

TIES v5

<http://ties.upmc.com>



TIES v5
information extraction

WHAT IS TIES?

- TIES is a clinical text search engine containing de-identified, concept-coded surgical pathology reports, enabling researchers to search reports and order tissue.
- Contains over 3 million reports from 2003-present across all 18 UPMC hospitals.

SIMPLE AND POWERFUL QUERY INTERFACE

- Contains multiple query interfaces, allowing creation of simple to very complex queries.

Find reports with...

All of these concepts

Tip: Mouse over words to see matched concepts

Then narrow your results by...

Report Types

search report types

- All Document Types
- University of Pittsburgh
- Pathology

Patient Event 1

- All Reports
- Report Type
 - PITT Pathology
- Search Term
 - In all sections
 - Melanoma(C0025202)
- Filtered Reports

POTENTIAL SCIENTIFIC USES

- Clinical Datamining
- Biomarker Studies
- Disease Surveillance
- Tissue Banking

SEARCH FEATURES

- Finds Synonyms
- Aggregates Using Ontology
- Looks for Temporal Sequences
- Considers Negation

QUERY RESULTS

- View query results as reports or charts.

Legend: **Negated Concept** **Negated Diagnosis** General Concept **Diagnosis** Procedure **Organ**

FINAL DIAGNOSIS:
PART 1: **BREAST, RIGHT, TOTAL MASTECTOMY**
A. **INFILTRATING MIXED MAMMARY CARCINOMA, DUCTAL AND LOBULAR TYPES**
B. **THE DUCTAL CARCINOMA (MASS #3), NOS TYPE, WELL DIFFERENTIATED (TUBULES 1, MITOSIS 1, NUCLEAR GRADE 2)**
C. **INVASIVE LOBULAR CARCINOMA (MASS #1 AND MASS #2), CLASSICAL TYPE, NUCLEAR GRADE 2**
D. **THE TUMOR IS MULTIFOCAL AND IS LOCATED IN THE UPPER OUTER QUADRANT (UOQ).**
E. **THE MAXIMUM DIMENSIONAL MEASUREMENT OF 5.4 CM, 5.1 CM, AND 5.1 CM, RESPECTIVELY.**
F. **NO LYMPHOVASCULAR INVASION.**
G. **MARGINS: ANTERIOR MARGIN: 0.1 CM, SUPERIOR MARGIN: 0.1 CM, INFERIOR MARGIN: 0.1 CM, POSTERIOR MARGIN: 0.1 CM.**
H. **EXTENSIVE LOBULAR CARCINOMA IN SITU (LCIS) WITH ASSOCIATED ATYPICAL DUCTAL HYPERPLASIA (ADH).**
I. **LOWER OUTER QUADRANT (LOUQ).**
J. **LOWER INNER QUADRANT (LIQ).**
K. **UPPER INNER QUADRANT (UIQ).**
L. **SKIN AND NIPPLE UNINVOLVED.**
M. **ER POSITIVE, PR NEGATIVE, HER2 NEGATIVE.**
PART 2: **BREAST, LEFT**
A. **NO IN SITU OR INVASIVE CARCINOMA.**
B. **ATYPICAL DUCTAL HYPERPLASIA (ADH) WITH ASSOCIATED CARCINOMA IN SITU (CIS).**
PART 3: **BREAST, NEW**
A. **BENIGN BREAST TISSUE.**
PART 4: **MAMMARY LYMPHATIC TISSUE IDENTIFIED, NO TUMOR.**

Age

Age	Male Gender	Female Gender	Unspecified
0-9	0	0	0
10-19	0	0	0
20-29	0	0	0
30-39	0	0	0
40-49	0	0	0
50-59	0	0	0
60-69	0	0	0
70-79	0	0	0
80-89	0	0	0
> 90	0	0	0

SECTION SEARCHING

- Lets you search within individual sections for more precise results. For e.g., search the Final Diagnosis section to eliminate false positives due to presence of search terms in the Clinical History.

Section Types

search section types

- All Sections
- Pitt Pathology Sections
 - Clinical History
 - Comment
 - Final Diagnosis**
 - Frozen Section Diagnosis
 - Gross Description
 - Microscopic Description
 - Post-op Diagnosis
 - Pre-op Diagnosis

CASESETS AND ORDERS

- Supports case sets, order management, and honest broker features to help manage tissue and data requests.

Pathology Report 011

Pathology Report 012

Pathology Report 013

Pathology Report 014

Pathology Report 015

My Case Sets New

You may drag reports into these case sets...

- breast(4)
- Melanoma(1)

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