | SERIES |
| 2025 | STIMULATED |
| 2026 | THREAT |
| 2027 | TOXICITY |
| 2028 | FOCUSED |
| 2029 | MOVED |
| 2030 | OBSERVATION |
| 2031 | PENIS |
| 2032 | POSTURE |
| 2033 | PRESCRIPTION |
| 2034 | REFER |
| 2035 | SCIENTIFIC |
| 2036 | SUB |
| 2037 | TEAMS |
| 2038 | TOES |
| 2039 | DIFFERENCE |
| 2040 | HIGHEST |
| 2041 | INTERACTION |
| 2042 | LOSSES |
| 2043 | RESTRICTED |
| 2044 | SHEET |
| 2045 | STORED |
| 2046 | VULNERABLE |
| 2047 | CONTAMINATION |
| 2048 | CREATED |
| 2049 | DEFINE |
| 2050 | DEPRESSED |
| 2051 | FATTY |
| 2052 | PERFORATION |
| 2053 | RETINA |
| 2054 | SECRETED |
| 2055 | ACCEPTANCE |
| 2056 | BILIARY |
| 2057 | COLOUR |
| 2058 | COMPETENCE |

2059 LUMEN
2060 PLASTIC
2061 PRACTITIONER
2062 PSYCHIATRIC
2063 STAND
2064 TESTED
2065 CONTRAINDICATED
2066 DETAIL
2067 INJECTED
2068 INSPECT
2069 ITEMS
2070 LYMPHATIC
2071 OPERATING
2072 PULSES
2073 RECENTLY
2074 SEXUALITY
2075 TYPICAL
2076 ABORTION
2077 ADJACENT
2078 ADJUST
2079 BELIEF
2080 BELIEVED
2081 EMPTY
2082 EXPANSION
2083 MIXED
2084 PREVENTED
2085 REALITY
2086 SHORTNESS
2087 SPEAK
2088 SUPPLEMENTS
2089 ACUITY
2090 AMBULATORY
2091 COLLECTED
2092 INTERNATIONAL
2093 LINING
2094 PASSED
2095 PURPOSES
2096 REPLACED
2097 STRATEGIC
2098 TELEPHONE
2099 ULCERATION
2100 WORN
2101 WRONG

2102 CIRRHOSIS
2103 DETECTION
2104 DISCHARGED
2105 DISTENTION
2106 INDEX
2107 PASSIVE
2108 PROPERLY
2109 PROPORTION
2110 RELATIVES
2111 SATISFACTION
2112 ACTIVELY
2113 BEDSIDE
2114 FEWER
2115 GENERALIZED
2116 HOST
2117 IMPULSE
2118 SELFCONCEPT
2119 URETHRAL
2120 CHALLENGES
2121 EDGE
2122 ENABLE
2123 EXTENDS
2124 IODINE
2125 LED
2126 REPLACE
2127 SAFELY
2128 SLIGHT
2129 SPECIMENS
2130 VIEWS
2131 ATTACKS
2132 BIOLOGIC
2133 CATEGORIES
2134 CREATININE
2135 DIVIDED
2136 ETHNIC
2137 EXAM
2138 FORMING
2139 MICROBES
2140 REGIMENS
2141 RELIEVING
2142 TOLERATED
2143 VENTRICLES
2144 BURNING

2145 CONCENTRATIONS
2146 CONTAMINATED
2147 DELAY
2148 ESOPHAGUS
2149 FINALLY
2150 GETTING
2151 MEASUREMENTS
2152 NEUROLOGICAL
2153 OBVIOUS
2154 PREPARATIONS
2155 RECOGNIZED
2156 SUPPORTS
2157 VISIBLE