

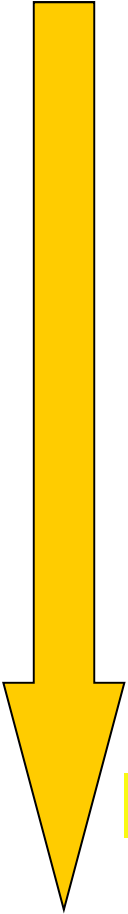
Desmoid
Wait and see

Sylvie BONVALOT



INDICATIONS OF AGGRESSIVE AND “DEFINITIVE” TREATMENTS (SURGERY AND RADIOTHERAPY) CHANGED OVER TIME

2005

- 
1. Surgery when feasible
 2. Wait and see for recurrent but stable lesion
 3. Wait and see for primary irresectable lesion
 4. The effect of surgical margins is unclear
conservative approach is preferable
 5. Increased use of « neo adjuvant » treatments
 6. Wait and see for selected primary resectable lesions
 7. Surgery is no more « standard treatment »

Bonvalot EJSO 2008, Fiore ASO 2009, Salas JCO 2012, ESMO Guidelines 2014, EORTC consensus

2015

Extra-abdominal primary fibromatosis: Aggressive management could be avoided in a subgroup of patients[☆]

S. Bonvalot^{a,*}, H. Eldweny^a, V. Haddad^b, F. Rimareix^a, G. Missenard^a, O. Oberlin^c,
D. Vanel^d, P. Terrier^e, J.Y. Blay^f, A. Le Cesne^g, C. Le Péchoux^h

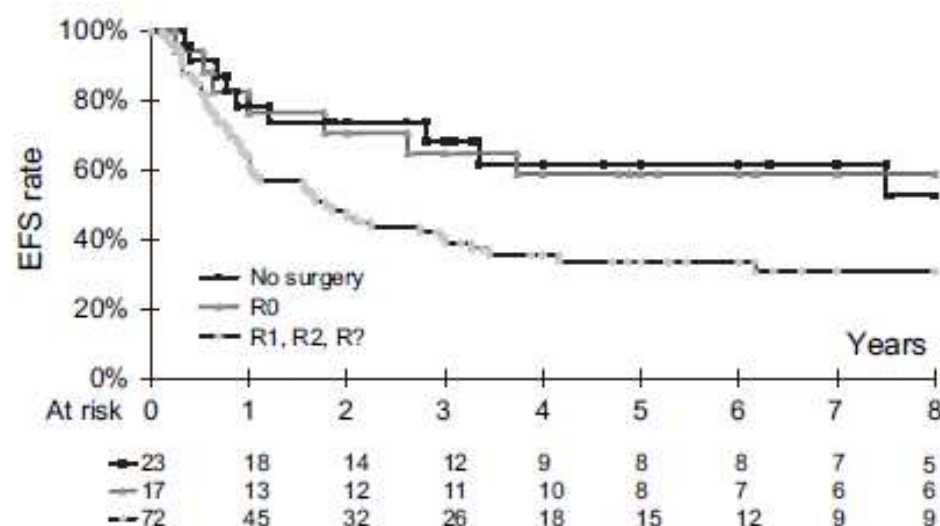


Figure 2. Event-free survival according to the quality of surgery (R0 versus no-surgery versus R1, R2, R not evaluated) (R? = R not evaluated).

Observation

- 5-year PFS: 49.9% for the W&S group (these pts were over treated before)
- 5-year PFS: 58.6% for the medical therapy group
- 50 % pts with primary avoid any treatment
- For pts who progressed, median TTP: 14 months

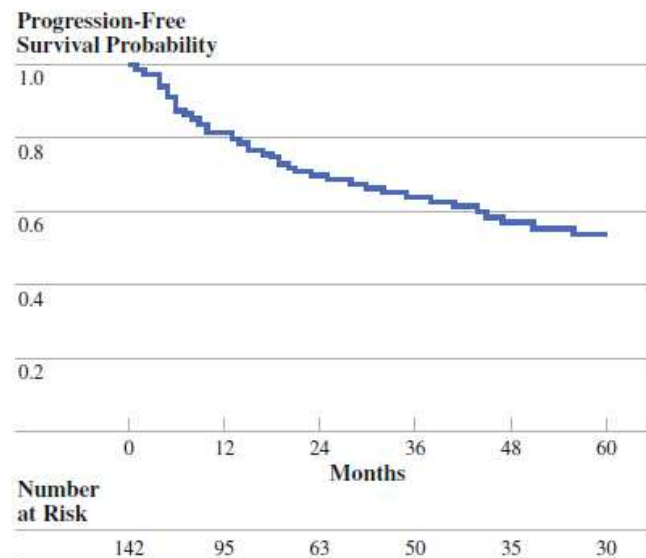


FIG. 1 Progression-free survival in the whole series

Ann Surg Oncol (2009) 16:2587–2593
DOI 10.1245/s10434-009-0586-2

Annals of
SURGICAL ONCOLOGY
OFFICIAL JOURNAL OF THE SOCIETY OF SURGICAL ONCOLOGY

ORIGINAL ARTICLE – BONE AND SOFT TISSUE SARCOMAS

Desmoid-Type Fibromatosis: A Front-Line Conservative Approach to Select Patients for Surgical Treatment

Marco Fiore, MD¹, Françoise Rimareix, MD², Luigi Mariani, MD³, Julien Domont, MD⁴, Paola Collini, MD⁵, Cecile Le Pécoux, MD⁶, Paolo G. Casali, MD⁷, Axel Le Cesne, MD¹, Alessandro Gronchi, MD¹, and Sylvie Bonvalot, MD, PhD²

¹Department of Surgery, Istituto Nazionale Tumori, Milan, Italy; ²Department of Surgery, Institut Gustave Roussy, Villejuif, France; ³Department of Biostatistics, Istituto Nazionale Tumori, Milan, Italy; ⁴Department of Medical Oncology, Institut Gustave Roussy, Villejuif, France; ⁵Department of Pathology, Istituto Nazionale Tumori, Milan, Italy; ⁶Department of Radiotherapy, Institut Gustave Roussy, Villejuif, France; ⁷Department of Cancer Medicine, Istituto Nazionale Tumori, Milan, Italy

ABSTRACT

Purpose. Surgery is still the standard treatment for desmoid-type fibromatosis (DF). Recently, the Institut Gustave Roussy (IGR), Villejuif, France, reported a series of patients treated with a front-line conservative approach (no surgery and no radiotherapy). The disease remained stable in more than half of patients. This study was designed to evaluate this approach on the natural history of the disease in a larger series of patients.

Methods. A total of 142 patients presenting to the IGR or Istituto Nazionale Tumori (INT), Milan, Italy, were initially treated using a front-line deliberately conservative policy. Their progression-free survival (PFS) was observed and a multivariate analysis was performed for major clinical variables.

Results. Seventy-four patients presented with primary tumor, 68 with recurrence. Eighty-three patients received a “wait & see” policy (W&S), whereas 59 were initially offered medical therapy (MT), mainly hormonal therapy and chemotherapy. A family history of sporadic colorectal cancer was present in 8% of patients. The 5-year PFS was 49.9% for the W&S group and 58.6% for the medically treated

patients ($P = 0.3196$). Similar results emerged for primary and recurrent DF. Multivariate analysis identified no clinical variables as independent predictors of PFS. In the event of progression, all patients were subsequently managed safely. **Conclusions.** A conservative policy could be a safe approach to primary and recurrent DF, which could avoid unnecessary morbidity from surgery and/or radiation therapy. Half of patients had medium-term stable disease after W&S or MT. A multidisciplinary, stepwise approach should be prospectively tested in DF.

Desmoid-type fibromatosis (DF) is a clonal fibroblastic proliferation marked by an infiltrative growth and an inability to metastasize.^{1,2} For decades, standard treatment has been complete macroscopic surgical resection. However, sizable rates of local recurrences have been reported (range 20–60% at 5 years in major retrospective studies).^{3–6} Given the unpredictable outcome of the disease and the lack of metastatic potential, the aggressiveness of surgery has evolved over time. Currently, it differs from that of soft tissue sarcomas.^{4–8} In fact, until 1998 the standard treatment for DF consisted of primary resection with wide margins, possibly with radiotherapy when negative margins could not be achieved or surgery would have resulted in major functional or cosmetic defects.⁹ Later, function-preserving surgery was advocated for DF, with particular emphasis on limiting unnecessary morbidity.^{4–6} A “wait & see” (W&S) policy alone was first proposed for recurrent but stable lesions.¹⁰ An initial period of observation also was considered for unresectable primary tumors.¹¹ Furthermore, DF may respond to chemotherapy or other systemic treatments

Data were presented at the Connective Tissue Oncology Society (CTOS) 14th Annual Meeting, London, UK, November 14–17, 2008.

© Society of Surgical Oncology 2009

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ORIGINAL ARTICLE – BONE AND SOFT TISSUE SARCOMAS

Spontaneous Regression of Primary Abdominal Wall Desmoid Tumors: More Common than Previously Thought

Sylvie Bonvalot, MD, PhD¹, Nils Ternès, MS², Marco Fiore, MD³, Georgina Bitsakou, MD¹, Chiara Colombo, MD³, Charles Honoré, MD¹, Andrea Marrari, MD⁴, Axel Le Cesne, MD⁵, Federica Perrone, MD⁶, Ariane Dunant, MS², and Alessandro Gronchi, MD³

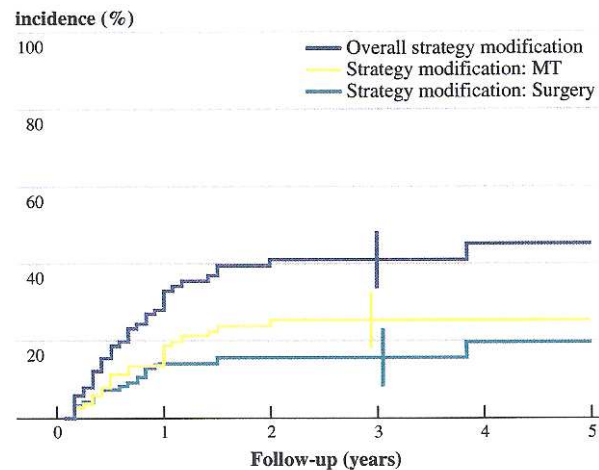


FIG. 2 Cumulative incidence of overall strategy modification, switch to medical treatment with no further switch, and final switch to surgery

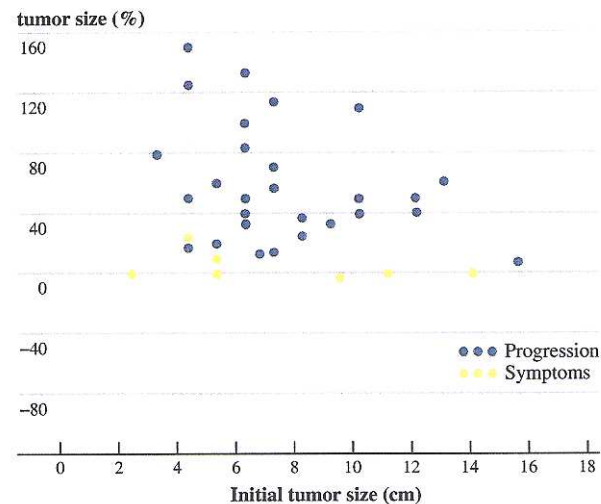


FIG. 3 Change in tumor size for patients with modification strategy (each point represents a patient)

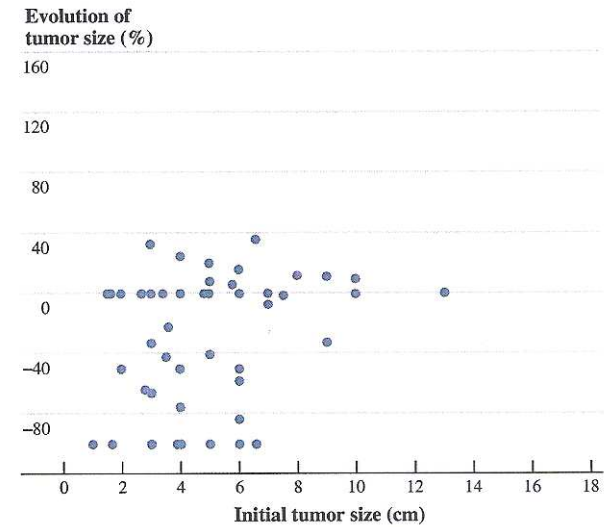


FIG. 4 Change in tumor size for patients without modification strategy (each point represents a patient)

147 patients



Sporadic extra abdominal wall desmoid-type fibromatosis: Surgical resection can be safely limited to a minority of patients



C. Colombo^a, R. Miceli^b, C. Le Péchoux^c, E. Palassini^d, C. Honoré^e, S. Stacchiotti^d,
O. Mir^f, P.G. Casali^d, J. Dômont^f, M. Fiore^a, A. Le Cesne^f, A. Gronchi^{a,*},
S. Bonvalot^e

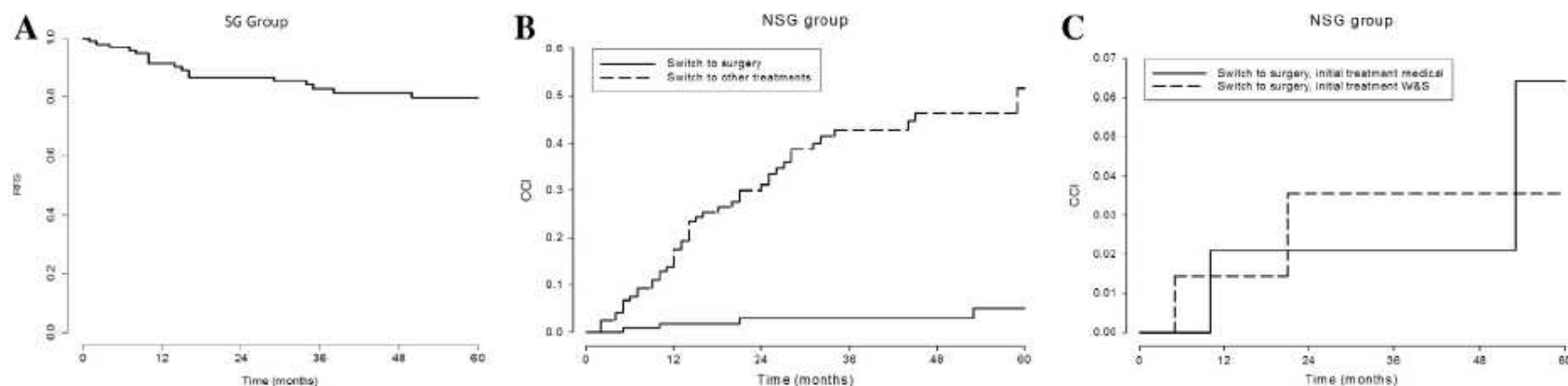


Fig. 1. Recurrence free survival for patients in surgical (SG) (panel A); crude cumulative incidence (CCI) of switch strategy in non-surgical (NSG) group: switch to surgery versus other treatments (Panel B) and switch to surgery if initial treatment was wait and see (W&S) versus medical treatments (Panel C).

Toward Observation as First-line Management in Abdominal Desmoid Tumors

Sally M. Burtenshaw, MSc^{1,2,3}, Amanda J. Cannell, BScH^{1,2,3}, Edward D. McAlister, MD, MSc^{1,2,3},
Saqib Siddique, MD^{1,2,3}, Rita Kandel, MD^{4,5}, Martin E. Blackstein, MD, PhD^{6,7}, Carol J. Swallow, MD, PhD^{1,2,3},
and Rebecca A. Gladdy, MD, PhD^{1,2,3}

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with clinical practice at that time. Nonetheless, there did not appear to be any disadvantages to an initial W&S management strategy that was implemented in the second half of the time period included in our study. There may even be a benefit from this approach, as patients who have DT that spontaneously regresses can be identified and spared an unnecessary surgical procedure. Our series also

The treatment of desmoid tumors: a stepwise clinical approach

S. Bonvalot^{1*}, A. Desai¹, S. Coppola¹, C. Le Péchoux², P. Terrier³, J. Dômont⁴ & A. Le Cesne⁴

¹Departments of Surgery; ²Radiotherapy; ³Pathology; ⁴Medical Oncology, Institut Gustave Roussy, Villejuif, France

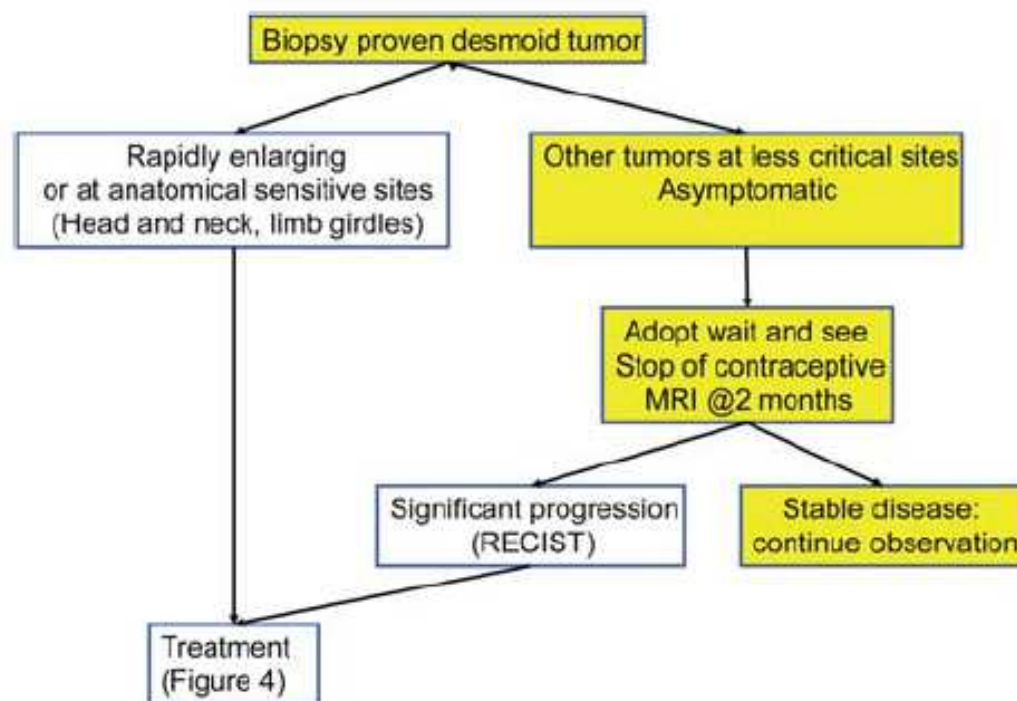


Figure 3. Initial treatment algorithm for primary desmoids.

Management of sporadic desmoid-type fibromatosis:
A European consensus approach based on patients' and
professionals' expertise – A Sarcoma Patients EuroNet and
European Organisation for Research and Treatment of
Cancer/Soft Tissue and Bone Sarcoma Group initiative



B. Kasper^{a,*}, C. Baumgarten^b, S. Bonvalot^c, R. Haas^d, F. Haller^e, P. Hohenberger^a,
G. Moreau^f, W.T.A. van der Graaf^g, A. Gronchi^h, on behalf of the Desmoid Working
Group¹

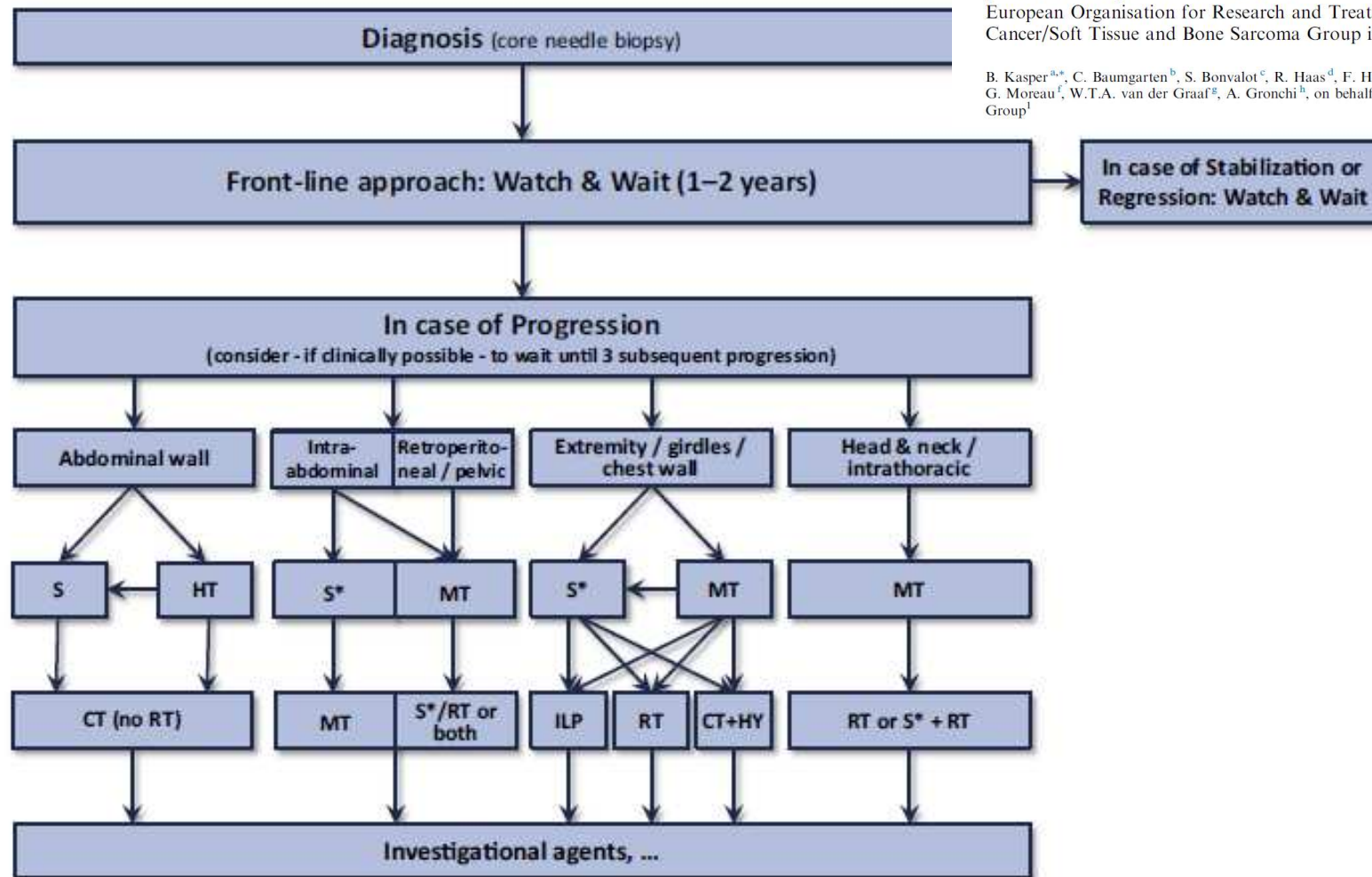
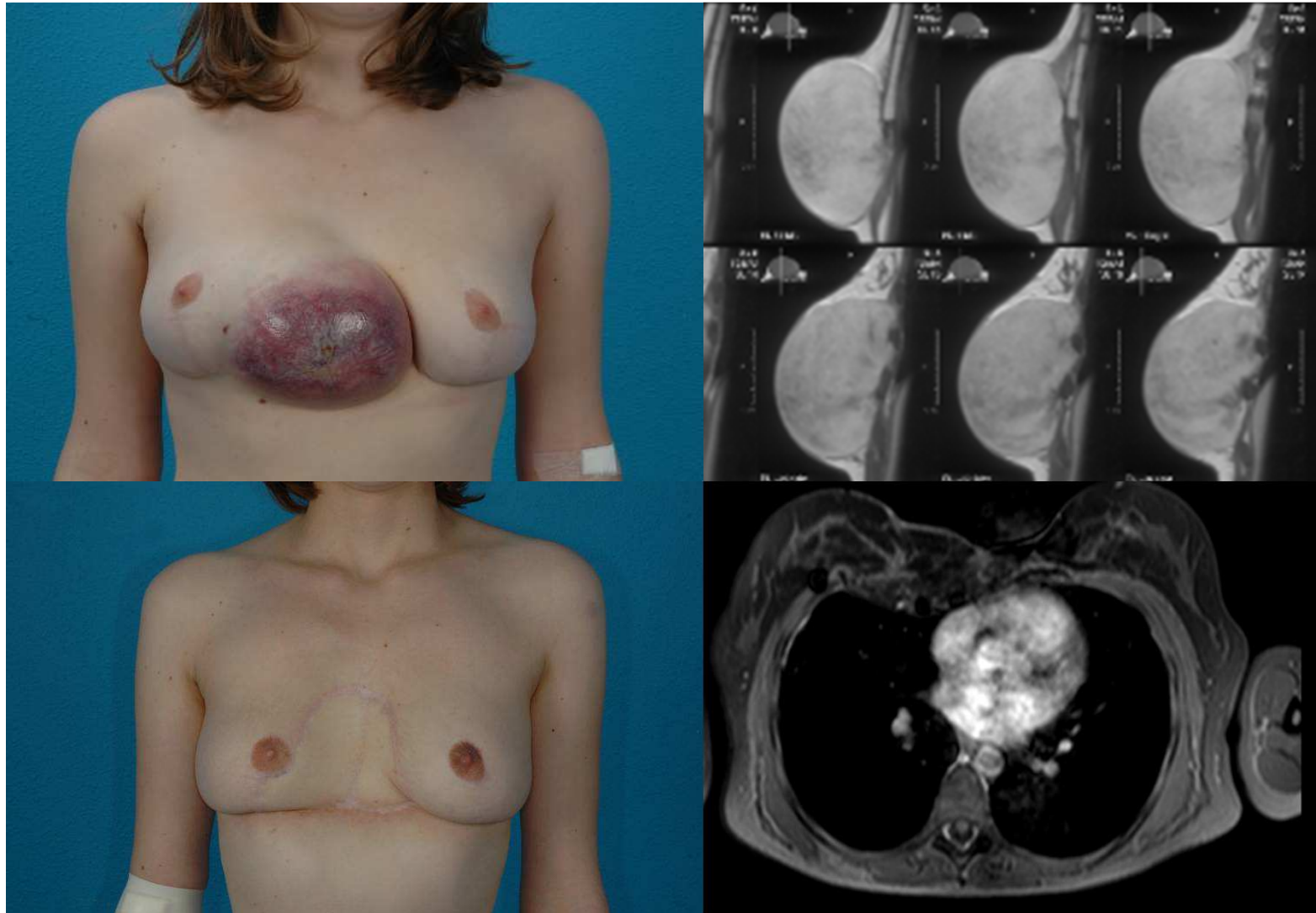


Fig. 1. Consensus algorithm. Abbreviations: HT, hormonal therapy; S, surgery; S*, surgery is an option if morbidity is limited; MT, medical therapy; RT, Radiotherapy; CT, chemotherapy; ILP, isolated limb perfusion; HY: hyperthermia.

Who should be operated immediately

- Complication (occlusion, perforation...)
 - Treatment of the complication without systematic resection of the tumor, specifically in PAF
- Cosmetic issue

Cosmetic issue



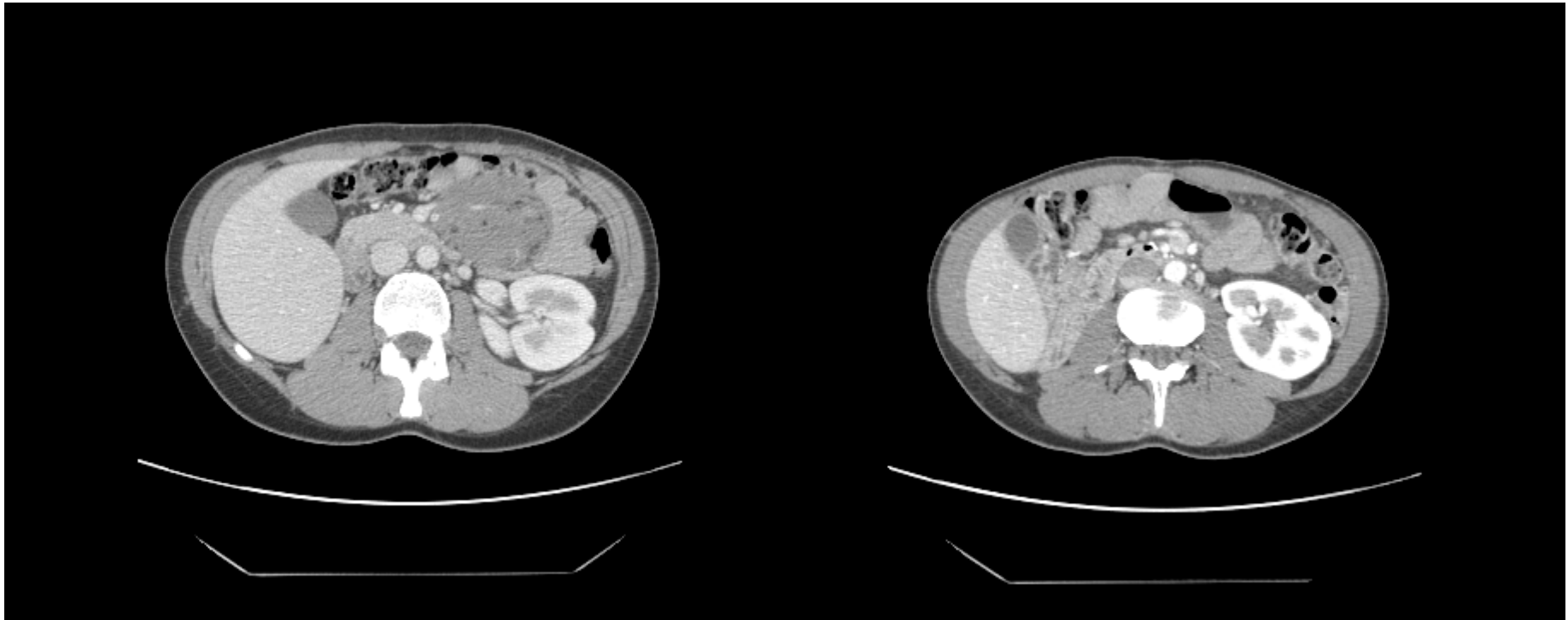
Who should be operated immediately +/-

- No diagnosis/diagnosis doubt +/-
- Size +/-
- Vital risk in case of progression and T resectable +/-

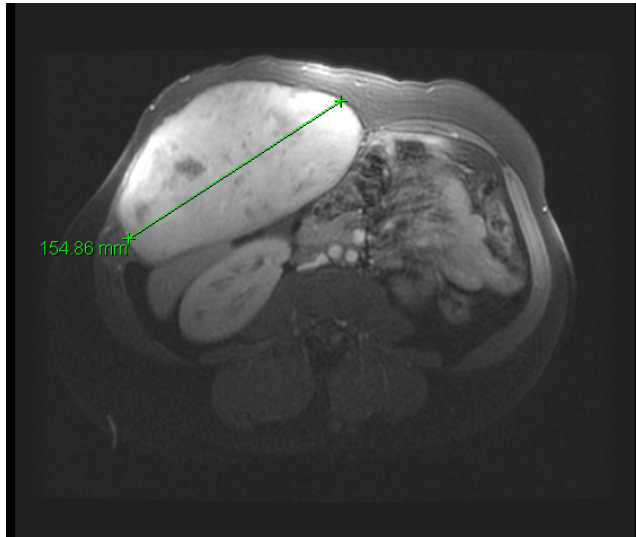
No proven diagnosis

2007

2015



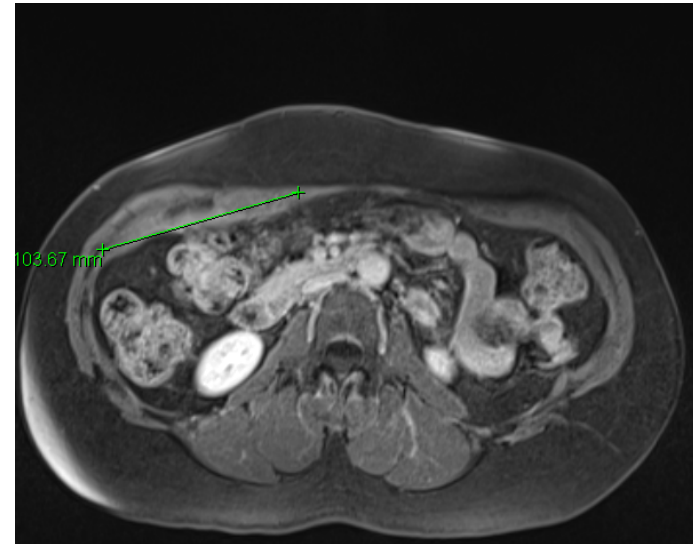
Size +/-



May 2005

Female: 50 years old

Biopsy: Desmoid (review FSG)



Oct 2011

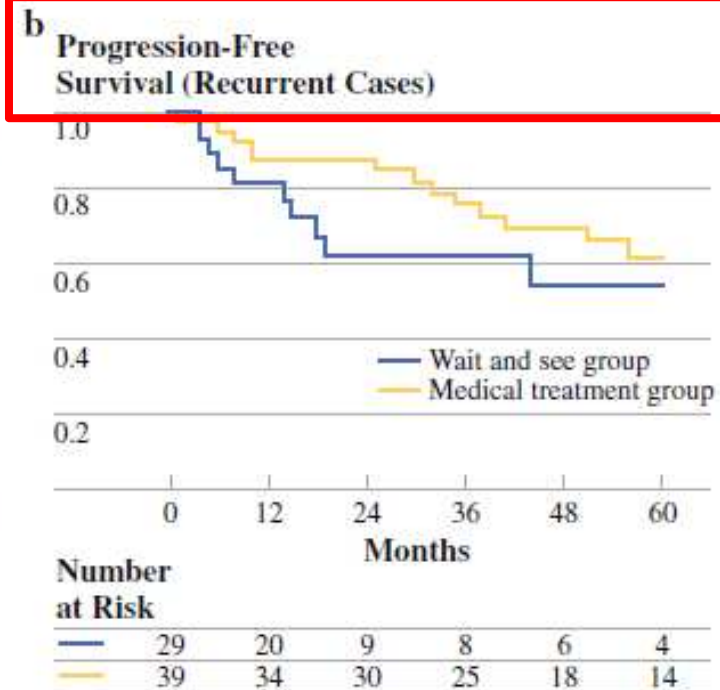
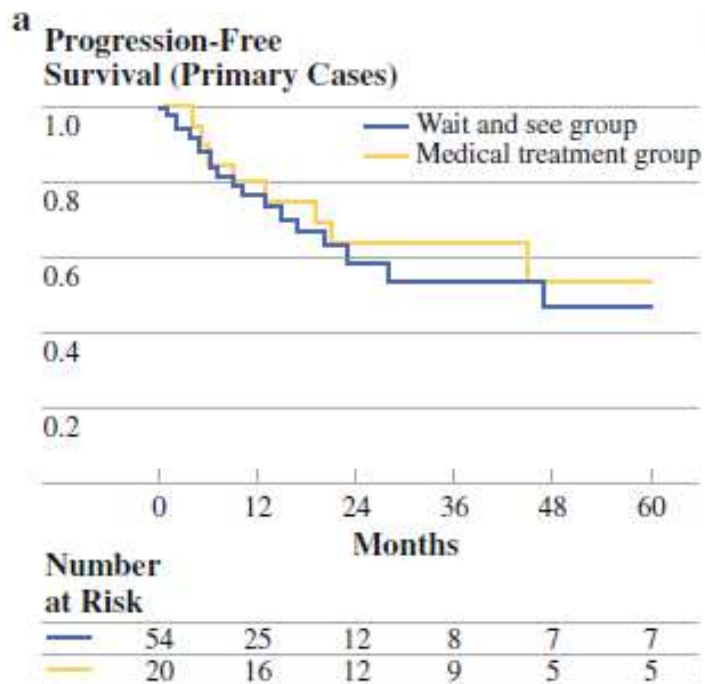
- Size criteria is not sufficient...
- Regression/Stabilisation in desmoids is likely to have been underestimated as it has been calculated in a group of patients with recurrences where surgical options have been exhausted...

What are not sufficient reasons to operate immediately?

- Mild pain
- Patient referred for surgery
- Recurrence
- Pregnancy
- Familial adenomatous polyposis ++
(sub/total colectomy)

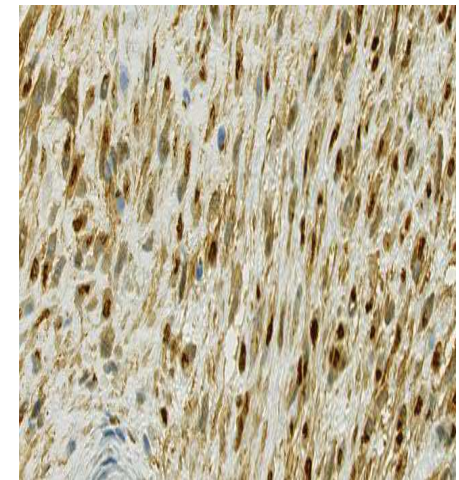
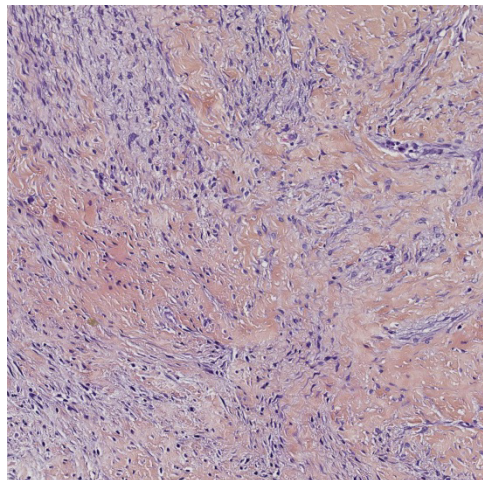
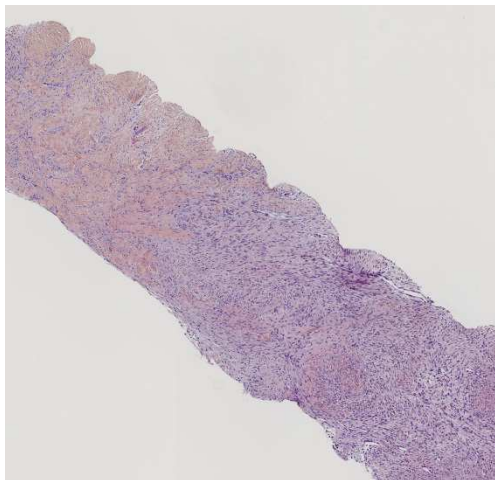
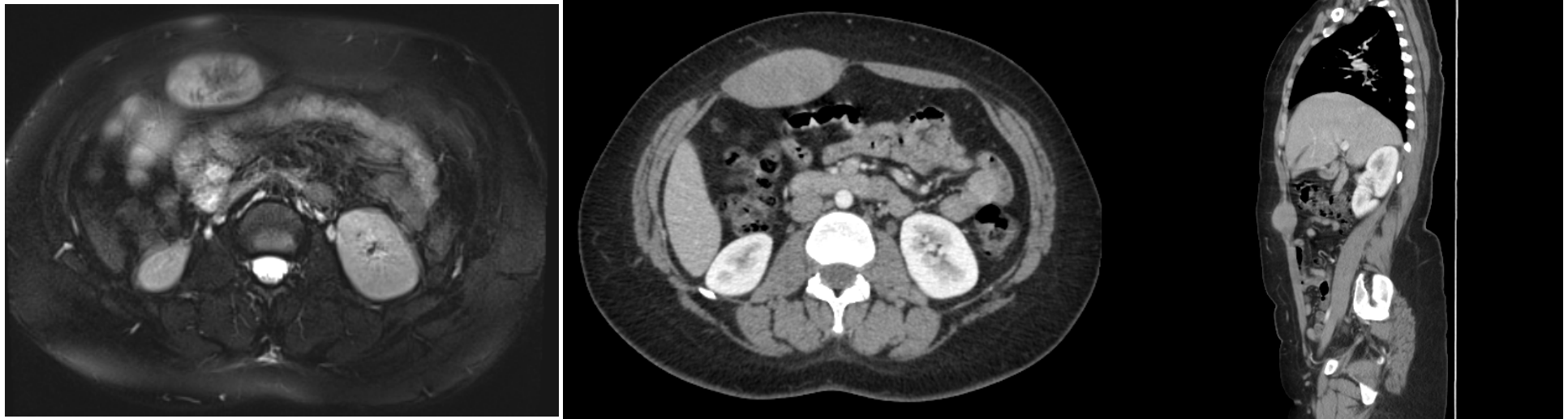
Desmoid-Type Fibromatosis: A Front-Line Conservative Approach to Select Patients for Surgical Treatment

Marco Fiore, MD¹, Françoise Rimareix, MD², Luigi Mariani, MD³, Julien Domont, MD⁴, Paola Collini, MD⁵, Cecile Le Péchoux, MD⁶, Paolo G. Casali, MD⁷, Axel Le Cesne, MD⁴, Alessandro Gronchi, MD¹, and Sylvie Bonvalot, MD, PhD²

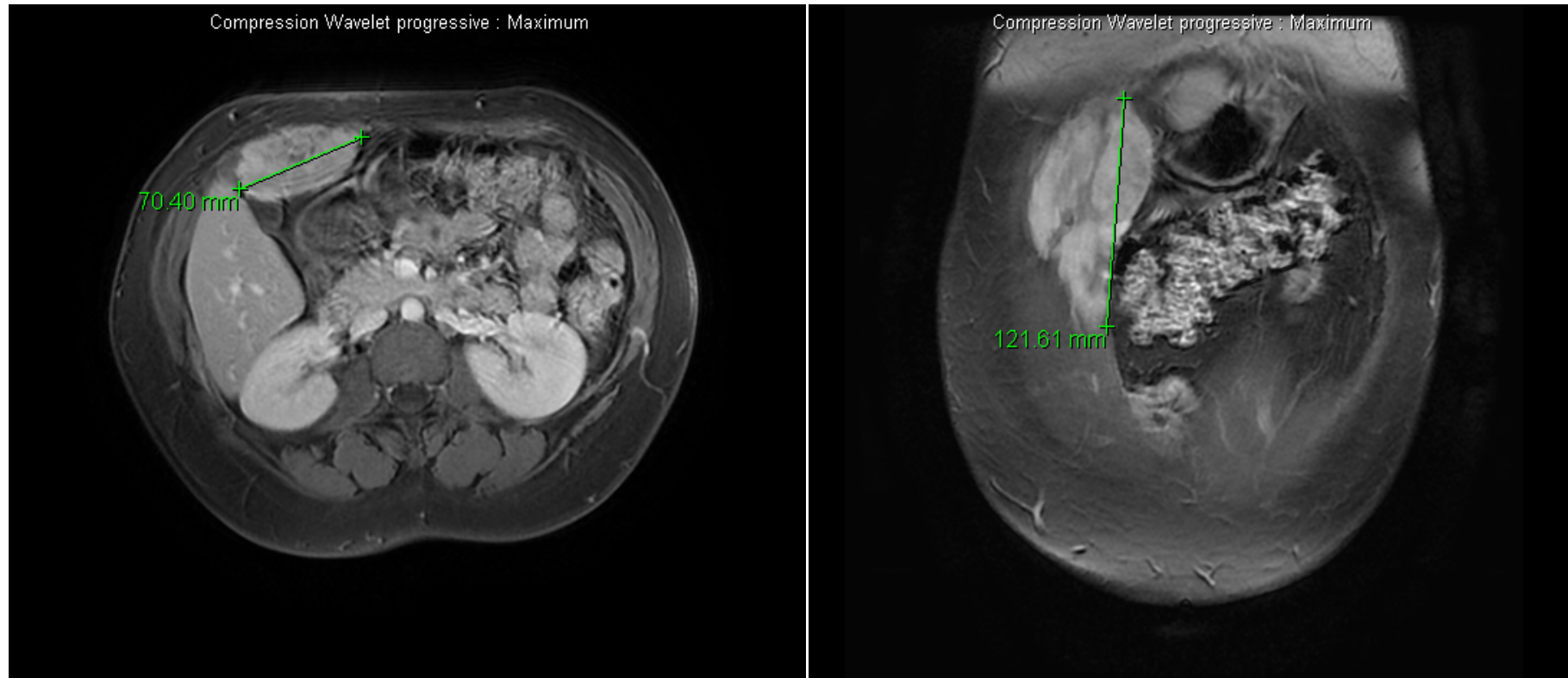


April 2012

- 29 year-old woman, No past history
- Right parietal mass increasing in size (8 cm) for 5 months
- Percutaneous needle core biopsy / sonography
- Desmoïd tumor, Somatic mutation CTNNB1 T 41 A



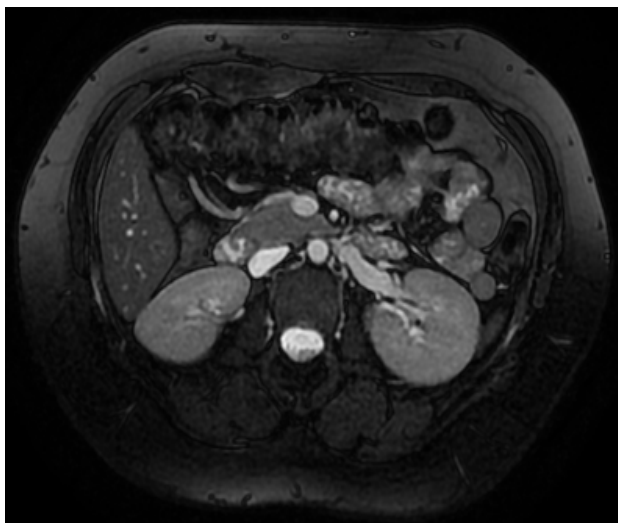
- Gave birth to a healthy baby april 2013
- Clinically: \pm 12 cm mass (+50%)



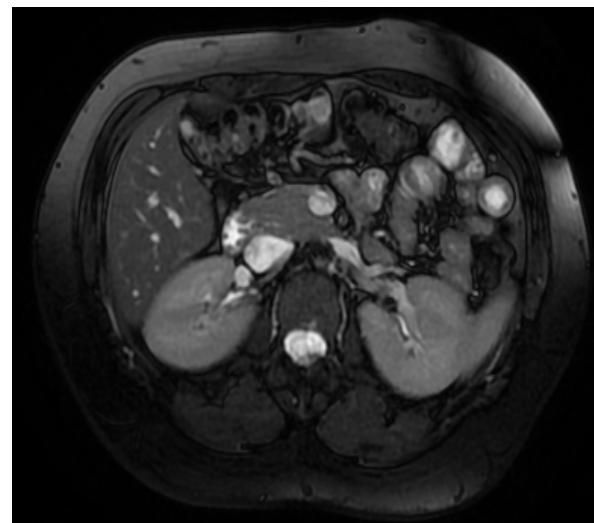
April 2013 +1Year + 50%



April 2013
Delivery



November 2013



May 2014
+2 years ≈ 0

Evaluation of management of desmoid tumours associated with familial adenomatous polyposis in Dutch patients

MH Nieuwenhuis^{*,1}, EM Mathus-Vliegen², CG Baeten³, FM Nagengast⁴, J van der Bijl⁵, AD van Dalsen⁶, JH Kleibeuker⁷, E Dekker², AM Langers⁸, J Vecht⁹, FT Peters⁷, R van Dam³, WG van Gemert³, WN Stuijbergen¹⁰, WR Schouten¹¹, H Gelderblom¹² and HFA Vasen^{1,8}

BACKGROUND: The optimal treatment of desmoid tumours is controversial. We evaluated desmoid management in Dutch familial adenomatous polyposis (FAP) patients.

METHODS: Seventy-eight FAP patients with desmoids were identified from the Dutch Polyposis Registry. Data on desmoid morphology, management, and outcome were analysed retrospectively. Progression-free survival (PFS) rates and final outcome were compared for surgical vs non-surgical treatment, for intra-abdominal and extra-abdominal desmoids separately. Also, pharmacological treatment was evaluated for all desmoids.

RESULTS: Median follow-up was 8 years. For intra-abdominal desmoids ($n = 62$), PFS rates at 10 years of follow-up were comparable after surgical and non-surgical treatment (33% and 49%, respectively, $P = 0.163$). None of these desmoids could be removed entirely. Eventually, one fifth died from desmoid disease. Most extra-abdominal and abdominal wall desmoids were treated surgically with a PFS rate of 63% and no deaths from desmoid disease. Comparison between NSAID and anti-estrogen treatment showed comparable outcomes. Four of the 10 patients who received chemotherapy had stabilisation of tumour growth, all after doxorubicin combination therapy.

CONCLUSION: For intra-abdominal desmoids, a conservative approach and surgery showed comparable outcomes. For extra-abdominal and abdominal wall desmoids, surgery seemed appropriate. Different pharmacological therapies showed comparable outcomes. If chemotherapy was given for progressively growing intra-abdominal desmoids, most favourable outcomes occurred after combinations including doxorubicin.

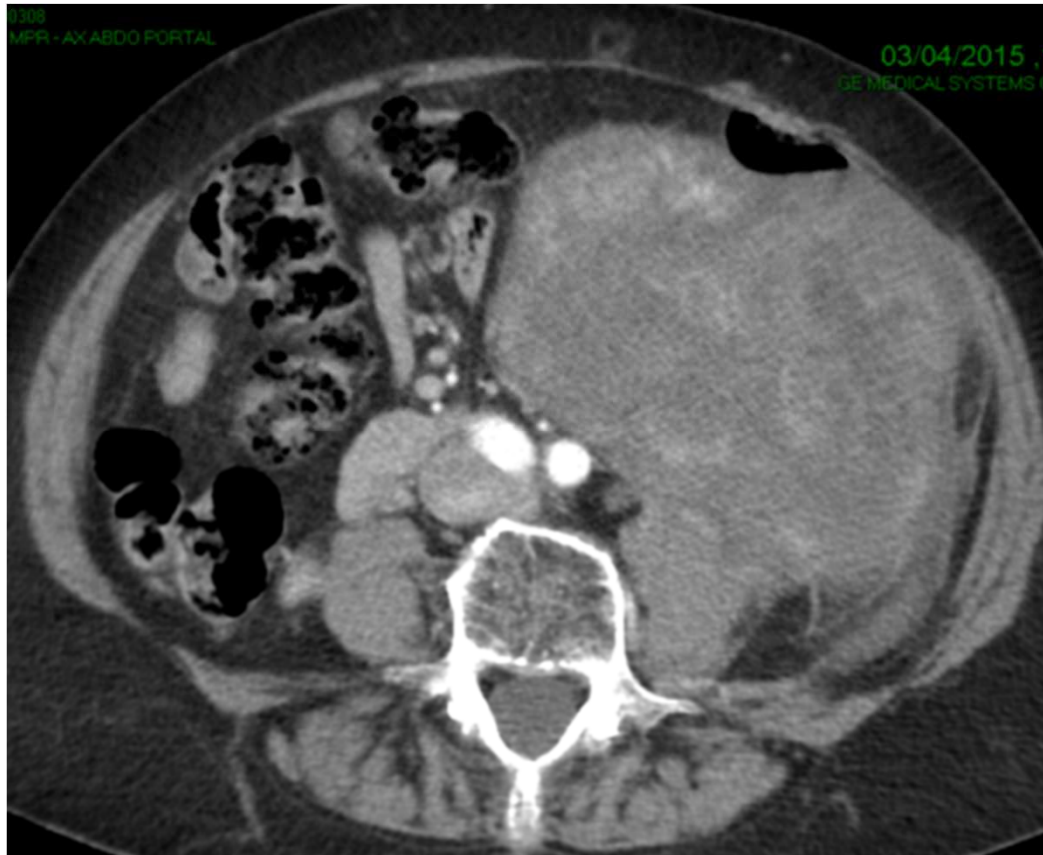
British Journal of Cancer (2011) **104**, 37–42. doi:10.1038/sj.bjc.6605997 www.bjcancer.com

Published online 9 November 2010

CONCLUSION: For intra-abdominal desmoids, a conservative approach and surgery showed comparable outcomes.

Best indications after progression

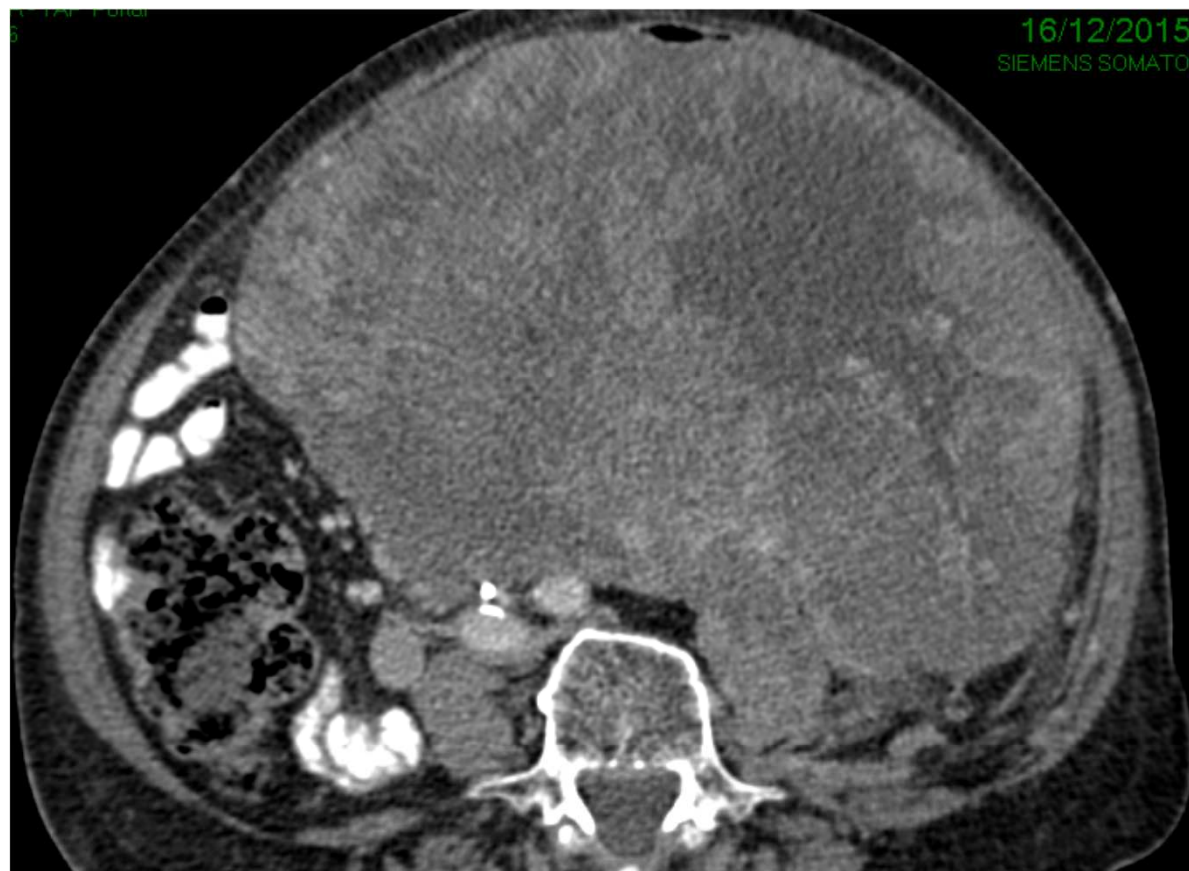
- February 2015: self palpation abdominal mass
May 2015 percutaneous biopsy: desmoid



June -august 2015: TAM

August-december 2015: Navelbine ...Votrient

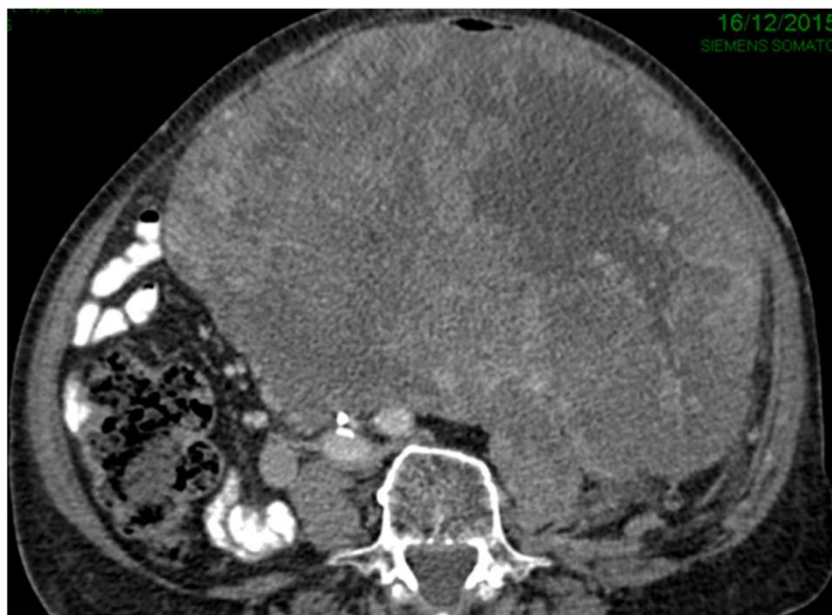
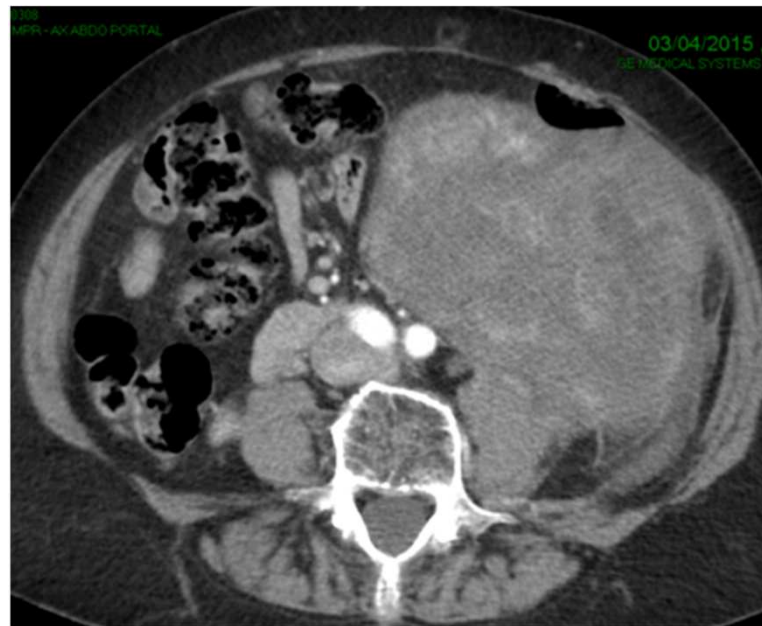
December 2015:Consultation Curie



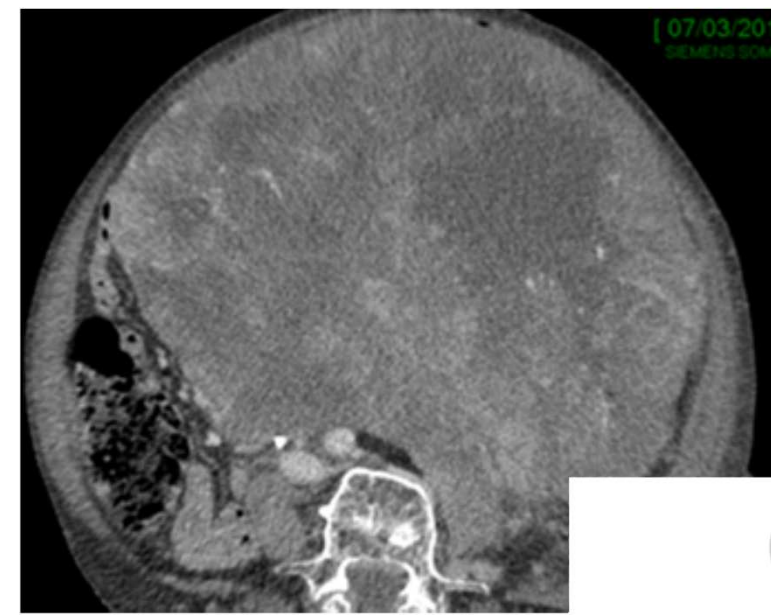
September 2014



Avril 2015



December 2015



March 2016



Available online at www.sciencedirect.com

ScienceDirect

journal homepage: www.ejancer.com



Original Research

Management of desmoid tumours: A nationwide survey of labelled reference centre networks in France[☆]



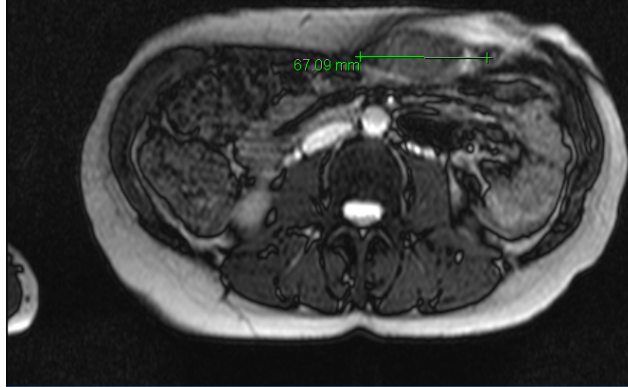
Nicolas Penel ^{a,b,*}, Jean-Michel Coindre ^c, Sylvie Bonvalot ^{d,e},
Antoine Italiano ^f, Agnès Neuville ^c, Axel Le Cesne ^g, Philippe Terrier ^h,
Isabelle Ray-Coquard ⁱ, Dominique Ranchere-Vince ^j,
Yves-Marie Robin ^k, Nicolas Isambert ^l, Gwennaél Ferron ^m,
Florence Duffaud ⁿ, François Bertucci ^o, Maria Rios ^p, Eberhad Stoeckle ^q,
Cécile Le Pechoux ^r, Cécile Guillemet ^s, Jean-Baptiste Courreges ^t,
Jean-Yves Blay ⁱ

- 2010 to 2013, expert pathologists of FSG confirmed the diagnosis of DT in 861 pts
- 445 pts initially diagnosed outside the referral centers, were reviewed
- Prior to the review, DT was diagnosed in 389/545 cases (71.3%)
- 156/545 cases (28.7%) had another diagnosis
- The most common misdiagnoses were:
 - sarcoma in 35/156 cases (22.4%)
 - GIST in 26/156 cases (16.6%)
 - nodular fasciitis 20/156 cases (12.8%)
 - leiomyoma 6/156 cases (3.8%)

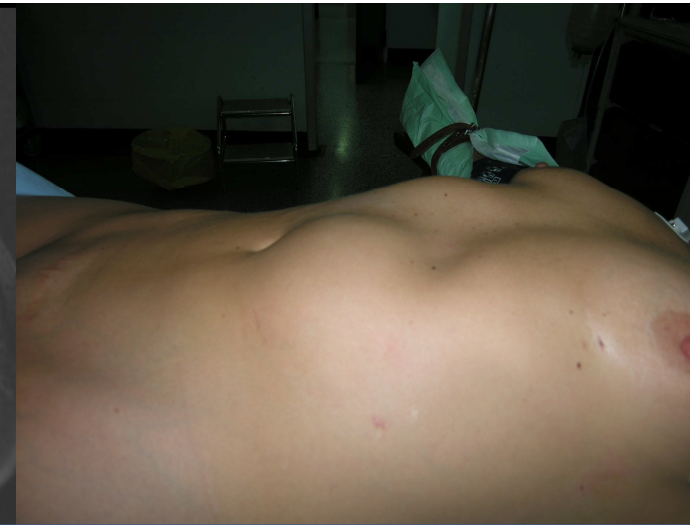
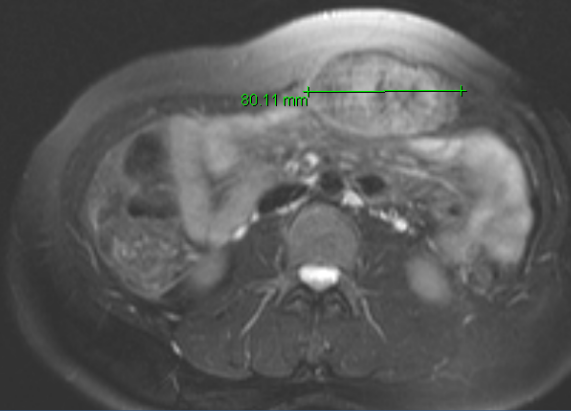
Best indications of surgery after progression

- Abdominal/thoracic wall
- Limb when no anatomical constraints
- Intra-abdominal: when limited small intestine resection

April 2004

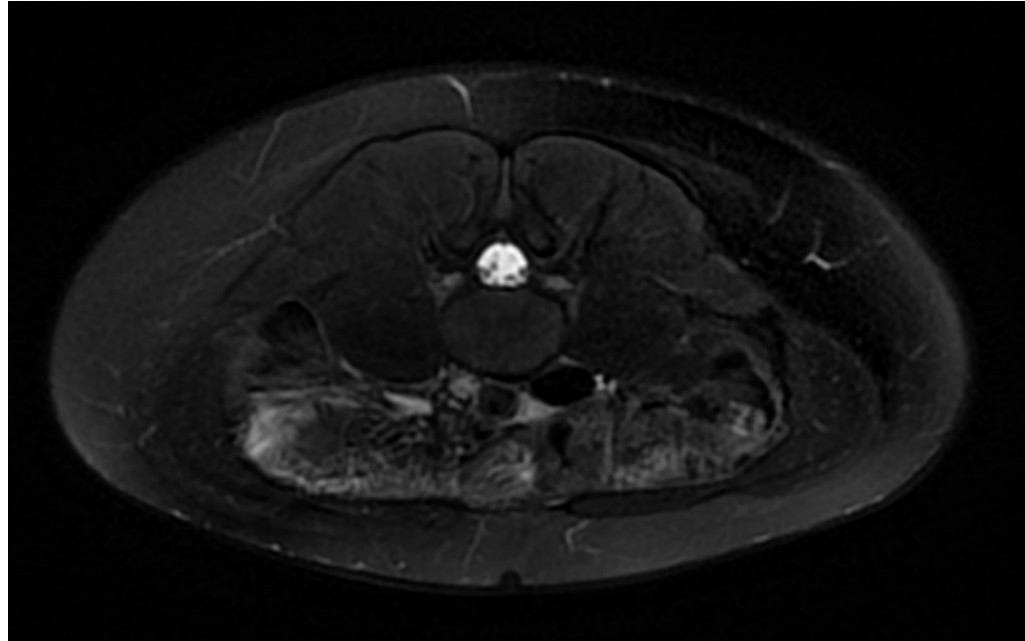
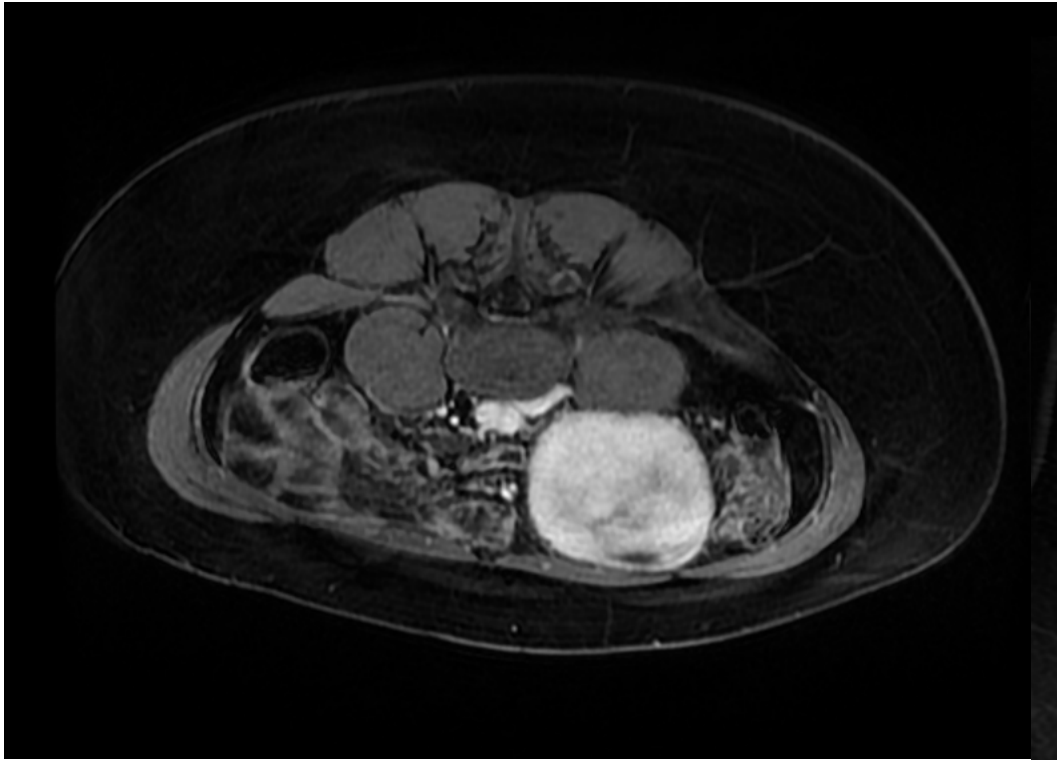


January 2005



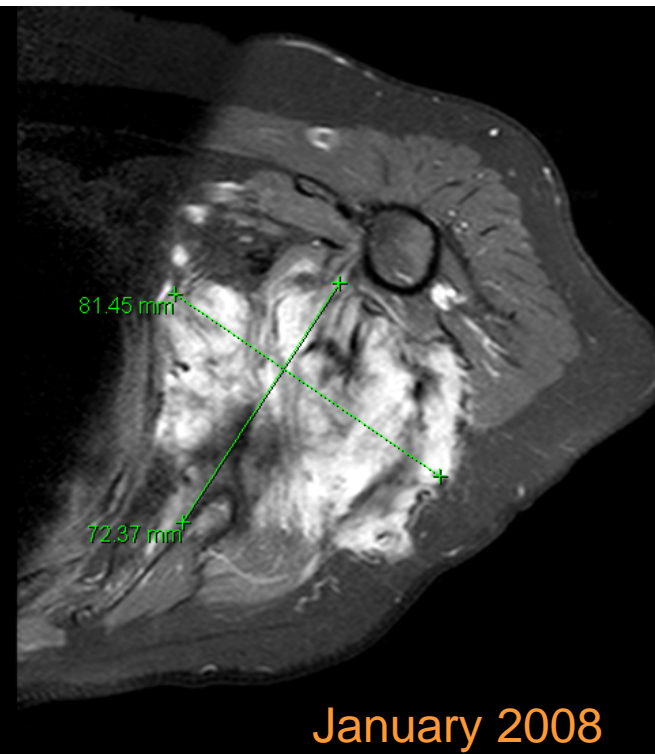
March 2011

- 31 years old female
- AF (biopsy)
- Evolutive after 9 months including 6 mths TAM
- Parietectomy



Best indications of radiotherapy after progression

- **Girdle**
- **Head and neck**
- **Back**
- **Limb when anatomical constraints**



Female 59 years old
 Surgical biopsy: desmoid
 Initial wait and see
 Progression
 Exclusive radiotherapy 60 Gy



Surgery: how??

- Margins
- Reconstructions
- ILP

Patients of retrospective studies

Indolent AF

1/2

Progressive AF

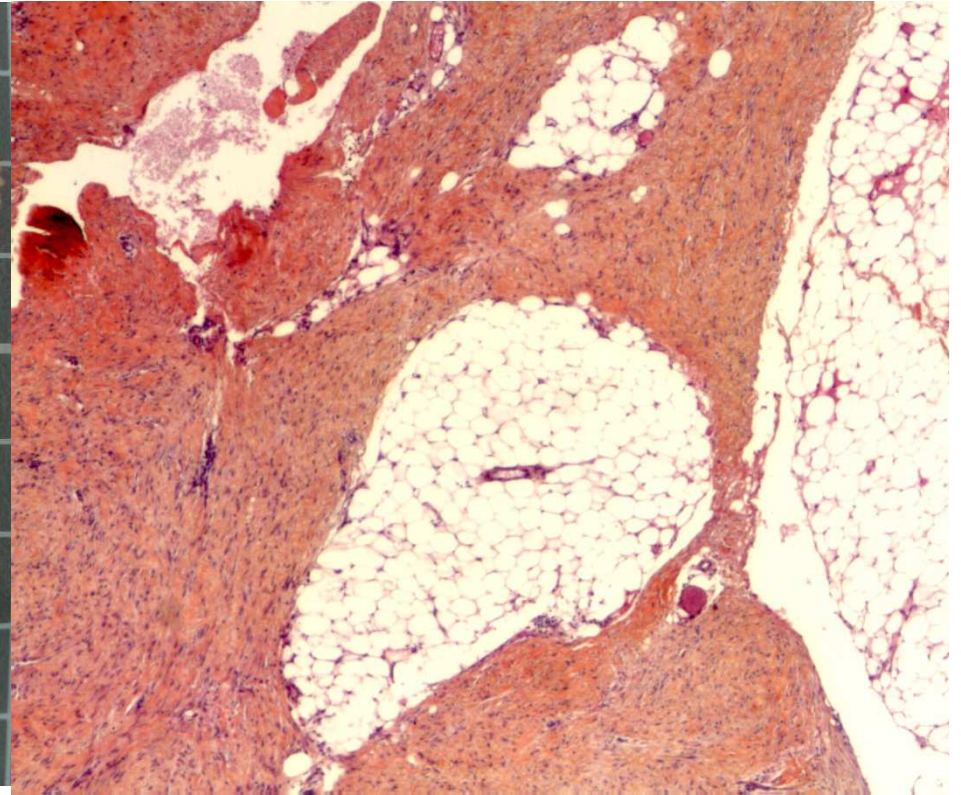
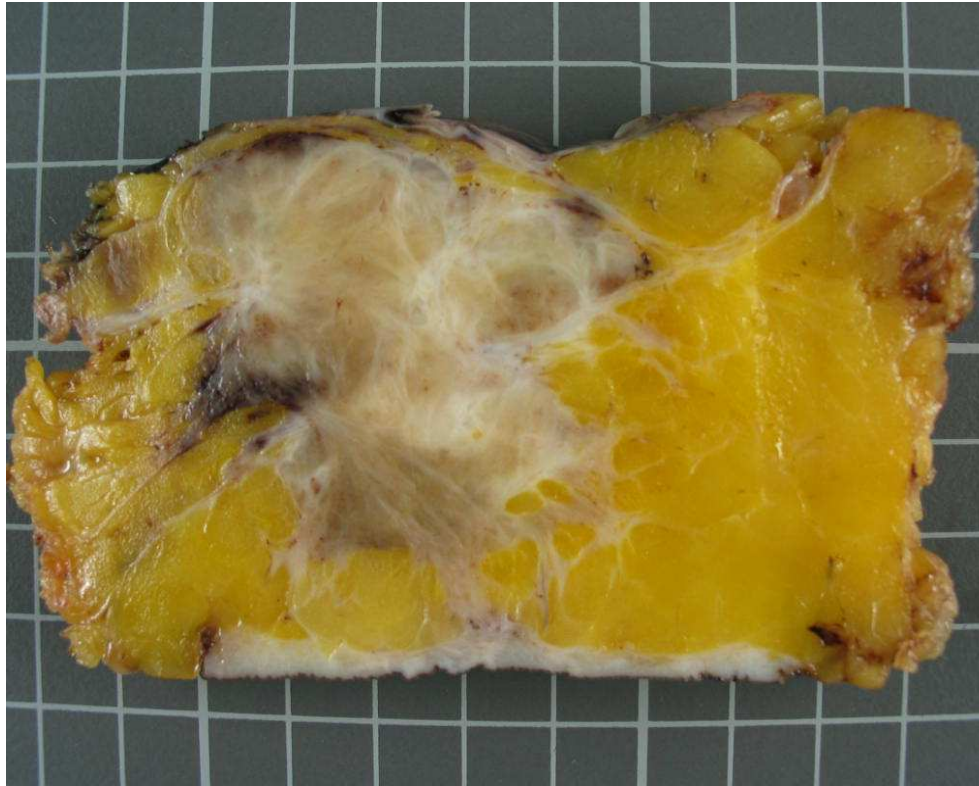
1/2

Alltogether

No impact of margins

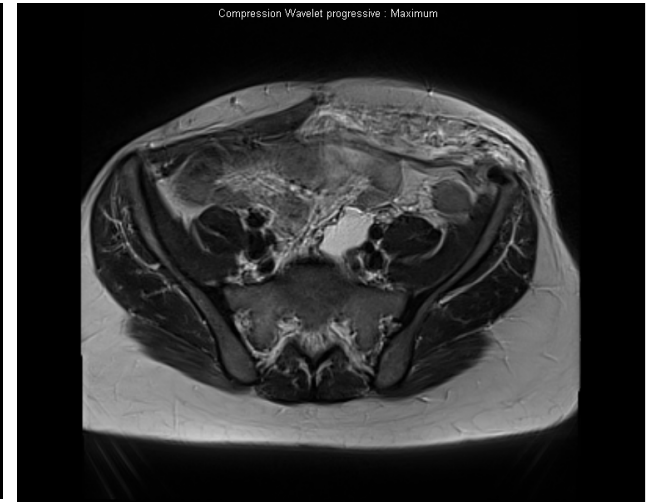
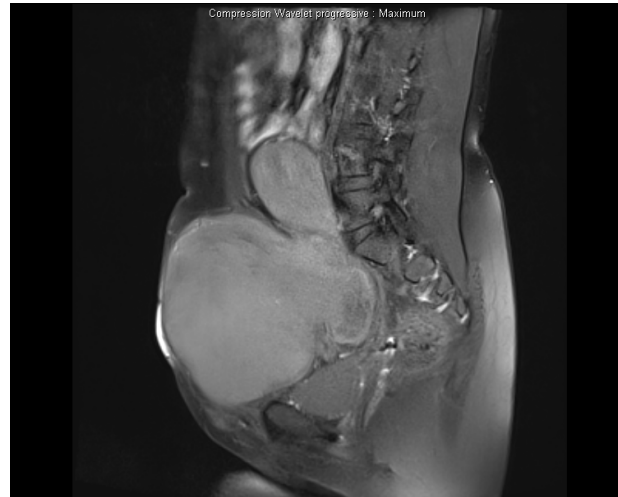
No impact of margins
All treatments will be efficient
No treatment could be enough

Negative impact of positive margins
Need for adapted treatment

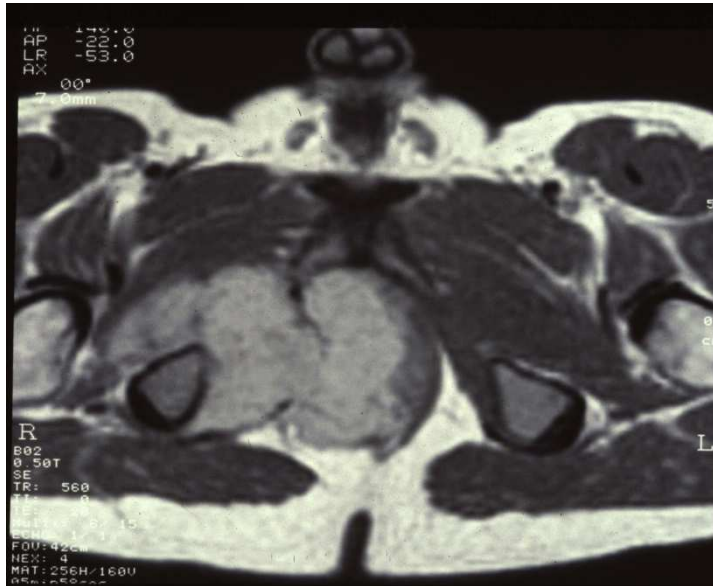


Desmoide

Surgery and Reconstruction



Surgery and Reconstruction



Isolated limb perfusion with tumor necrosis factor-alpha and melphalan has a possible role

	N	CR	PR	Stable	Local progression
Lev- chelouche (Surgery 1999)	6	2	3		2 (Follow up 45 months)
Bonvalot (Ann Surg Oncol 2010)	8	1	6		1 (Follow up 27 months)
van Broekhoven (BJS 2014)	25	2	16	7	Amputation 3 pts (Follow up 84months)



20 years old Female Fibromatosis of the thigh

Etude WS

- PHRC
- 100 pts déjà inclus/100 prévus
- Attente follow up 3 ans
- Résultats en 2018

Conclusions

- Patients with diagnosis doubt, complication (occlusion, perforation...), or cosmetic issue should be operated at first
- After progression, best indication of surgery are Abdominal/thoracic wall, Intra-abdominal T and limb when there is no anatomical constraints
- Objective should be complete resection
- Reconstructions must be planned up front