PART 4

APPENDICES

4.18

Appendix 1

Specimen page from Medical Subject Headings.

Specimen page from tree structure.

List of subheadings in use in 1967.

Specimen page from a "demand search bibliography".

Specimen search formulation.

Specimen "demand search request form".

SULFUR ISOTOPES (D1)

SULFURIC ACID (D1)

SUNBURN · (C14)

SUNLIGHT (G3)

XU HELIOTHERAPY (G3)

XR LIGHT (H)

SUNSTROKE (C14)

SUPERFETATION (G1)

SUPERSTITIONS (I)

SUPPOSITORIES (D13)

SUPPURATION (C1, C16)

X PUS (C1, C16)

SUPRASELLAR CYST see under CRANIOPHARYNGIOMA (C2)

SURAMIN (D3)

X NAPHURIDE (D3)

SURFACE-ACTIVE AGENTS (D13)

XU TRITONS (D13)

XU TWEENS (D13)

XU WETTING AGENTS (D13)

XR ANTI-INFECTIVE AGENTS, LOCAL (D3)

SURFACE TENSION (H)

SURGERY (E4, G2)

SURGERY, MILITARY see under MILITARY MEDICINE (G2)

SURGERY, MILITARY see under WOUNDS AND

INJURIES (C14)

SURGERY, MINOR (E4)

SURGERY, OPERATIVE (E4)

see also related

OPERATING ROOMS (G3)

POSTOPERATIVE COMPLICATIONS (C16)

SURGERY, ORAL (E4, E6, G2)

XU TUBERPLASTY (E4, E6, G2)

XU VESTIBULOPLASTY (E4, E6, G2)

SURGERY, PLASTIC (E4)

SURGERY, VETERINARY see under VETERINARY

MEDICINE (G2)

SURGICAL DIATHERMY see under

ELECTROCOAGULATION (E2)

SURGICAL EQUIPMENT (E4, E5)

SURGICAL INSTRUMENTS (E4)

SURGICAL INSURANCE see under INSURANCE,

HEALTH (I)

SURGICAL WOUND DEHISCENCE (C16)

SURGICAL WOUND INFECTION (C1, C14, C16)

SURITAL see THIAMYLAL (D6)

SURVIVAL (I)

XR MILITARY MEDICINE (G2)

SUSPENSIONS (D13)

SUSTAINED-RELEASE PREPARATIONS see DELAYED-ACTION PREPARATIONS (D13)

SUTURE TECHNICS (E4)

SUTURES (E4)

SV40 VIRUS (B4)

X SIMIAN VIRUS 40 (B4)

X VACUOLATING AGENT (B4)

SWALLOWING see DEGLUTITION (G1)

SWEAT (A12)

XU PERSPIRATION (A12)

SWEAT GLANDS (A1)

SWEATING (G1)

XU DYSHIDROSIS (G1)

XU HYPERHIDROSIS (G1)

XU PERSPIRATION (G1)

XR CYSTIC FIBROSIS (C4, C5, C16)

SWEETENING AGENTS (D13)

XU CYCLAMATE (D13)

XU SACCHARIN (D13)

SWIFT'S DISEASE see ACRODYNIA (C10)

SWIMMING (E2)

SWIMMING POOLS (G3)

SWINE (B2)

XU HOGS (B2)

SWINE DISEASES (C15)

SWINE ERYSIPELAS see under ERYSIPELOID

(C1, C15)

SYCOSIS (C1, C12)

SYMBIOSIS (G1)

SYMBIOTES (B3)

SYMBOLISM (F)

SYMPATHECTOMY (E4)

SYMPATHETIC GANGLIA see under GANGLIA,

AUTONOMIC (A8)

Part of a page from Medical Subject Headings

A9 - SENSE ORGANS

| SENSE ORGANS (NON MESH) | A9. | | |
|---------------------------|------------|------------|------------------------------------------|
| EAR | A9.22. | A1.72.26. | |
| EAR, EXTERNAL | A9.22.16. | A1.72.39. | |
| EAR CANAL | A9.22.16.1 | | |
| EAR, MIDDLE | A9.22.32. | | |
| EAR OSSICLES | A9.22.32.1 | | |
| EUSTACHIAN TUBE | A9.22.32.1 | | |
| TENSOR TYMPANI | A9.22.32.1 | A2.72.62. | |
| TYMPANIC MEMBRANE | A9.22.32.1 | | |
| LABYRINTH | A9.22.48. | | |
| COCHLEA | A9.22.48.1 | | |
| ORGAN OF CORTI | A9.22.48.1 | A8.75.32.1 | |
| SEMICIRCULAR CANALS | A9.22.48.1 | | |
| VESTIBULAR APPARATUS | A9.22.48.1 | | |
| EYE | A9.44. | A1.72.52.1 | |
| ANTERIOR CHAMBER | A9.44.4. | | |
| AQUEOUS HUMOR | A9.44.4.1 | A12.13.12. | |
| CONJUNCTIVA | A9.44.9. | | |
| CORNEA | A9.44.14. | | |
| DESCEMET'S MEMBRANE | A9.44.14.1 | | |
| EYEBROWS | A9.44.19. | A1.72.52.1 | |
| EYELASHES | A9.44.24. | A1.72.52.1 | |
| EYELIDS | A9.44.29. | A1.72.52.1 | |
| LACRIMAL APPARATUS | A9.44.34. | | · 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| LENS, CRYSTALLINE | A9.44.39. | | |
| RETINA | A9.44.44. | | |
| FUNDUS OCULI | A9.44.44.1 | | |
| MACULA LUTEA | A9.44.44.1 | | |
| RODS AND CONES | A9.44.44.1 | A8.75.32.1 | |
| SCLERA | A9.44.49. | | |
| UVEA | A9.44.54. | | |
| CHOROID | A9.44.54.1 | | |
| CILIARY BODY | A9.44.54.1 | | |
| IRIS | A9.44.54.1 | | |
| PUPIL | A9.44.54.1 | | |
| TRABECULAR MESHWORK (EYE) | A9.44.54.1 | | |
| VITREOUS BODY | A9.44.59. | | |
| NASAL MUCOSA | A9.66. | A4.60.13. | A4.60.39.1 A10.88.48. |
| TASTE BUDS | A9.88. | A3.54.42.1 | |

Specimen page from tree structure

INDEX MEDICUS SUBHEADINGS - 1967

Alphabetical Listing

```
*innervation (A)
*abnormalities (A)
*administration & dosage (D)
                                       *instrumentation (E,F,G,H)
                                       *isolation & purification (B)
*adverse effects (D,E,H)
*analysis (A,B,D)
                                       *metabolism (A,B,C,D,F)
                                       *microbiology (A,C)
*anatomy & histology (A,B)
*biosynthesis (D)
                                       *mortality (C,E,F)
*blood (C,D,F)
                                       *nursing (C,F)
*blood supply (A)
                                       *occurrence (C,F)
                                       *pathogenicity (B)
*cerebrospinal fluid (C,D,F)
                                       *pathology (A,C,F)
*chemically induced (C,F)
*classification (B,C,D,E,F,G,H,I)
                                       *pharmacodynamics (D)
*complications (C,F)
                                       *physiology (A,B,D,G)
                                       *physiopathology (A,C,F)
*congenital (C)
*cytology (A,B)
                                       *poisoning (D)
                                       *prevention & control (C,F)
*diagnosis (C,F)
*diagnostic use (D)
                                       *radiation effects (A,B,G)
                                       *radiography (A,C)
*drug effects (A,B,F,G)
                                       *radiotherapy (C,F)
*drug therapy (C,F)
                                       *rehabilitation (C,F)
*education (F,G,H,I)
                                       *surgery (A,C,F)
*embryology (A,B)
*enzymology (A,B)
                                       *therapeutic use (D,H)
                                       *therapy (C,F)
*etiology (C,F)
*familial & genetic (C,F)
                                       *toxicity (D)
                                       *transplantation (A)
*growth & development (A,B)
                                       *urine (C,D,F)
*history (C,D,E,F,G,H,I,J,K,L,M)
*immunology (B,C)
                                       *veterinary (C,E)
*injuries (A)
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B. SUBTILIS AND BACTERIOPHAGE, TRANSDUCTION, GENETICS. 6=BACTERIOPHAGE. 5=BIOCHEMICAL GENETICS, GENES, CHROMOSOMES DNA, OR RNA. 4=GENETICS OR RADIATION GENETICS.

ABEL P, TRAUTNER TA

FORMATION OF AN ANIMAL VIRUS WITHIN A BACTERIUM.

Z VERERBUNGSL 95:66-72. 10 APR 64

*BACILLUS SUBTILIS. *BACTERIOPHAGE. *DNA. BACTERIAL. *DNA. VIRAL.

EXPERIMENTAL LAB STUDY (4). GENETIC CODE (3). *VACCINIA VIRUS

APOSHIAN HV
A DTMPASE FOUND AFTER INFECTION OF BACILLUS SUBTILIS WITH PHAGE
SP5C.
BIOCHEM BIOPHYS RES COMMUN 18:230-5. 18 JAN 65
*BACILLUS SUBTILIS. *BACTERIOPHAGE. EXPERIMENTAL LAB STUDY (4).
METABOLISM, *NUCLEOTIDASES. NUCLEOTIDES. PHOSPHORUS ISOTOPES.
RADIOMETRY

BARAT M, ANAGNOSTOPOULOS C. SCHNEIDER AM
LINKAGE RELATIONSHIPS OF GENES CONTROLLING ISOLEUCINE, VALINE, AND
LEUCINE BIOSYNTHESIS IN BACILLUS SUBTILIS.

J BACT 90:357-69, AUG 65
AMINO ACID METABOLISM, AMINOHYDROLASES, ARGININE, *BACILLUS
SUBTILIS, BACTERIOPHAGE, CHROMOSOME MAPPING (3), DNA, BACTERIAL,
EXPERIMENTAL LAB STUDY (4), *GENES, HYDRO-LYASES, *ISOLEUCINE,
*LEUCINE, LYSINE, METHIONINE, MUTATION, OXIDOREDUCTASES,
PHENYLALANINE, THREONINE, ULTRAVIOLET RAYS, *VALINE

BAYREUTHER KE, ROMIG WR
POLYOMA VIRUS: PRODUCTION IN BACILLUS SUBTILIS.
SCIENCE 146:778-9, 6 NOV 64
*BACILLUS SUBTILIS, *BACTERIOPHAGE. *DNA, VIRAL, EXPERIMENTAL
LAB STUDY (4), GENETIC CODE (3), *POLYOMA VIRUS

BOTT K. STRAUSS B
THE CARRIER STATE OF BACILLUS SUBTILIS INFECTED WITH THE
TRANSDUCING BACTERIOPHAGE SP10.
VIROLOGY 25:212-25, FEB 65
*BACILLUS SUBTILIS, BACTERIOLYSIS, *BACTERIOPHAGE. CULTURE MEDIA,
*DNA, BACTERIAL, *DNA, VIRAL, EXPERIMENTAL LAB STUDY (4), IMMUNE
SERUMS. NUCLEOTIDYL TRANSFERASES. RNA, BACTERIAL, SPORES (3)

Specimen page from a "demand search bibliography"

| REQUEST NO. | DEMAND SEARCH FORMULATION RECORD |
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1/16/67

TITLE subtilis and bacteriophage or transduction. 11-14 17 18 19-31 11-14 17 18 19-31 ELEM. SYMBOL EXPL. LEVEL CATE-GORY NUMBER LEVEL ELEM. SYMBOL EXPL. ELEMENTS ELEMENTS M1Bacillus subtilis M5 Bacteriophage M6 Bacteriophage typing M10 Genetics M11Radiation genetics M12 Bacteriolysis M13 Biochemical genetics M14 Genes M15 Chromosome mapping M16 Chromosomes M17 Mutation M18 Mutagens M19 DNA, bacterial M20 RNA, bacterial M21 DNA, viral M22 RNA, viral M23 Genetic code ELEM. ELEMENTS A, J, I, N, Y, X, AND SUMMATIONS SYMBOL 11-14 33-36 37-40 41-44 45-48 49-56 11-14 33-36 37-40 41-44 45-48 49-56 M30 SUM M5 M23 M31 SUM M5 М6 M32 SUM M12M23 ELEM. REQUEST STATEMENTS SYMBOL 9-10 11-80 COLUMNS FOUND M1 * M30M31 + M32.1 M31 BATCH NO. DS MODULE COMMENTS RG MODULE COMMENTS

U. S. DEPARTMENT OF

HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
NATIONAL LIBRARY OF MEDICINE

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Appendix 2

Sample of covering letter used to transmit random sample of articles.

Copy of Notes on Form for Document Evaluation.

Form to evaluate timeliness of the MEDLARS service.

Sample of completed Revised Statement of MEDLARS Request.

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE



8600 ROCKVILLE PIKE BETHESDA, MD., 20014

NATIONAL LIBRARY OF MEDICINE

REFER TO: NLM-ISD

October 11, 1966

Richard G. Buckles Guest Scientist Naval Medical Research Institute National Naval Medical Center Bethesda, Md. 20014

Dear Mr. Buckles

Enclosed you will find a set of journal articles of possible relevance to your recent request relating to: decompression sickness.

This set is composed largely of articles retrieved in the MEDLARS search for your request. However, certain articles found by supplementary searches may also have been included. Please carefully review the articles and complete for each the attached Form for Document Evaluation. You may, of course, keep the articles themselves for your own file. Please read the brief Notes on Form for Document Evaluation before completing these forms.

When you have reviewed all of the articles delivered to you, would you please give your evaluation of the timeliness of the MEDLARS service, and, if possible, a revised statement of your request, returning these along with your completed evaluation forms.

We are indeed most grateful for your assistance in the conduct of this important study, which has as its object the improvement of our literature searching service to the biomedical community.

Sincerely,

F. Wilfrid Lancaster

Information Systems Evaluator Information Systems Division National Library of Medicine

Enclosures

Notes on Form for Document Evaluation

In <u>Item 1</u> on the <u>Form</u>, we are interested in discovering whether or not you were aware of the existence of the article before obtaining the MEDLARS search results. If you were, how did you become aware of its existence? It may be, for example, that the paper was sent to you by the author himself, that you regularly scan the journal in which it was published, that it was drawn to your attention by a colleague, or that it was found through a prior search of the literature. We would like to know what particular channel brought this document to your attention.

Item 2 asks you to grade each document, in relation to the information need that prompted your request to MEDLARS, on the scale "of major value", "of minor value", "of no value", and to indicate reasons for making these evaluations. If you were able to name a number of relevant articles prior to the MEDLARS search, please make your present assessments in line with your earlier gradings (see attached Record of Known Relevant Documents). A "major value" article in this sample should be roughly equivalent in value to a "major value" article named in advance of search. Likewise for "minor value" documents.

It is particularly important that we obtain precise reasons for your judging an article "of no value". If you discover, for example, that the article does not relate to the subject of your information need, please indicate in what way the subject matter differs from that desired. If the mode of treatment differs from that needed (e.g. clinical rather than experimental or vice versa) please so indicate. In other cases you may doubt the value or validity of the work described. Whatever your reason for determining that an article is "of no value", please record this under 2(c).

2(d) should be checked in those cases in which you are unable to make a value judgment on the article, in relation to your information need, because of lack of familiarity with the language in which it is written. In these cases, we are interested in knowing whether or not you intend to take any steps (such as consulting an English abstract or having a complete or partial translation made) to learn the contents of the article. If you do not intend to go further with this article, we should like to know why. Is it that you doubt the value of work carried out in that particular field within the country concerned? Or do you feel that you have sufficient material on your topic from other sources to make a translation of this article unnecessary? You will probably want to review the entire set of citations retrieved before answering this question.

NATIONAL LIBRARY OF MEDICINE Bethesda, Maryland

MEDLARS EVALUATION PROJECT

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| value of the se | earch? | | |
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| No | | | |
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REVISED STATEMENT OF MEDLARS REQUEST

| retrieved in response to your recent MEDLARS request. It would be very |
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| helpful in our evaluation if, having seen this sample, you would now |
| re-phrase more precisely the wording of your original request: |
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| If you do not feel that the original wording needs changing, please |
| check this box: |
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| Thank you for your continued cooperation. |
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F. Wilfrid Lancaster Information Systems Evaluator Information Systems Division National Library of Medicine

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Appendix 3

Sample of a completed "analysis worksheet" as prepared during the analysis of Search #539. Similar worksheets were prepared during the analysis of each of the 302 searches.

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SEARCH # 539

PRECISION

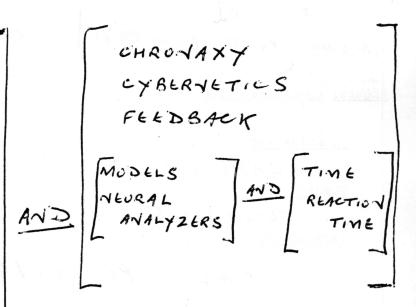
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TIME FACTORS

SEARCH REQUESTED: 3/22

FORMULATED 14 5

DS MODULE: 4/7

REFORMULATED:

DS MODULE:

RG MODULE: 4/7

DELIVERED: 4/10

VALUE: Not affected

No enderel of reformulation

REQUEST CHARACTERISTICS

ORGANIZATION

ACADEMIC

SUBJECT

TECHNICS

INTERACTION

LOCAL - POSITIVE

NLM

12

FOREIGN LANGUAGE MATERIAL

LANGUAGE RESTRICTION:

None

TOTAL SAMPLE OF 19:

6 FOREIGN

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PRECISION RATIO:

2/5

PREVIOUS AWARENESS

19

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INDEXING EXHAUSTIVITY

(recognizing IM terms only)

RECALL

PRECISION

EFFECT OF REVISION OF SEARCH FORMULATION

RECALL

PRECISION

EFFECT OF RE-RO-RC AS RANKING DEVICE

| Section 5 | Complete Search Rb only | Total Retrieved 52 +3 | $\frac{\frac{\text{Recall}}{\text{Ratio}}}{\frac{\text{R}}{\text{II}}} = 72.7 / 0$ $\frac{\text{B}}{\text{II}} = 72.7 / 0$ | Preci 11 Rat 12 = | |
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COVERAGE

Of the articles, within the time span of MEDLARS, named by the requester, were shown to be in the data base.

Missing items:

Prychonomie Scince (3 orticles):

J Speech Hear Res - 1966 issue - not indeced into base as of april 1967

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| SEARCH NO. | 539 | REQUESTER: | FA | $R \subseteq$ | 0 |

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| 539/1 | Ones ohr Nas Kerlkopfrulk | 12/63 | GER | 4 | ~ | ~ ~ |
| 539/2 | | 11/63 | CER | 4 | ~ | ~ ✓ |
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| 539/4 | Priept Motor Smills | 10/65 | | 5 | ~. | MINOR |
| 539/5 | | 8/64 | | 5 | 7 | MINOR |
| 539/6 | Mochy Ohnshalk | 7/64 | GER | 5 | * ~ | \sim $$ |
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*Indicates item of some interest in relation to some other need or project.

CAUSE

NUMBER OF MISSED RETRIEVALS AFFECTED

Indexing

Lack of specificity

Omitted important term

Computer processing

EXPLANATION

Orticle on effect of drugs on prhommel.

under delayed anditory feedback —

deals with vrbal, outhwetre and color

both — but miexed may mader the general

PSYCHOLOGICAL TESTS (non-depth jamual:

4 toms assigned).

of delayed anditory feedback indiced under HEARING and SIEECH but not under FEEDBACK (try appears in title).

fromulation exactly - should have been retired on FEEDBACK and SPEECH, Failure must be due to some assect of warme proving

REASONS FOR RETRIEVAL OF UNWANTED ITEMS

CAUSE

NUMBER OF UNWANTED RETRIEVALS AFFECTED

Index language Lock of specificaty

7

EXPLANATION

The notion of "delayed anditory feedback".

FEEDBACK and HEARING returned fine aticles on feedback mechanisms in the physiology of heming (i.e., the "acoustic reflect bredback loop")

Moreover, the term FEEDBACK was not available in 1964. Pusuably for this entire motional, the series weed the term expensive med the term expenses and the term cybernetics. CYBERNETICS and HEARING TESTS where the median in the median here is the median in the median here in the median here is the median in the median here in the median here is the median in the median here in the median here is the median in the median here in the median here is the median in the median here.

Appendix 4

Complete set of recall and precision ratios for the 302 searches.

Appendix 4

COMPLETE SET OF RECALL AND PRECISION RATIOS FOR THE 302 SEARCHES

| | | PRECIS | PRECISION RATIO | RECALL RATIO | RATIO | | DECATT DAGTO | DDEAMOUN | |
|-----|-----------|------------------------|-----------------|--------------|-------------|-------------|--------------|------------|-------------|
| | Total | | | TOI | TOTAL | Known by | Found "B | "Best Set" | Set" |
| # | Retrieved | Overall | Major Value | 0veral1 | Major Value | Requester | Manually | Overall | Major Value |
| Н. | 344 | 19/24= 79.2% 6/24= 25% | 6/24= 25% | 15/17= 88.2% | 5/7= 71.4% | As Total | | As Total | As Total |
| 2 | 11 | %6.88 =6/8 | 2/9= 22.2% | 3/4= 75% | 2/3= 66.7% | As Total | | 2/2= 100% | 1/1= 100% |
| e . | 209 | 17/22= 77.3% | 11/22= 50% | 11/12= 91.7% | %001 =6/6 | 4/4= 100% | 7/8= 87.5% | As Total | As Total |
| 4 | 32 | 18/25= 72% | 11/25= 44% | 1/4= 25% | 1/3= 33.3% | 0/1= 0* | As Total* | As Total | As Total |
| 2 | 22 | 17/19= 89.5% | 12/19= 63.2% | 2/8= 25% | 2/7= 28.6% | As Total | | As Total | As Total |
| 9 | 30 | 9/29= 31% | 5/29= 17.2% | 5/7= 71.4% | 5/6= 83.3% | 4/4= 100% | 2/4= 50% | As Total | As Total |
| 7 | 42 | 5/22= 22.7% | 2/22= 9.1% | 5/7= 71.4% | 3/4= 75% | As Total | | As Total | As Total |
| 80 | 300 | 1/18= 5.6% | 0/18= 0 | 0/15= 0 | | As Total | | As Total | |
| 6 | 860 | 17/23= 73.9% | 7/23= 30.4% | 25/25= 100% | 12/12= 100% | 20/20= 100% | 5/5= 100% | 5/5= 100% | 1/1= 100% |
| 10 | 301 | 15/24= 62.5% | 5/24= 20.8% | 3/3= 100% | 3/3= 100% | As Total | | As Total | As Total |
| | | | | | | | | | |

* The recall base component 'Known by the requester" and the component found manually need not be mutually exclusive (i.e., they may overlap). In search #4, for example, the only item known by the requester was also among the four found independently by manual search.

printout or the decision to arbitrarily set a limit on the number of citations to be printed), the former ** Where the "machine search" result (i.e., actual number of citations matching the search formulation) is different from the number of citations actually submitted to the requester (because of post-editing of figure is presented in parentheses in this column.

| | alue | a.1 | 11 | %(| 11 | | 11 | | 20% | 2% | 11 | . 1 | 5.7% | 5.7% | 11 | %(| %00 | | 11 | |
|------------------------|-----------------------|-----------|--------------|------------|--------------|---------------|-------------|------------------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|----------------|--------------|--------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Set" .Major Value | As Total | As Total | 1/2= 50% | As Total | * Dog 550 120 | As Total | 2 | 4/8= 50 | 3/4= 75% | As Total | As Total | 1/6= 16.7% | 2/3= 66.7% | As Total | 2/4= 50% | 2/2= 100% | 0 = 10/0 | As Total | |
| BREAKDOWN | "Best Overall | As Total | As Total | 1/2= 50% | As Total | As Total | As Total | As Total | 5/10= 50% | 3/5= 60% | As Total | As Total | 1/9= 11.1% | 4/5= 80% | As Total | 2/5= 40% | 2/3= 66.7% | 0/2= 0 | As Total | |
| RECALL RATIO BREAKDOWN | Found Manually | 0/1= 0 | 5/5= 100% | 1/2= 50% | | | 0/1= 0 | As Total | | 2/2= 100% | 2/4= 50% | 3/3= 100% | 0 =8/0 | 3/4= 75% | As Total | 2/4= 50% | 2/3= 66.7% | 0/2= 0 | | |
| | Knewn by Requester | 1/1= 100% | 2/2= 100% | 1/2= 50% | As Total | As Total | As Total | None Supplied As Total | As Total | 2/4= 50% | 1/1= 100% | 0/1= 0 | %/.99 =9/4 | 2/3= 66.7% | None Known in | base 0/2= 0 | 2/4= 50% | 0/3= 0 | As Total | |
| RATIO | Major Value | 1/2= 50% | 6/6= 100% | 1/3= 33.3% | 11/16= 68.7% | | 0 = 1/0 | | 6/11= 54.5% | 4/5= 80% | 1/2= 50% | 3/3= 100% | %7.47 =6/4 | 3/5= 60% | 0/1= 0 | 2/5= 40% | 3/3= 100% | 0 = 2/0 | %001 =9/9 | and the second s |
| RECALL RATIO | TOTAL Overall Ma | 1/2= 50% | 7/7= 100% | 1/3= 33.3% | 11/16= 68.7% | 0/3= 0 | 0 = 10/0 | 2/4= 50% | 8/14= 57.1% | %1'e= 66.7% | 3/5= 60% | 3/4= 75% | 4/14= 28.6% | 5/7= 71.4% | 0/1 = 0 | 2/6= 33.3% | 3/6= 50% | 0 -8/0 | 6/7= 85.7% | a mande grown and digital designable foliables of |
| PRECISION RATIO | Major Value | 0/26= 0 | 6/21= 28.6% | 3/12= 25% | 5/25= 20% | 7/29= 24.1% | 2/11= 18.2% | 3/28= 10.7% | 3/21= 14.3% | 2/22= 9.1% | 0/17= 0 | 4/22= 18.2% | 10/25= 40% | 9/19= 47.4% | 1/17= 5.9% | 8/29= 27.6% | 16/24= 66.7% | 1/27= 3.7% | 6/18= 33.3% | |
| PRECISI | Overall | 0/26= 0 | 14/21= 66.7% | 6/12= 50% | 17/25= 68% | 12/29= 41.4% | 7/11= 63.6% | 5/28= 17.9% | 8/21= 38.1% | 4/22= 18.2% | 4/17= 23.5% | 7/22= 31.8% | 17/25= 68% | 16/19= 84.2% | 4/17= 23.5% | 21/29= 72.4% | 20/24= 83.3% | 13/27= 48.1% | 13/18= 72.2% | |
| | Retrieved | 1167 | 70 | 17 | 198 | 216 | 43 | 40 | 357 | 500 | 585 | 61 | 62 | 21 | 57 | 36 | 37 | 285 | 53 | |
| | # | 11 | 13 | 14 | 16 | 17 | 18 | 19 | 20 | 22 | 24 | 25 | 27 | 53 | 30 | 32 | 33 | 34 | 36 | |

| | | PRECISI | PRECISION RATIO | RECALL RATIO | RATIO | | RECALL RATIO | BREAKDOWN | |
|-----|--------------------|--------------|-----------------|--------------|-------------|-----------------------|--------------|-----------|---------------------|
| # | Total Retrieved | Overall | Major Value | Overall Ma | Major Value | Known by Requester | | Overal1 | Set" Major Value |
| 30 | 7.00 | 72/20/21 | 220 | | | | | | TIG OF VALUE |
| 8 | 764 | 13/20= 65% | 7/20= 35% | 2/4= 50% | 2/2= 100% | None Supplied | As Total | As Total | As Total |
| 39 | 42 | 15/27= 55.6% | 3/27= 11.1% | 2/4= 50% | 1/1= 100% | 1/1= 100% | 1/3= 33.3% | As Total | As Total |
| 40 | 22 | 5/17= 29.4% | 2/17= 11.8% | 1/6= 16.7% | 1/6= 16.7% | 0/3= 0 | 1/4= 25% | 1/5= 20% | 1/5= 20% |
| 42 | 92 | 15/25= 60% | 5/25= 20% | 6/7= 85.7% | %08 =5/4 | 1/1= 100% | 5/6= 83.3% | As Total | As Total |
| 43 | 173 | 14/21= 66.7% | 8/21= 38.1% | 2/4= 50% | 2/4= 50% | 2/3= 66.7% | 0/1= 0 | As Total | As Total |
| 777 | 9 | 4/4= 100% | 0 /4= 0 | 0 =6/0 | 0 = 4/0 | 0 = 2/0 | 0/3= 0 | 0/3= 0 | 0/1= 0 |
| 45 | 533 | 3/17= 17.6% | 1/17= 5.9% | 5/6= 83.3% | 5/6= 83.3% | 4/4= 100% | 1/2= 50% | As Total | As Total |
| 95 | 339 | 2/10= 20% | 0/10= 0 | 0/2= 0 | 0/2= 0 | 0/1= 0 | 0/1= 0 | As Total | As Total |
| 47 | 62 | 4/29= 13.8% | 4/29= 13.8% | 7.99 =9/5 | %/.99 =9/4 | 1/1= 100% | 3/5= 60% | As Total | As Total |
| 48 | 139 | 17/24= 70.8% | 3/24= 12.5% | 5/13= 38.5% | 2/5= 40% | 0 =9/0 | 5/7= 71.4% | As Total | As Total |
| 64 | 2 | 0/2= 0 | 0/2= 0 | 0/1= 0 | | 0/1= 0 | | As Total | |
| 51 | 25 | 7/13= 53.8% | 3/13= 23.1% | 0/2= 0 | | None Known in | As Total | As Total | , |
| 52 | 5 | 3/5= 60% | 1/5= 20% | 2/2= 100% | 1/1= 100% | Base 1/1= 100% | 1/1= 100% | As Total | As Total |
| 53 | 797 | 10/27= 37% | 1/27= 3.7% | 5/5= 100% | | None Supplied | As Total | As Total | |
| 55 | 235 | 14/25= 56% | 3/25= 12% | 4/4= 100% | 1/1= 100% | 1/1= 100% | 3/3= 100% | As Total | As Total |
| 56 | 0 | 0/0= 100% | 0/0= 100% | 0/0= 100% | 0/0= 100% | None Known | None Found | As Total | As Total |
| 57 | 45 | 17/26= 65.4% | 6/26= 23.1% | 4/7= 57.1% | 4/7= 57.1% | 2/3= 66.7% | %/.99 =9/7 | As Total | As Total |
| | | | | | | | | | |

| | Set" Major Value | As Total | As Total | As Total | As Total | As Total | As Total | As Total | As Total | As Total | 1/1= 100% | As Total | As Total | As Total | 0/1= 0 | %/.99 =9/5 | 3/3= 100% | As Total | As Total | |
|-----------------|-----------------------|---------------|--------------------|-------------|---------------|------------------|-----------------------------------------------------|-------------|------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------|--------------|--------------|---------------|--|
| BREAKDOWN | "Best Overall | As Total | As Total | As Total | As Total | As Total | As Total | As Total | As Total | As Total | 1/2= 50% | As Total | As Total | As Total | 2/6= 33.3% | 7/9= 77.8% | %52 =8/9 | As Total | As Total | |
| RECALL RATIO | Found Manually | As Total | 6/7= 85.7% | | As Total | As Total | 81 879 1 979 2 979 2 979 2 979 2 979 | 2/2= 100% | 1/1= 100% | 5/8= 62.5% | 1/2= 50% | 7/8= 87.5% | 8/8= 100% | 3/4= 75% | | 1/9= 77.8% | 3/4= 75% | 1/1= 100% | As Total | |
| | Known by Requester | None Known in | Base 6/9= 66.7% | As Total | None Supplied | None Supplied As | As Total | 3/4= 75% | 1/1= 100% | 1/2= 50% | 0/1 = 0 | 5/6= 83.3% | 1/1= 100% | 3/3=100% | As Total | 3/6= 50% | 7/15= 46.7% | 2/5= 40% | None Supplied | |
| RATIO | Major Value | 1/2= 50% | 9/12= 75% | 4/8= 50% | 1/1= 100% | 3/5= 60% | 7/9= 77.8% | 3/3= 100% | 2/2= 100% | 2/3= 66.7% | 1/2= 50% | 10/12= 83.3% | 2/2= 100% | 3/4= 75% | 0/2= 0 | 7/8= 50% | 5/11= 45.5% | 2/4= 50% | 1/3= 33.3% | |
| RECALL RATIO | 0veral1 | 2/5= 40% | 12/15= 80% | 4/8= 50% | 1/1= 100% | 3/5= 60% | 10/13= 76.9% | 5/6= 83.3% | 2/2= 100% | %2'99 = 6/9 | 1/3= 33.3% | 12/14= 85.7% | 9/9= 100% | 6/7= 85.7% | 2/8= 25% | 10/15= 66.7% | 10/19= 52.6% | 3/6= 50% | 1/4= 25% | |
| PRECISION RATIO | Major Value | 11/22= 50% | 5/27= 18.5% | 3/19= 15.8% | 10/20= 50% | 10/24= 41.7% | 4/27= 14.8% | 1/28= 3.6% | 2/9= 22.2% | 4/28= 14.3% | 5/23= 21.7% | 3/8= 37.5% | 9/29= 31% | 8/19= 42.1% | 0/23= 0 | 4/25= 16% | 6/21= 28.6% | 5/17= 29.4% | 7/25= 28% | |
| PRECIS | Overall | 16/22= 72.7% | 12/27= 44.4% | 7/19= 36.8% | 17/20= 85% | 13/24= 54.2% | 14/27= 51.9% | 5/28= 17.9% | 2/9= 22.2% | 12/28= 42.9% | 11/23= 47.8% | 4/8= 50% | 17/29= 58.6% | 8/19= 42.1% | 8/23= 34.8% | 11/25= 44% | 10/21= 47.6% | 11/17= 64.7% | 13/25= 52% | |
| F 0 + 0 F | Retrieved | 256 | 286 | 213 | 22 | 240 | 156 | 224 | 11 | 29 | 68 | 283 | 264 | 140 | 104 | 294 | 529 | 17 | 115 | |
| | # | 59 | 09 | 19 | 62 | 63 | 79 | 65 | 67 | 89 | 20 | 71 | 72 | 73 | 9/ | 77 | 78 | 42 | 80 | |

| 1 | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------------------------|---------------|--------------|------------------------|------------------------|--------------|------------------------|------------------|-----------|------------------------|--------------|-------------|-----------------------------|--------------|--------------|--------------------------|-------------|-------------|-------------|-------------|-------|
| | 1 | , Major Value | 5/5= 100% | | As Total | 4/4= 100% | | 2/4= 50% | As Total | As Total | As Total | 0/1= 0 | As Total | As Total | As Total | As Total | As Total | As Total | As Total | | - |
| | 4 | Overal1 | 6/6= 100% | As Total | As Total | 4/4= 100% | As Total | 5/10= 50% | As Total | As Total | As Total | 0/3= 0 | As Total | As Total | As Total | As Total | As Total | As Total | As Total | As Total | |
| 010000 | KECALL RATIO BREAKDOWN | Manually | 9/6= 100% | As Total | As Total | 4/4= 100% | As Total | 5/8= 62.5% | | As Total | 5/5= 100% | 0/3= 0 | | | 3/4= 75% | 5/8= 62.5% | | 7/2= 80% | 2/3= 66.7% | As Total | |
| | Known by | Requester | 9/16= 56.2% | None Supplied As Total | None Supplied As Total | 1/1= 100% | None Known in As Total | Base 2/5= 40% | As Total | None Supplied As Total | 1/3= 33.3% | 1/1= 100% | As Total | As Total | 1/1= 100% | 4/10= 40% | As Total | 2/6= 33.3% | 1/1= 100% | None Known | |
| RATTO | TOTAL | Major Value | 12/19= 63.2% | | 1/1= 100% | 5/5= 100% | | 7/8= 50% | 0/1= 0 | 2/3= 66.7% | 5/5= 100% | 0/1= 0 | %/.99 =9/4 | 2/5= 40% | 2/3= 66.7% | %/.99 =9/ 1 / | 1/4= 25% | 2/6= 33.3% | 2/2= 100% | | |
| RECALT. RATIO | TOT | Overall | 13/20= 65% | 0/1= 0 | 1/1= 100% | 5/5= 100% | 2/4= 50% | 7/12= 58.3% | 0 = 10/0 | 2/4= 50% | %52 =8/9 | 1/4= 25% | <i>4/</i> 9= 66. <i>7</i> % | 2/5= 40% | 7/2= 80% | 9/18= 50% | 3/11= 27.3% | 6/11= 54.5% | 2/3= 66.7% | 1/1= 100% | |
| PRECISION RATIO | | Major Value | 5/27= 18.5% | 1/15= 6.7% | 2/22= 9.1% | 13/24= 54.2% | 0/27= 0 | 7/23= 30.4% | 3/6= 50% | 3/14= 21.4% | 9/23= 39.1% | 4/27= 14.8% | 5/13= 38.5% | 10/18= 55.6% | 2/17= 11.8% | 4/22= 18.2% | 0/28= 0 | 1/25= 4% | 1/23= 4.3% | 1/15= 6.7% | |
| PRECISI | | Overall | 10/27= 37% | 1/15= 6.7% | 5/22= 22.7% | 21/24= 87.5% | 6/27= 22.2% | 17/23= 73.9% | %001 =9/9 | 5/14= 35.7% | 10/23= 43.5% | 7/27= 25.9% | 8/13= 61.5% | 13/18= 72.2% | 11/17= 64.7% | 10/22= 45.5% | 1/28= 3.6% | 2/25= 8% | 6/23= 26.1% | 2/15= 13.3% | |
| | Total | Retrieved | 315 | 23 | 437 | 38 | 777 | 500 | 9 | 17 | 95 | 65 | 19 | 875 | 171 | 223 | 657 | 66 | 87 | 16 | for a |
| | | # | 82 | 83 | 84 | 06 | 91 | 92 | 93 | 96 | 95 | 96 | 97 | 86 | 66 | 100 | 101 | 102 | 103 | 104 | |

| | lue | | | | | ×° | | | | ~0 | | | | | | | ~0 | | | |
|------------------------|-------------------------------|------------|---------------|---------------|------------------|--------------|--------------|------------|---------------|------------|---------------|------------------|---------------|--------------|-------------------|--------------|-------------------------|--------------|---------------|--|
| | Set" Major Value | As Total | As Total | | As Total | 4/4= 100% | | 20°03 | As Total | 4/4= 100% | As Total | As Total | As Total | As Total | As Total | 0 = 1/0 | 3/3= 100% | As Total | As Total | |
| BREAKDOWN | est | As Total | As Total | As Total | As Total | 11/12= 91.7% | 2/3= 66.7% | As Total | As Total | 5/5= 100% | As Total | As Total | As Total | As Total | As Total | 1/8= 12.5% | 5/5= 100% | As Total | As Total | |
| PECALL RATIO BREAKDOWN | Found | As Total | As Total | As Total | As Total | 5/5= 100% | 2/3= 66.7% | As Total | As Total | 2/5= 100% | As Total | | s Total | \$/5= 100% | 6/6= 100 % | 0 =9/0 | 4 /4= 100% | 1/3= 33.3% | As Total | |
| | Known by Requeste r | None Known | None Supplied | None Supplied | None Supplied | 15/16= 93.7% | 3/5= 60% | None Known | None Supplied | 3/4= 75% | None Known in | Base As Total | None Supplied | 14/22= 63.6% | 1/1= 100% | 2/4= 50% | 3/3= 100% | 2/4= 50% | None Supplied | |
| RATIO | TOTAL Major Value | 0/2= 0 | 7/2= 80% | | 4/4= 100% | 7/7= 100% | 01= 0 | | 0/2= 0 | 7/8= 87.5% | 8/3= 100% | 2/4= 50% | 2/2= 100% | 16/20= 80% | \$/5= 100% | 0 = 4/0 | #/ / 4= 100% | 2/3= 66.7% | 2/3= 66.7% | |
| RECALL RATIO | <u>TO</u> 0veral1 | 0/2= 0 | 4/e= 66.7% | 1/1= 100% | 5/5= 100% | 17/18= 94.4% | 4/7= 57.1% | 1/2= 50% | 0 +4/0 | %6°88 =6/8 | 3/5= 60% | 2/4= 50% | 2/3= 66.7% | 19/27= 70.4% | 6/6= 100% | 2/9= 22.2% | 9/6= 100% | 3/7= 42.9% | 2/4= 50% | |
| PRECISION RATIO | Major Value | 0/10= 0 | 9/22= 40.9% | 0/13= 0 | 10/22= 45.5% | 5/17= 29.4% | 6/26= 23.1% | 0/25= 0 | 0 =0/0 | 12/25= 48% | 5/22= 22.7% | 4/26= 15.4% | 1/23= 4.3% | 3/29= 10.3% | 11/22= 50% | 4/23= 17.4% | 2/25= 8% | 13/24= 54.2% | 2/23= 8.7% | |
| PRECIS | Overall | 0/10= 0 | 14/22= 63.6% | 5/13= 38.5% | 17/22= · 77 • 3% | 13/17= 76.5% | 17/26= 65.4% | 6/25= 24% | 0 =0/0 | 22/25= 88% | 11/22= 50% | 5/26= 19.2% | 16/23= 69.6% | 11/29= 37.9% | 22/22= 100% | 12/23= 52.2% | 8/25= 32% | 19/24= 79.2% | 5/23= 21.7% | |
| | Total Retrieved | 12 | 260 | 15 | 471 | 245 | 28 | 63 | 0 | 505 | 404 | 500 | 340 | 313 | 70 | 33 | 378 | 53 | 125 | |
| | # | 105 | 106 | 107 | 108 | 110 | 113 | 114 | 115 | 116 | 117 | 118 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | |

| | | PRECIS | PRECISION RATIO | RECALL RATIO | RATIO | | RECALL RATIO | BREAKDOWN | |
|-----|-----------|--------------|-----------------|----------------|-------------|------------------------|--------------|------------|-------------|
| \$ | Total | | | TOTAL | LAL | Known by | Found | "Best | Set" |
| # | Kerrleved | Overall | Major Value | Overall | Major Value | Requester | Manually | Overall | Major Value |
| 128 | 13 | 10/12= 83.3% | 6/12= 50% | 1/6= 16.7% | 1/5= 20% | As Total | | As Total | As Total |
| 132 | 103 | 8/14= 57.1% | 6/14= 42.9% | 1/3= 33.3% | 1/2= 50% | None Supplied | As Total | As Total | As Total |
| 133 | 285 | 3/22= ·13.6% | 1/22= 4.5% | 3/6= 50% | 3/3= 100% | 2/2= 100% | 2/5= 40% | As Total | As Total |
| 134 | 24 | 18/18= 100% | 9/18= 50% | 4/7= 57.1% | %/.99 =9/7 | 2/3= 66.7% | 2/4= 50% | As Total | As Total |
| 136 | 500 | 4/17= 23.5% | 1/17= 5.9% | 2/3= 66.7% | 2/2= 100% | 1/2= 50% | 2/2= 100% | As Total | As Total |
| 137 | 173 | 12/13= 92.3% | 0/13= 0 | 7/2= 80% | 1/1= 100% | None Supplied As Total | As Total | As Total | As Total |
| 147 | 19 | 8/16= 50% | 2/16= 12.5% | 1/4= 25% | | None Known in As Total | As Total | As Total | |
| 148 | 500 | 4/27= 14.8% | 0/27= 0 | 7/2= 80% | 1/1= 100% | Base 1/1= 100% | 3/4= 75% | 3/4= 75% | |
| 149 | 62 | 8/25= 32% | 4/25= 16% | %001 =6/6 | 8/8= 100% | %001 =9/9 | 8/8= 100% | As Total | As Total |
| 151 | 17 | 5/11= 45.5% | 1/11= 9.1% | No Recall Base | 1 Base | None Known | None Found | e seederde | |
| 152 | 103 | 12/17= 70.6% | 7/17= 41.2% | 3/11= 27.3% | 3/11= 27.3% | 1/2= 50% | 2/9= 22.2% | 2/9= 22.2% | 2/9= 22.2% |
| 153 | 539 | 11/23= 47.8% | 0/23= 0 | 10/14= 71.4% | 9/11= 81.8% | 8/10= 80% | 3/5= 60% | 3/5= 60% | 3/4= 75% |
| 155 | 250 | 13/23= 56.5% | 6/23= 26.1% | 6/12= 50% | 3/7= 42.9% | 3/7= 42.9% | %/.99 =9/4 | %/.99 =9/5 | 2/4= 50% |
| 157 | 53 | 4/18= 22.2% | 1/18= 5.6% | 1/2= 50% | 1/1= 100% | 1/1= 100% | 0/1= 0 | 0/1= 0 | |
| 158 | 6 | 9/9= 100% | %8*2/2 =6/2 | 1/2= 50% | 1/2= 50% | None Supplied | As Total | As Total | As Total |
| 159 | 31 | 22/29= 75.9% | 9/29= 31% | 2/3= 66.7% | 1/1= 100% | None Supplied | As Total | As Total | As Total |
| 160 | 9 | 5/6= 83.3% | %/99 =9/7 | 1/9= 11.1% | 1/6= 16.7% | None Supplied As | As Total | As Total | As Total |
| | | | | | | | 990m | | |

| | Set" Major Value | 0 + 7/0 | As Total | As Total | As Total | As Total | 8/9= 88.9% | As Total | As Total | 1/1= 100% | As Total | As Total | As Total | As Total | As Total | 2/4= 50% | As Total | 1/2= 50% | As Total | |
|------------------------|-----------------------|-------------|--------------|--------------|------------------------|---------------|--------------|------------------------|------------------|-------------|------------|---------------|---------------|------------|-------------|-------------|------------------------|------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BREAKDOWN | est | 0 =9/0 | As Total | As Total | As Total | As Total | 8/9= 88.9% | As Total | As Total | 1/4= 25% | As Total | As Total | As Total | As Total | As Total | 2/4= 50% | As Total | 2/3= 66.7% | As Total | |
| RECALL RATIO BREAKDOWN | Found Manually | 0/2= 0 | | 0 =9/0 | As Total | None Found | 8/9= 88.9% | As Total | As Total | 1/4= 25% | As Total | As Total | As Total | 7/7= 100% | 1/1= 100% | 2/4= 50% | As Total | 2/3= 66.7% | 1/4= 25% | |
| | Known by Requester | 2/5= 40% | As Total | 0/2= 0 | None Supplied As Total | None Known in | Base $0/5=0$ | None Supplied As Total | None Supplied As | 2/7= 28.6% | None Known | None Supplied | None Supplied | 1/1= 100% | 1/1= 100% | 2/2= 100% | None Known in As Total | Base 2/4= 50% | 0/3= 0 | |
| RATIO | TOTAL Major Value | 1/5= 20% | 17/17= 100% | 0/2= 0 | 0/2= 0 | 0/0= 100% | 8/9= 88.9% | 0/2= 0 | 1/1= 100% | 1/1= 100% | 2/2= 100% | 1/1= 100% | 1/5= 20% | 3/3= 100% | 2/2= 100% | 3/5= 60% | 2/2= 100% | 1/2= 50% | 1/2= 50% | |
| RECALL RATIO | 0verall | 2/10= 20% | 17/17= 100% | 0 8 0 | 0/2= 0 | 0/0= 100% | 8/14= 57.1% | 0/3= 0 | 2/3= 66.7% | 3/11= 27.3% | 2/2= 100% | 1/1= 100% | 1/5= 20% | 8/8= 100% | 2/2= 100% | 3/5= 60% | 2/3= 66.7% | 3/6= 50% | 1/7= 14.3% | |
| PRECISION RATIO | Major Value | 5/12= 41.7% | 22/27= 81.5% | 1/12= 8.3% | %7.44 =6/4 | 0/1= 0 | 29/33= 87.9% | 1/5= 20% | 0/15= 0 | 2/20= 10% | 6/12= 50% | 0/12= 0 | 2/23= 8.7% | 2/25= 8% | 3/11= 27.3% | 3/23= 13% | 7/23= 30.4% | 9/24= 37.5% | 0/16= 0 | The state of the s |
| PRECISI | Overall | 7/12= 58.3% | 26/27= 96.3% | 5/12= .41,7% | 7/9= 77.8% | 0/1= 0 | 33/33=. 100% | 3/5= 60% | 8/15= 53.3% | 10/20= 50% | 9/12= 75% | 2/12- 16.7% | 3/23= 13% | 10/25= 40% | 5/11= 45.5% | 4/23= 17.4% | 9/23= 39.1% | 16/24= 66.7% | 2/16= 12.5% | |
| - 40 E | Retrieved | 14 | 206 | 17 | 13 | 1 | 33 | 9 | 96 | 103 | 17 | 123 | 50 | 375 | 1.1 | 34 | 42 | 27 | 250 (927) | |
| | # | 162 | 163 | 165 | 166 | 169 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 179 | 180 | 181 | 182 | 183 | 185 | |

| | Total | PRECIS | PRECISION RVCTO | RECALL RATIO | TOTAL | 7 | RECALL RATTO BREAKDOWN | | | |
|-----|-----------|-----------------|-----------------|--------------|-------------|--------------------------------|------------------------|-------------|---------------------|-----|
| # | Retrieved | Overall | Major Value | Overall | Major Value | Requester | round Manually | est | Set" Major Value | |
| 187 | 157 | 13/17= 76.5% | 9/17= 52.9% | 3/3= 100% | 3/3= 100% | 1/1= 100% | 2/2= 100% | As Total | As Total | |
| 188 | 6 | 9/9= 100% | 9/9= 100% | 3/8= 37.5% | 3/7= 42.9% | None Known in As Total | As Total | As Total | As Total | |
| 189 | 116 | 31/31= 100% | 28/31= 90.3% | %001 =9/9 | 5/5= 100% | Base None Supplied As Total | As Total | As Total | As Total | |
| 190 | 388 | 7/19= · 36 . 8% | 2/19= 10.5% | 6/7= 85.7% | 6/7= 85.7% | 2/2= 100% | 7/2= 80% | As Total | As Total | , * |
| 191 | 63 | 11/18= 61.1% | 3/18= 16.7% | 3/17= 17.6% | 2/12= 16.7% | 3/7= 42.9% | 2/12= 16.7% | 2/14= 14.3% | 1/10= 10% | |
| 192 | 2 | 0/2= 0 | 0/2= 0 | 0/0= 100% | 0/0= 100% | None Known | None Found | As Total | As Total | |
| 194 | 76 | 12/20= 60% | 2/20= 10% | 5/5= 100% | 4/4= 100% | None Known in As Total | As Total | As Total | As Total | |
| 195 | 112 | 14/18= 77.8% | 4/18= 22.2% | 3/6= 50% | 3/6= 50% | Base 1/1= 100% | 2/5= 40% | As Total | As Total | |
| 197 | 87 | 8/22= 36.4% | 2/22= 9.1% | 1/1= 100% | 1/1= 100% | None Supplied As Total | As Total | As Total | As Total | |
| 198 | 142 | 15/17= 88.2% | 7/17= 41.2% | 7/8= 87.5% | 5/6= 83.3% | None Known in As Total | As Total | As Total | As Total | |
| 199 | 822 | 21/21= 100% | 10/21= 47.6% | 2/9= 55.6% | 4/8= 50% | base 0/2= 0 | 5/7= 71.4% | As Total | As Total | |
| 200 | 96 | 10/21= 47.6% | 8/21= 38.1% | 7/8= 87.5% | %001 =9/9 | 3/3= 100% | 6/7= 85.7% | As Total | As Total | |
| 201 | 500 | 3/27= 11.1% | 0/27= 0 | 1/6= 16.7% | 1/5= 20% | 0/1= 0 | 1/5= 20% | As Total | As Total | |
| 202 | 33 | 7/21= 33.3% | 2/21= 9.5% | 1/4= 25% | 0/1= 0 | 0/1= 100% | 1/3= 33.3% | As Total | As Total | |
| 203 | 38 | 1/11= 9.1% | 0/11= 0 | 0/3= 0 | 0/3= 0 | 0/1= 0 | 0/2= 0 | As Total | As Total | |
| 206 | 259 | 20/22= 90.9% | 15/22= 68.2% | 5/8= 62.5% | 4/7= 57.1% | 0/3= 0 | 5/5= 100% | As Total | As Total | |
| 207 | 200 | 13/29= 44.8% | 3/29= 10.3% | 8/8= 100% | 8/8= 100% | 2/2= 100% | 6/6= 100% | As Total | As Total | |
| 208 | 39 | 27/32= 84.4% | 9/32= 28.1% | 7/7= 100% | 3/3= 100% | 4/4= 100% | e/6= 100% | 6/6= 100% | 3/3= 100% | |
| | | | | | | | | | | |

| | Set" Major Value | As Total | As Total | As Total | 2/2= 100% | As Total | %001 =9/9 | As Total | - | As Total | As Total | As Total | As Total | As Total | As Total | As Total | As Total | As Total | As Total | | |
|------------------------|-----------------------|--------------|------------------------|------------|----------------|----------|--------------|--------------|-------------|-------------|-------------|--------------------|--------------|--------------|--------------|---------------|--------------|--------------|-------------|-----------|--|
| BREAKDOWN | est | As Total | As Total | As Total | 5/5= 100% | As Total | 9/10= 90% | As Total | As Total | As Total | As Total | As Total | As Total | As Total | As Total | As Total | As Total | As Total | As Total | | |
| RECALL RATIO BREAKDOWN | Found | 7/7= 100% | As Total | None Found | 4/4= 100% | | 5/6= 83.3% | | As Total | As Total | in As Total | As Total | | 3/6= 50% | As Total | As Total | 2/5= 40% | 1/4= 25% | 1/4= 25% | | |
| | Known by Requester | 1/1= 100% | Nome Supplied As Total | As Total | 9/9= 100% | As Total | 5/5= 100% | As Total | None Known | None Known | OWIL | base None Known | As Total | 1/2= 50% | None Known | None Supplied | 1/5= 20% | 1/1= 100% | 0/1= 0 | | |
| RATIO | TOTAL Major Value | 4/4= 100% | 1/2= 50% | 1/1= 100% | 7/7= 100% | 0/2= 0 | 7/7= 100% | 5/6= 83.3% | | 1/2= 50% | 1/1= 100% | 1/2= 50% | %52 =8/9 | 3/5= 60% | 3/3= 100% | 1/2= 50% | 3/8= 37.5% | 1/4= 25% | 1/3= 33.3% | | |
| RECALL RATIO | 0veral1 | 7/7= 100% | 1/2= 50% | 1/1= 100% | 11/11= 100% | 0/2= 0 | 10/11= 90.9% | 5/6= 83.3% | 1/1= 100% | 1/2= 50% | 1/2= 50% | 1/2= 50% | %52 =8/9 | 4/8= 50% | 4/7= 57.1% | 1/5= 20% | 3/10= 30% | 1/4= 25% | 1/4= 25% | 1 3, , th | |
| PRECISION RATIO | Major Value | 12/24= 50% | 2/7= 28.6% | 0/27= 0 | 2/12= 16.7% | 0/1= 0 | 1/26= 3.8% | 5/24= 20.8% | 1/28= 3.6% | 2/16= 12.5% | 2/7= 28.6% | 2/27= 7.4% | 9/22= 40.9% | 10/28= 35.7% | 10/24= 41.7% | 16/26= 61.5% | 17/18= 94.4% | 5/29= 17.2% | 4/17= 23.5% | | |
| PRECISI | Overall | 21/24= 87.5% | 3/7= 42.9% | 1/27= 3.7% | 4/12= ·33 • 3% | 0/1= 0 | 5/26= 19.2% | 14/24= 58.3% | 6/28= 21.4% | 2/16= 12.5% | 4/7= 57.1% | 3/27= 11.1% | 14/22= 63.6% | 21/28= 75% | 19/24= 79.2% | 23/26= 88.5% | 18/18= 100% | 10/29= 34.5% | 7/17= 41.2% | | |
| | Total Retrieved | 88 | 8 (302) | 125 | 278 | П, | 273 | 174 | 777 | 20 | 104 | 191 | 500 | 06 | 174 | 127 | 53 | 61 | 23 | | |
| | # | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 220 | 221 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | | |

| | | PRECIS | PRECISION RATIO | RECALL RATIO | RATIO | | RECALL RATIO BREAKDOWN | BREAKDOWN | |
|-----|--------------------|--------------|-----------------|------------------------|----------------------|-------------------------|------------------------|-------------|-------------|
| # | Total Retrieved | Overall | Major Value | Overall | TOTAL Major Value | Known by Requester | Sound Manual 1 w | est | |
| | | | | 12. | | Tal and a second | Mailually | Overall | Major Value |
| 232 | 447 | 16/29= 55.2% | 9/29= 31% | 6/15= 40% | %7.44 =6/4 | 2/10= 20% | %08 = 9/4 | 5/12= 41.7% | 3/7= 42.9% |
| 233 | 226 | 8/23= 34.8% | 4/23= 17.4% | 5/5= 100% | 3/3= 100% | None Known | As Total | As Total | As Total |
| 234 | 251 | 8/18= 44.4% | 4/18= 22.2% | 4/e= 66.7% | 1/3= 33.3% | None Supplied A | As Total | As Total | As Total |
| 235 | 75 | 3/36= 8.3% | 0/36= 0 | %/·99 =9/ ₅ | 3/4= 75% | 1/1= 100% | 3/5= 60% | As Total | As Total |
| 236 | 344 | 11/17= 64.7% | 3/17= 17.6% | 8/8= 100% | 8/8= 100% | None Supplied A | As Total | As Total | As Total |
| 237 | 200 | 8/25= 32% | 3/25= 12% | e/6= 100% | %001 =9/9 | None Supplied A | As Total | As Total | As Total |
| 238 | 87 | 18/23= 78.3% | 6/23= 26.1% | 6/7= 85.7% | 5/6= 83.3% | None Supplied A | As Total | As Total | As Total |
| 239 | 264 | 10/15= 66.7% | 8/15= 53.3% | 8/8= 100% | 8/8= 100% | 1/1= 100% | //7= 100% | As Total | As Total |
| 240 | 121 | 6/20= 30% | 5/20= 25% | 4/4= 100% | 7001 = 100% | None Known | As Total | As Total | As Total |
| 242 | 304 | 5/25= 20% | 2/25= 8% | 12/13= 92.3% | %001 =6/6 | 5/5= 100% | 7/8= 87.5% | As Total | As Total |
| 243 | П | 1/1= 100% | 1/1= 100% | 0/1= 0 | 0/1= 0 | 'n in | As Total | As Total | As Total |
| 244 | 408 | 4/16= 25% | 2/16= 12.5% | 5/6= 83.3% | 2/2= 100% | Base None Supplied A | As Total | As Total | As Total |
| 245 | 97 | 15/24= 62.5% | 8/24= 33.3% | 3/4= 75% | 2/3= 66.7% | None Known | As Total | As Total | As Total |
| 246 | 133 | 14/29= 48.3% | 4/29= 13.8% | 10/11= 90.9% | %001 =6/6 | As Total | , | As Total | As Total |
| 247 | 2 | 2/2= 100% | 2/2= 100% | 2/6= 33.3% | 2/2= 100% | None Known | As Total | As Total | As Total |
| 248 | 339 | 11/17= 64.7% | 11/17= 64.7% | 2/7= 28.6% | 2/7= 28.6% | None Known | As Total | As Total | As Total |
| 546 | 480 | 24/25= 96% | 16/25= 64% | 5/5= 100% | 5/5= 100% | As Total | | As Total | As Total |
| 250 | 89 (80) | 9/20= 45% | 4/20= 20% | 6/6= 100% | 1/1= 100% | None Supplied | As Total | As Total | As Total |
| | | | | | | | _ | | _ |

| | Set" | Major Value | As Total | As Total | As Total | 2/2= 100% | As Total | As Total | As Total | As Total | As Total | 4/4= 100% | | 18 18 19 10 10 10 | As Total | 0/13= 0 | As Total | As Total | As Total | 3/4= 75% | |
|---------|--------------------------------------|-------------|-------------|------------|--------------|--------------|--------------|------------------------|--------------|-------------|------------------------|-------------------|------------|----------------------------------|--------------|-----------|------------|------------|--------------|--------------|--|
| | BREAKDOWN "Best | Overall | As Total | As Total | As Total | 4/4= 100% | As Total | As Total | As Total | As Total | As Total | 4/4= 100% | | As Total | As Total | 0/16= 0 | As Total | As Total | As Total | 3/4= 75% | |
| | RECALL RATE BREAKDOWN Found Manually | Halludily | 2/3= 66.7% | As Total | 2/3= 66.7% | 3/3= 100% | As Total | As Total | As Total | 1/1= 100% | As Total | 4/4= 100% | None Found | As Total | 8/10= 80% | 0/2= 0 | 3/3= 100% | 2/3= 66.7% | | 2/3= 66.7% | |
| | Known by | Tarenilare. | 2/4= 50% | None Known | 1/1= 100% | %6.88 =6/8 | None Known | None Supplied As Total | None Known | 1/2= 50% | None Known in As Total | base 4/10= 40% | None Known | None Supplied | 1/2= 50% | 0/16= 0 | 2/2= 100% | 0/1 = 0 | As Total | 1/7= 14.3% | |
| | KATIO FAL Major Value | 200 | 3/6= 50% | 1/2= 50% | 1/1= 100% | 2/2= 100% | 2/4= 50% | 1/1= 100% | 3/6= 50% | 1/1= 100% | 1/3= 33.3% | 7/10= 70% | Base | | 8/11= 72.7% | 0/16= 0 | 3/3= 100% | 1/2= 50% | 15/15= 100% | 3/9= 33.3% | |
| | KECALL KA TOTAL Overall | | 3/6= 50% | 1/4= 25% | 3/4= 75% | 11/12= 91.7% | 3/5= 60% | 1/1= 100% | 3/8= 37.5% | 2/3= 66.7% | 1/3= 33.3% | 7/13= 53.8% | No Recall | 0/1= 0 | 9/12= 75% | 0/20= 0 | 3/3= 100% | 2/4= 50% | 16/16= 100% | 3/10= 30% | |
| | Major Value | | 3/27= 11.1% | 4/4= 100% | 8/27= 29.6% | 0/23= 0 | 6/23= 26.1% | 2/11= 18.2% | 6/26= 23.1% | 5/15= 33.3% | 1/10= 10% | 6/11= 54.5% | 1/9= 11.1% | 5/10= 50% | 5/16= 31.2% | 2/20= 10% | 4/7= 57.1% | 2/6= 33.3% | 11/23= 47.8% | 6/21= 28.6% | |
| rologad | Overall Ma | | 7/27= 25.9% | 4/4= 100% | 16/27= 59.3% | 4/23= 17.4% | 12/23= 52.2% | 4/11= 36.4% | 18/26= 69.2% | 9/15= 60% | 1/10= 10% | 6/11= 54.5% | 9/9= 100% | 6/10= 60% | 13/16= 81.2% | 5/20= 25% | 6/7= 85.7% | 5/6= 83.3% | 21/23= 91.3% | 16/21= 76.2% | |
| | Total Retrieved | | 105 | 4 | 333 | 426 | 51 | 14 | 278 | 29 | 10 | 22 | 6 | 13 | 657 | 27 | 7 | 00 | 500 | 91 | |
| = | # | | 251 | 252 | 256 | 259 | 260 | 263 | 797 | 266 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 276 | 277 | 278 | |

| | Set" , Major Value | As Total | 9/15= 60% | As Total | | 3/3= 100% | As Total | 1/1= 100% | 3.3 | | | As Total | | | 1/3= 33.3% | As Total | As Total | 1/2= 50% | 5/6= 83.3% | | |
|------------------------|-----------------------|------------|--------------|------------|----------|--------------|--------------|------------|-------------|---------------|-------------|------------------------|---------------|------------|-------------|---------------|------------|-------------|--------------|--|--|
| | "Best Overall | As Total | 10/19= 52.6% | As Total | As Total | 3/4= 75% | As Total | 2/5= 40% | As Total | As Total | | As Total | As Total | As Total | 1/4= 25% | As Total | As Total | 3/5= 60% | 6/10= 60% | | |
| RECALL RATIO BREAKDOWN | Found Manually | %52 =8/9 | 6/13= 46.2% | None Found | | 3/4= 75% | | 2/5= 40% | 0 -8/0 | As Total | None Found | As Total | As Total | As Total | 0/3= 0 | As Total | 6/7= 85.7% | 3/5= 60% | %2.99 =6/9 | | |
| | Known by Requester | 1/1= 100% | 10/17= 58.8% | None Known | As Total | 5/6= 83.3% | As Total | 0/1= 0 | 0/1= 0 | None Supplied | None Known | None Supplied As Total | None Supplied | None Known | 1/3= 33.3% | None Supplied | 1/1= 100% | 16/16= 100% | %6.88 =6/8 | | |
| RATIO | Major Value | 5/7= 71.4% | 12/19= 63.2% | 0/0= 100% | | 5/6= 83.3% | 1/4= 25% | 1/1= 100% | | | Base | 1/4= 25% | | | 1/5= 20% | 1/3= 33.3% | 4/4= 100% | %6.88 =6/8 | 10/11= 90.9% | | |
| RECALL | 0veral1 | 7/9= 77.8% | 14/27= 51.9% | 0/0= 100% | 0/2= 0 | %52 =8/9 | 1/8= 12.5% | 2/6= 33.3% | 0 =6/0 | 2/3= 66.7% | No Recall | 1/4= 25% | 1/3= 33.3% | 0/1 = 0 | 1/6= 16.7% | 3/7= 42.9% | 7/8= 87.5% | 18/20= 90% | 13/17= 76.5% | | |
| PRECISION RATIO | Major Value | 4/20= 20% | 2/18= 11.1% | 0/2= 0 | 0/22= 0 | 6/18= 33.3% | 15/26= 57.7% | 3/25= 12% | 3/11= 27.3% | 3/24= 12.5% | 0/22= 0 | 5/25= 20% | 5/25= 20% | 1/27= 3.7% | 1/19= 5.3% | 8/28= 28.6% | 3/25= 12% | 1/22= 4.5% | 10/18= 55.6% | | |
| PRECISI | Overall | 14/20= 70% | 3/18= 16.7% | 0/2= 0 | 0/22= 0 | 10/18= 55.6% | 19/26= 73.1% | 11/25= 44% | 11/11= 100% | 13/24= 54.2% | 4/22= 18.2% | 9/25= 36% | 10/25= 40% | 2/27= 7.4% | 2/19= 10.5% | 19/28= 67.9% | 6/25= 24% | 2/22= 9.1% | 14/18= 77.8% | | |
| | Retrieved | 343 | 687 | 2 | 36 | 56 | 405 | 93 | 12 | 190 | 20 | 131 | 33 | 71 | 173 | 267 | 245 | 722 | 207 | | |
| | # | 281 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 095 | | |

| Retrieved Overall 165 5/26= 19.2% 24 8/16= 50% 42 0/25= 0 502 25/25= 100% 133 20/22= 90.9% 51 2/19= 10.5% 45 7/29= 24.1% 96 11/26= 42.3% 233 4/23= 17.4% | 20 20 | Major Value 1/26= 3.8% 4/16= 25% 0/25= 0 2/25= 8% 18/22= 81.8% 0/19= 0 3/29= 10.3% 5/26= 19.2% | Overall M 3/6= 50% 1/ 3/6= 50% 2/ 0/0= 100% 0/ 1/1= 100% 1/ 9/9= 100% 9/ 2/3= 66.7% 0/ | Major Value 1/2= 50% 2/3= 66.7% 0/0= 100% 1/1= 100% 9/9= 100% 0/1= 0 | n n | Manually Overall 2/4= 50% 3/5= 60% 2/5= 40% As Total None Found As Total As Total As Total 8/8= 100% As Total | lest. | Major Value |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 2 2 | 3.8% 25% 0 81.8% 0 10.3% | 3/6= 50% 3/6= 50% 0/0= 100% 1/1= 100% 9/9= 100% 2/3= 66.7% | 1/2= 50% 2/3= 66.7% 0/0= 100% 1/1= 100% 9/9= 100% 0/1= 0 | 1/2= 50% 2/3= 66.7% None Known Base 1/1= 100% 2/2= 100% | 2/4= 50% 2/5= 40% None Found As Total 8/8= 100% | 200 | |
| | % % | 25% 0 8% 81.8% 0 10.3% | 3/6= 50% 0/0= 100% 1/1= 100% 9/9= 100% 2/3= 66.7% | 2/3= 66.7% 0/0= 100% 1/1= 100% 9/9= 100% 0/1= 0 | 2/3= 66.7% None Known in Base 1/1= 100% 2/2= 100% | 2/5= 40% None Found As Total 8/8= 100% | 3/2= 60% | 2001 |
| | 8 8 | 8% 81.8% 0 10.3% | 0/0= 100% 1/1= 100% 9/9= 100% 2/3= 66.7% | 0/0= 100% 1/1= 100% 9/9= 100% 0/1= 0 | None Known in Base 1/1= 100% 2/2= 100% | None Found As Total 8/8= 100% | As Total | As Total |
| | 8 8 | ~ | 1/1= 100% 9/9= 100% 2/3= 66.7% | 1/1= 100% 9/9= 100% 0/1= 0 | None Known in Base 1/1= 100% 2/2= 100% | As Total 8/8= 100% 0/1= 0 | As Total | As Total |
| | 82 82 | 8 | 9/9= 100% 2/3= 66.7% | 9/9= 100% 0/1= 0 | | 8/8= 100% | As Total | As Total |
| | ~ | | 2/3= 66.7% | 0/1= 0 | | 0/1= 0 | As Total | As Total |
| | ~ | | 10 -L12 | 4/4= 100% | | 2 1/0 | As Total | As Total |
| | ~ | | %/.cs =//o | - 100% | 3/3= 100% | 3/4= 75% | As Total | As Total |
| | _ | | 7/2= 80% | 3/4= 75% | 2/2= 100% | 2/3= 66.7% | As Total | As Total |
| | _ | 3/23= 13% | 7/9= 77.8% | 2/4= 50% | 2/2= 100% | 5/7= 71.4% | As Total | As Total |
| 58 20/24= 83.3% | | 11/24= 45.8% | 4/8= 50% | 4/8= 50% | None Known in As Total | As Total | As Total | As Total |
| 110 6/25= 24% | | 2/25= 8% | %001 =9/9 | 1/1= 100% | Ĕ | in As Total | As Total | As Total |
| 34 11/28= 39.3% | | 5/28= 17.9% | 0/2= 0 | 0/2= 0 | Base None Known | As Total | As Total | As Total |
| 75 10/22= 45 | | 0 | 8/8= 100% | 2/5= 100% | 4/4= 100% | 5/5= 100% | 5/5= 100% | 3/3= 100% |
| 211 15/25= 60 | | 7/25= 28% | 3/3= 100% | 3/3= 100% | As Total | | As Total | As Total |
| 69 3/24= 12. | | 1/24= 4.2% | 0/5= 0 | 0 = 4/0 | As Total | | As Total | As Total |
| 101 13/18= 72 | | 9/18= 50% | %08 = 90% | 3/3= 100% | 0/1= 0 | 4/4= 100% | As Total | As Total |
| 76 10/17= 58 | | 1/17= 5.9% | 100% | 2/2= 100% | None Known | As Total | As Total | As Total |
| 1 1/1= 100% | | 1/1= 100% | 33,3% | 1/2= 50% | 1/1= 100% | 0/2= 0 | As Total | As Total |
| | | 10/22= 45.5% 15/25= 60% 3/24= 12.5% 13/18= 72.2% 10/17= 58.8% 1/1= 100% | 10/22= 45.5% 0/22= 0 15/25= 60% 7/25= 28% 3/24= 12.5% 1/24= 4.2% 13/18= 72.2% 9/18= 50% 10/17= 58.8% 1/17= 5.9% 1/1= 100% 1/1= 100% | 10/22= 45.5% 0/22= 0 8/8= 100% 15/25= 60% 7/25= 28% 3/3= 100% 3/24= 12.5% 1/24= 4.2% 0/5= 0 13/18= 72.2% 9/18= 50% 4/5= 80% 10/17= 58.8% 1/17= 5.9% 3/3= 100% 1/1= 100% 1/1= 100% 1/1= 33.3% | 10/22= 45.5% 0/22= 0 8/8= 100% 5/5= 15/25= 60% 7/25= 28% 3/3= 100% 3/3= 3/24= 12.5% 1/24= 4.2% 0/5= 0 0/4= 13/18= 72.2% 9/18= 50% 4/5= 80% 3/3= 10/17= 58.8% 1/17= 5.9% 3/3= 100% 2/2= 1/1= 100% 1/1= 100% 1/3= 33.3% 1/2= | 10/22= 45.5% 0/22= 0 8/8= 100% 5/5= 100% 4/4= 100% 15/25= 60% 7/25= 28% 3/3= 100% 3/3= 100% 4/4= 100% 15/25= 60% 7/25= 28% 3/3= 100% 3/3= 100% As Total 3/24= 12.5% 1/24= 4.2% 0/5= 0 0/4= 0 As Total 13/18= 72.2% 9/18= 50% 4/5= 80% 3/3= 100% 0/1= 0 10/17= 58.8% 1/17= 5.9% 3/3= 100% 2/2= 100% None Known 1/1= 100% 1/1= 100% 1/3= 33.3% 1/2= 50% 1/1= 100% | 10/22= 45.5% 0/22= 0 8/8= 100% 5/5= 100% 4/4= 100% 15/25= 60% 7/25= 28% 3/3= 100% 3/3= 100% As Total 3/24= 12.5% 1/24= 4.2% 0/5= 0 0/4= 0 As Total 13/18= 72.2% 9/18= 50% 4/5= 80% 3/3= 100% 0/1= 0 10/17= 58.8% 1/17= 5.9% 3/3= 100% 2/2= 100% None Known 1/1= 100% 1/1= 100% 1/3= 33.3% 1/2= 50% 1/1= 100% | 10/22= 45.5% 0/22= 0 8/8= 100% 5/5= 100% 4/4= 100% 5/5= 100% 15/25= 60% 7/25= 28% 3/3= 100% 3/3= 100% 5/5= 100% 5/5= 100% 15/25= 60% 7/25= 28% 3/3= 100% 3/3= 100% 5/5= 100% 5/5= 100% 13/18= 72.2% 9/18= 50% 4/5= 80% 3/3= 100% 0/1= 0 4/4= 100% 10/17= 58.8% 1/17= 5.9% 3/3= 100% 2/2= 100% None Known As Total 1/1= 100% 1/1= 100% 1/3= 33.3% 1/2= 50% 1/1= 100% 0/2= 0 |

| | Set" ,Major Value | As Total | 3/6= 50% | 0/3= 0 | | | As Total | As Total | 2/4= 50% | 4/4= 100% | As Total | As Total | As Total | As Total | As Total | | As Total | As Total | As Total | | |
|------------------------|-----------------------|-------------------------------|--------------------|------------|------------|-----------|--------------|-------------|-------------|------------|-------------|--------------|------------|-------------|------------|-------------|------------|-------------|-------------|---|--|
| BREAKDOWN | "Best Overall | As Total | 4/8= 50% | 1/5= 20% | As Total | As Total | As Total | As Total | 2/4= 50% | 5/6= 83.3% | As Total | As Total | As Total | As Total | As Total | As Total | As Total | As Total | As Total | * | |
| RECALL RATIO BREAKDOWN | Found Manually | As Total | 2/5= 40% | 1/5= 20% | 0/1=0 | 1/1= 100% | 5/6= 83.3% | | 2/4= 50% | 5/6= 83.3% | None Found | As Total | As Total | 2/3= 66.7% | 1/5= 20% | | 2/6= 33.3% | As Total | | | |
| | Known by Requester | None Known in As Total | base 6/9= 66.7% | 2/4= 50% | None Known | 0/1 = 0 | 1/1= 100% | As Total | 2/3= 66.7% | 2/2= 100% | As Total | None Known | None Known | 2/4= 50% | 1/1= 100% | As Total | 0/3= 0 | None Known | As Total | | |
| RATIO | Major Value | 1/1= 100% | 5/8= 62.5% | 2/7= 28.6% | | | 4/4= 100% | 5/7= 71.4% | 3/5= 60% | %001 =9/9 | 1/1= 100% | 5/5= 100% | 1/1= 100% | 2/4= 50% | 2/4= 50% | | 2/7= 28.6% | 1/2= 50% | 4/7= 57.1% | | |
| RECALL RATIO | Overall M | 1/1= 100% | 8/14= 57.1% | 3/9= 33.3% | 0/1 = 0 | 1/2= 50% | 6/7= 85.7% | %52 =8/9 | 4/7= 57.1% | 7/8= 87.5% | 1/1= 100% | %001 =9/9 | 1/1= 100% | 3/6= 50% | 2/6= 33.3% | 2/9= 55.6% | 2/9= 22.2% | 3/5= 60% | 8/14= 57.1% | | |
| PRECISION RATIO | Major Value | % 7. 9+ 46/ 4 % | 9/23= 39.1% | 9/20= 45% | 0/13= 0 | 0/24= 0 | 7/26= 26.9% | 8/22= 36.4% | 3/21= 14.3% | 5/25= 20% | 1/24= 4.2% | 5/22= 22.7% | 1/10= 10% | 5/23= 21.7% | 4/4= 100% | 2/15= 13.3% | 7/25= 28% | 2/18= 11.1% | 5/17= 29.4% | 1 | |
| PRECISI | Overall | 2/9= 55.6% | 16/23= 69.6% | 14/20= 70% | 0/13= 0 | 0/24= 0 | 15/26= 57.7% | 22/22= 100% | 8/21= 38.1% | 17/25= 68% | 3/24= 12.5% | 10/22= 45.5% | 6/10= 60% | 9/23= 39.1% | 4/4= 100% | 5/15= 33.3% | 11/25= 44% | 8/18= 44.4% | 8/17= 47.1% | | |
| T0+01 | Retrieved | 12 | 20 | 25 | 500 | 54 | 121 | 359 | 500 | 200 | 27 | 134 | 10 | 52 | 4 | 180 | 231 | 346 | 184 | | |
| | # | 504 | 505 | 909 | 507 | 208 | 509 | 510 | 511 | 513 | 521 | 522 | 523 | 524 | 525 | 526 | 527 | 528 | 529 | | |

| | Total | PRECIS | PRECISION RATIO | RECALL RATIO | RATIO | | RECALL RATIO | BREAKDOWN | |
|-----|-----------|--------------|-----------------|--------------|-------------|-----------------------|-------------------|------------------|---------------------|
| # | Retrieved | Overall | Major Value | 0veral1 | Major Value | Known by Requester | Found Manually | "Best Overall | Set" Major Value |
| 530 | 10 | 3/8= 37.5% | 3/8= 37.5% | 4/11= 36.4% | 7/8= 50% | 7/2= 80% | 1/7= 14.3% | 1/7= 14.3% | 1/4= 25% |
| 531 | 43 | 8/16= 50% | 3/16= 18.7% | 0/1= 0 | | None Known | As Total | As Total | |
| 532 | 15 | 9/10= 90% | 3/10= 30% | 2/5= 40% | 1/3= 33.3% | 0/1= 0 | 2/4= 50% | As Total | As Total |
| 534 | 113 | 9/20= 45% | 6/20= 30% | 2/3= 66.7% | 1/2= 50% | None Known | As Total | As Total | As Total |
| 535 | 143 | 3/10= 30% | 1/10= 10% | 2/5= 40% | 2/4= 50% | None Known | As Total | As Total | As Total |
| 539 | 52 | 11/18= 61.1% | 0/18= 0 | 8/11= 72.7% | | As Total | | 2/3= 66.7% | |
| 240 | 32 | 10/30= 33.3% | 6/30= 20% | 1/2= 50% | 1/1= 100% | None Known | As Total | As Total | As Total |
| 541 | 20 | 8/8= 100% | 8/8= 100% | 3/3= 100% | 3/3= 100% | 1/1= 100% | 2/2= 100% | As Total | As Total |
| 545 | 99 | 3/23= 13% | 1/23= 4.3% | 5/6= 83.3% | 1/1= 100% | 2/3= 66.7% | 3/3= 100% | 3/3= 100% | |
| 547 | 417 | 9/22= 40.9% | 4/22= 18.2% | %2.99 =6/9 | 5/8= 62.5% | As Total | | As Total | As Total |
| 248 | 28 | 15/30= 50% | 11/30= 36.7% | 3/4= 75% | 3/4= 75% | 1/1= 100% | 2/3= 66.7% | As Total | As Total |
| 551 | 21 | 12/21= 57.1% | 10/21= 47.6% | 5/6= 83.3% | 4/4= 100% | 1/1= 100% | 7/5= 80% | As Total | As Total |
| 553 | 6 | %2.99 =6/9 | 2/9= 55.6% | 2/3= 66.7% | 2/2= 100% | 2/2= 100% | 0/1= 0 | As Total | As Total |
| 555 | 500 | 9/18= 50% | 7/18= 38.9% | 1/3= 33.3% | 1/2= 50% | 1/2= 50% | 0/2= 0 | As Total | As Total |
| 557 | 108 | 2/30= 6.7% | 1/30= 3.3% | 3/5= 60% | 2/2= 100% | 1/3= 33.3% | 2/2= 100% | As Total | As Total |
| 529 | 0 | 0 =0/0 | 0 =0/0 | 0/3= 0 | | None Known | As Total | As Total | |
| 260 | 19 | 8/17= 47.1% | 4/17= 23.5% | 1/4= 25% | 1/4= 25% | 0/2= 0 | 1/4= 25% | As Total | As Total |
| 561 | 27 | 24/26= 92.3% | 14/26= 53.8% | 0/2= 0 | 0/1= 0 | None Known | As Total | As Total | As Total |
| | | | | | | | _ | | |

| F | 10101 | PRECIS | PRECISION RATIO | RECALL RATIO | RATIO | | RECALL RATIO BREAKDOWN | BREAKDOWN | |
|------|-----------|--------------|-----------------|--------------|--------------------|------------------------|--------------------------|------------|---------------------|
| it : | Retrieved | Overall | Major Value | Overall | TAL Major Value | Known by Requester | Found Manually | est | Set" Major Value |
| 5 | 500 | 21/25= 84% | 2/25= 8% | %05 =8/7 | 1/3= 33.3% | 0/2= 0 | %/.99 =9/ 1 / | 4/6= 66.7% | 1/1= 100% |
| 5 = | 33, | 18/22= 81.8% | 13/22= 59.1% | 5/7= 71.4% | 5/7= 71.4% | 2/2= 100% | %/.99 =9/7 | 4/6= 66.7% | %/.99 =9/7 |
| w | 82 | 8/17= 47.1% | 4/17= 23.5% | 4/10= 40% | 3/7= 42.9% | 2/4= 50% | 2/6= 33.3% | As Total | As Total |
| 3 | 333 | 20/28= 71.4% | 2/28= 7.1% | 2/7= 28.6% | 1/3= 33.3% | 1/2= 50% | 1/5= 20% | 1/5= 20% | 0/1= 0 |
| 12 | 121 | 0/19= 0 | 0/19= 0 | 1/3= 33.3% | 1/2= 50% | None Supplied As Total | As Total | As Total | As Total |
| 33 | 336 | 24/26= 92.3% | 11/26= 42.3% | 1/9= 11.1% | 1/5= 20% | As Total | | As Total | As Total |
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Appendix 5

Specificity of search formulations:

- (a) Formulations nonspecific (precision failures)
- (b) Specific formulations (recall failures)

<u>APPENDIX</u> 5 (a)

<u>Search formulations nonspecific in relation to stated requests</u>

(100 searches examined. 27 found to include instances of precision failures due to nonspecific formulations).

| | Actual boot of value | of no value | Search strictl | y matching request Of no value |
|--------------|----------------------|-------------|----------------|-----------------------------------|
| #1 17 | 11 | 11 | 11 | 10 |
| #118 | 5 | 21 | 5 | 12 |
| <i>‡</i> 155 | 13 | 10 | 13 | 8 |
| #166 | 7 | 2 | 7 | 1, |
| #173 | 8 7 | 7. | 5 | 6 |
| <i>‡</i> 174 | 10 | 10 | 6 | 1 |
| <i>‡</i> 177 | 3 | 20 | 1 1 2 2 2 2 | 18 |
| #182 | 9 | 14 | 0 | 3 |
| #200 | 10 | 11 | 10 | 9 |
| #212 | 4 | 8 | 4 | 3 |
| #213 | 0 | 1 | 0 | 0 |
| #216 | 6 | 22 | 2 | 20 |
| #221 | 3 | 24 | 3 | 18 |
| #224 | 14 | 8 | 14 | 7 |
| #230 | 7 | 10 | 6 | 7 |
| #236 | 11 | 6 | 2 | 1 |
| #238 | 18 | 5 | 5 | 4 |
| #240 | 6 | 14 | 4 | 10 |
| #245 | 15 | 9 | 11 | 8 |
| #260 | 12 | 11 | 11 | 9 |

| () (bas) | | Actual broof value | Of no value | Search strictly Of value | matching request Of no value |
|--------------|--------|--------------------|-----------------|--------------------------|------------------------------|
| #268 | | 1 | 9 | 1 | 0 |
| <i>‡</i> 301 | | 3 | 15 | 2 | 0 |
| #304 | | 10 | 8 | 10 | 7 |
| #462 | | 8 | 8 | 7 | 4 |
| <i>‡</i> 478 | | 15 | 10 | 14 | 8 |
| #479 | | 3 | 17 | 3 | 11 |
| # 483 | TOTALS | $\frac{7}{122}$ | $\frac{5}{169}$ | 7 101 | $\frac{4}{102}$ |

Failure to broaden the searching strategy would have avoided 67/169 (39.6%) of the irrelevant articles while missing 21/122 (17.2%) of the relevant items.

Search-by-search analysis

#117

Request Schizophrenia and autism: epidemiology, genetics, etiology.

<u>Elaboration</u> The searcher included FACTOR ANALYSIS, STATISTICAL, which is not specific to epidemiology (i.e., she substituted one technic term for another).

Results Recall was unaffected. Without the elaboration, retrieval of irrelevant documents would have been reduced by 1/11.

#118

Request Immunochemistry of polypeptides

Elaboration The requester appears interested in the immunochemical structure and antigenic structure of proteins and polypeptides. Several term combinations used by the searcher are nonspecific in relation to this request. The term TRYPSIN, presumably included as an enzyme that may act on peptide linkages, retrieved only irrelevant material. This is an example of an "agent" term substituted for the substance (peptide or protein) upon which it might act.

Also, the terms ANTIBODY FORMATION and ANTIGEN-ANTIBODY REACTIONS are not specific in relation to "antigenic structure". Combined with protein terms, they retrieved a number of irrelevant articles on immunization or studies of a clinical nature on human serum. This is an example of "process" terms substituted for "structure" terms.

<u>Results</u> Recall was not improved. Without the elaboration, retrieval of irrelevant documents would have been reduced by 9/21.

#155

<u>Request</u> Etiology of decompression sickness and nitrogen narcosis, including bubble nucleation, growth and stabilization, gas solubility and diffusivity in liquids and body tissue, and models of gas or solute exchange in the body.

<u>Elaboration</u> The searcher substituted a general property term (CHEMISTRY, PHYSICAL) for the specific properties (solubility and diffusivity) requested.

Results Recall was not improved. Without the elaboration, retrieval of irrelevant documents would have been reduced by 2/10.

Request Hemangioma of the small intestine

<u>Elaboration</u> The disease category was elaborated to include HEMANGIOPERICYTOMA and HEMANGIOENDOTHELIOMA as well as HEMANGIOMA.

Results Recall unaffected. Without the elaboration, retrieval of irrelevant documents would have been reduced by 1/2.

#173

Request Correlation between dentistry and arthritis.

<u>Elaboration</u> The requester is interested in oral manifestations of arthritis, infectious arthritis, rheumatoid arthritis, rheumatic fever, osteoarthritis, and Reiter's disease. The disease category was expanded to include related syndromes (e.g., Sjogren's), gout, and spondylitis.

<u>Results</u> Without the elaboration, retrieval of irrelevant documents would have been reduced by 1/7 but retrieval of relevant documents would have been reduced by 3/8.

#174

Request Testicular biopsies in infertility and endocrine disease.

Elaboration The searcher exploded on two facets of the request simultaneously. This is likely to result in high recall but low precision. For the anatomical term TESTIS, disease terms (e.g., TESTICULAR DISEASES, TESTICULAR NEOPLASMS) and "component part" terms (e.g., LEYDIG CELLS, SERTOLI CELLS) were substituted. At the same time, there was a generalization in the technics facet from BIOPSY to general terms such as PATHOLOGY and HISTOLOGY.

Results Without the elaboration, retrieval of irrelevant documents would have been reduced by 9/10 while retrieval of relevant documents would have been reduced by 4/10.

#177

<u>Request</u> Obstetrical management of premature rupture of the fetal membranes.

<u>Elaboration</u> The requester is interested in a specific complication of pregnancy or labor, namely premature rupture of the fetal membranes. The searcher generalized in the "disease" category to "complications involving the fetal membranes", by the coordination of FETAL MEMBRANES <u>and PREGNANCY COMPLICATIONS</u>

LABOR COMPLICATIONS

Results Without the elaboration, retrieval of irrelevant documents would have been reduced by 2/20 while retrieval of relevant documents would have been reduced by 2/3.

#182

Request Life span (turnover time) of cells in the kidney.

<u>Elaboration</u> In this case the searcher was forced to be nonspecific because the precise term that equates with "life span", LONGEVITY, does not appear to have been applied to articles on cell lifetime. For this "dimensional" term the searcher substituted the "effect" terms AGING and NECROSIS and terms (TRITIUM and CARBON ISOTOPES) representing specific agents that may be used in the measurement of cell lifetime.

<u>Results</u> Without the elaboration, retrieval of relevant documents would have been reduced by 11/14. However, recall would have been zero.

#200

<u>Request</u> Endometrium: ultrastructure, fine structure, electron microscopy, histochemistry, cytochemistry.

Elaboration It is difficult to conduct a search on ultrastructure because there is no specific term denoting "fine structure" in the vocabulary. For terms indicating "structure" the searcher substituted terms representing "parts" by exploding on the term CYTOPLASM. Specificity was further reduced by substituting a "disease" term (ENDOMETRIAL HYPERPLASIA) for an organ term (ENDOMETRIUM).

Results This elaboration did not improve recall. Without the elaboration, retrieval of irrelevant documents would have been reduced by 2/11.

#212

Request Adherence of patients to oral tuberculosis therapy (isoniazid and PAS) as indicated by periodic urine testing.

<u>Elaboration</u> The requester is interested only in the specific metabolic processes of absorption and excretion. The searcher generalized to METABOLISM in general, and also substituted the entire FLUIDS and SECRETIONS group of terms (including, for example, SPUTUM) for the specific fluid, URINE, of interest.

<u>Results</u> Without the elaboration, retrieval of irrelevant documents would have been reduced by 5/8, while recall of relevant documents would not have been affected.

Request Effect of certain diuretic agents (thiazides, ethacrynic acid, furosemide, and MK-870) on: (a) renal excretion of calcium, magnesium and phosphate, (b) gastrointestinal absorption of calcium, magnesium and phosphate, (c) metabolic bone changes on calcium, magnesium and phosphate.

Elaboration Inexplicably the search was conducted only on DIURETICS, ETHACRYNIC ACID and FUROSEMIDE, omitting many specific thiazide terms of interest to the requester. Only one citation was retrieved, on the generic term DIURETICS, and this proved to deal with malachite green, a substance of no relevance to the request.

Results Retrieval would have been zero without the inclusion of DIURETICS. The only article retrieved, however, was irrelevant (i.e., zero precision).

#216

Request Histology and ultrastructure of the olfactory mucosa.

Elaboration As noted previously (see analysis #200 above) it is difficult to conduct a successful search relating to anatomical "structure" because the vocabulary is deficient in terms in this area, although this situation became less acute with the introduction of the subheadings CYTOLOGY and ANATOMY & HISTOLOGY. Whereas in search #200, the analyst substituted "part" terms by exploding on CYTOPLASM, the formulation for this search relied mainly on "technic" terms by means of explosions on MICROSCOPY and HISTOLOGICAL TECHNICS. These explosions inevitably retrieved unwanted articles on methodology rather than findings. The searcher, unaccountably, made no use of subheadings, although four of the six articles known to be relevant, and indexed since the introduction of subheadings, could have been retrieved on NASAL MUCOSA/CYTOLOGY and NASAL MUCOSA/INNERVATION.

Results Without the elaboration, retrieval of irrelevant articles would have been reduced by 2/22 while retrieval of relevant articles would have been reduced by 4/6.

#221

<u>Request</u> Medical articles relating to the Somali republic, especially tropical medicine, parasitology, microbiology, mycology, and enteric infections.

Elaboration The searcher exploded on AFRICA, EASTERN (i.e., a movement from a specific geographical heading to a generic). While the move from SOMALIA to the single term AFRICA, EASTERN may be justified, it is difficult to condone an explosion on the latter term, which retrieves articles on other countries (e.g., ETHIOPIA) that can have no direct bearing on the subject of the search.

Results Without the elaboration, retrieval of irrelevant documents would have been reduced by 6/24. Recall would have been reduced by omitting AFRICA, EASTERN, but the additional geographical terms brought in by the explosion produced only noise.

#224

<u>Request</u> Nonsurgical diagnosis and therapy of primary bone tumors, benign and malignant.

Elaboration The searcher generalized in the "technic" category from "drug therapy" to an explosion on DRUG ADMINISTRATION. This covers terms (e.g., INJECTIONS, INTRAVENOUS) not exclusively diagnostic or therapeutic and retrieves articles on, for example, injection of carcinogenic agents into laboratory animals.

Results No improvement in recall. Without the elaboration, retrieval of irrelevant items would have been reduced by 1/8.

#230

Request Frozen serum and plasma.

<u>Elaboration</u> The searcher expanded in the "anatomical term" category by including THROMBOPLASTIN, BLOOD COAGULATION FACTORS (including specific factor terms) and other terms not strictly related to plasma or serum.

Results Without the elaboration, retrieval of irrelevant articles would have been reduced by 3/10 while retrieval of relevant articles would have been reduced by 1/7.

#236

Request Corneal preservation methods

<u>Elaboration</u> In addition to "preservation" terms, the searcher included "transplantation" terms in the formulation. That is, one group of technic terms (representing the use to which the preserved tissue is to be put) is substituted for another. Although some irrelevancies (articles dealing exclusively with technics of transplantation) will result, it seems essential to high recall that any search on preservation be expanded to cover transplantation.

<u>Results</u> Without the elaboration, retrieval of irrelevant articles would have been reduced by 5/6, while retrieval of relevant articles would have been reduced by 9/11.

Request Heart preservation methods

<u>Elaboration</u> As above (#236). "Transplantation" terms were substituted for "preservation" terms.

Results Without the elaboration, retrieval of irrelevant articles would have been reduced by 1/5, while retrieval of relevant items would have been reduced by 13/18.

#240

Request Radiation kidney (radiation nephritis), human and experimental.

<u>Elaboration</u> The request asks for a specific renal effect of radiation, namely nephritis. The searcher generalized from the specific disease term indicated by coordinating radiation terms with anatomic terms (kidney and kidney parts) and with a technic term (KIDNEY FUNCTION TESTS).

<u>Results</u> Without this elaboration, retrieval of irrelevant articles would have been less by 4/14, while retrieval of relevant articles would have been reduced by 2/6.

#245

Request Radiation pneumonitis and radiation pulmonary fibrosis, including pathology, physiology, radiography and therapy.

<u>Results</u> Without the elaboration, retrieval of irrelevant items would have been reduced by 1/9, while retrieval of relevant items would have fallen by 4/15.

#260

Request Reticuloendotheliosis (microgliomatosis, reticulosarcoma) of the retina or brain.

Elaboration By coordinating SARCOMA, RETICULUM CELL or RETICULOEN-DOTHELIOSIS with EYE NEOPLASMS, the searcher is substituting a disease term for an anatomical term (RETINA) and thus expanding the search from "reticuloendotheliosis of the retina" to "reticuloendotheliosis of the eye".

Results Without this generalization, retrieval of irrelevant items would have been less by 2/11, while retrieval of relevant items would have fallen by 1/12.

#268

Request Aspergillosis of the orbit

<u>Elaboration</u> The area of interest relates to one particular mycosis (covered by the term ASPERGILLOSIS) caused by one particular fungus (covered by the term ASPERGILLUS). It is therefore difficult to justify the searcher's expansion to "all fungal diseases of the orbit" by explosions on MYCOSES and FUNGI.

Results These explosions added nothing to the recall but sharply reduced precision from 1/1 (100%) to 1/10 (10%).

#301

<u>Request</u> Methods of evaluating performance of surgical sutures in <u>vivo</u>, methods of introducing infection into sutured wounds, and adverse effects of various suture materials.

Elaboration The searcher expanded the scope of the search from "adverse effects of suture materials" to "adverse effects of suture materials and suturing technics" -- by including the terms SUTURE TECHNICS and LIGATION. That is, "technic" terms are substituted for materials terms.

Results By omission of the elaboration, retrieval of irrelevant documents would have been reduced 100% (15/15), while retrieval of relevant documents would have dropped by 1/3.

#304

<u>Request</u> Effect of administration of chloramphenicol on pregnant females during the first trimester: animal or human studies.

<u>Elaboration</u> The requester is concerned with congenital abnormalities attributable to chloramphenical. This was generalized to "chloramphenical-induced abnormalities" (not necessarily congenital) by the coordination of CHLORAMPHENICOL and ABNORMALITIES.

<u>Results</u> Recall was not improved. Without the elaboration, retrieval of irrelevant articles would have been reduced by 1/8.

#462

Request Cerebral amyloidosis

Elaboration As well as coordinating AMYLOIDOSIS or AMYLOID SUBSTANCE with anatomical terms relating to the brain, the searcher also coordinated with "brain disease" terms. This brought out additional relevant articles, but also retrieved irrelevant items; for example, renal amyloidosis in paraplegic patients.

<u>Results</u> Without the elaboration, retrieval of irrelevant articles would have been reduced by 4/8, while retrieval of relevant articles would have fallen by 1/8.

#478

<u>Results</u> Experimental wound healing of skin, subcutaneous tissue, intestine and gingiva.

<u>Elaboration</u> In an attempt to cover the aspect of wound healing in skin transplantation, the requester used a coordination of SKIN TRANS-PLANTATION <u>and</u> WOUND HEALING <u>or</u> REGENERATION. That is, from the hierarchical tree G1.92:

REGENERATION

BONE REGENERATION LIVER REGENERATION NERVE REGENERATION WOUND HEALING

the generic REGENERATION was substituted for the specific WOUND HEALING. REGENERATION and SKIN TRANSPLANTATION retrieved irrelevant articles, largely immunological studies, on graft rejection. The requester is not concerned with immunological studies nor indeed with skin transplantation $\underline{\text{per}}$ se unless the articles contain a substantial amount of information on the mechanism of wound healing.

Results Without the expansion, retrieval of irrelevant articles would have been reduced by 2/10, while retrieval of relevant articles would have been reduced by 1/15.

#479

Request Quantitative and kinetic aspects of viral antigen-antibody reactions.

Elaboration To be specific, the searcher needed to specify that an antigen or antibody term should co-occur with a virus term and also with a term indicating kinetics or quantitative analysis. However, in some sub-searches a testing "technic" term was substituted for an antibody ("substance") term, in particular by exploding on SERODIAGNOSIS. This explosion brings in terms not exclusively related to antigen-antibody reactions. The combination RUBELLA and NEUTRALIZATION TESTS and MODELS, for example, retrieved irrelevant articles on such topics as experimental rubella virus infections in rhesus monkeys.

Results Without the elaboration, retrieval of irrelevant documents would have been reduced by 6/17, while retrieval of relevant documents would not have been affected.

Request Organ preservation, storage and banking.

Elaboration The request is for "organ preservation" and not for "tissue preservation". The searcher departed from organs in the strict sense (the sense in which the term was used by the requester) by including such terms as BONE MARROW.

Results Recall unaffected. Without the elaboration retrieval of irrelevant documents would have been reduced by 1/5.

APPENDIX 5 (b)

Specificity of search formulation

In a sample of 210 searches analyzed, only 9 were found in which recall failures were attributed directly to the specificity of a search formulation. In no case was the formulation more specific than warranted by the stated request. Rather, these are examples of (1) situations in which the searcher might reasonably have been expected to generalize in order to improve recall or (2) situations in which search generalization would be necessary in order to substantially improve recall. A brief summary of the analysis is given below.

38 Hospital medical staff organization and functions, including the infection committee, the quality of medical care, and continuing education in the hospital.

This search was conducted on the single terms HOSPITAL MEDICAL STAFF and EDUCATION, MEDICAL, CONTINUING. This retrieved a total of 492 items, of which approximately 65% were of some relevance. Because of the paucity of terms in the area of hospital management, and because hospital journals tend not to be indexed exhaustively, the searcher would have needed to search very broadly on HOSPITAL ADMINISTRATION (over 1300 postings), in addition to the two terms used, in order to approach 100% recall. Precision would, of course, have been very low.

48 Rehabilitation of hemiplegics; psychology of hemiplegia patients.

We have a low recall estimate of 38.5% for this search, largely because much of the relevant literature deals with rehabilitation of the "stroke" patient in general, rather than the hemiplegic in particular. The addition of the terms CEREBRAL HEMORRHAGE and CEREBROVASCULAR DISORDERS, as alternates to HEMIPLEGIA, would have raised recall to over 60%. Such a generalization might have improved recall to almost 80% if the term REHABILITATION had been applied to a number of articles to which it appears pertinent.

77 Stomach neoplasms: epidemiology, etiology, genetics

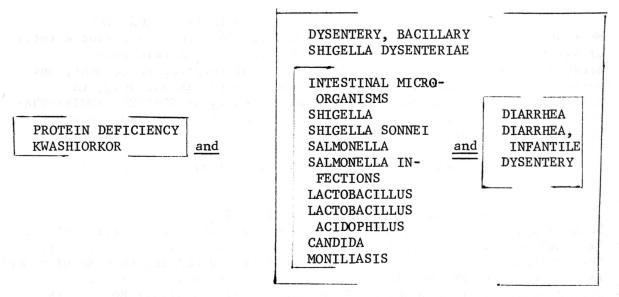
The searcher used only the terms STOMACH NEOPLASMS and CARCINOMA, SCIRRHOUS in the disease category, but coordinated these terms with a long list of terms in an attempt to cover all approaches to epidemiology and etiology. Consequently, there were many term combinations that were not specific to the request (e.g., STOMACH NEOPLASMS and NEGROES, STOMACH NEOPLASMS and MORTALITY), and precision was only 44% (294 articles retrieved). In this case, the searcher might have tried broadening in the disease category to GASTROINTESTINAL NEOPLASMS, coordinating this term with others strictly related to epidemiology or etiology. Recall might thus have been improved from 66% to around 73%.

82 Factor analysis of surgery of temporal lobe epilepsy. Specific factors are related to radiography, EEG, psychological tests used before and after surgery, and prognosis.

The searcher coordinated all epilepsy terms with various surgery terms, but only the terms EPILEPSY, TEMPORAL LOBE, and EPILEPSY, TRAUMATIC with the appropriate diagnostic terms. It would be necessary to generalize to EPILEPSY, as a coordinate with the diagnostic terms, in order to improve recall substantially (from 65% to 85% approximately). The total number of documents retrieved would, of course, be much greater than the 315 actually retrieved, and the precision ratio would probably be much lower than the 37% actually attained in this search.

115 Shigella, salmonella, lactobacillus, candida, or intestinal microorganisms causing diarrhea or dysentery in cases of protein deficiency or Kwashiorkor.

The searcher relied on a specific and exhaustive formulation, as follows:



This retrieved nothing although there are articles of varying degrees of relevance within MEDLARS. It would be necessary to generalize to such combinations as KWASHIORKOR and GASTROENTERITIS in order to obtain high recall in this search.

152 Anticoagulants for the treatment or prevention of pulmonary embolus.

The search was conducted on PULMONARY EMBOLISM <u>and</u> a list of anticoagulant terms. Recall would have improved, but only marginally (from 27% to about 36%), by generalizing to THROMBOEMBOLISM.

155 Etiology of decompression sickness and nitrogen narcosis, including bubble nucleation, growth and stabilization, gas solubility and diffusivity, and analogue models or inert gas exchange.

The searcher might reasonably have generalized from individual inert gas terms to GASES in view of the fact that there is no intermediate generic term for "inert gases" as a group. However, this would only have improved recall from 50% to about 58%.

166 Hemangioma of the small intestine

It appears that there are very few articles directly on the subject of hemangioma of the small bowel, although there are general articles on small bowel neoplasms that devote some attention to hemangioma, although not necessarily indexed under this specific term. To retrieve these the searcher might well have expanded to INTESTINAL NEOPLASMS and INTESTINE, SMALL.

#203 The use of gamma globulin in the treatment of bacteriologic diseases.

The searcher coordinated gamma globulin terms with terms for individual bacteriologic diseases. Unfortunately, some diseases (e.g., ASTHMA) may or may not be bacterial in origin. However, the index language does not distinguish the bacterial version from a version of different etiology. It would be necessary to expand to the whole of infectious disease, coordinated with gamma globulin terms, in order to obtain reasonable recall in this search.

Appendix 6

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第20年 - Para Barrana Ba

Subheadings: application to cases of false coordination and incorrect term relationship

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Appendix 6

<u>Analysis of failures due to false coordinations and incorrect term relationships: possibility of solution by use of subheadings.</u>

Number of searches analyzed: 45

False coordinations

Number of distinct examples encountered in 45 searches: 20

Number solvable by use of existing subheadings: 12

Number solvable by use of suggested new subheadings: 4

Number not readily solvable by subheadings: 4

Incorrect term relationships

Number of distinct examples encountered in 45 searches: 22

Number solvable by use of existing subheadings: 14

Number solvable by use of suggested new subheadings: 6

Number not readily solvable by subheadings: 2

FALSE COORDINATIONS

#230

Request Blood preservation: frozen serum and plasma

Formulation

GLYCERIN

SERUM ALBUMIN

BLOOD PRESERVATION and

<u>or</u> FREEZING and

<u>or</u> PT.ASMA

<u>Unwanted articles</u> The "preservation" terms do not relate to the serum or plasma terms (e.g., articles dealing with preserved red blood cells transformed to plasma).

Solution A new subheading PRESERVATION applicable to all tissue terms in MeSH.

#239

Request Experimental renal hypertension in any animal

Formulation HYPERTENSION, RENAL and RAT

<u>Unwanted articles</u> There is no direct relation between "hypertension" and "rat". Determination of angiotension II in rat blood and the significance of this in the study of human hypertension.

Solution A new subheading EXPERIMENTAL. When added to a disease term, it would tend to ensure that this term is directly related to an animal term applied in indexing. HYPERTENSION, RENAL/EXPERIMENTAL and RAT would have avoided the false coordination mentioned above.

#240

Request Radiation damage to the kidney (radiation nephritis)

Formulation []

RADIATION

HYDRONEPHROSIS

INJURY

and

KIDNEY DISEASES

<u>Unwanted articles</u> The "radiation injury" and kidney disease terms refer to two different patients.

Solution The existing subheading ETIOLOGY, applied to the kidney disease terms, would tend to reduce false coordinations of this type. A new subheading RADIATION-INDUCED would eliminate them.

Request Reticuloendotheliosis of retina or brain

Formulation SARCOMA, OPHTHALMIC RETICULUM CELL and NERVE

<u>Unwanted articles</u> Neurological complications of malignant tumors of the nasopharynx. The two terms refer to different patients.

<u>Solution</u> There seems no simple way to avoid this type of false coordination by the conventional use of subheadings.

#304

Request Effect of administration of chloramphenicol to pregnant female during first trimester.

Formulation CHLORAMPHENICOL and ABNORMALITIES or ABORTION, SEPTIC

Unwanted articles Two types: 1. the chloramphenicol is not directly related to pregnancy; it is used therapeutically after septic abortion or after surgery for kidney abnormalities; 2. article on glucose-6-phosphate-dehydrogenase deficiency in Thailand; fertility, neonatal jaundice, bilirubin encephalopathy and acute hemolytic anemia are discussed, chloramphenicol being mentioned as a possible etiological factor in the latter (there is no reference to chloramphenicol in pregnancy).

Solution Use of CHLORAMPHENICOL/ADVERSE EFFECTS would have avoided retrieval of the first group, in which the relationship is that of CHLORAM-PHENICOL/THERAPEUTIC USE only. This subheading could not, however, prevent the second type of false coordination without joint use of the subheading DRUG EFFECTS. CHLORAMPHENICOL/ADVERSE EFFECTS and PREGNANCY/DRUG EFFECTS would have successfully avoided the second type of false coordination.

#452

Request Complications (i.e., sequelae) of pancreatitis.

Formulation PANCREATITIS and CHOLELITHIASIS or JAUNDICE, OBSTRUCTIVE or COMMON BILE DUCT CALCULI

Unwanted articles Various diagnostic procedures in hepatobiliary disease. In each article, some patients have pancreatitis, others have other conditions. There is no coincidence of pancreatitis and jaundice or calculi or gallstones in the same patient.

Solution The existing subheading COMPLICATIONS can solve this type

of problem when applied to both disease terms <u>anded</u> in the formulation. Thus, the use of PANCREATITIS/COMPLICATIONS <u>and</u> CHOLELITHIASIS/COMPLICATIONS, in a search formulation, will tend to retrieve articles in which the two terms relate to the same patient. It seems preferable, however, to use the subheading COMPLICATIONS solely for the concept of co-existing diseases, and to introduce a new subheading SEQUELAE to be used exclusively for conditions following as a consequence of other diseases and, possibly, conditions following as a consequence of various forms of therapy, exercise, etc.

#453

Request Perforation of the gallbladder

Formulation CHOLELITHIASIS and RUPTURE, SPONTANEOUS

or PERITONITIS

<u>Unwanted articles</u> Surgical and diagnostic studies in which the two terms are not directly related (i.e., the rupture or peritonitis does not follow as a consequence of the gallstones). For example, in one article the term RUPTURE, SPONTANEOUS applies to blood vessel rupture.

Solution In this case the searcher is interested in rupture or peritonitis solely as sequelae of cholelithiasis. A subheading SEQUELAE, appended to CHOLELITHIASIS, would have avoided this type of false coordination. The subheading ETIOLOGY may be used as a companion subheading in this context. That is, to express condition B following as a consequence of condition A, we can use A/SEQUELAE and B/ETIOLOGY (or A/COMPLICATIONS and B/ETIOLOGY).

#458

<u>Request</u> Effect of exercise on respiratory, circulatory and cardiovascular systems.

Formulation EXERTION and HYPERVENTILATION

<u>Unwanted articles</u> Discussion on gastrectomy: hyperventilation is used in assessing the pulmonary status of surgical patients; exercise is used in postoperative therapy. That is, there is no reference to hyperventilation following exertion.

Solution EXERTION/SEQUELAE and EXERTION/ADVERSE EFFECTS are the only relationships relevant to the request. They would prevent the false coordination mentioned above, in which the relationship is that of EXERTION/THERAPEUTIC USE (the term EXERCISE THERAPY is correct here).

#462

Request Cerebral amyloidosis.

Formulation AMYLOIDOSIS and CEREBRAL SCLEROSIS, DIFFUSE

<u>Unwanted articles</u> Rectal biopsy: no direct relation between the two terms.

Solution There appears to be no simple way to avoid this type of false coordination by the conventional use of subheadings. On the other hand, the coordination of AMYLOIDOSIS with a brain disease term, to express "cerebral amyloidosis", is a searching strategy of doubtful value.

#457

Request Neurological complications of kidney diseases.

Formulation UREMIA and MYOSITIS

<u>Unwanted articles</u> Serum calcium measurements in various diseases, including uremia and polymyositis (the two conditions do not refer to the same patient).

Solution UREMIA/COMPLICATIONS and MYOSITIS/COMPLICATIONS

or

UREMIA/COMPLICATIONS and MYOSITIS/ETIOLOGY ("SEQUELAE" would be preferable).

#466

Request Lung transplantation

Formulation LUNG and TRANSPLANTATION

<u>Unwanted articles</u> Distribution of colloidal gold in rats with transplanted Guerin tumor (i.e., no lung transplantation).

Solution Use of existing subheading TRANSPLANTATION. LUNG/TRANSPLANTATION would have avoided this false coordination.

#473

Request Neurological and muscular complications of chickenpox or varicella. Infections precipitating myasthenia gravis.

Formulation MYASTHENIA GRAVIS and infection terms

CHICKEN POX VARICELLA-ZOSTER VIRUS

and

neurological disease terms

<u>Unwanted articles</u> The terms are not related (i.e., do not refer to the same patient).

Solution

CHICKEN POX/SEQUELAE and neurological disease term/ETIOLOGY

infection term/SEQUELAE and MYASTHENIA GRAVIS/ETIOLOGY

A problem still remains. Coordination of a virus term <u>and</u> MYASTHENIA GRAVIS retrieves articles in which the two terms are essentially unrelated. Assuming that a subheading SEQUELAE would be out of place appended to a virus term, the combination MYASTHENIA GRAVIS/ETIOLOGY <u>and</u> a virus term would still tend to ensure that the virus is an etiological factor in the disease. The existing subheading COMPLICATIONS can be used in place of SEQUELAE but is less precise.

#474

Request Intestinal atony or ileus following vagotomy and pyloroplasty.

Formulation PYLORIC STENOSIS and SURGERY, OPERATIVE POSTOPERATIVE COMPLICATIONS

and INTESTINAL OBSTRUCTION. OR

VAGOTOMY and INTESTINAL OBSTRUCTION

<u>Unwanted articles</u> Case series in which the pyloric stenosis or vagotomy and the intestinal obstruction refer to different patients.

Solution 1. VAGOTOMY/ADVERSE EFFECTS and INTESTINAL OBSTRUCTION/ETIOLOGY

2. PYLORIC STENOSIS/SURGERY and SURGERY, OPERATIVE/ADVERSE EFFECTS

and INTESTINAL OBSTRUCTION/ETIOLOGY

This latter formulation is rather cumbersome. The problem could better be solved by means of a new subheading POSTOPERATIVE COMPLICATIONS.

PYLORIC STENOSIS/POSTOPERATIVE COMPLICATIONS <u>and</u> INTESTINAL OBSTRUC-TION/ETIOLOGY would tend to prevent the false coordinations noted above.

*‡*478

Request Experimental wound healing of skin, gingiva, or intestine.

Formulation DUODENUM and WOUND HEALING

Unwanted articles Not duodenal wound healing but healing of the Ampulla of Vater after sphincterotomy, with and without suture of the duodenal mucosa.

Solution DUODENUM/INJURIES and WOUND HEALING would prevent this type of false coordination.

#480

<u>Request</u> Instantaneous readoff of diagnosis or pattern of electrocardiograms by computer.

Formulation AUTOMATIC DATA PROCESSING and ELECTROCARDIOGRAPHY

<u>Unwanted articles</u> Electronics in gynecology and obstetrics: fetal heart recording and ADP of obstetrical records.

Solution ELECTROCARDIOGRAPHY/INSTRUMENTATION and AUTOMATIC DATA PROCESSING

#484

Request Complications following the use of oral contraceptives.

Formulation MEDROXYPROGESTERONE and STERILITY, FEMALE

<u>Unwanted articles</u> Use of provera to delay implantation in rats. Phenylethylamines were tested to determine their antifertility effects.

Solution MEDROXYPROGESTERONE/ADVERSE EFFECTS

#489

Request Adreno-hepatic fusion (i.e., adrenal gland fused with the overlying liver)

Formulation ADRENAL GLANDS/ABNORMALITIES and LIVER/ABNORMALITIES

<u>Unwanted articles</u> Liver abnormalities and adrenal abnormalities discussed separately.

Solution There appears no simple way of avoiding this by the conventional use of subheadings. This type of false coordination will occur occasionally but should be within tolerable limits. Note: this is the only example discovered in which a false coordination occurred despite the correct use of subheadings in indexing and searching.

#513

Request Effect of irradiation on the infectivity and structure of viruses.

Formulation ONCOGENIC VIRUSES and RADIATION GENETICS

HERPESVIRUS INFECTIONS and ULTRAVIOLET RAYS

 on cancer etiology in which radiation and viruses are not directly related. The latter discusses a vaccine, inactivated by ultraviolet, used to protect against herpetic virus.

Solution 1. ONCOGENIC VIRUSES/RADIATION EFFECTS

2. The combination HERPESVIRUS INFECTIONS and ULTRAVIOLET RAYS was presumably included in the search formulation to retrieve articles relating to effect of ultraviolet on infectivity by herpesvirus, where the indexer has used the term HERPESVIRUS INFECTIONS and ULTRAVIOLET RAYS. There seems no good way of preventing a false coordination here (unless, of course, the subheading RADIATION EFFECTS is made applicable to infection terms, but this would conflict with the heading RADIOTHERAPY). Reliance on HERPES VIRUS/RADIATION EFFECTS would have prevented this failure.

INCORRECT TERM RELATIONSHIPS

#240

Request "Radiation kidney"

Formulation RADIATION INJURY and NEPHROBLASTOMA

<u>Unwanted articles</u> Not radiation-induced nephroblastoma but therapeutic use of radiation following nephrectomy.

Solution RADIATION INJURY/SEQUELAE and NEPHROBLASTOMA/ETIOLOGY

#249

Request Primary tumors or cysts of the heart, pericardium, and major blood vessels.

Formulation NEOPLASM RADIOTHERAPY and VENA CAVA, SUPERIOR

Unwanted articles Not radiotherapy of neoplasms of vena cava, but vena caval syndrome resulting from neoplasms of the lung.

Solution HEART NEOPLASMS/RADIOTHERAPY

#260

Request Reticuloendotheliosis of the retina or brain

Formulation SARCOMA, RETICULUM CELL and BRAIN DISEASES

Unwanted articles Reticulum cell sarcoma, with encephalopathy.

Solution There seems no convenient way of preventing this failure by use of subheadings. However, the coordination of two disease terms to express "reticuloendotheliosis of the brain" is a strategy of doubtful value.

#304

Request Effect of administration of chloramphenicol to pregnant

female during first trimester.

Formulation CHLORAMPHENICOL and AMNION

or PREGNANCY COMPLICATIONS

<u>Unwanted articles</u> 1. Antibiotics in the tissue culture of human amnion (not adverse effects of chloramphenicol). 2. Chloramphenicol used therapeutically in a case of attempted abortion.

Solution CHLORAMPHENICOL/ADVERSE EFFECTS

#452

Request Complications (i.e., sequelae) of pancreatitis

Formulation PANCREATITIS and POSTOPERATIVE COMPLICATIONS

<u>or</u> CHOLELITHIASIS

<u>Unwanted articles</u> Cases of postoperative pancreatitis (not postoperative complications following pancreatitis). Cases of pancreatitis and cholelithiasis in the same patient with no evidence of a relationship between the two. Cases of gallstones causing pancreatitis (i.e., the reverse relationship to the request).

Solution PANCREATITIS/SEQUELAE and POSTOPERATIVE COMPLICATIONS

or
CHOLELITHIASIS/ETIOLOGY

#457

Request Neurological complications of kidney diseases.

Formulation AMINOACIDURIA, RENAL HEADACHE

or
HYPERTENSION, RENAL COMA

or
NEPHROSIS and or
NEPHRITIS DEPRESSION

NEPHRITIS NEUROLOGIC

MANIFESTATIONS

<u>Unwanted articles</u> 1. The neurological manifestations result from drug therapy or diagnostic procedure and not directly from the kidney disease. 2. Renal aminoaciduria in patients with cerebral disease, not kidney failure leading to cerebral disease.

Solution Kidney disease term/SEQUELAE

Request Cerebral amyloidosis

Formulation AMYLOIDOSIS and CEREBRAL HEMORRHAGE

Unwanted articles Not amyloidosis of the brain, but an autopsy report on a case of macroglobulinemia with amyloid degeneration. The patient died of cerebral hemorrhage.

Solution There is no simple way of avoiding this failure by means of subheadings. However, as noted under #260, the coordination of two disease terms to express site of disease is a strategy of doubtful validity.

#473

Request Infections precipitating myasthenia gravis

Formulation MYASTHENIA GRAVIS and PITYRIASIS

PNEUMONIA

Unwanted articles The two conditions co-exist but there is no suggestion that the infection leads to myasthenia gravis.

Solution PNEUMONIA/SEQUELAE and MYASTHENIA GRAVIS/ETIOLOGY

#474

Request Intestinal atomy or ileus following vagotomy or pyloroplasty.

PYLORIC STENOSIS and SURGERY, OPERATIVE Formulation

> and INTESTINAL or

OBSTRUCTION

POSTOPERATIVE COMPLICATIONS

OR VAGOTOMY and GASTROINTESTINAL MOTILITY

1. Cholelithiasis causing pyloric stenosis. Unwanted articles 2. Pyloric stenosis and intestinal obstruction in patients following ingestion of chemical substances. (In neither of the above cases does surgery lead to intestinal obstruction). 3. Use of segments of the jejunum, together with vagotomy, in treatment of disabling post-gastrectomy symptoms; vagotomy does not lead to ileus or atony.

1. PYLORIC STENOSIS/SURGERY and SURGERY, OPERATIVE/ADVERSE EFFECTS and INTESTINAL OBSTRUCTION/ETIOLOGY

or

PYLORIC STENOSIS/POSTOPERATIVE COMPLICATIONS and INTESTINAL OBSTRUCTION/ETIOLOGY

(see discussion #474 under "false coordinations").

2. VAGOTOMY/ADVERSE EFFECTS \underline{and} GASTROINTESTINAL MOTILITY

#481

<u>Request</u> Statistical correlation between the American Society of Anesthesiologists' physical status category and the intra- or postoperative death rate.

Formulation ANESTHESIA and MORTALITY

Unwanted articles In an evaluation of treatment of 2000 cases of massively bleeding gastroduodenal ulcers, certain general factors (e.g., medications, vitamins, diet, anesthesia, surgical procedure) influencing incidence, type and outcome of patients are discussed. There is no direct discussion of anesthetic death.

Solution ANESTHESIA/MORTALITY

#484

Request Complications following the use of oral contraceptives.

Formulation CONTRACEPTIVES, ORAL and STERILITY, FEMALE

MENSTRUATION DISORDERS

<u>Unwanted articles</u> Therapeutic use of estrogens in treatment of sterility and menstruation disorders.

Solution CONTRACEPTIVES, ORAL/ADVERSE EFFECTS, whereas the unwanted items would be indexed CONTRACEPTIVES, ORAL/THERAPEUTIC USE.

#513

Request Effect of irradiation on the infectivity and structure of viruses.

Formulation RADIATION and PLANT VIRUSES

<u>Unwanted articles</u> Not the effect of radiation on viruses, but x-ray scattering used as an investigative tool.

Solution PLANT VIRUSES/RADIATION EFFECTS

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