

<b>Subject Coverage</b>	<ul style="list-style-type: none"> <li>• Agriculture</li> <li>• Anatomy</li> <li>• Behaviour</li> <li>• Biochemistry</li> <li>• Bioengineering</li> <li>• Biophysics</li> <li>• Biotechnology</li> <li>• Botany</li> <li>• Cell Biology</li> </ul>	<ul style="list-style-type: none"> <li>• Environmental Biology</li> <li>• Experimental Clinical Medicine</li> <li>• Genetics</li> <li>• Immunology</li> <li>• Microbiology</li> <li>• Pathology</li> <li>• Pharmacology</li> <li>• Physiology</li> <li>• Toxicology</li> </ul>
<b>File Type</b>	Bibliographic	
<b>Features</b>	Thesaurus      Concept Codes (/CC), Controlled Term (/CT), Geographic Term (/GT), Organism (/ORGN) <a href="#">Alerts (SDIs)</a> Weekly or biweekly (Weekly is the default) <a href="#">CAS Registry Numbers®</a> <input checked="" type="checkbox"/> Page Images <input type="checkbox"/> STN AnaVist <input type="checkbox"/> <a href="#">Keep &amp; Share</a> <input checked="" type="checkbox"/> <a href="#">SLART</a> <input checked="" type="checkbox"/> <a href="#">STN Easy</a> <input checked="" type="checkbox"/> Learning Database <input type="checkbox"/> Structures <input type="checkbox"/> STN Viewer <input type="checkbox"/>	
<b>Record Content</b>	<ul style="list-style-type: none"> <li>• Worldwide research on all biological and biomedical topics</li> <li>• Bibliographic data, indexing information, and abstracts for most references.</li> </ul>	
<b>File Size</b>	More than 21.4 million records (10/11)	
<b>Coverage</b>	1926-present	
<b>Updates</b>	Weekly	
<b>Language</b>	English	
<b>Database Producer</b>	Thomson Reuters The Johnson Building 77 Hatton Garden London, EC1N 8JS United Kingdom Phone:            +44 20 7433 4000 Fax:                +44 20 7433 4001 Helpdesk:        +44 20 7433 4999 <a href="http://science.thomsonreuters.com">http://science.thomsonreuters.com</a>  Thomson Reuters 1500 Spring Garden Street, Fourth Floor Philadelphia, PA 19130 USA Phone: 800 336 4474 Fax:     215 386 2911 <a href="http://science.thomsonreuters.com">http://science.thomsonreuters.com</a>	

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**Sources**

- Journals (more than 5,000)
  - U.S. Patents (1942-1968, 1986-1989, 1994-present)
  - Reports
  - Meetings (Abstracts and Papers)
  - Reviews
  - Books
- 

**User Aids**

- Online Helps (HELP DIRECTORY lists all help messages available)
  - STNGUIDE
- 

**Clusters**

- AGRICULTURE
  - AUTHORS
  - ALLBIB
  - BIOSCIENCE
  - CASRNS
  - CORPSOURCE
  - ENVIRONMENT
  - FOOD
  - FORMULATIONS
  - HEALTH
  - MEDICINE
  - PHARMACOLOGY
  - TOXICOLOGY
- [STN Database Clusters](#) information (PDF).
- 

**Pricing**

See the [STN Price List](#) or enter HELP COST at an arrow prompt (=>).

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## Search and Display Field Codes

Fields that allow left truncation are indicated by an asterisk (\*)

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index* (contains single words from the abstract (AB), biosystematic codes (BC), chemical name (CN), controlled term (CT), gene name (GEN), geographic term (GT), organism (ORGN), supplementary term (ST), and title (TI) fields, as well as CAS Registry Numbers (RN))	None (or /BI)	S PITUITARY S 50-78-2 S ?ASSAY? S C PEPTIDE S L1 AND NONHUMAN VERTEBRATES S A431 CELL LINE S BONE (S) DENSITY S RODENTIA	AB, GT, IT, ORGN, RN, TI
Abstract*	/AB	S (BONE (S) DENSITY)/AB S ?ASSAY?/AB	AB
Accession Number	/AN	S 1992:100137/AN	AN
Author (includes Inventor names)	/AU	S GALLO R?/AU S (SCINTO L? (S) EDITOR)/AU S REPRINT AUTHOR/AU (S) GALLO R?/AU	AU
Biosystematic Code (1) Superterm (2)	/BC	S 75326/BC S *75326/BC S HUMANS/BC AND 57-88-5	ORGN
Biosystematic Code Range (3)	/BCR	S 35100-35200/BCR	ORGN
Chemical Name	/CN	S C PEPTIDE/CN	RN
Classification Code (Concept Code) (1) (includes codes and text)	/CC	S 38506/CC S 385/CC S CHEMOTHERAPY?/CC AND CIS PLATIN S CHEMOTHERAPY - ANTIVIRAL?/CC	CC
Concept Code Range (3)	/CCR	S 25502-25554/CCR	CC
Controlled Term (1, 4)	/CT	S VETERINARY MEDICINE/CT AND HORSE? S CHEMISTRY/CT (L) MAJOR CONCEPTS/FA S MYOCARDIAL INFARCTION/CT S C14.280.647.500./CT	IT
Controlled Word	/CW	S ANTIULCER/CW	IT
Corporate Source (includes Patent Assignee) (5, 6)	/CS	S MONSANTO/CS S MONSANTO UK/CS S A ALLEN PURDUE/CS	CS
Document Number	/DN	S BA94:18925/DN S PREV199294018025/DN	DN
Document Type (code and text)	/DT (or /TC)	S C/DT AND L7 S CONFERENCE/DT AND L7	DT, TC
E-mail Address	/EML	S A-ALLEN@FNR.PURDUE.EDU/EML	EML, CS
Entry Date (3)	/ED	S L1 AND ED>20030226	ED
Field Availability (7)	/FA	S AB/FA AND 7440-23-5 S RN/FA AND L1 S MALARIA (L) DISEASES/FA S ANALYTICAL METHOD (L) IT.MQ/FA	Not displayed
File Segment	/FS	S BR/FS AND 57-43-2	FS
Gene Name	/GEN	S HUMAN DI GENE/GEN	GEN
Geographic Term (1)	/GT	S TURKEY/GT S (LONDON (S) ONTARIO)/GT	GT
Index Term (8)	/IT	S GENETIC ENGINEERING/IT	IT
International Standard (Document) Number (contains CODEN, ISSN, ISBN)	/ISN	S 983-40069-0-X/ISN S 0090-8258/ISN S JOCDAE/ISN	ISN, SO
Inventor Name (6)	/IN	S ABBOTT S D/IN	AU
Journal Title (contains full and abbreviated title)	/JT	S J ANAT/JT S JOURNAL OF ANATOMY/JT	JT, SO
Language (code and text)	/LA	S EN/LA AND L4 S ENGLISH/LA AND L4	LA

## Search and Display Field Codes (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Meeting Date <b>(3)</b>	/MD	S MD>20030507	MD, SO
Meeting Location	/ML	S ORLANDO/ML	ML, SO
Meeting Organizer <b>(5)</b>	/MO	S ONCOLOGISTS/MO	MO, SO
Meeting Title (includes all meeting information)	/MT	S 45TH ANNUAL/MT	MT, SO
Meeting Year <b>(3)</b>	/MY	S MY>=2003	MY, SO
Organism <b>(1)</b>	/ORGN	S RODENTIA/ORGN AND L1	ORGN
Superterms <b>(2)</b>		S HUMANS/ORGN AND L1	
Other Source	/OS	S GENBANK/OS	OS
		S AJ422244/OS	
National Patent Classification <b>(6)</b>	/NCL	S 428571000/NCL	NCL
Patent Country <b>(6)</b>	/PC	S US/PC AND L1	PC, PI
	(or /PCS)		
Patent Number <b>(6,10)</b>	/PN	S US4543948/PN	PI
	(or /PATS)		
Publication Date <b>(3)</b>	/PD	S PD>=20030101	PD, PI, SO
Publication Year <b>(3)</b>	/PY	S 1997/PY	PI, PY, SO
Source (contains CODEN, ISBN, ISSN, publication title and date, book publisher and distributor information, meeting information, and collation)	/SO	S DCTODJ/SO	SO
		S FED PROC/SO	
		S 0022-3549/SO	
		S 0-931146-19-4/SO	
Supplementary Term <b>(5, 9)</b>	/ST	S GENBANK -95567/ST	IT
Title	/TI	S ULCER/TI	TI
		S LIQUID TRANSPORT?/TI	
Uniform Resource Locator	/URL	S "HTTP://WWW.USPTO.GOV/WEB/MENU/PATDATA.HTML"/URL	URL
Update Date <b>(3)</b>	/UP	S UP>20030700	ED

- (1)** An online thesaurus is available in this field.
- (2)** Enter HELP STERMS at an arrow prompt in the file for a list of superterms.
- (3)** Numeric search field that may be searched using numeric operators or ranges.
- (4)** The Controlled Term (/CT) search field contains bound phrases from the following IT display subfields: Major Concepts (from 1969); Chemicals & Biochemicals (from 1969); Diseases (from 1998); Parts, Structures, and Systems (from 1998); and Time (from 1993), as well as MeSH terms for diseases, when available. To restrict /CT terms to an IT subfield, link the /CT terms to the subfield heading or the subfield code in /FA, e.g., S CHEMISTRY/CT (L) MAJOR CONCEPTS/FA.
- (5)** Search with implied (S) proximity is available in this field.
- (6)** Only U.S. patents published between 1946 and 1989 and since 1995 are available.
- (7)** Use the FA field to link terms to IT display subfields, e.g., S MALARIA (L) DISEASES/FA. Enter HELP FA at an arrow prompt to see a list of FA terms and examples.
- (8)** The /IT search field contains single words from all ORGN display subfields and their headings as well as single words from the CN, RN, CT, GT, and ST fields, and MeSH terms for diseases, when available.
- (9)** The /ST search field contains single words and bound phrases from the following IT display subfields: Methods and Equipment; Sequence Data; and Miscellaneous Descriptors.
- (10)** Either STN or Derwent format may be used.

## Limiting Search Codes

Only an answer set created in BIOSIS may be limited.

Search Field Name	Search Code (1)	Search Examples
Animal Subject English-Language Records Female Subject Human Subject Male Subject	/ANIMAL /ENGLISH /FEMALE /HUMAN /MALE	S L4/ANIMAL S L1/HUMAN,ENG (2) S L3/FEMALE S L1/HUMAN S L2/MALE

(1) Field codes may be abbreviated to the first three letters.

(2) Answer sets may be limited to more than one area.

## Thesaurus Fields

### Concept Codes (/CC) Field

All Relationship Codes can be used with both the SEARCH and EXPAND command in the Concept Codes (/CC) thesaurus.

Code	Content	Example
ALL AUTO (1) KT	All associated terms (SELF, NOTE, UF, USE) Automatic Relationship Code (SELF, USE) Keyword Terms (multiword phrases containing the term) (SELF, KT)	E 38504+ALL/CC E GENETICS - ANIMAL/CC E FOOD+KT/CC
NOTE PFT UF USE	Scope Notes (SELF, NOTE) Preferred and Forbidden Terms (SELF, UF, USE) Used for Terms (Forbidden Terms) (SELF, UF) Used Terms (Preferred Terms) (SELF, USE)	E 13506+NOTE/CC E LABORATORY ANIMALS+PFT/CC E 13508+UF/CC E FOOD TECHNOLOGY - SUGAR+USE/CC

(1) By default, automatic relationship is SET OFF. When SET REL is ON, the result of EXPAND without any relationship code is the same as described for AUTO.

### Field Descriptors for the /CC Thesaurus

Code	Description
→	Self
KT	Keyword Term
NOTE	Scope Note
UF	Used For Term
USE	Used Term

**BIOSIS****Controlled Term (/CT) Field**

All Relationship Codes can be used with both the SEARCH and EXPAND command in the Controlled Term (/CT) thesaurus.

Code	Content	Example
ALL	All associated terms (BT, SELF, NOTE, NT, RT)	E ANIMAL HUSBANDRY+ALL/CT
BT	Broader Terms (BT, SELF)	E ALLERGY+BT/CT
HIE	Hierarchy (Broader and Narrower Terms) (BT, SELF, NT)	E HUMAN MEDICINE+HIE/CT
KT	Keyword Terms (multiword phrases containing the term) (SELF, KT)	E DENTAL+KT/CT
NOTE	Scope Notes (SELF, NOTE)	E DENTAL MEDICINE+NOTE/CT
NT	Narrower Terms (SELF, NT)	E AGRICULTURE+NT/CT
RT	Related Terms (SELF, RT)	E TOXICOLOGY+RT/CT
STD	Standard (Broader, Narrower, and Related Terms) (BT, SELF, NT, RT)	E CLINICAL IMMUNOLOGY+STD/CT

**Field Descriptors for the /CT Thesaurus**

Code	Description
→	Self
BT	Broader Term
KT	Keyword Term
NOTE	Scope Note
NT	Narrower Term
RT	Related Term

**Geographic Term (/GT) thesaurus**

All Relationship Codes can be used with both the SEARCH and EXPAND command in the Geographic Term (/GT) thesaurus.

Code	Content	Example
ALL	All associated terms (BT, SELF, UF, USE, NT)	E TANZANIA+ALL/GT
AUTO (1)	Automatic Relationship Code (SELF, USE)	E GOLD COAST+AUTO/GT
BT	Broader Terms (BT, SELF)	E POLAND+BT/GT
KT	Keyword Terms (multiword phrases containing the term) (SELF, KT)	E GERMANY+KT/GT
NT	Narrower Terms (SELF, NT)	E AFRICA+NT/GT
PFT	Preferred and Forbidden Terms (SELF, UF, USE)	E GOLD COAST+PFT/GT
STD	Standard (Broader and Narrower Terms) (BT, SELF, NT)	E TANZANIA+STD/GT
UF	Used For Terms (Forbidden Terms) (SELF, UF)	E IVORY COAST+UF/GT
USE	Used Terms (Preferred Terms) (SELF, USE)	E GOLD COAST+USE/GT

(1) Automatic relationship is SET OFF. When SET REL is ON, the result of EXPAND without any relationship code is the same as described for AUTO.

## Field Descriptors for the /GT Thesaurus

Code	Description
→	Self
BT	Broader Term
KT	Keyword Term
NT	Narrower Term
UF	Used For Term
USE	Used Term

## Organism (/ORGN) thesaurus

All Relationship Codes can be used with both the SEARCH and EXPAND command in the Organism (/ORGN) thesaurus (1).

Code	Content	Example
ALL	All associated terms (BT, SELF, UF, USE, NT, RT)	E RODENTIA+ALL/ORGN
AUTO (2)	Automatic Relationship Code (SELF, USE)	E 86265/ORGN
BT	Broader Terms (BT, SELF)	E BOVIDAE+BT/ORGN
HIE	Hierarchy (BT, SELF, NT)	E PISCES+HIE/ORGN
KT	Keyword Terms (multiword phrases containing the term) (SELF, KT)	E BACTERIA+KT/ORGN
NT	Narrower Terms (SELF, NT)	E AMPHIBIA+NT/ORGN
PFT	Preferred and Forbidden Terms (SELF, UF, USE)	E 85306+USE/ORGN
RT	Related Terms (SELF, RT)	E RODENTS+RT/ORGN
STD	Standard (Broader, Narrower, and Related Terms) (BT, SELF, NT, RT)	E AVES+STD/ORGN
UF	Used For Terms (Forbidden Terms) (SELF, UF)	E SALIENTIA+UF/ORGN
USE	Used Terms (Preferred Terms) (SELF, USE)	E BC85201+USE/ORGN

(1) Either the /ORGN or the /BC (Biosystematic Code) field code may be used in this thesaurus.

(2) Automatic relationship is SET OFF. When SET REL is ON, the result of EXPAND without any relationship code is the same as described for AUTO.

## Field Descriptors for the /ORGN Thesaurus

Code	Description
→	Self
BT	Broader Term
KT	Keyword Term
NT	Narrower Term
RT	Related Term
UF	Used For Term
USE	Used Term

**BIOSIS****DISPLAY and PRINT Formats**

Any combination of formats may be used to display or print answers. Multiple codes must be separated by spaces or commas, e.g., D L1 1-5 BIB ABS; D L1 TI, AB. The fields are displayed or printed in the order specified.

Hit-term highlighting is available in all fields except MY and PY. Highlighting must be ON during search to use the HIT, HITIND, KWIC, and OCC formats.

<b>Format</b>	<b>Content</b>	<b>Examples</b>
AB	Abstract	D AB L4 1-5
AN	Accession Number	D AN 1-15
AU	Author (includes Inventor)	D AU 5 6 8-10
CC	Classification Code (Concept Code)	D CC L45 2-8
CS	Corporate Source (includes Patent Assignee)	D CS L11
CT (1)	Controlled Term	D CT
DN	Document Number	D DN 1-100 L33
DT (TC)	Document Type	D DT 4-18 L3
ED (UP)	Entry Date and Update Date	D ED
EML	E-mail address	D EML
FS	File Segment	D FS
GEN	Gene Name	D GEN
GT	Geographic Term	D GT 2-3
IN	Inventor	D IN
ISN (2)	International Standard (Document) Number	D ISN
IT (3)	Index Term	D IT 1-5
JT (2)	Journal Title	D JT
JTA (2)	Journal Title, Abbreviated	D JTA
JTF (2)	Journal Title, Full	D JTF
LA	Language	D LA 4 6 9 10
MD (2)	Meeting Date	D MD
ML (2)	Meeting Location	D ML
MO (2)	Meeting Organizer	D MO
MT (2)	Meeting Title	D MT L3
MY (2)	Meeting Year	D MY
NCL (2)	Patent Classification	D NCL 1-7
ORGN (BC)	Organism Information	D ORGN
OS	Other Source	D OS
PC (2)	Patent Country	D PC
PD (2)	Publication Date	D PD
PI (PN) (7)	Patent Information	D PI L1
PY (2)	Publication Year	D PY
RN (CN)	CAS Registry Number and Chemical Name	D RN 1-15 L2
SO	Source	D 5 13 SO
ST (4,5)	Supplementary Term	D ST 1-17
TI (5)	Title	D TI TOTAL
URL (2)	Uniform Resource Locator	D URL

**DISPLAY and PRINT Formats (cont'd)**

Format	Content	Examples
ABS	AB	D ABS 1-10
ALL	AN, DN, TI, AU, CS, PI, SO, DT, FS, LA, OS, ED, AB, NCL, CC, IT, GT, ORGN, RN, GEN	D ALL 5-10
BIB	AN, DN, TI, AU, CS, PI, SO, DT, FS, LA, OS, ED, (BIB is the default)	D BIB 3 L7 D
CBIB	AN, compressed bibliographic information	D CBIB
DALL	ALL, delimited for post-processing	D ALL
IABS	ABS, indented with text label	D IABS
IALL	ALL, indented with text labels	D IALL
IBIB	BIB, indented with text labels	D IBIB
IIND	IND, indented with text labels	D IIND
IND	NCL, CC, IT, GT, ORGN, RN, GEN	D IND
SCAN (5,6)	TI, ST (random display without answer numbers)	D SCAN
HIT	Fields containing hit search terms	D HIT 5-10
HITIND	IND fields containing hit search terms	D HITIND
KWIC	Hit terms plus 20 words on either side (Key-Word-In-Context)	D KWIC 5-10 NOH
OCC (5)	Number of occurrences of hit terms and fields in which they occur	D OCC 5-10

- (1) The CT field displays the following IT subfields: Major Concepts; Chemicals & Biochemicals; Diseases; Parts, Structures, and Systems; and Time.
- (2) Custom display only.
- (3) The IT field displays all of the IT subfields as well as ORGN, GEN, GT, and RN fields.
- (4) The ST field displays the following IT subfields: Methods and Equipment; Sequence Data; and Miscellaneous Descriptors.
- (5) No online display fee for this format.
- (6) SCAN must be entered on the DISPLAY command line, i.e., D SCAN or DISPLAY SCAN
- (7) Patent numbers are available in STN and Derwent format. The format for DISPLAY, PRINT, SELECT, and SORT is set using the SET PATENT command. STN is the default format. Enter SET PAT DERWENT to change to the Derwent format. To reset to the STN format, enter SET PAT STN.

**SELECT, ANALYZE, and SORT Fields**

The SELECT command is used to create E-numbers or an L-number containing terms taken from the specified field in an answer set.

The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphabetic or numeric order of the specified field(s).

Field Name	Field Code	ANALYZE SELECT (1)	SORT
Abstract	AB	Y	N
Accession Number	AN	Y	N
Author	AU	Y	Y
Biosystematic Code	BC	Y	N
CAS Registry Number	RN	Y (2)	N
Chemical Names	CN	Y (3)	N
	NAME	Y (3,4)	N
Chemical Names and Registry Numbers	CHEM	Y (5)	N
Citation	CIT	Y (3,6)	N
CODEN	CODEN	N	Y
Classification Code (Concept Code)	CC	Y	N
Controlled Term	CT	Y	N
Corporate Source (Patent Assignee)	CS	Y	Y
Document Number	DN	Y	Y
Document Type	DT	Y	Y
E-mail Address	EML	Y	Y
File Segment	FS	Y	Y

**SELECT, ANALYZE, and SORT Fields (cont'd)**

Field Name	Field Code	ANALYZE SELECT (1)	SORT
GenBank Number	GENBANK	Y (2)	N
Gene Name	GEN	Y	N
Geographic Term	GT	Y	Y
Index Term	IT	Y	N
International Standard Book Number	ISBN	N	Y
International Standard (Document) Number	ISN	Y (7)	N
International Standard Serial Number	ISSN	N	Y
Inventor	IN	Y	Y
Journal Title	JT	Y	Y
Journal Title, Abbreviated	JTA	Y (12)	Y
Journal Title, Full	JTF	Y (12)	Y
Language	LA	Y	Y
Meeting Date	MD	Y	Y
Meeting Location	ML	Y	Y
Meeting Organizer	MO	Y	Y
Meeting Title	MT	Y	Y
Meeting Year	MY	Y (3)	Y
National Patent Classification	NCL	Y	Y
Occurrence Count of Hit Search Terms	OCC	N	Y
Organism	ORGN	Y	N
Other Source	OS	Y	Y
File dPatent Country	PC	Y	Y
Patent Countries	PCS	Y (8)	Y
Patent Information	PI	Y (3,9)	Y
Patent Number	PN	Y (3)	Y
Patent Numbers	PATS	Y (3,10)	Y
Publication Date	PD	Y	Y
Publication Year	PY	Y (3)	Y
Source	SO	Y (3,11)	N
Supplementary Term	ST	Y	N
Title	TI	Y (default)	Y
Treatment Code	TC	Y (13)	Y
Uniform Resource Locator	URL	Y	Y

- (1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT TI.
- (2) Appends /BI to the terms created by SELECT.
- (3) SELECT HIT and ANALYZE HIT are not valid with this field.
- (4) Selects or analyzes chemical name and appends /BI to the terms created by SELECT.
- (5) Selects or analyzes chemical name and CAS Registry Number and appends /BI to the terms created by SELECT.
- (6) Selects first author, publication year, volume, and first page with a truncation symbol appended and with /RE appended to the terms created by SELECT.
- (7) Selects or analyzes CODEN, ISBN, and ISSN and appends /ISN to the terms created by SELECT.
- (8) Selects or analyzes Patent Country and appends /PCS to the terms created by SELECT.
- (9) Selects or analyzes Patent Number and appends /PN to the terms created by SELECT.
- (10) Selects or analyzes Patent Number and appends /PATS to the terms created by SELECT.
- (11) Selects or analyzes CODEN and ISSN and appends /SO to the terms created by SELECT.
- (12) Appends /JT to the terms created by SELECT.
- (13) Appends /DT to the terms created by SELECT.

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## Sample Records

### DISPLAY IALL

ANSWER 1 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
ACCESSION NUMBER: 2003:421525 BIOSIS  
DOCUMENT NUMBER: PREV200300421525  
TITLE: Cholangiocarcinoma: The impact of tumor location and  
treatment strategy on outcome.  
AUTHOR(S): Heron, Dwight E. [Reprint Author]; Stein, David E.;  
Eschelman, David J.; Topham, Allan K.; Waterman, Frank M.;  
Rosato, Ernest L.; Alden, Mark; Anne, Pramila Rani  
CORPORATE SOURCE: Department of Radiation Oncology, UPMC Shadyside Hospital,  
5230 Centre Avenue, Pittsburgh, PA, 15232, USA  
SOURCE: American Journal of Clinical Oncology, (August 2003) Vol.  
26, No. 4, pp. 422-428. print.  
ISSN: 0277-3732 (ISSN print).  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 10 Sep 2003  
Last Updated on STN: 10 Sep 2003

ABSTRACT: The purpose of this study was to evaluate how the outcome of patients with extrahepatic cholangiocarcinoma (EHBC) may have been influenced by tumor location and treatment selection. The primary endpoint of this study is overall survival (OS). Between January 1983 and December 1997, 221 patients with biliary tumors were evaluated at Thomas Jefferson University Hospital. Of these, 118 fit the inclusion criteria for this study. The extent of disease was assessed by computed tomography, percutaneous transhepatic cholangiography or endoscopic retrograde cholangiopancreatography, magnetic resonance imaging, and ultrasonography. All patients had histologic confirmation of malignancy. Roux-en Y, hepaticojejunostomy, or choledochojejunostomy followed surgical resection of the primary tumor. Palliative measure (PS) included biliary catheter placement without brachytherapy or external beam irradiation (RT). RT was delivered via high-energy photons. Intraluminal brachytherapy was performed via percutaneous biliary catheterization with iridium-192 ribbon sources. Chemotherapy consisted of either intravenous 5-fluorouracil alone or in combination with doxorubicin, mitomycin C, or paclitaxel. PS consisted of metal bile duct stent placement. Median follow-up time for the entire group was 102 months and 43 months for patients who were still alive at the conclusion of the study period. Patients with proximal tumors underwent resection (n=5), surgery and RT (n=23), RT only (n=31), chemotherapy only (n=6), or PS (n=12). Patients with distal tumors were treated with surgical resection (n=17) or a combination of surgery and RT (n=13), RT only (n=6), or PS (n=4). Median survival time (MST) for all 118 patients was 22 months. The MST for patients with distal tumors was 47 months versus 17 months for those with proximal tumors. The MST has not been reached for patients with distal EHBC treated with surgical resection and postoperative RT, whereas the median survival for those treated with surgery alone is 62.5 months. However, 4 of 17 of these patients had in situ carcinoma. Six patients had distal tumors treated with RT only with a MST of 6 months. Patients with proximal tumors treated with surgery and RT had a superior OS at 5 years compared to patients treated with RT alone (24 vs. 13 months; p=0.007). There was an improved OS in patients with proximal tumors treated with surgical resection and RT compared to surgery alone (p=0.023). There is no discernible influence of chemotherapy on outcome in patients with proximal EHBC. The MST for patients treated with PS was 3.5 months. Surgery and postoperative RT appear to be better than either surgery or RT alone in patients with proximal EHBC. In patients with distal EHBC, the addition of resection and RT appears to offer an advantage, which is increasingly apparent with longer follow-up time. The prognosis remains dismal for patients treated with palliative intent.

**BIOSIS****DISPLAY IALL (cont'd)**

CONCEPT CODE: Biochemistry studies - General 10060  
 Biochemistry studies - Nucleic acids, purines and pyrimidines 10062  
 Anatomy and Histology - Surgery 11105  
 Pathology - Therapy 12512  
 Digestive system - Pathology 14006  
 Neoplasms - Pathology, clinical aspects and systemic effects 24004  
 Neoplasms - Therapeutic agents and therapy 24008  
 Gerontology 24500

INDEX TERMS: Major Concepts  
 Gastroenterology (Human Medicine, Medical Sciences);  
 Oncology (Human Medicine, Medical Sciences); Surgery (Medical Sciences)

INDEX TERMS: Diseases  
 extrahepatic cholangiocarcinoma: digestive system disease, neoplastic disease

INDEX TERMS: Chemicals & Biochemicals  
 5-fluorouracil: antineoplastic-drug; doxorubicin: antineoplastic-drug; mitomycin C: antineoplastic-drug; paclitaxel: antineoplastic-drug

INDEX TERMS: Methods & Equipment  
 Roux-en Y hepaticojejunostomy: clinical techniques, therapeutic and prophylactic techniques; biliary catheter replacement: clinical techniques; choledochojejunostomy: clinical techniques, therapeutic and prophylactic techniques; computed tomography: clinical techniques, diagnostic techniques, imaging and microscopy techniques, laboratory techniques; endoscopic retrograde cholangiopancreatography: clinical techniques, therapeutic and prophylactic techniques; external beam irradiation: clinical techniques; intraluminal brachytherapy: clinical techniques; magnetic resonance imaging: clinical techniques, diagnostic techniques, imaging and microscopy techniques, laboratory techniques; percutaneous transhepatic cholangiography: clinical techniques, diagnostic techniques; surgical resection: clinical techniques, therapeutic and prophylactic techniques; ultrasonography: clinical techniques, diagnostic techniques, imaging and microscopy techniques, laboratory techniques

INDEX TERMS: Miscellaneous Descriptors  
 median survival time; overall survival rate; tumor location

ORGANISM: Classifier  
 Hominidae 86215  
 Super Taxa  
 Primates; Mammalia; Vertebrata; Chordata; Animalia  
 Organism Name  
 human (common): aged, middle age, patient, female, male  
 Organism Superterms  
 Animals, Chordates, Humans, Mammals, Primates, Vertebrates

REGISTRY NUMBER: 51-21-8 (5-fluorouracil)  
 23214-92-8 (doxorubicin)  
 50-07-7 (mitomycin C)  
 33069-62-4 (paclitaxel)

## EXPAND in /CT Thesaurus

=&gt; E TOXICOLOGY+ALL/CT

E1 0 BT2 Major Concepts/CT  
E2 0 BT1 Major Concept Terms/CT  
E3 1133909 --> Toxicology/CT  
NOTE Studies of the chemistry, synthesis, physical  
properties, and distribution of identified toxins,  
and the undesired harmful actions of these  
chemicals on biological tissues or systems.  
NOTE For studies of environmental distribution of  
chemicals identified as toxins, see Pollution  
Assessment, Control, and Management.  
E4 918225 RT Ecology/CT  
E5 285837 RT Pollution Assessment Control and Management/CT  
E6 78845 RT Waste Management/CT  
\*\*\*\*\* END \*\*\*\*\*

## EXPAND in /ORGN Thesaurus

=&gt; E GRAMINEAE+ALL/ORGN

E1 0 BT6 Super Taxa/ORGN  
E2 0 BT5 Super Taxa Terms/ORGN  
E3 2151976 BT4 Plantae/ORGN  
E4 1526454 BT3 Spermatophyta/ORGN  
E5 1429863 BT2 Angiospermae/ORGN  
E6 460473 BT1 Monocotyledones/ORGN  
E7 358932 --> Gramineae/ORGN  
E8 358931 UF 25305/ORGN  
E9 0 UF BC25305/ORGN  
\*\*\*\*\* END \*\*\*\*\*

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