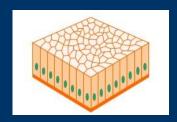
The clinical history of STS & GIST

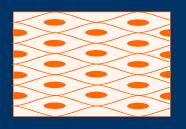


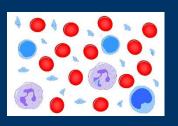
Potential conflicts of interest

	Empl	Cons	Stocks	Honor	Res (inst.)	Test	Other
Amgen Dompé		•			•		
ARIAD		•					
Bayer		•					
Blueprint Medicines		•					
Eisai					•		
Glaxo SK		•					
Lilly		•					
Merck SD		•					
Merck Serono		•					
Molmed							
Novartis		•		•			•
Pfizer		•		•	•		
PharmaMar		•		•	•		•







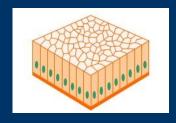




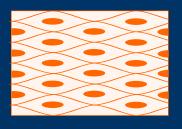
epithelial t. connective t. muscle

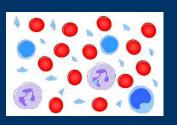
blood

nervous t.











epithelial t. connective t. muscle

blood

nervous t.

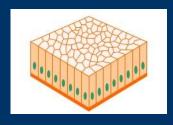
carcinomas

sarcomas

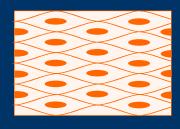
leukemia **lymphoma** myeloma

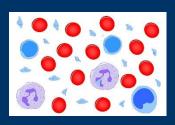
glioma

.....











epithelial t.

connective t.

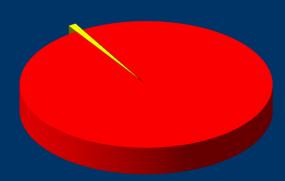
muscle

blood

nervous t.

carcinomas

sarcomas



leukemia **lymphoma** myeloma

glioma ----

incidence

benign t.

300 /

/100.000/year

incidence soft tissue sa 5 /100,000/year

benign t. 300 /100,000/year

incidence soft tissue sa 5 /100,000/year

benign t. 300 /100,000/year

sex M > F

median age soft tissue sa 60 yrs

incidence

soft tissue sa GIST

5 /100,000/year 1.5 /100,000/year

benign t.

300 /100,000/year

sex

M ≥ **F**

median age

soft tissue sa 60 yrs GIST 60 yrs

incidence

soft tissue sa GIST osteosa Ewing rhbdomyosa benign t.

5 /100,000/year 1.5 /100,000/year 0.3 /100,000/year 0.2 /100,000/year 0.1 /100,000/year 300 /100,000/year

sex

M > F

median age

soft tissue sa 60 yrs
GIST 60 yrs
osteosa 15 yrs
Ewing 15 yrs
rhabdomyosa 5 yrs

Study Quantifies Cancer Risk of Morcellation



Published: Jul 23, 2014 | Updated: Jul 24, 2014



By Charles Bankhead, Staff Writer, MedPage Today Reviewed by Robert Jasmer, MD; Associate Clinical Professor of Medicine, University of California, San Francisco and Dorothy Caputo, MA, BSN, RN, Nurse Planner





One of every 368 women treated with a power morcellator had unsuspected uterine cancer identified during or after their procedures, a review of more than 200,000 patients showed.

Medical records showed that morcellation, or the fragmentation of the uterus into smaller pieces, was performed in 36,470 cases and 99 of the women subsequently had uterine cancer diagnoses. In addition, 26 other gynecologic malignancies were identified, along with 39 uterine lesions of uncertain malignant potential and 368 cases of endometrial hyperplasia.

A review of potentially predictive factors showed that older age was the only factor associated with underlying uterine malignancy or endometrial hyperplasia, as reported in a research letter published



Action Points

. One of every 368 women treated with a power morcellator -- a device that fragments the uterus into smaller pieces -- had unsuspected uterine cancer identified during or after their procedures.



FDA NEWS RELEASE

For Immediate Release: April 17, 2014

Media Inquiries: Jennifer Rodriguez, 301-796-8232, jennifer.rodriguez@fda.hhs.gov

Consumer Inquiries: 888-INFO-FDA, dice@fda.hhs.gov

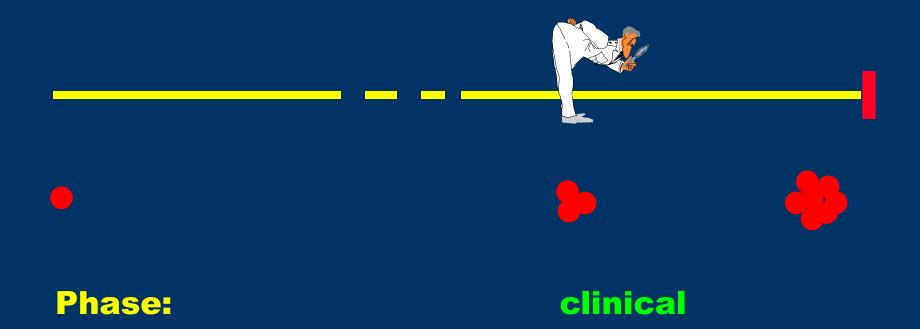
FDA discourages use of laparoscopic power morcellation for removal of uterus or uterine fibroids

Procedure poses risk of spreading undetected cancerous tissue in women with unsuspected cancer

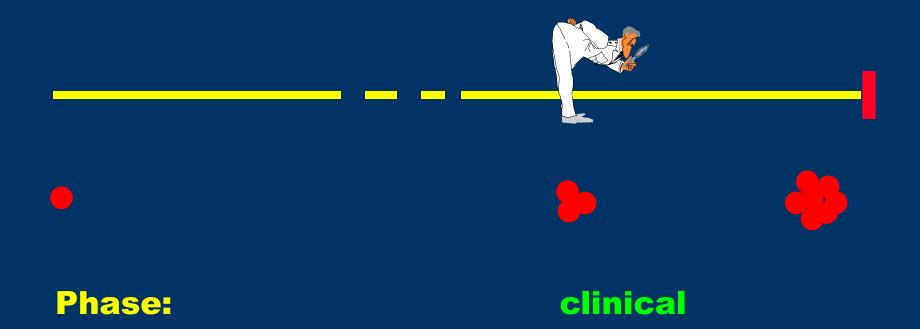
In a <u>safety communication</u> notice issued today, the U.S. Food and Drug Administration discouraged the use of laparoscopic power morcellation for the removal of the uterus (hysterectomy) or uterine fibroids (myomectomy) in women because, based on an analysis of currently available data, it poses a risk of spreading unsuspected cancerous tissue, notably uterine sarcomas, beyond the uterus.



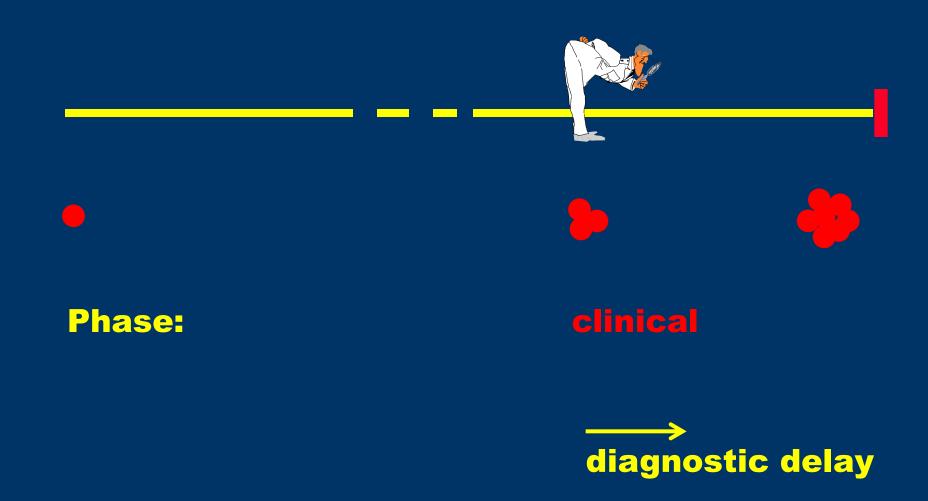
Diagnosis



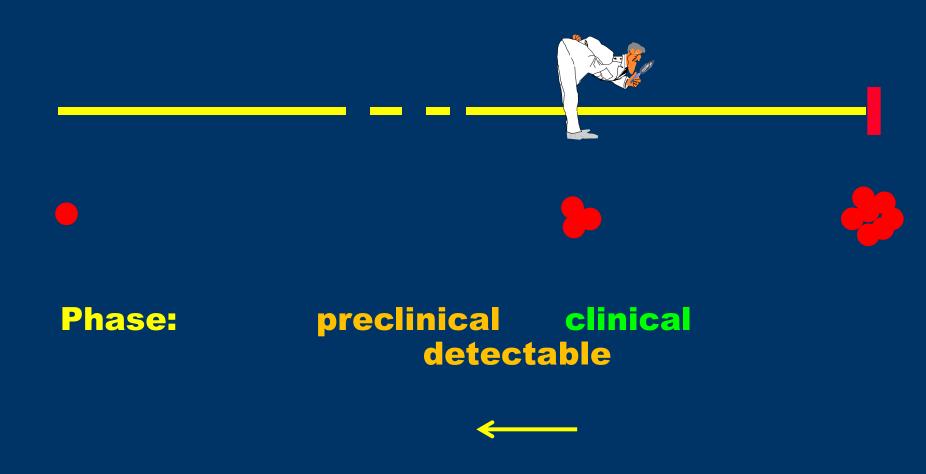
Timely diagnosis



Late diagnosis



Early diagnosis







https://sarcoma.org.uk/



New Medical Terms >

Introduction to New Medical Terms >

Contact



Whoops! procedure

Home - Whoops! procedure

Whoops! procedure

SURGERY

A UK term of art for a surgical procedure in which an inexperienced surgeon (or one inexperienced in the type of procedure on which he* is so boldly embarking) realises, after getting elbows deep in muck, that he's in tiger country, guileless, guideless and gunless.

"I would also say she, but I'm told women don't make mistakes...ever. The classic whoops surgery is that in which the operator expects—and plans for that and no more—a banal lesion that he can shell out or excise with a minimal rim of normal tissue and he finds a soft tissue sarcoma in which his impetuosity ("whoops") just screwed up the margins, making complete excision by a specialised sarcoma surgeon more difficult, while worsening the prognosis.

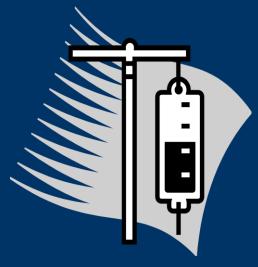
Synonym Oh my God! procedure

Reference Professor Neil Shepherd, 25.01.2011

Multidisciplinarity







Multidisciplinarity

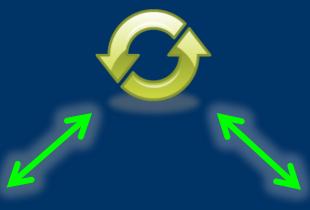




Referral & Networking...

- pathologic diagnosis
- strategic clinical decision-making
- local treatment







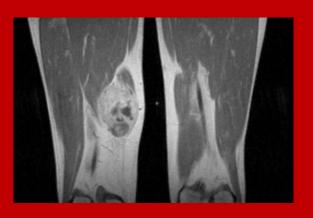








Adult soft tissue sarcomas



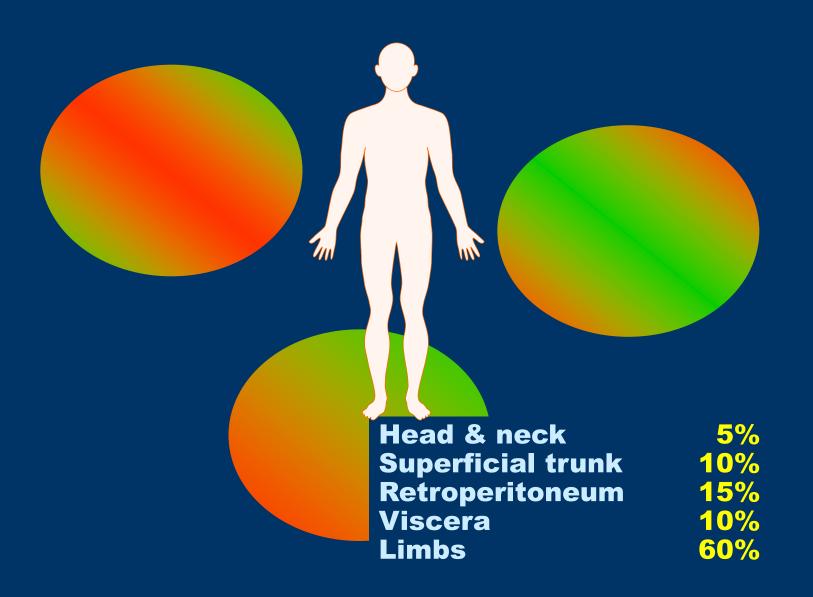


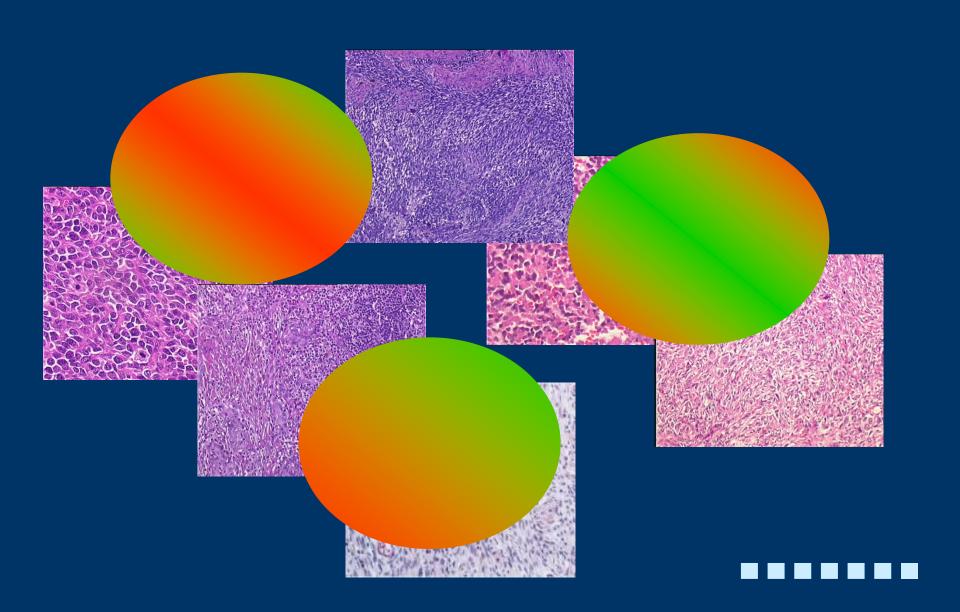












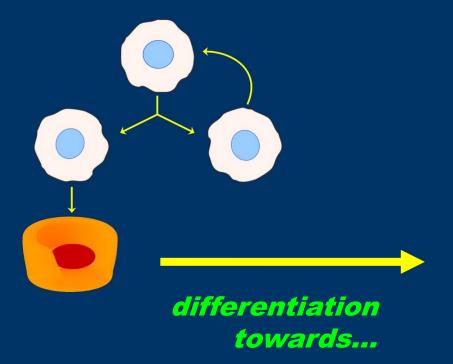


WHO classification of tumours of soft tissue^{a,b}

ADIPOCYTIC TUMOURS		Parties Province	8815/11
Benign		Solitary fibrous turnour Solitary fibrous turnour, malignant	8815/3
Lipons	8850/0	Inflammatory myofibroblastic turnour	8825/1
Lipomatosis	8850/0	Low-grade myofibroblastic sarcoma	8825/3°
Lipomatosis of nerve	8850/0	Myxoinflammatory fibroblastic sarcoma/	100000
Lipoblastomatipoblastomatosis	011888	Atypical myxoinflammatory floroblastic turnour	8811/11
Angiolipoma	8861/0	Infantile fibrosarcoma	BB14/3
Myolipoma	8890/0		
Chordroid lipoma	8862/0	Malignant	
Extra-renal angiomyolipoma	010988	Adult florosarcoma	8810/3
Extra-adrenal myelolipoma	8870/0	Myxofibrosarcoma	8811/3
Spindle cell/pleomorphic lipoma	8857/0	Low-grade fibromyxoid sarcoma	8840/3*
Hibernoma	000888	Sclerosing epithelioid fibrosercome	8840/3*
Intermediate (locally aggressive)			
Atypical lipomatous fumour/	8850/1	SO-CALLED FIBROHISTICCYTIC TUMOURS	
well differentiated liposarcoma	8850/3	Benign	
Malignant		Tenosynovial giant cell tumour	
Dedifferentiated liposercoma	8858/3	localized type	92520
Myxoid loosarcoma	8852/3	diffuse type	9252/1"
Plagmorphic liposarcoma	8854/3	malignant	9252/3
Liposarcoma, not otherwise specified	6850/3	Deep benign fibrous histocytoma	8831/0
		Intermediate (rarely metastasizing)	
FIBROBLASTIC / MYOFIBROBLASTIC TUMOURS		Plexiform fibrohistiocytic turnour	8835/1
		Giant cell turnour of soft tissues	9251/1
Benign	BAZBIO*		
Nodular fascitis		SMOOTH MUSCLE TUMOURS	
Proliferative fascilits	8828/0° 8828/0°		
Profilerative myositis	002010	Benign	88900
Myostis assificans Fibro-assagus pseudotumour of digits		Deep leiomyoma	gostati
tschaemic fascillis		Malignant	
Elastofibroma	8820/0	Leiomyosarcoma (excluding skin)	8890/3
Fibrous hamartoma of infancy	00200		
Fibronatosis colli		PERICYTIC (PERIVASCULAR) TUMOURS	
Juvenile flysine fibromatosis		Glomus tumour (and variants)	8711/0
Inclusion body fibromatosis		Glomangiomatosis	8711/1"
Fibroma of rendon sheath	8813/0	Malignant glomus tumour	8711/3
Desmoplastic fibroblastoma	88100	Myopencytoma	8824/0
Mammary-type myolibroblastoma	8825/0	Myofibroma	8824/0
Calcifying aponeurotic fibroma	8816/0*	Myofibromatosis	8824/1
Angiomyofibroblastoma	88260	Angioleomyoma	88940
Cellular angiolibronia	9160/0		
Nuchal-type foroma	8810/0	SKELETAL MUSCLE TUMOURS	
Gardner floroma	88100	Benign	
Calcifying fibrous tumour	8817/0*	Bhabdoniyoma	8900/0
	00.1730	Adult type	89040
Intermediate (locally aggressive)		Fetal type	8903/0
Palmar/plantar libromatosis	8813/1*	Genital type	8905/G
Desmoid-type fibromatosis	8821/1		000000
Lipolibromatosis	8851/1"	Malignant	
Giant cell fibroblastoma	883471	Embryonal rhabdomyosarcoma	8910/3
Intermediate (rarely metastasizing)		(including botryold, anaplastic) Alveolar rhabdomyosarcoma	6910/3
Dermatofibrosarcoma protuberans	8832/11	(including solid, anaptastic)	8920/3
Fibrosarcomatous dermatofibrosarcoma		Reomorphic rhabdomyosarcoma	8901/3
protuberans	8832/3*	Spindle cell/sclerosing rhabdomyosarcoma	8912/3
Pigmented dermatofibrosarcoma protuberans	5833/1"		

VASCULAR TUMOURS OF SOFT TISSUE		Malignant	
Berign		Malignant peripheral nerve sheath turnour	9540/3
Haemangiorna	9120/0	Epithelioid malignant peripheral nerve sheath tumour	9542/3
Synovial		Malignant Triton tumour	9561/3
Venous	9122/0	Malignant granular cell turnour	9680/3
Aneriovenous haemangiornalmalformation	9123/0	Ectomesenchymoma	8921/3
Intramuscular	9132/0		
Epithelioid haemangioma	9125/0	TUMOURS OF UNCERTAIN DIFFERENTIATION	
Ingiomatosis		Benjan	
Lymphangioma	9170/0	Acral fibromyxoma	8811/0
Intermediate (locally aggressive)		Intramuscular myxioma	
Kaposiform haemangioendothelioma	9130/1	(including cellular variant)	88401
	91301	Justa-articular myroma	88400
Intermediate (rarely metastasizing)		Deep ("aggressive") angiomyxoma	8841/0
Netiform haemangloendothelioma	9136/11	Pleomorphic hyalinizing anglectatic tumour	8802/1
apillary intralymphatic angioendothelioma	9135/1	Ectopic hamartomatous thyrnoma	8587/0
Composite haemangioendothelloma	9136/1		
Pseudomyogenic (epithelioid sarcoma-like)		Intermediate (locally aggressive)	
haerrangioendothelioma	9136/1	Haemosiderotic fibrolipomatous tumour	8811/1
áposi sarcoma	9140/3	Intermediate (rarely metastasizing)	
Asignant		Acypical Reroxanthoma	8830/1
Epithelioid haemangioendothelioma	9133/3	Angiomatoid fibrous histiocytoma.	8836/1
inglosarcoma of soft tissue	91203	Ossifying fibromyxold tumour	88424
and the state of t		Ossifying fibromyxoid turnour, malignent	8842/3
CHONDRO-OSSEOUS TUMOURS		Mixed turnour NOS	8940/0
		Mixed turnour NOS, malignant	89400
off tissue chondroma.	9220/0	Myospithelioma	89628
ixtraskeletal mesenchymal chondrosarcoma	9240/3	Myoepithelial caroinoma	898273
xtraskeletal osteosarcoma	91803	Phosphaturic mesenchymal turnour, benign	8990/0
		Phosphaturic meserichymal turnour, malignant	8990/3
ASTROINTESTINAL STROMAL TUMOURS		Malignant	
enign gastromestinal stromal turnour	8906/0	Synovial sarcoma NOS	90407
astrointestinal stromal tumour, uncertain malignant		Synoval sarcona, spindle cell	9041/3
potential	8936/1	Syriovial sarcoma, biphasic	99430
lastrointestinal stromal turnour, malignant	8936/3	Epithelioid sarcoma	88040
		Alveolar soft-part sarcoma	9581/3
NERVE SHEATH TUMOURS		Clear cell sarcoma of soft tissue	9044/3
Benign		Extraskeletal myxioid chondrosarcoma	9031/3
Schwannoma (including variants)	95600	Extraskelstal Ewing sarcoma	93643
Aelanotic schwannoma	9560/1*	Desmoplastic small round cell tumour	8806/3
Veurofibroma (incl. variants)	9540/0	Extra-rerul rhabdoid turnour	89630
Plaxiform neurofibroma	9650/0	Neoplasms with perivascular epithelioid	00000
Perineurioma	9571/0	cell differentiation (PEComa)	
Malignant perineurioma	9571/3	PEComa NOS, benign	8714/0
Granular cell tumour	9580/0	PECorna NOS, malignant	87140
termal nerve sheeth myxoma	9562/0	Intimal sercoma	91372
Solitary circumscribed neuroma	9670/0	Full di Secolia	013710
Ectopic meningioma	9630/0	UNDIFFERENTIATEDIUNCLASSIFIED SARCOMAS	
fasal glal heterotopia	903000		
Benigh Triton tumour		Undifferentiated spindle cell sarcoma	8801/3
Hybrid nerve sheath turnours	9563/0*	Undifferentiated pleomorphic sarcoma	8802/3
nyunu neneo orodin turnosifo	30630	Undifferentiated round cell sarcoma	8803/3
		Undifferentiated epithelioid sarcoma	88040
		Undifferentiated sarchma NOS	8805/3

*The minythings codes are from the international Constitution of Diseases to Oncology (IDO, 0) (MAC, Bonneise) is control five beings traineds. The use the processing of t



- connective t. (Fibrosarcoma, Liposarcoma, ...)
- Muscle (Leiomyosarcoma, Rhabdomiosarcoma)
- endothelium
 (Hemangioendotelioma, Angiosarcoma)
- nerve sheaths (M. peripheral nerve sheaths tumor)

Rhabdomyosarcoma in Adults

A Retrospective Analysis of 171 Patients Treated at a Single Institution

Andrea Ferrari¹
Palma Dileo²
Michela Casanova¹
Rossella Bertulli³
Cristina Meazza¹
Lorenza Gandola³
Pierina Navarria³
Paola Collini¹
Alessandro Gronchi⁵
Patrizia Olmi²
Franca Fossati-Bellani¹
Paolo G. Casali²

¹ Pediatric Oncology Unit, Istituto Nazionale Tumori, Milan, Italy.

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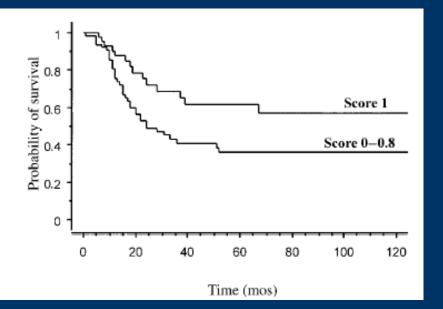
Pathology Department, Istituto Nazionale Tumori,
 Millon, Italia

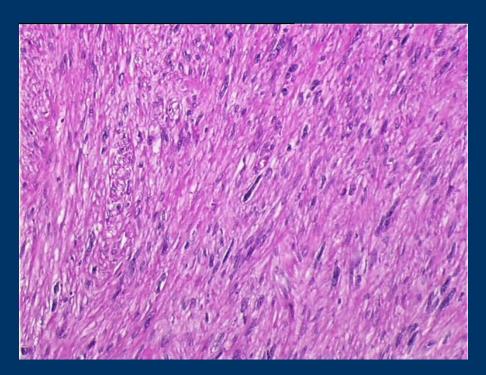
⁵ Head & Neck and Soft Tissue Surgical Department, Istituto Nazionale Tumori, Milan Italy

BACKGROUND. The goal of the current study was to clarify treatment outcomes for adult patients with rhabdomyosarcoma (RMS). Published series have reported definitively worse results for adults with RMS compared with children with RMS. This finding casts doubt on whether RMS is the same disease in adults as it is in children.

METHODS. Of 190 patients with RMS who were age 18 years or older and whose cases were recorded over a 25-year span in the pathology database of the Istituto Nazionale Tumori (Milan, Italy), 171 could be analyzed retrospectively for treatment outcome. The authors attempted to stratify patients according to the degree to which they had been treated appropriately, based on current treatment guidelines for childhood BMS.

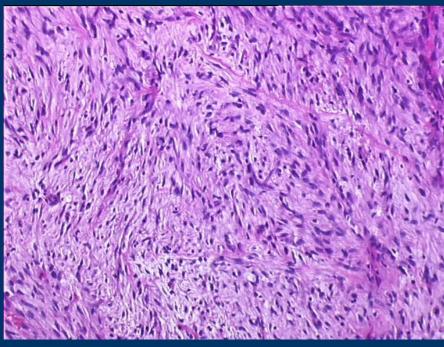
RESULTS. The overall rate of response to chemotherapy was 85%. For the entire series, 5-year event-free survival and 5-year overall survival (OS) were 20% and 40%, respectively. Among the 110 patients with embryonal, alwolar, or 'not otherwise specified' RMS, 5-year OS was 40%, however, 5-year OS was 61% for patients within this group G9% of the total who had high scores for appropriate treatment. COMCUSIONS. The current series parallels other published series in that It confirms the finding of a relatively poor long-term outcome for adult patients with RMS. However, for patients whose treatment adhered to the current guidelines for treatment of children, outcome was similar to what has been reported in pediatric series. In addition, the rate of response to chemotherapy for the entire series was similar to the rate typically observed among children. These findings suggest that adults and children with RMS should receive similar treatment. Treatment protocols adopted from pediatric programs but tailored to adults could increase adults' chances of receiving appropriate treatment; prospective studies are needed to test this idea. **Zoner-2003;98:571-60.0.** 2003 **Mercianc Tomer Societa**

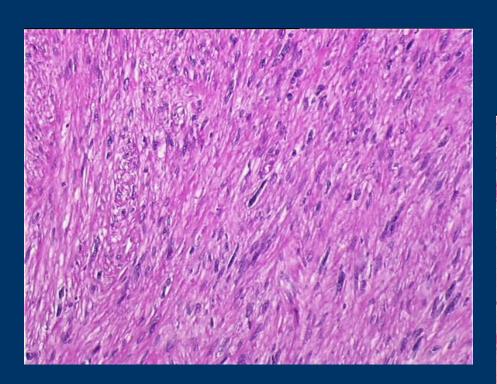




leiomyosarcoma G1

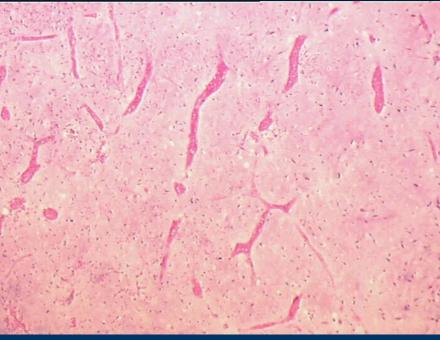
leiomyosarcoma G3





leiomyosarcoma

liposarcoma



The Grading of Soft Tissue Sarcomas

Results of a Clinicohistopathologic Correlation in a Series of 163 Cases

JOSE COSTA, R. A. WESLEY, † E. GLATSTEIN, ‡ AND S. A. ROSENBERG§

A multidisciplinary study of 163 patients treated at the NCI for soft tissue sarcomas allowed the correlation of a number of histologic features (histologic type, mitosis, necrosis, pleomorphism, cellularity, and matrix) of the primary lesion to time to recurrence and overall survival of the patients. The results of the stratified analyses show that necrosis is the single best histopathologic parameter to predict the time to recurrence (P=0.025) and the overall survival of the patients (P=0.002). Necrosis in the primary lesion is also of value in predicting survival after the first recurrence has taken place (P=0.001). The value of necrosis in the primary lesions predicting the clinical course after recurrence appears to be independent of age, sex, location, and size of the tumor. The authors propose a grading system based on histologic typing and histologic parameters to identify a group of lesions with minimal metastatic potential (Grade 1), and on the use of necrosis to distinguish between aggressive lesions with good patient survival (Grade 2) and aggressive lesions with poor patient survival (Grade 3).

Cancer 53:530-541, 1984.

Int. J. Cancer: 33, 37-42 (1984)

SOFT-TISSUE SARCOMAS OF ADULTS; STUDY OF PATHOLOGICAL PROGNOSTIC VARIABLES AND DEFINITION OF A HISTOPATHOLOGICAL GRADING SYSTEM

M. Trojani¹, G. Contesso², J.M. Coindre¹, J. Rouesse², N.B. Bui¹, A. de Mascarel³, J.F. Goussot³, M. David¹, F. Bonichon¹ and C. Lagarde¹

¹ Fondation Bergonié, 180, rue de Saint-Genès, 33076 Bordeaux; ² Institut Gustave Roussy, 94805 Villejuif; and ³ Hôpital Saint-André, 33075 Bordeaux, France.

The pathological features of 155 adult patients with soft-tissue sarcomas were studied retrospectively, in an attempt to set up a grading system for these tumors. As the first step, seven histological criteria (tumor differentiation, cellularity, importance of nuclear atypia, presence of malignant giant cells, mitosis count, pattern of tumor necrosis and presence of vascular emboli) were evaluated in a monofactorial analysis. Five of these (tumor differentiation, cellularity, mitosis count, tumor necrosis, and vascular emboli) were correlated with the advent of metastases and with survival. A multivariate analysis, using a Cox model, selected a minimal set of three factors (tumor differentiation, mitosis count, and tumor necrosis) the combination of which was necessary and sufficient to retain all the prognostic information. A grading system was elaborated, which turned out to be correlated with the advent of metastasis and with patients' survival. A second multivariate analysis introducing clinical prognostic features showed that the histological grade was the most important prognostic factor for soft-tissue sarcomas. Thus, this grading system appears to be highly interesting because of its prognostic value and the facility of its elaboration. However, its reproducibility should be tested.

Comparative Study of the National Cancer Institute and French Federation of Cancer Centers Sarcoma Group Grading Systems in a Population of 410 Adult Patients With Soft Tissue Sarcoma

By Louis Guillou, Jean-Michel Coindre, Françoise Bonichon, Nguyen Binh Bui, Philippe Terrier, Françoise Collin, Marie-Odile Vilain, Anne-Marie Mandard, Viviane Le Doussal, Agnès Leroux, Jocelyne Jacquemier, Huguette Duplay, Xavier Sastre-Garau, and José Costa

Purpose: Several histologic grading systems have been validated in soft tissue sarcomas (STS), but no system is currently accepted worldwide. The National Cancer Institute (NCI) and French Federation of Cancer Centers Sarcoma Group (FNCLCC) systems were examined comparatively in the same population of patients with STS to determine which system is the best prognosticator with regard to metastasis development and tumor mortality.

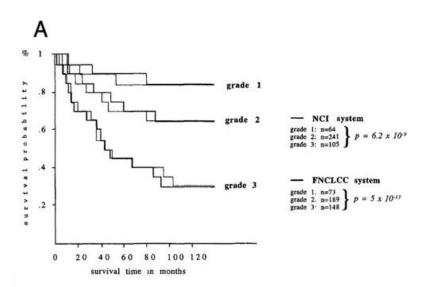
Patients and Methods: Four hundred ten adult patients with nonmetastatic STS were examined. Histologic grade was established according to the NCI and FNCLCC systems in each case. The prognostic value of both systems was examined using univariate and multivariate (Cox's model) analyses, and special attention was devoted to tumors with discordant grades.

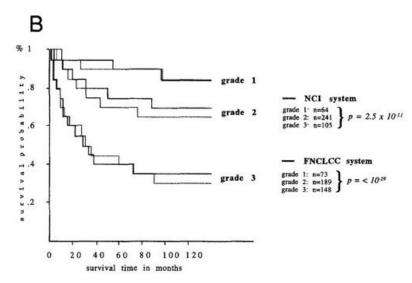
Results: In univariate analysis, both the NCI and FNCLCC systems were of prognostic value to predict metastasis development and tumor mortality. In multivari-

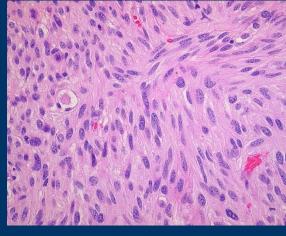
ate analysis, high-grade tumors, irrespective of the system used, size ≥ 10 cm, and deep location were found to be independent prognostic factors for the advent of metastases. Tumor grade had a higher predictive value than size or depth, and higher prognostic weight was assigned to the FNCLCC grading system in Cox models. Grade discrepancies were observed in 34.6% of the cases. An increased number of grade 3 STS, a reduced number of grade 2 STS, and a better correlation with overall and metastasis-free survival within subpopulations with discordant grades were observed in favor of the FNCLCC system.

Conclusion: The FNCLCC system showed slightly increased ability to predict distant metastasis development and tumor mortality. The use of this system to evaluate STS aggressiveness might be favored.

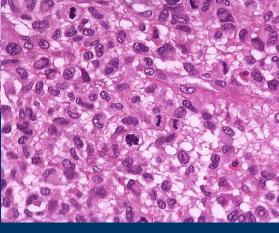
J Clin Oncol 15:350-362. © 1997 by American Society of Clinical Oncology.







differentiation 1-2-3

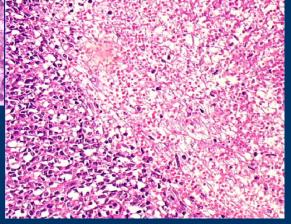


mitoses 1-2-3

G1 = 2-3

G2 = 4-5

G3 = 6-8



necrosis 0-1-2

Primary Tumor (T)

TX Primary tumor cannot be assessed

TO No evidence of primary tumor

T1 Tumor 5 cm or less in greatest dimension*

T1a Superficial tumor (Figure 28.3)

T1b Deep tumor (Figure 28.4)

T2 Tumor more than 5 cm in greatest dimension*

T2a Superficial tumor (Figure 28.3)

T2b Deep tumor (Figure 28.5)

*Note: Superficial tumor is located exclusively above the superficial fascia without invasion of the fascia; deep tumor is located either exclusively beneath the superficial fascia, superficial to the fascia with invasion of or through the fascia, or both superficial yet beneath the fascia.

Regional Lymph Nodes (N)

NX Regional lymph nodes cannot be assessed

NO No regional lymph node metastasis

N1* Regional lymph node metastasis

*Note: Presence of positive nodes (N1) in M0 tumors is considered Stage III.

Distant Metastasis (M)

M0 No distant metastasis

M1 Distant metastasis

Tla Tlb	N0 N0	MO	G1, GX
	N0		
ma		MO	G1, GX
T2a	N0	MO	G1, GX
T2b	N0	MO	G1, GX
Tla	N0	MO	G2, G3
T1b	N0	MO	G2, G3
T2a	N0	MO	G2
T2b	N0	MO	G2
T2a, T2b	N0	MO	G3
Any T	N1	MO	Any G
Any T	Any N	M1	Any G
	T2a T2b T2a, T2b	T2a N0 T2b N0 T2a, T2b N0 Any T N1	T2a N0 M0 T2b N0 M0 T2a, T2b N0 M0 Any T N1 M0

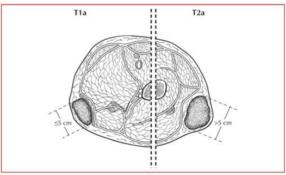


FIGURE 28.3. T1a is defined as a superficial tumor 5 cm or less in greatest dimension, and T2a is defined as a superficial tumor more than 5 cm in greatest dimension.

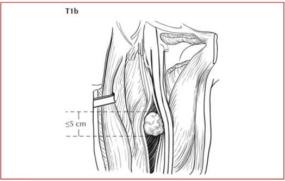


FIGURE 28.4. T1b is defined as deep tumor 5 cm or less in greatest dimension.

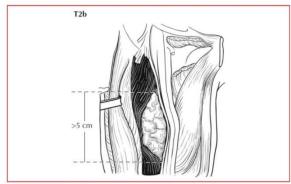


FIGURE 28.5. T2b is defined as deep tumor more than 5 cm in greatest dimension.

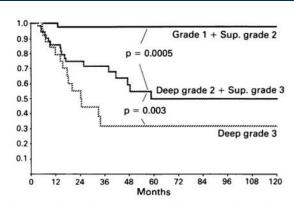


Figure 9 Overall survival according to prognostic groups. Grade 1 + superficial grade 2 (49 pts), deep grade 2 + superficial grade 3 (52 pts), deep grade 3 (30 pts).

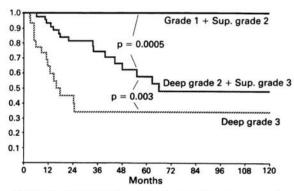


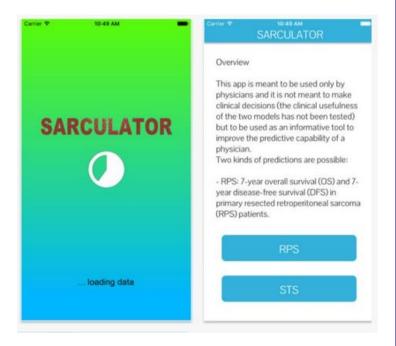
Figure 10 Metastasis-free survival according to prognostic groups. Grade 1 + superficial grade 2 (49 pts), deep grade 2 + superficial grade 3 (52 pts), deep grade 3 (30 pts).

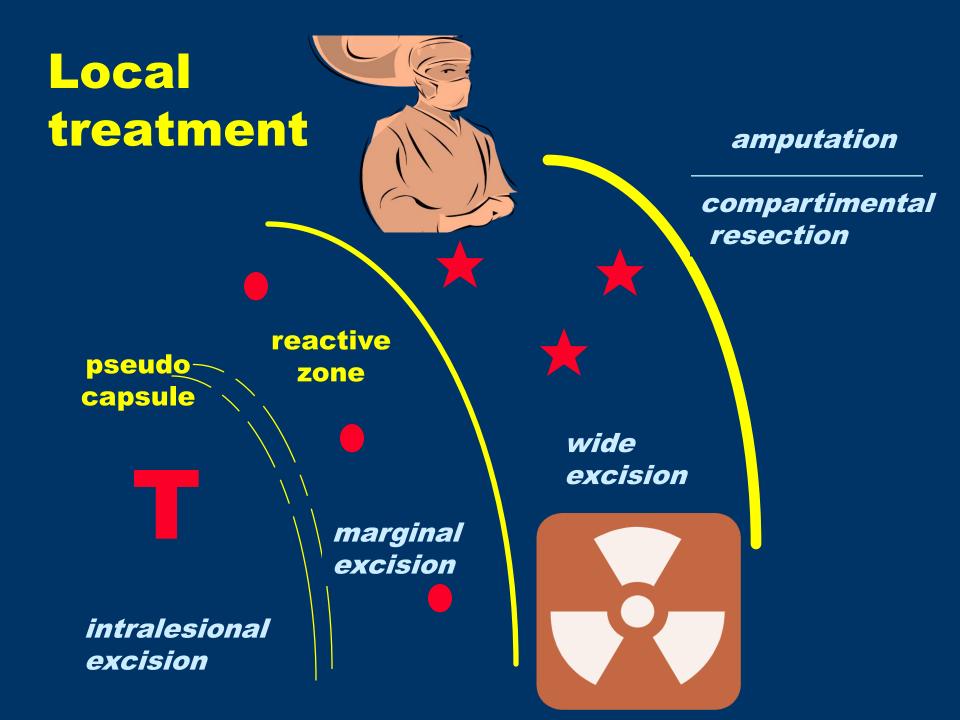
Overall Survival Probability Following Surgery



Our uterine lelomyosarcoma nomogram is a tool designed to predict the likelihood of survival at five years after undergoing surgery to remove the uterine leiomyosarcoma, a type of uterine cancer, it is not appropriate for patients who have not had surgical treatment for uterine leiomyosarcoma. more...

cm (0 to 28) What was the grade of the tumor? Select tumor grade	Enter Your Information All fields are required unless noted optional	Clear Calculate
What was the size of the primary uterine leiomyosarcoma tumor? cm (0 to 28) What was the grade of the tumor? Select tumor grade What is grade? Was there cervical involvement at the time of your surgery? Yes © No What is cervical involvement? Were there loco-regional metastases at the time of your surgery? Yes © No Note: Loco-regional metastases at the time of your surgery? Were there loco-regional metastases were present if, at the time of surgery, the leiomyosarcoma was found in the structures near the uterus, including the bladder, nearby bowel, nearby lymph nodes, parametria, ovaries, or faliopian tubes. Were there distant metastases either before or soon after your surgery? Yes © No Note: Distant metastases were present if imaging studies done either before or soon after surgery showed that the leiomyosarcoma had spread to distant areas, such as the lung, liver, or bone. What was the mitotic index? mitoses/IO HPF (I to 245) Note: This is expressed as the number of mitotic figures per IO high-powered fields (HPF) seen under the microscope, if the pathology report gives a range (such as 8 to 20 mitoses/IO HPF), use the higher number (20 mitoses/IO HPF), use the higher number (20 mitoses/IO HPF), use	How old were you when you were diagnosed with uterine leion	nyosarcoma?
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- TYTHE 12 THEORY HOEK!	What is mitotic index?	





The Effect of the Anatomic Setting on the Results of Surgical Procedures for Soft Parts Sarcoma of the Thigh

WILLIAM F. ENNEKING, MD,* SUZANNE S. SPANIER, MD,† AND MARTIN M. MALAWER, MD,‡

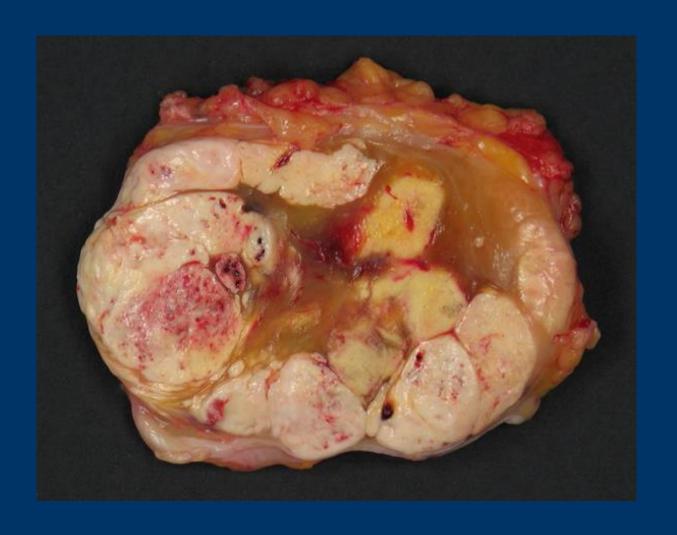
The results of surgical treatment in 40 patients with a soft tissue sarcoma of the thigh were analyzed to determine the influence of the anatomic setting on the effectiveness of the procedure. The anatomic setting, based on functional anatomic compartments, was defined as either intra- or extracompartmental. The lesions were graded for aggressiveness as either high or low. The lesions were staged by biologic aggressiveness, anatomic setting, and metastases. The procedures, whether amputations or local resections, were classified by the relationship of the surgical margin to the pseudocapsule and reactive zone about the lesion as marginal, wide, or radical.

Marginal procedures were done four times with two recurrences. Wide margins were achieved 12 times. When done for low grade lesions, there were no recurrences (0/2), but when done for high grade lesions, the recurrence rate was 30% (3/10). Radical margins were obtained 24 times. There was one recurrence after a radical procedure. Recurrence rates did not depend upon whether the procedure was a resection or amputation but upon the margin achieved.

The anatomic setting of the lesion was intracompartmental in 13 cases and extracompartmental in 27. Not only were surgically adequate margins achieved more often for intracompartmental lesions (10/13) than for extracompartmental lesions (17/27), but there was a significant difference in the manner required to achieve an adequate margin. Although 9 of the 13 intracompartmental lesions were amenable to nonablative resection, only 3 of 27 extracompartmental lesions were resectable.

The margin required for local control (wide vs. radical) was dictated by the biologic aggressiveness (grade) of the lesion. How the necessary margin was most satisfactorily achieved (resection vs. amputation) was determined by the anatomic setting (intra- vs. extracompartmental).

Cancer 47:1005-1022, 1981.



Is There No Influence of Local Control on the Rate of Metastases in High-Grade Soft Tissue Sarcoma?

Bo Rööser, MD, PhD, Pelle Gustafson, MD, and Anders Rydholm, MD, PhD

Primary host and tumor-related prognostic factors, the occurrence of local recurrence, and the time interval between diagnosis of the primary tumor and metastatic disease were analysed in 39 patients with metastatic Grade 4 soft tissue sarcoma. The pattern of prognostic factors and the timing of metastases were the same in patients with and without local recurrence. Thus, primary prognostic factors alone may determine the risk of metastases in high-grade soft tissue sarcoma; local recurrence per se may not influence the prognosis in these cases. Cancer 65:1727-1729, 1990.

ORIGINAL ARTICLES

Extremity Soft Tissue Sarcoma in a Series of Patients Treated at a Single Institution

Local Control Directly Impacts Survival

Alessandro Gronchi, MD,* Salvatore Lo Vullo, BSc,† Chiara Colombo, MD,* Paola Collini, MD,‡ Silvia Stacchiotti, MD,§ Luigi Mariani, MD,† Marco Fiore, MD,* and Paolo Giovanni Casali, MD§

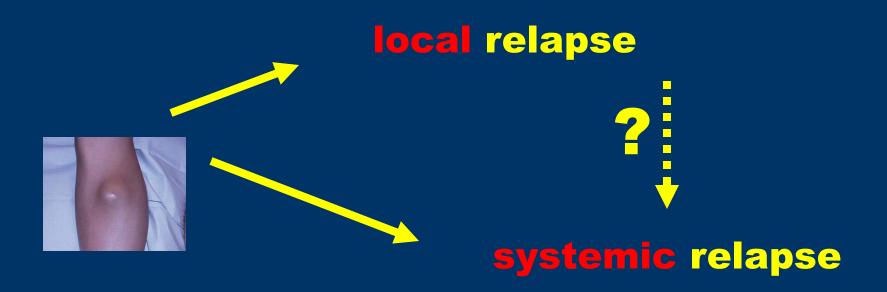
Purpose: To improve understanding of what is adequate in local treatment of extremity soft tissue sarcomas (ESTS), to maximize the ratio between local control, limb preservation and prognosis.

Patient and Methods: Nine hundred ninety-seven consecutive patients affected by primary ESTS were reviewed. Size, depth, histotype and grade of the tumor, margin status (R0, R1, R2) of surgical resection, and adjuvant treatments were analyzed. Univariable and multivariable analysis were carried out. For the subgroup of R1 resection the presence/absence of the tumor at the inked surface and the presence/absence of an anatomic barrier were also considered.

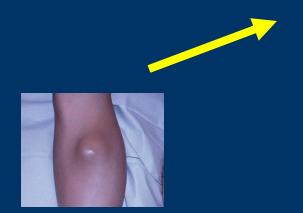
Results: Five- and 10-year mortality estimates (95% confidence interval) were 0.29 (0.20–0.38) and 0.38 (0.28–0.49) in R1 cases, and 0.16 (0.13–0.19) and 0.19 (0.16–0.23) in R0 cases (P=0.0003). Size, grade, depth, and histologic subtype were also significant predictor of mortality. Significant determinants for local relapse were surgical margins, radiation therapy, and histologic subtype. In the subset of R1 resections trends towards a better local control for R1 negative cases and histology other than myxofibrosar-coma were identified. Significant determinants for distant metastases were size, grade and histologic subtype of the tumor but not surgical margins.

Conclusions: Quality of surgical margins independently predicted local control and survival. The effect on survival was directly mediated by local recurrence to proximal sites invading the abdomen'thorax, and this may indeed be the main way by which quality of surgery directly impacts the final prognosis of ESTS patients.

(Ann Surg 2010;251: 506-511)









- re-excision
- mutilations
- up-staging(grading)

-> costs!

→ QoL!

→ 05!

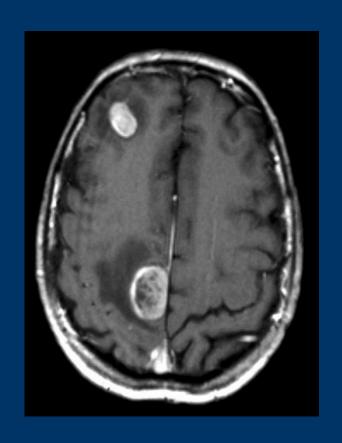
Natural history of disease



localized

isolated pulmonary

extra pulmonary









Lymph Nodes as Sites of Metastases From Sarcomas of Soft Tissue

JEAN-JACQUES MAZERON, MD,* AND HERMAN D. SUIT, MD

Records of 323 patients with TNM Stage M0 sarcoma of soft tissue treated by the Radiation Medicine Service of the Massachusetts General Hospital over a 14-year period were reviewed to study the incidence and the implication of regional lymph node involvement. Nineteen patients (5.9%) had evidence of sarcoma metastatic to draining lymph nodes, zero of 63 (0%) were Grade 1 sarcomas, two of 118 (2%) were Grade 2, and 17 of 142 (12%) were Grade 3 sarcomas. Among patients with Grade 3 sarcomas, rhabdomyosarcoma (five of 14), vascular sarcoma (two of five), and epithelioid sarcoma (four of five) were associated with a higher incidence of lymph node involvement than synovial sarcomas (zero of four), fibrosarcomas (zero of 16), malignant fibrohistiocytomas (one of 29), neurofibrosarcomas (one of eight), liposarcomas (one of 14), and leiomyosarcomas (one of ten). From the 19 patients who had evidence of metastatic nodes, six (32%) were alive more than 58 months after the treatment of the nodes; four of six patients were without further tumor. The data of this study are compared with those cited in a review of the literature.

Cancer 60:1800-1808, 1987.

TABLE 5. Pooled Data from Published Reports on Regional Lymph Node Involvement in 5257 Patients Treated for Sarcoma of Soft Tissue

	Proportion of patients with spread to lymph nodes		
Histologic type	No./no. of patients	Percent	
Liposarcoma	16/504	3.2	
Fibrosarcoma	54/215	4.4	
Synovial sarcoma	117/851	13.7	
Rhabdomyosarcoma	201/1354	14.8	
Leiomyosarcoma	21/524	4	
Malignant fibrous histiocytoma	84/823	10.2	
Alveolar soft part sarcomas	3/24	12.5	
Neurofibrosarcoma	3/476	0.6	
Epithelioid sarcoma	14/70	20	
Vascular sarcoma	43/376	11.4	
Clear cell sarcoma	11/40	27.5	



The Impact of Lymph Node Metastases on Survival in Extremity Soft Tissue Sarcomas

Can Atalay · Mehmet Altinok · Besim Seref

Abstract

Background The impact of lymph node metastases on survival in extremity soft tissue sarcomas has been studied for a long time with controversial results. The purpose of this study was to compare survival of patients with initial lymph node metastases with those having lymph node or distant metastases or both after initial curative surgery.

Methods Patients treated between 1995 and 2000 for extremity soft tissue sarcoma were retrospectively studied in four groups: those with metastatic regional lymph nodes at the time of diagnosis, those with only regional lymph node recurrences, those with only distant metastatic relapses, and those with both regional lymph node recurrences and distant metastatic relapses, all of the last three groups after initial curative surgery. The impact of timing of lymph node metastases on disease-free and overall survival was evaluated.

Results A total of 110 patients (73 men) with a median age of 45 years were eligible for the study. Three-year disease-free survival was significantly longer in patients with initial regional lymph node metastases than in patients with only lymph node recurrences after curative surgery (p = 0.04) and patients with initial (p = 0.0002) and recurrent (p = 0.0004) regional lymph node metastases had longer disease-free survival than patients with distant metastases. Overall survival difference between patients with initial regional lymph node metastases and patients with only

lymph node recurrences after curative surgery was significant at 5 years (p = 0.01).

Conclusions It is logical to separate patients with initial lymph node metastases from those with distant metastases in staging and to treat patients with initial lymph node metastases with radical surgical interventions if complete tumor resection seems feasible.

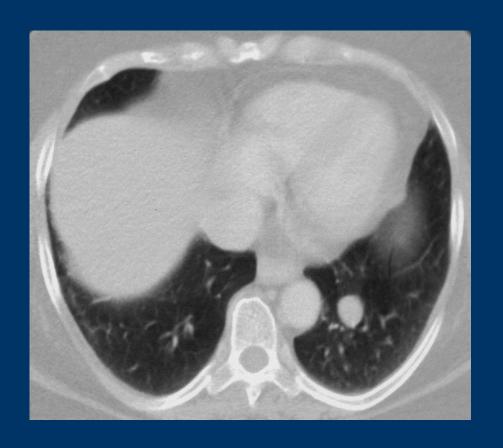
First isolated pulmonary metastases

Osteosa >70%

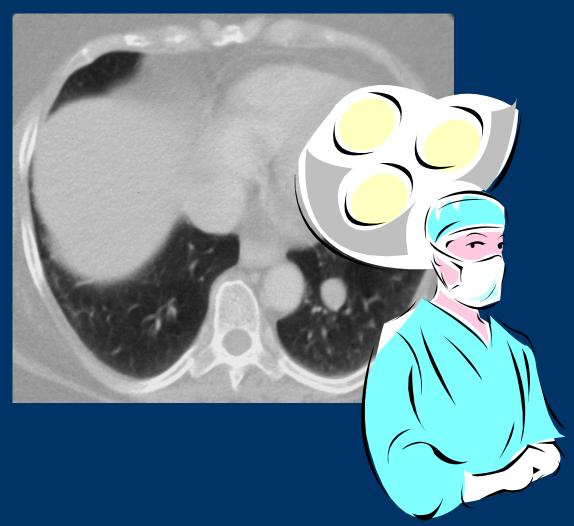
Soft tissue sa >50%

Ewing >40%

Rhabdomyosa >20%

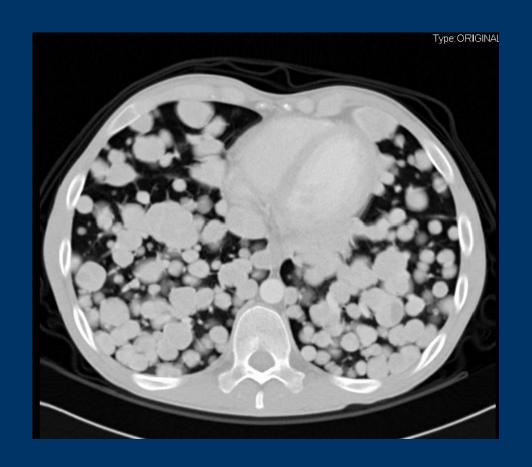


Soft tissue sarcoma: isolated pulmonary metastasis

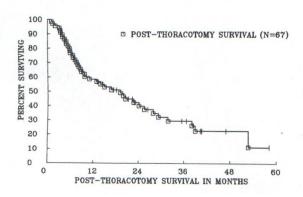


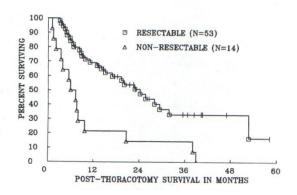


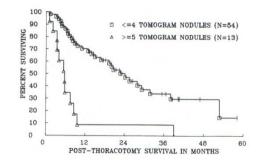


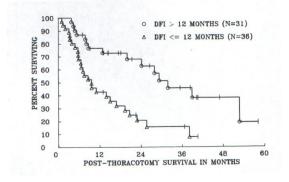


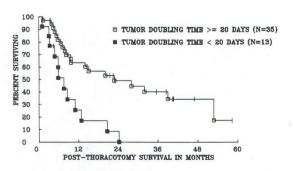
Analysis of prognostic factors in patients undergoing resection of pulmonary metastases from soft tissue sarcomas

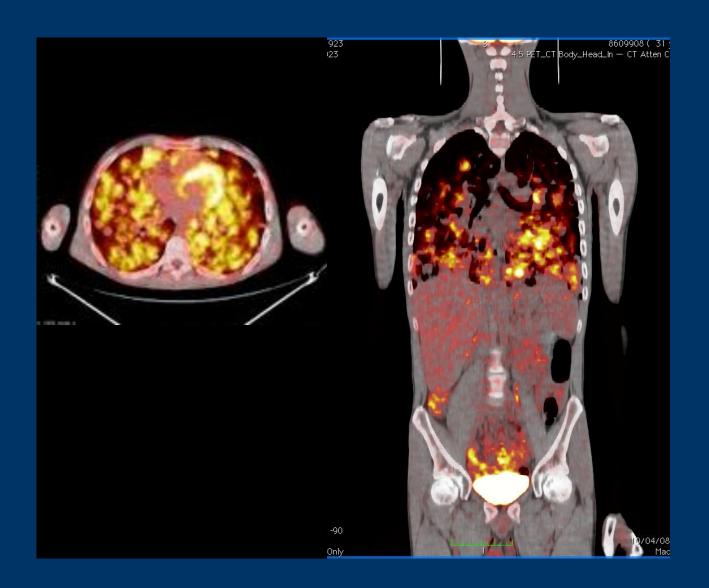




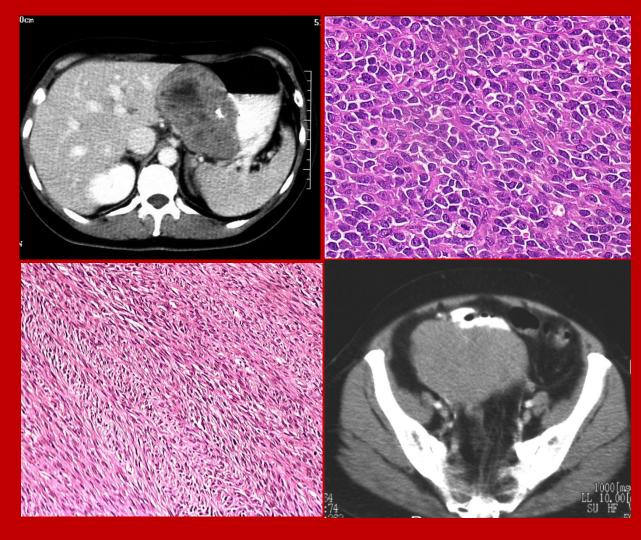


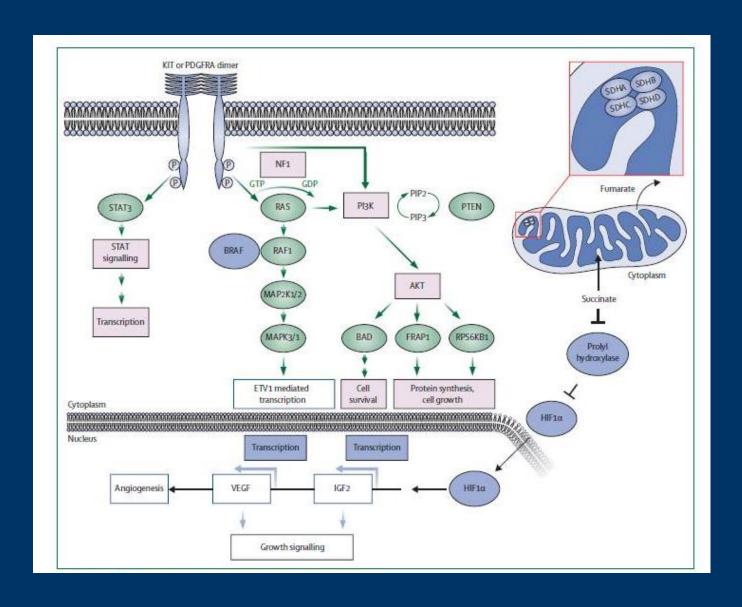






Gastrointestinal stromal tumors (GIST)

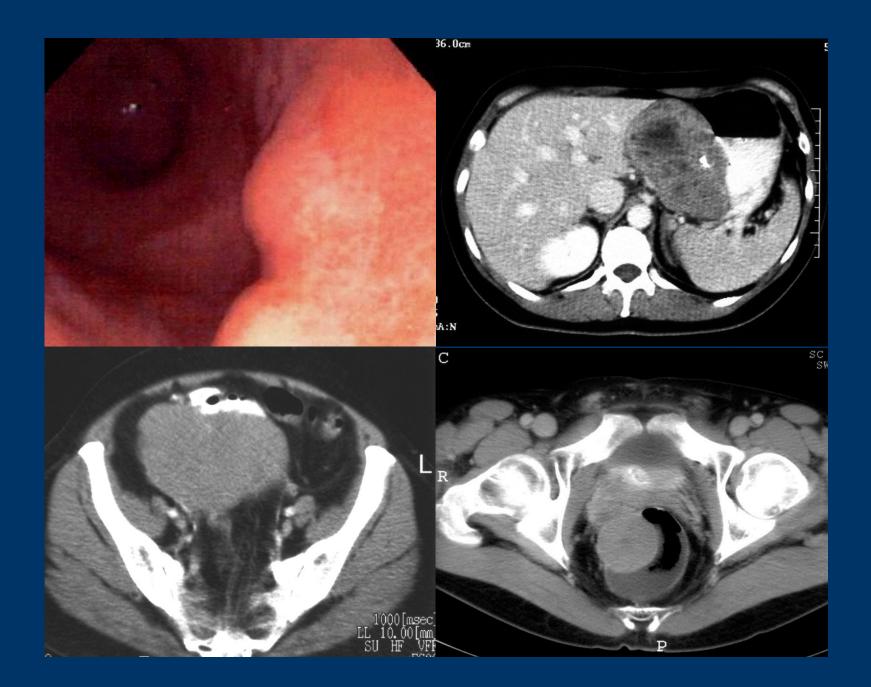




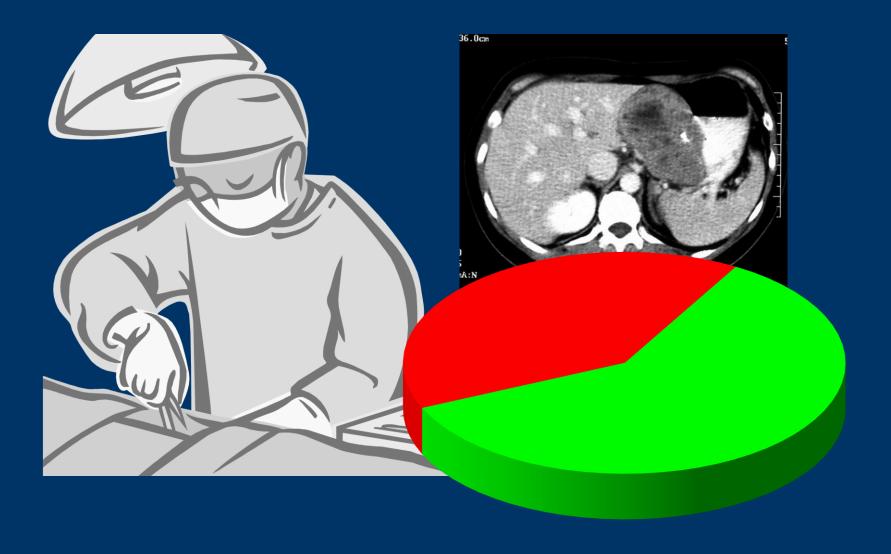
Imatinib (Gleevec, Novartis); C₂₉H₃₁N₇O; MW = 494

Sunitinib (Sutent, Pfizer); C₂₂H₂₇FN₄O₂; MW = 398

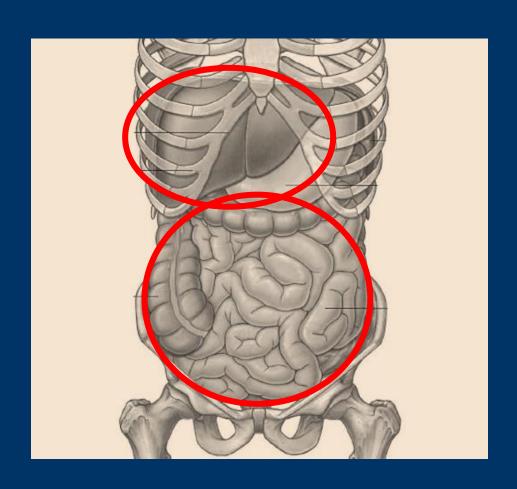
Regorafenib (Stivarga, Bayer); $C_{21}H_{15}CIF_4O_3$; MW = 482



Standard treatment

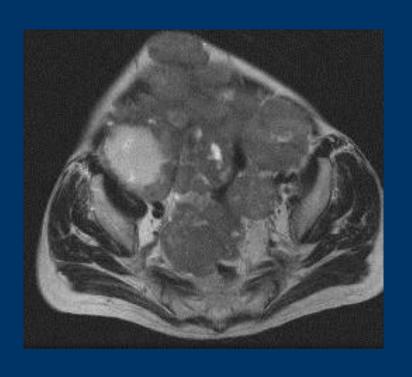


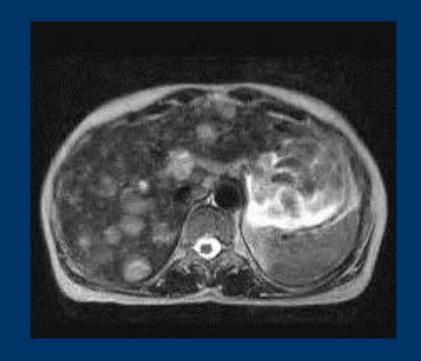
Relapse patterns











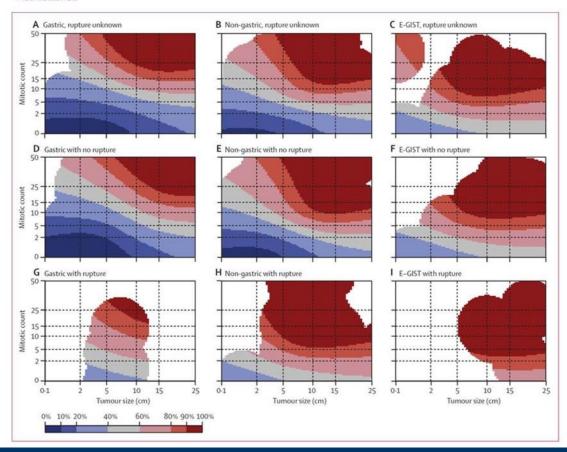
Risk stratification

	cm	M/50HPF	gastric	jejunal/ ileal	duodenal	rectal
1	<u><</u> 2	<u><</u> 5	0	0	0	0
			none	none	none	none
2	>2 <u><</u> 5	<u><</u> 5	1.9%	4.3%	8.3%	8.5 %
			very low	low	low	low
3a	>5 <u><</u> 10	<u><</u> 5	3.6%	24%		
			low	moderate		
3b	>10	<u><</u> 5	12%	52 %	34%	57%
			moderate	high	high	high
4	<u><</u> 2	>5	0	50%		54%
						high
5	>2 <u><</u> 5	>5	16%	73 %	50 %	52 %
			moderate	high	high	high
6a	>5 <u><</u> 10	>5	55 %	85 %		
			high	high		
6b	>10	>5	86%	90%	86%	71%
			high	high	high	high

Miettinen M. Semin Diagn Pathol 2006; 23: 70

Risk of recurrence of gastrointestinal stromal tumour after surgery: an analysis of pooled population-based cohorts

Heikki Joensuu, Aki Vehtari, Jaakko Riihimäki, Toshirou Nishida, Sonja E Steigen, Peter Brabec, Lukas Plank, Bengt Nilsson, Claudia Cirilli, Chiara Braconi, Andrea Bordoni, Magnus K Magnusson, Zdenek Linke, Jozef Sufliarsky, Massimo Federico, Jon G Jonasson, Angelo Paolo Dei Tos, Piotr Rutkowski



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Assess the Risk: GIST

By Novartis Pharmaceutical Corporation

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Category: Medical
Released: May 05, 2013
Version: 1.0
Size: 1.9 MB
Language: English
Seller: Novartis Pharmaceutical
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Rated 12+ for the following:

Infrequent/Mild Alcohol, Tobacco, or Drug Use or References

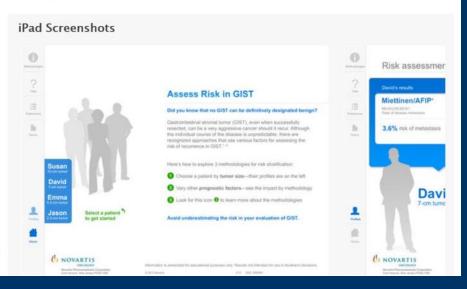
Compatibility: Requires iOS 6.0 or later. Compatible with iPad.

Description

An interactive activity designed for use on an iPad, this program estimates the risk of recurrence in gastrointestinal stromal tumor (GIST)—a GI cancer—using various assessment methodologies. The application features 4 hypothetical GIST patients and allows you to select input for key tumor–related prognostic factors. The recurrence

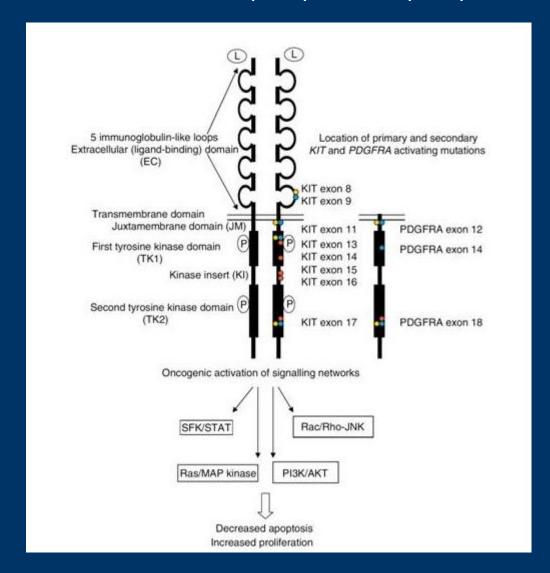
Assess the Risk: GIST Support >

...More



exon 9 (~10%) exon 11 (~70%) exon 13 (~5%)

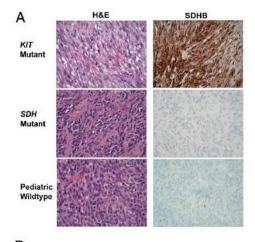
exon 17 (~5 %)

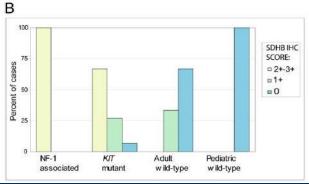


Lasota J et al, Histopathology 2008;53:245

Defects in succinate dehydrogenase in gastrointestinal stromal tumors lacking *KIT* and *PDGFRA* mutations

Katherine A. Janeway^{a,1,2}, Su Young Kim^{b,1}, Maya Lodish^c, Vânia Nosé^d, Pierre Rustin^e, José Gaal^f, Patricia L. M. Dahia^g, Bernadette Liegl^h, Evan R. Ball^c, Margarita Raygadaⁱ, Angela H. Lai^a, Lorna Kellyⁱ, Jason L. Hornick^k, NIH Pediatric and Wild-Type GIST Clinic^{l,m,n,o,p,3}, Maureen O'Sullivan^{i,q}, Ronald R. de Krijger^f, Winand N. M. Dinjens^f, George D. Demetri^r, Cristina R. Antonescu^s, Jonathan A. Fletcher^k, Lee Helman^b, and Constantine A. Stratakis^c





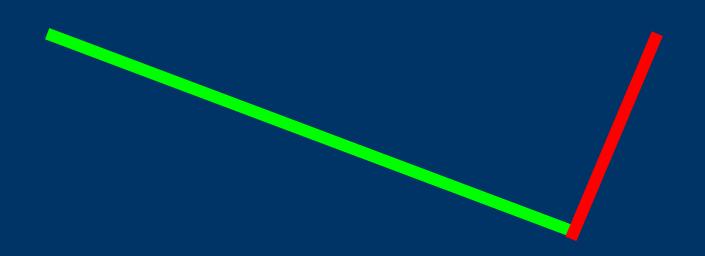
Neurofibromatosis, type 1

Series	No. patients	KIT mutation	PDGFRA mutation	NF1 mutation
Kinoshita, 2004	7	None	None	2 of 3 pts
Cheng, 2004	3	1 ex 11	None	NS
Anderson, 2005	12	None	None	NS
Takazawa, 2005	9	2 ex 11, 1 ex 13	1 ex 12, 1 ex 18	NS
Yantiss, 2005	3	1 ex 11	None	NS
Miettinen, 2006	15	None	None	NS
Maertens, 2006	3	2 polymorphisms	5 silents	3 of 3 pts
Nemoto, 2006	1	None	None	1 of 1 pts
Guillaud, 2006	1	None	None	NS
Lee, 2006	1	None	None	NS
Steward, 2007	2	None	None	1 of 2 pts
Kang, 2007	5	None	None	NS
Present series	25	1 ex 11, 1 ex 9	1 ex 18	NS

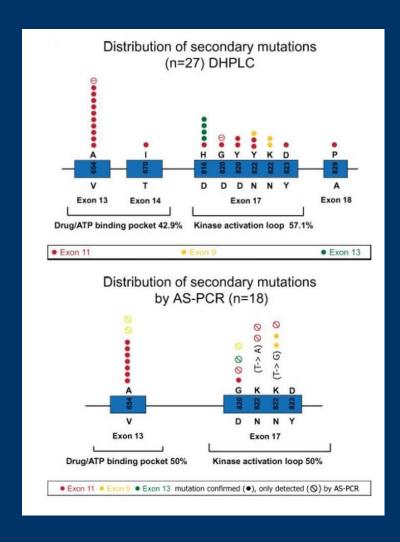
Primary resistance

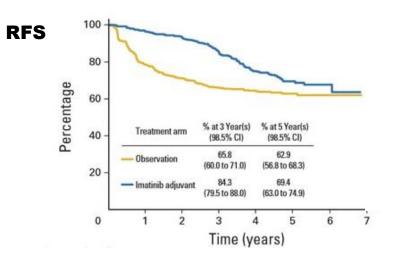


Secondary resistance



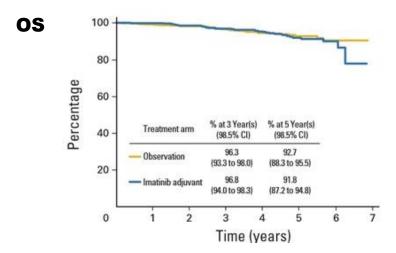
Secondary resistance: molecular heterogeneity

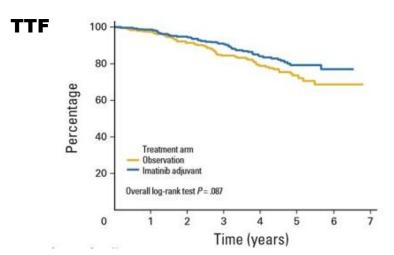




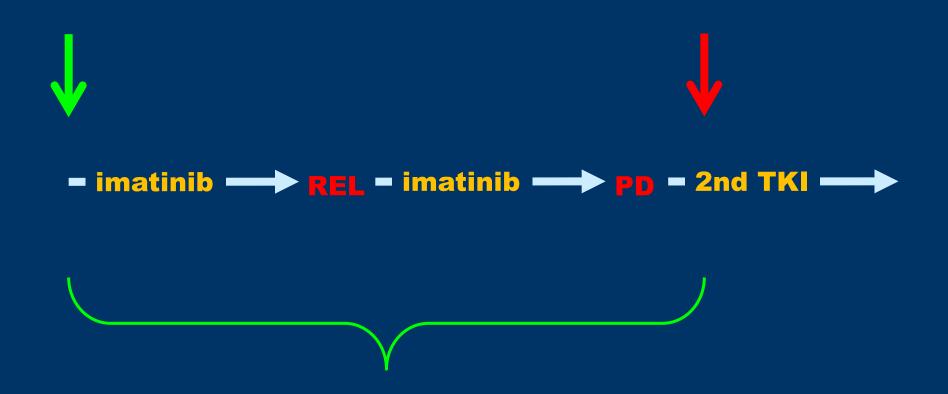
Time to Definitive Failure to the First Tyrosine Kinase Inhibitor in Localized GI Stromal Tumors Treated With Imatinib As an Adjuvant: A European Organisation for Research and Treatment of Cancer Soft Tissue and Bone Sarcoma Group Intergroup Randomized Trial in Collaboration With the Australasian Gastro-Intestinal Trials Group, UNICANCER, French Sarcoma Group, Italian Sarcoma Group, and Spanish Group for Research on Sarcomas

Paolo G. Casali, Axel Le Cesne, Andres Poveda Velasco, Dusan Kotasek, Piotr Rutkowski, Peter Hohenberger, Elena Fumagalli, Ian R. Judson, Antoine Italiano, Hans Gelderblom, Antoine Adenis, Jörg T. Hartmann, Florence Duffaud, David Goldstein, Javier M. Broto, Alessandro Gronchi, Angelo P. Dei Tos, Sandrine Marréaud, Winette T.A. van der Graaf, John R. Zalcberg, Saskia Litière, and Jean-Yves Blay





1st TKI failure-free survival





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