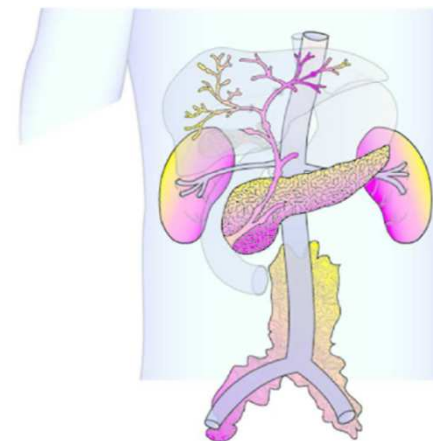
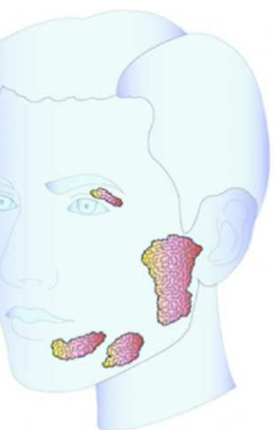




Maladie associée aux IgG4

Mikael Ebbo

Département de Médecine Interne, hôpital de la Timone, AP-HM

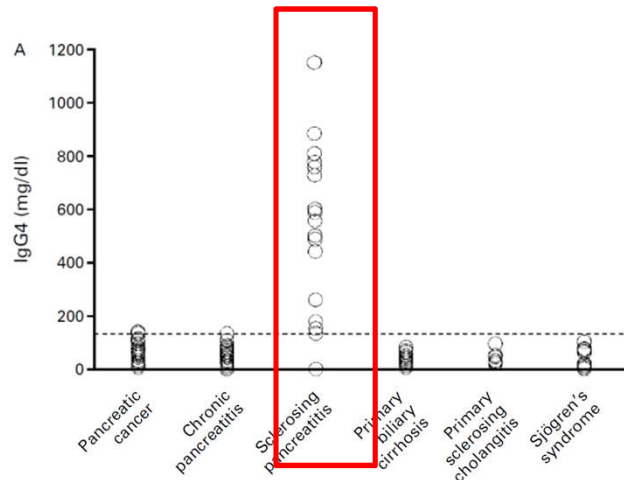
Nathalie Costedoat-Chalumeau

Le concept de « maladie associée aux IgG4 »

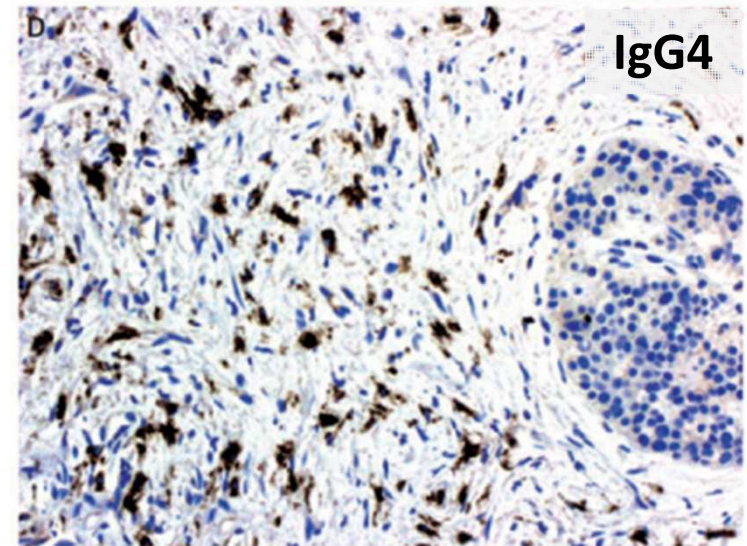
The New England Journal of Medicine

HIGH SERUM IgG4 CONCENTRATIONS IN PATIENTS WITH SCLEROSING PANCREATITIS

YASUO AMANO, M.D., SHIGEYUKI KAWA, M.D., AKIRA HORIUCHI, M.D., HIROSHI UNNO, M.D., NAOYUKI FURUYA, M.D., TAJI AKAMATSU, M.D., MANA FUKUSHIMA, M.D., TOSHIO NIKAI, D., KOHZO NAKAYAMA, PH.D., NOBUTERU USUDA, M.D., AND KENDO KIYOSAWA, M.D.



2003



2012

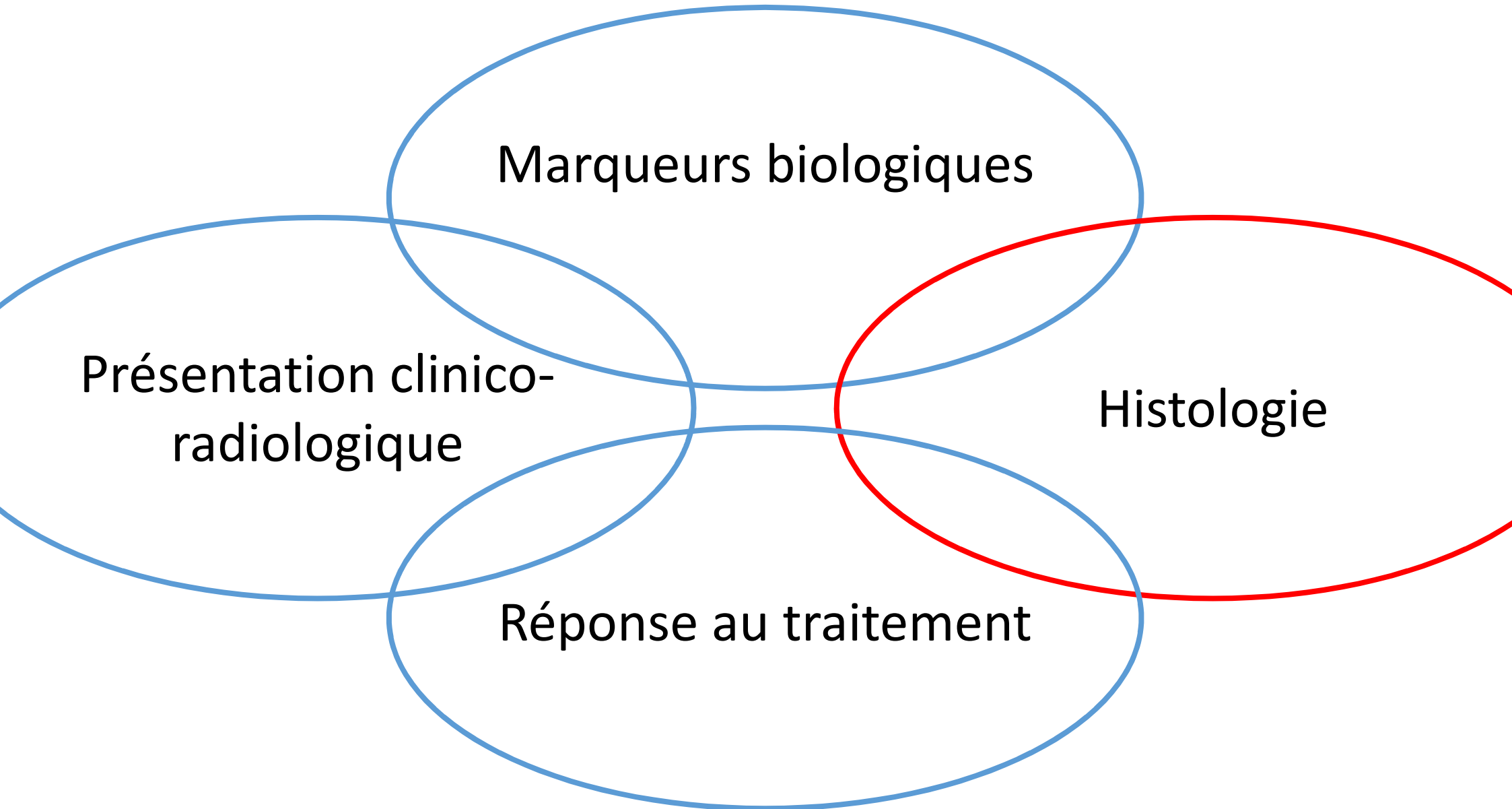
SPECIAL ARTICLE

Recommendations for the Nomenclature of **IgG4-Related Disease** and Its Individual Organ System Manifestations

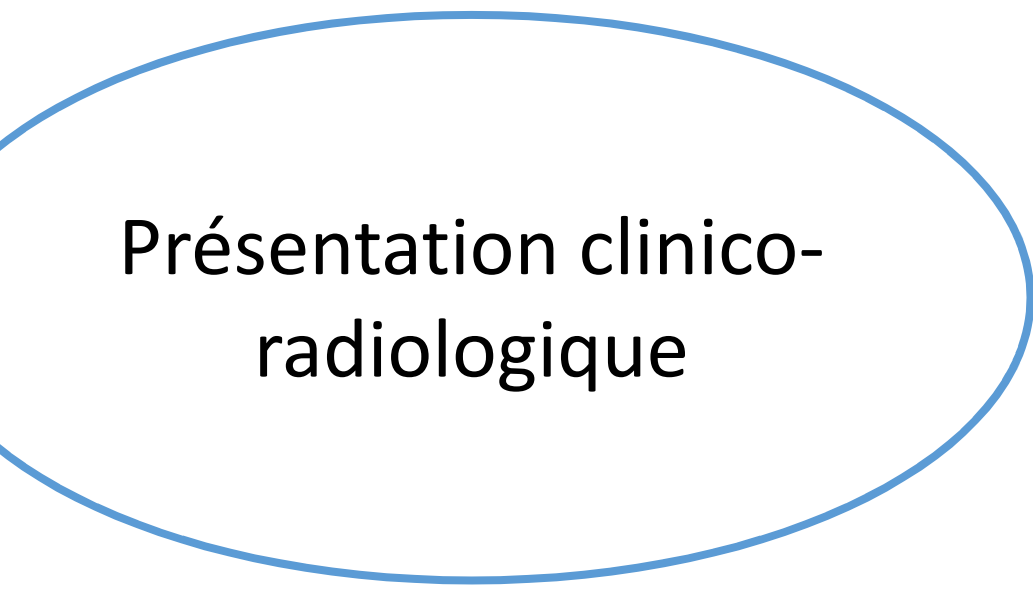
Stone JH et al. A&P

Diagnostic

Comment retenir un diagnostic de MAG4 ?

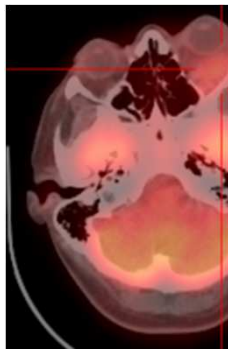
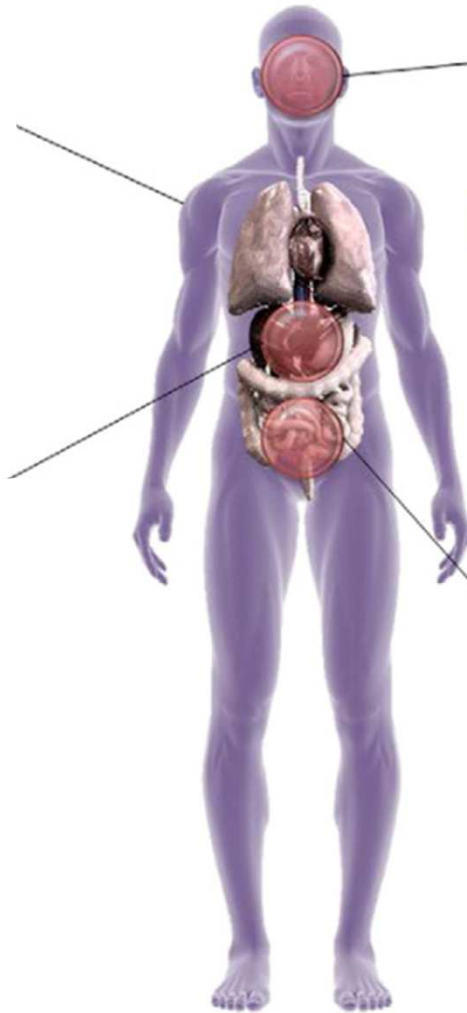
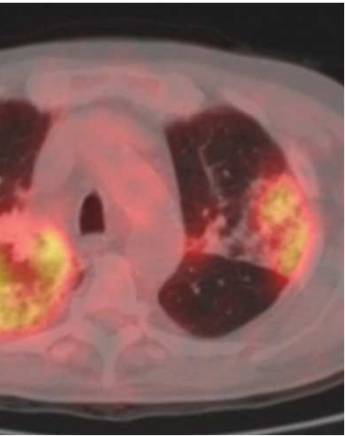


Comment retenir un diagnostic de MAG4 ?



Présentation clinico-
radiologique

« Maladie associée aux IgG4 »: atteintes d'organes



Frequencies of the main organ involvements obtained in series including unselected cases of IgG4-RD (systemic series).

qui est fréquent et évocateur

	Grados et al. ¹⁵	Wallace et al. ¹³	Fernandez-Codina A et al. ¹⁹	Campochiaro et al. ¹⁶	Chen H et al. ¹⁷	Lin W et al. ¹⁸	Inoue D et al. ^{14*}
tients	90	125	55	41	28	118	235
creas	44	19	16	44	32	38	60
rgan	81	62	47	58	86	78 (>2)	58
rgans	36	38	-		42		
ry tree	27	9	4	10	29	17	13
r	-	2	-	-	-	-	-
ph nodes	58	27	2	12	43	65	14
vary gland	32	28	16	19	79	64	34
yoadenitis	9	-	22	-	46	50	23
t	7	22	15	7	4	-	4
ey	32	12	7	2	11	24	9
	28	18	27	19	11	26	4
x	14	17	9	2	4	27	5
	30	-	-	-	11	8	-
a	13	11	9	10	4	0	20
inges	2	2	4	7	-	0	-
	-	2	0	0	-	4	-
isitis	-	4	-	4	4	12	-
enterly	1	2	7	-	-	0	-
tate	6	3	-	-	14	35	-
lastinitis	0	2	-	-	7	3	-
oid	1	-	-	-	-	1	-

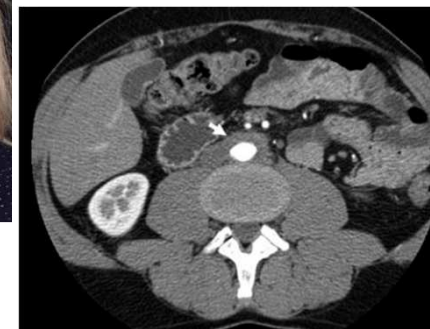
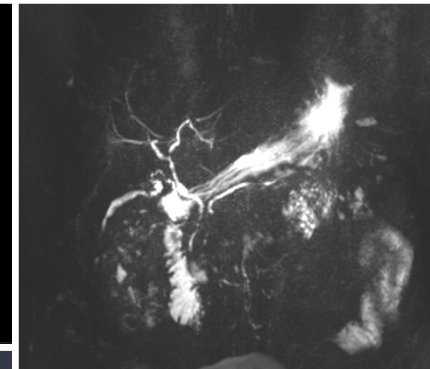
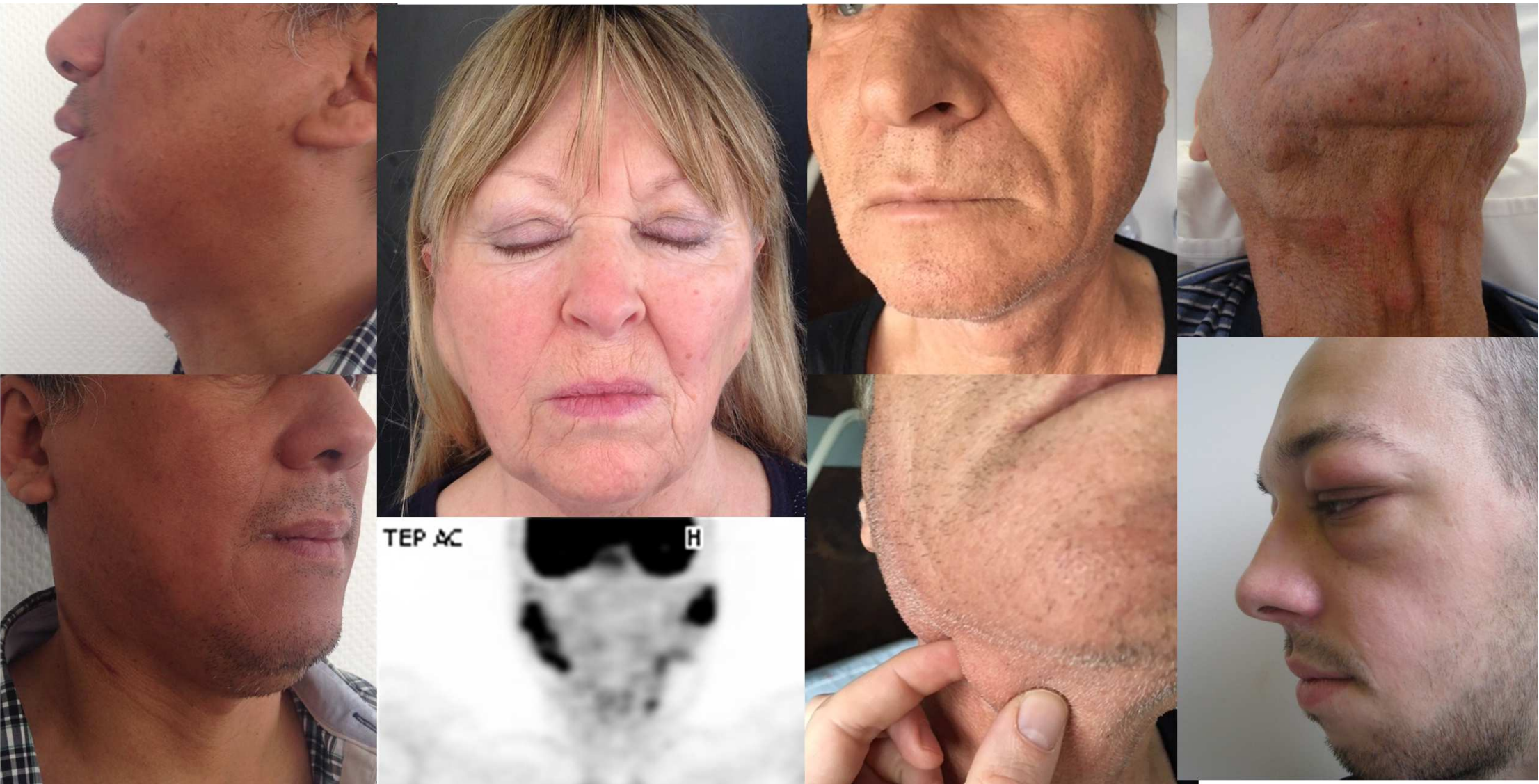
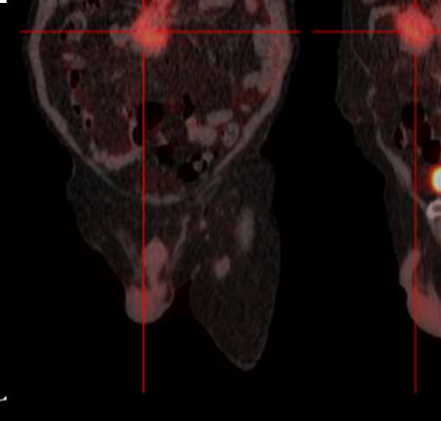
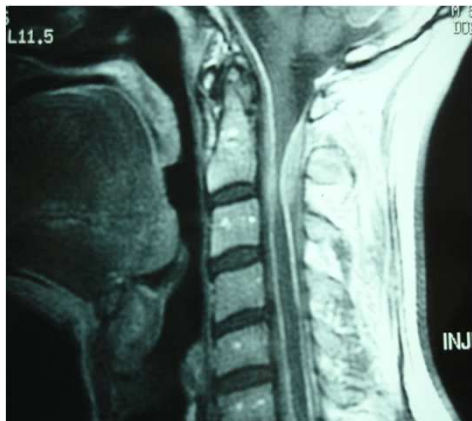
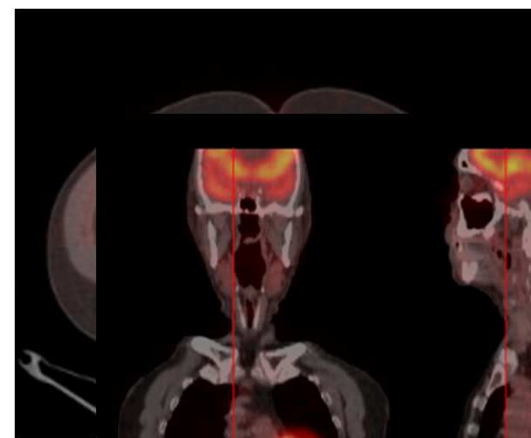
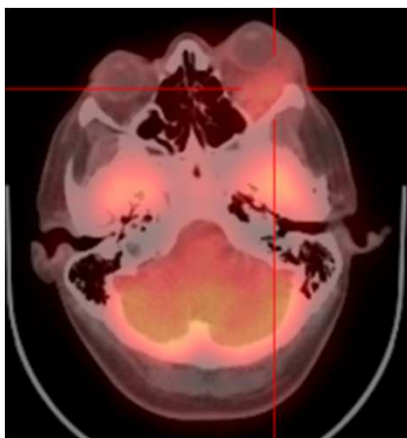
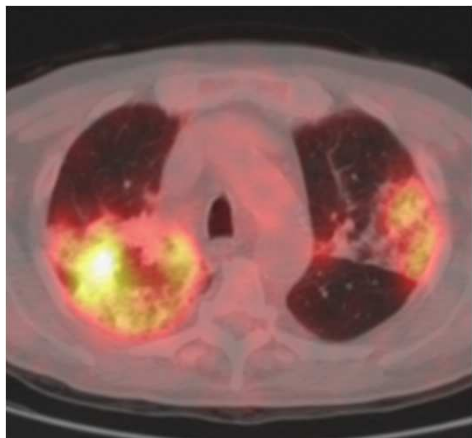


Table I. Frequency (in %) of organ involvements in case series of IgG4-RD. *Schleinitz N. et al. In Fibroinflammatory disorders. Springer. Vaglio A*

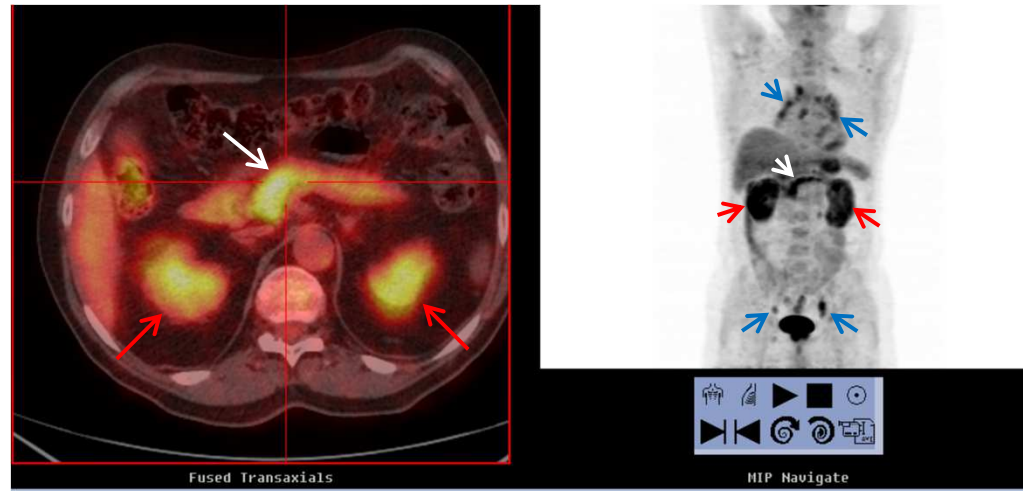
Atteinte des glandes salivaires (parotidomégalie, Sd de Mikulicz, tumeur de Küttner...)



Ce qui est plus rare...



Intérêt du TEP au cours de l'IgG4-RD



n=21

46 TEP-TDM

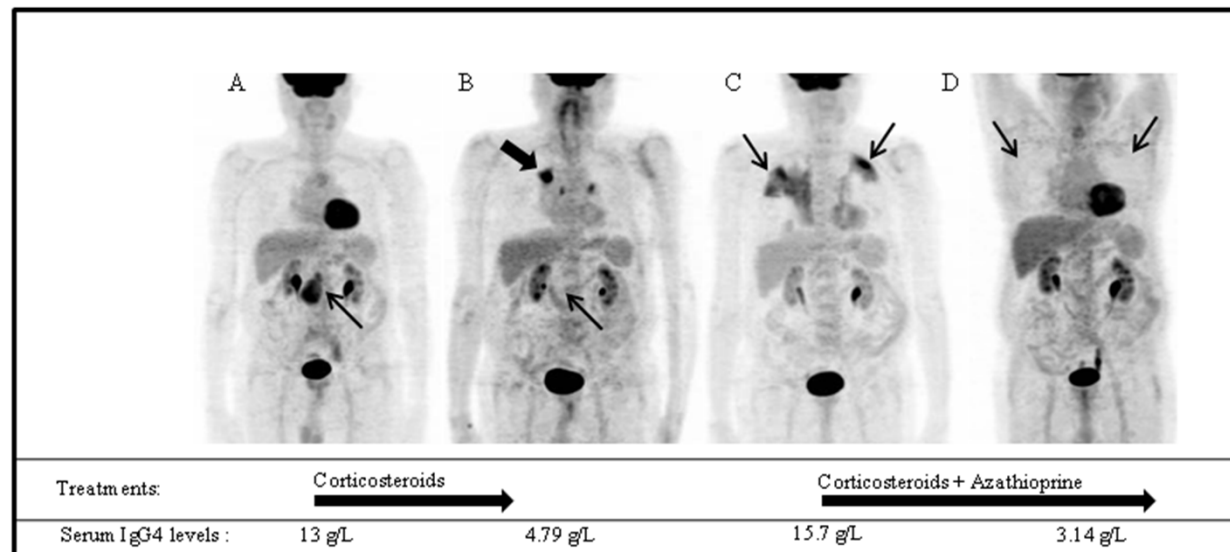
+ Sb que l'imagerie conventionnelle dans 65% des cas (Aorte, gldes salivaires, ADP)

Qq faux – (petite taille, cerveau/reins)

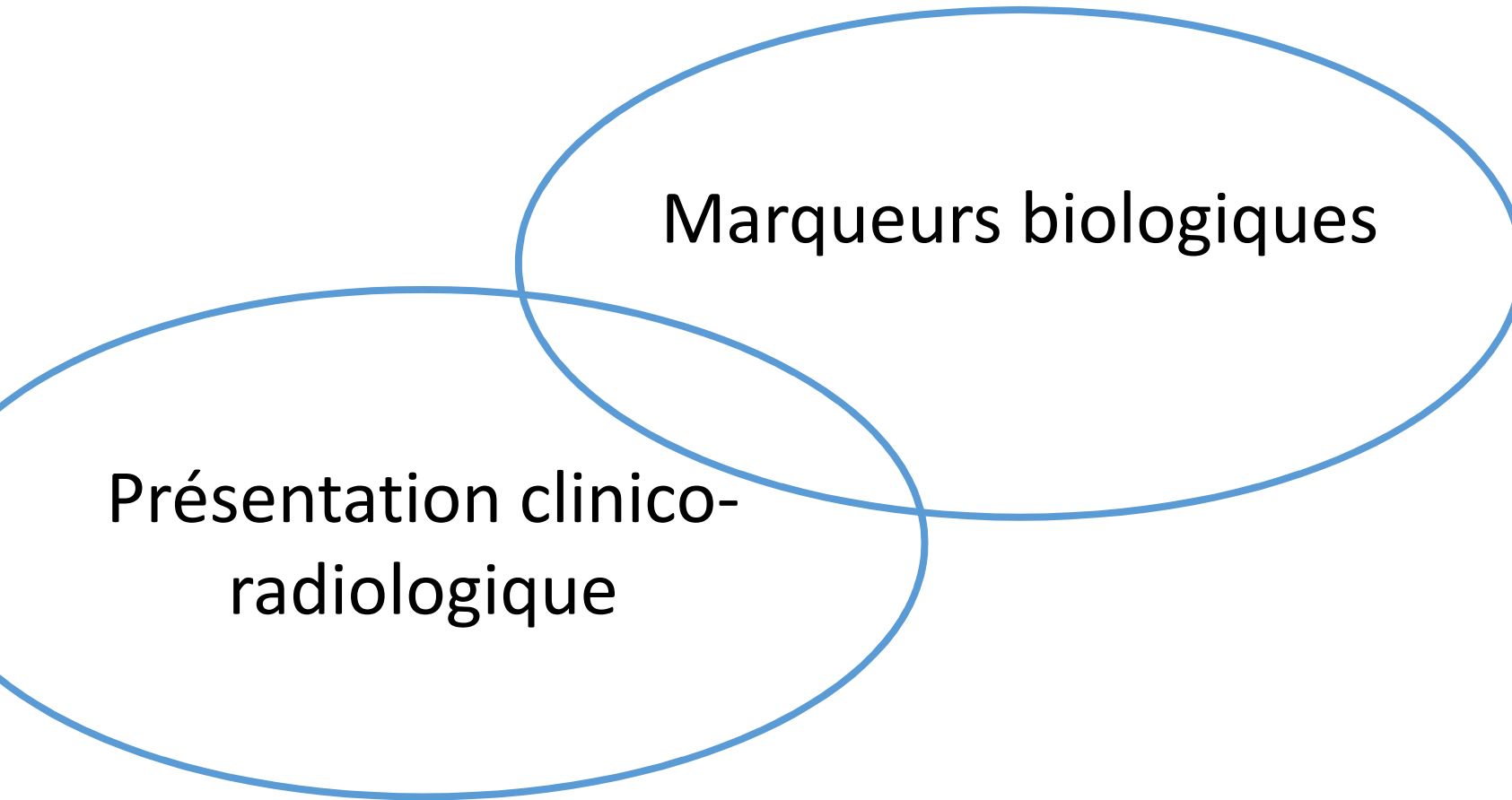
=> Intérêt Δ^{ic} + orientation biopsies

Bonne corrélation avec
réponse clinico-biologique au
traitement

Intérêt dans le suivi
Et dépistage des rechutes ?



Comment retenir un diagnostic de MAG4 ?



« Maladie associée aux IgG4 »: Critères de classification / diagnostiques

Comprehensive Clinical Diagnostic (CDC) Criteria

Examen clinique : hypertrophie localisée ou diffuse au sein d'un ou de plusieurs organes
siquement atteints au cours de la MAG4.

Biologie : élévation des IgG4 sériques (≥ 135 mg/dl ou 1,35 g/l).

Histologie montrant :

Infiltration lymphocytaire et plasmocytaire polyclonale marquée + fibrose

Infiltration par des plasmocytes IgG4+ : ratio plasmocytes IgG4+/IgG4+ > 40% et > 10 plasmocytes IgG4+/CFG

G4 définie = 1) + 2) + 3)

G4 probable = 1) + 3)

G4 possible = 1) + 2)

Un diagnostic d'exclusion !!!

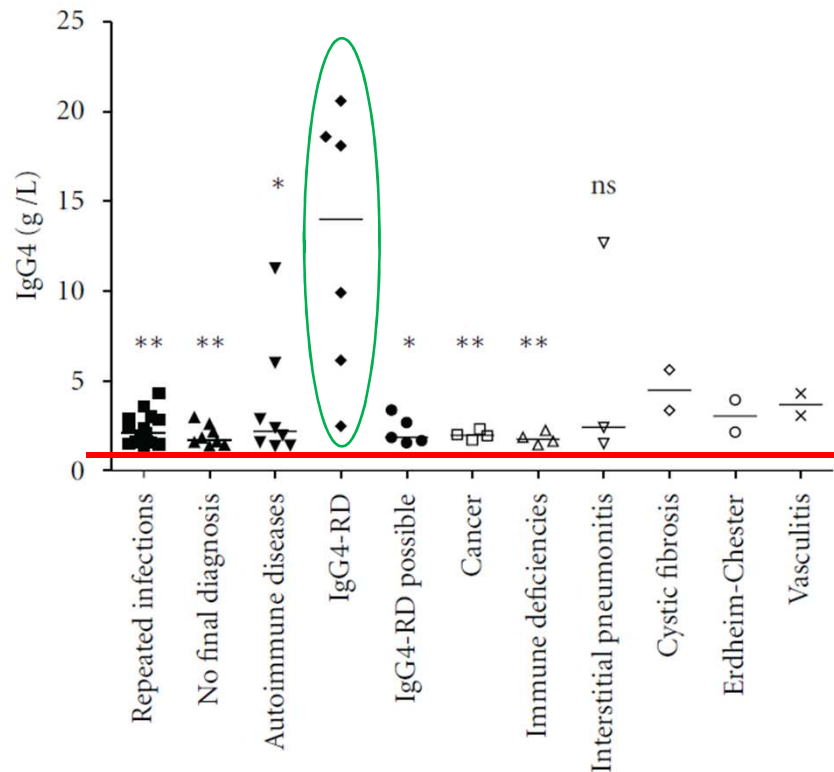
endant, il faudra dans tous les cas éliminer, en particulier au niveau histologique, les principaux
diagnostics différentiels de MAG4 : tumeur maligne au sein du/des organes atteints (cancer,
phome), et tableaux cliniques proches : syndrome de Gougerot-Sjögren, cholangite sclérosante
nitive, maladie de Castleman, fibrose rétro-péritonéale secondaire, granulomatose de Wegener,
oïdose, syndrome de Churg et Strauss.



**Attention au
« sur-diagnostic »!**

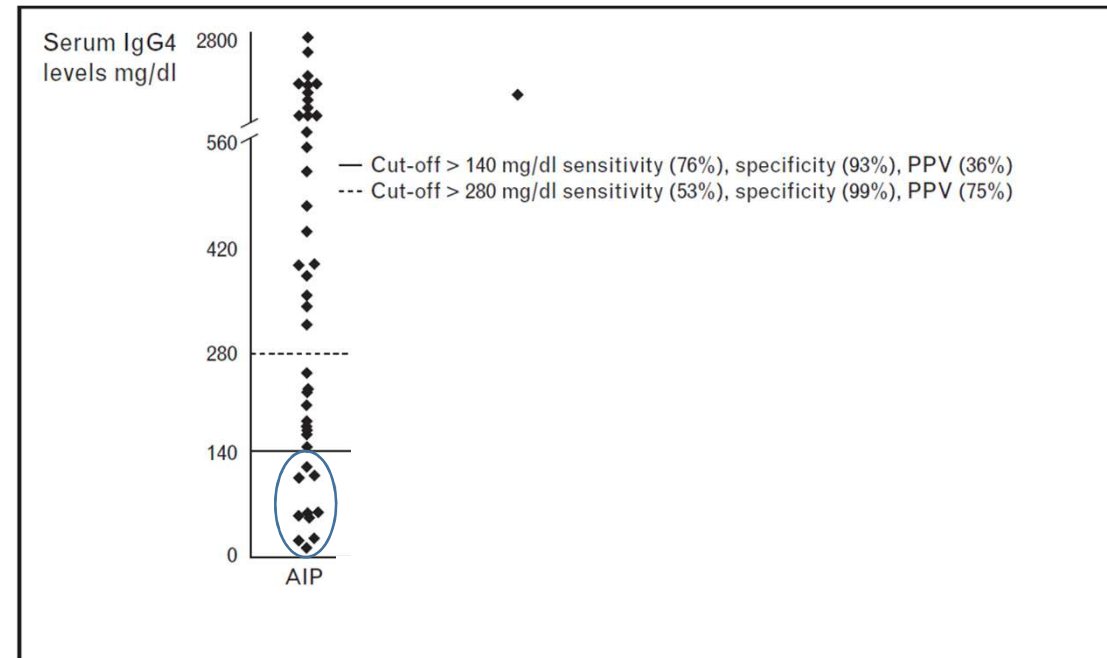
Elévation des IgG4 sériques

Un marqueur non spécifique...



Ebbo et al. *Int J Rheumatol* 2012

... et absent chez près de 30% des patients!



Sah RP, Chari ST. *Curr Opin Rheumatol* 2011

Corrélée à la réponse au traitement?
Corrélée au risque de rechute?

⇒ Nécessité d'identifier de nouveaux biomarqueurs
A visée diagnostique + pour le suivi

Les autres marqueurs biologiques (non spécifiques)

Hyper-gammaglobulinémie polyclonale : le + souvent (73% des cas)

Syndrome inflammatoire biologique : possible (47% des cas), mais modéré

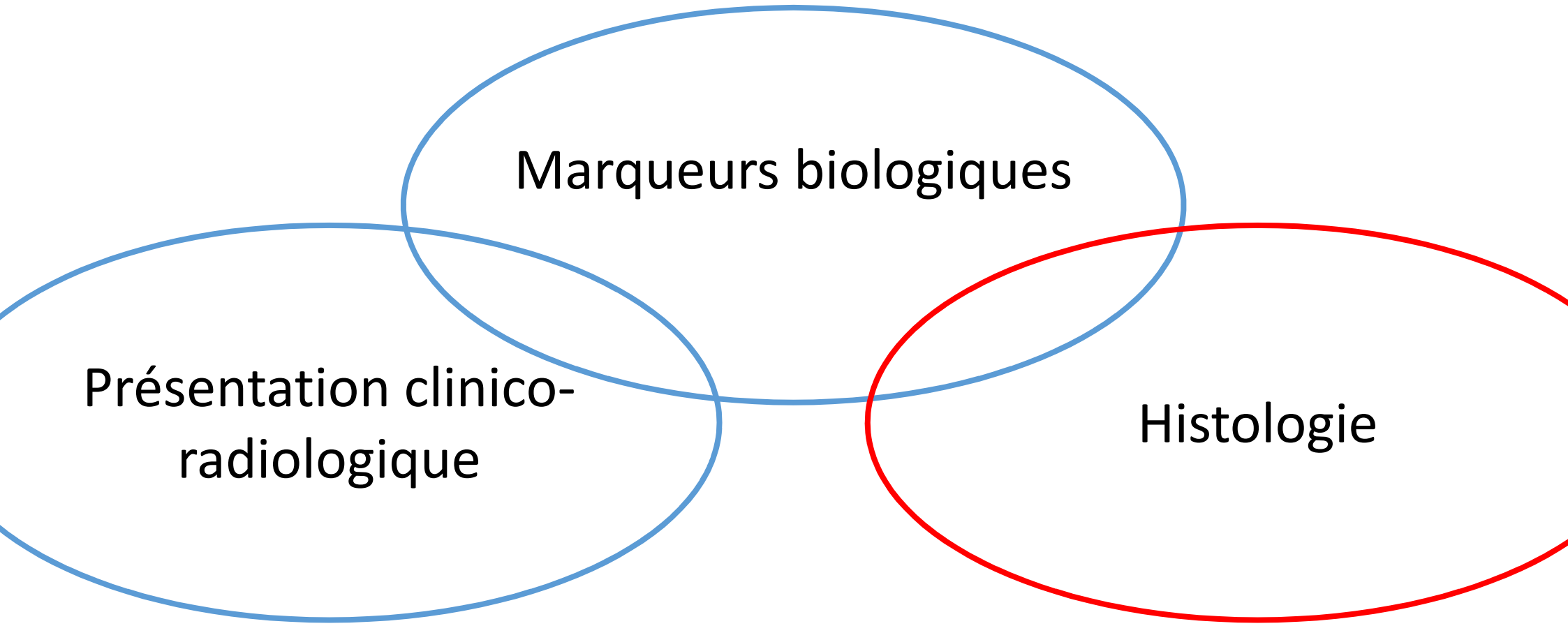
Hyperéosinophilie / hyper-IgE : possibles (1/3), parfois marquée

Marqueurs d'auto-immunité : possible (25% Ac Anti-nucléaires +)
mais à faibles taux et non spécifiques (anti-SSA et anti-SSB toujours négatifs)

Consommation du complément : certains patients (30% des cas)

Patients avec présentation systémique et atteinte rénale ++

Comment retenir un diagnostic de MAG4 ?



Le concept de « maladie associée aux IgG4 »

2

Comprehensive Clinical Diagnostic (CDC) Criteria

Examen clinique : hypertrophie localisée ou diffuse au sein d'un ou de plusieurs organes
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Biologie : élévation des IgG4 sériques (≥ 135 mg/dl ou 1,35 g/l).

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MAG4 définie = 1) + 2) + 3)

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Un diagnostic d'exclusion !!!

endant, il faudra dans tous les cas éliminer, en particulier au niveau histologique, les principaux
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phome), et tableaux cliniques proches : syndrome de Gougerot-Sjögren, cholangite sclérosante
nitive, maladie de Castleman, fibrose rétro-péritonéale secondaire, granulomatose de Wegener,
oïdose, syndrome de Churg et Strauss.

Consensus statement on the pathology of
IgG4-related disease

MODERN PATHOLOGY

Le concept de « maladie associée aux IgG4 »

us statement on the pathology of IgG4-related disease

nde et al **MODERN PATHOLOGY** (2012) 25, 1181–1192

Characteristic histological features
1. Dense lymphoplasmacytic infiltrate
2. Fibrosis, usually storiform in character
3. Obliterative phlebitis

Cases with ≥ 2 pathology features

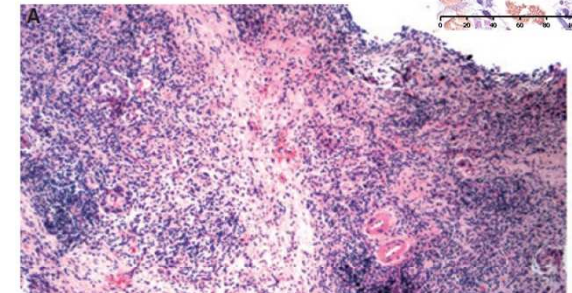
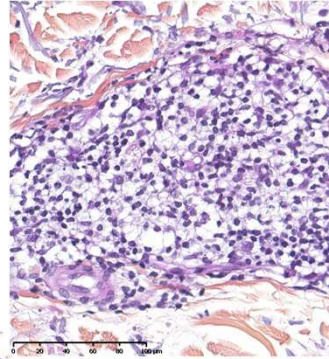
Cases with 1 pathology feature

	Numbers of IgG4+ plasma cells (/hpf)		Ref
Meningus	>10	>10	55
Lacrimal gland	>100	>100	28
Salivary gland	>100	>100	17,34
Lymph node	>100	>50	27
Lung (surgical specimen)	>50	>50	10,35
Lung (biopsy)	>20	>20	10,35
Pleura	>50	>50	
Pancreas (surgical specimen)	>50	>50	
Pancreas (biopsy)	>10	>10	
Bile duct (surgical specimen)	>50	>50	
Bile duct (biopsy)	>10	>10	
Liver (surgical specimen)	>50	>50	
Liver (biopsy)	>10	>10	
Kidney (surgical specimen)	>30	>30	
Kidney (biopsy)	>10	>10	
Aorta	>50	>50	
Retroperitoneum	>30	>30	
Skin	>200	>200	

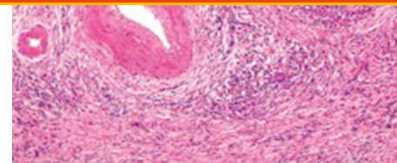
IgG4+/IgG+ plasma cell ration >40% a mandatory for histological diagnosis of IgG4-RD

Green boxes = Histologically highly suggestive of IgG4-RD

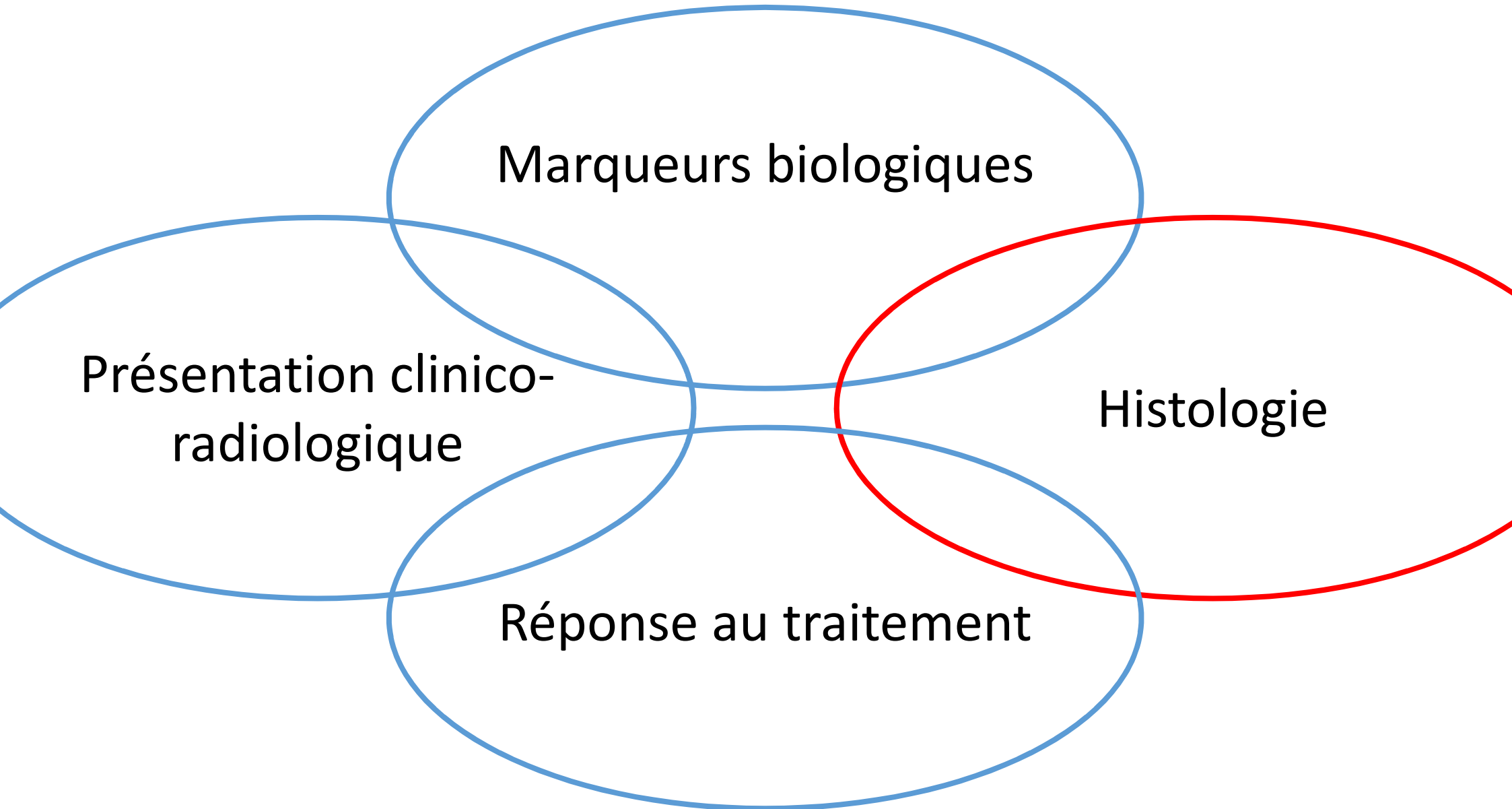
Orange boxes = Probable histological features of IgG4-RD



Pas de nécrose
Pas de vascularite
Pas de granulome
Pas de prédominance de PNN/histiocyte
Pas de monoclonalité



Comment retenir un diagnostic de MAG4 ?



Nouveaux critères de classification

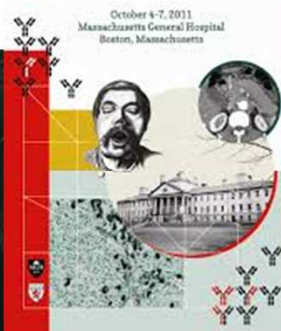
Revisions de futurs critères de classification de l'ACR/EULAR 2018-2019

500 x2

patients IgG4-RD

« Mimickers »

INTERNATIONAL
SYMPOSIUM
IgG4-RELATED DISEASE

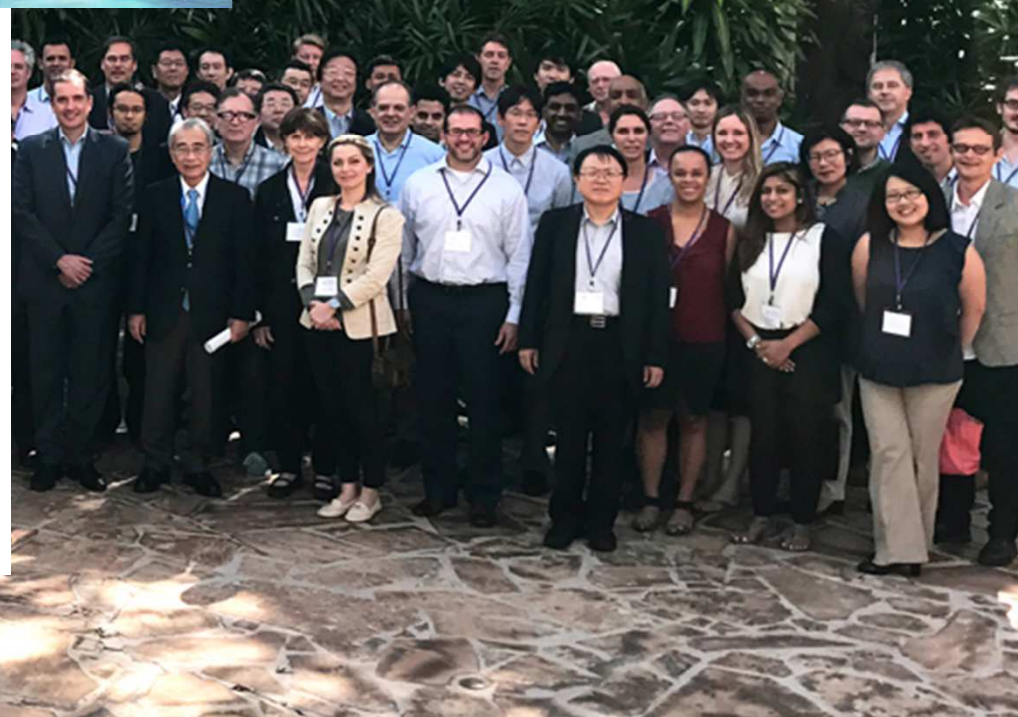


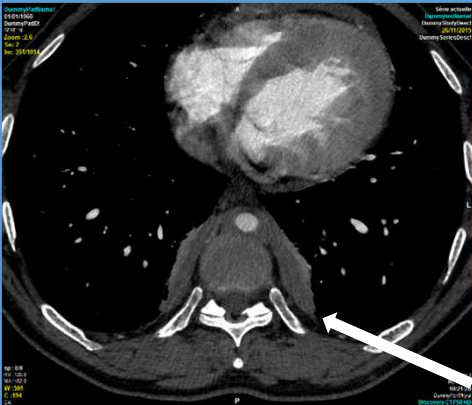
INTERNATIONAL
SYMPOSIUM
IgG4-RD & Associated Conditions



Validations de critères de
classification

- ⇒ cliniques
- ⇒ biologiques
- ⇒ radiologiques
- ⇒ histologiques
- ⇒ évolutifs



If case meets entry criteria and does not meet any exclusion criteria, proceed to step 3.				
ia	Characteristic* clinical or radiologic involvement of a typical organ (e.g., pancreas, salivary glands, bile ducts, orbits, kidney, lung, aorta, retroperitoneum, pachymeninges)	<u>Yes</u> or <u>No</u> **		
Criteria	Domains and Items			
	Clinical	<u>Yes</u> or <u>No</u> ***		
	Fever			
	No objective response to glucocorticoids			
	Serological			
	Leukopenia and thrombocytopenia with no explanation			
	Peripheral eosinophilia			
	ANCA positive (specifically against proteinase 3 or myeloperoxidase)			
	Positive SS-A (Ro) or SS-B (La) Antibody			
	Positive dsDNA, ribonucleoprotein, or Smith (Sm) Antibody			
	Other disease-specific auto-antibody			
	Cryoglobulinemia			
	Radiology			
	Known radiologic findings suspicious for malignancy or infection that have not been sufficiently investigated			
	Rapid radiologic progression			
	Long bone abnormalities consistent with Erdheim-Chester disease			
	Splenomegaly			
	Pathology			
	Cellular infiltrates suggesting malignancy that have not been sufficiently evaluated			
	Markers consistent with inflammatory myofibroblastic tumor			
	Prominent neutrophilic inflammation			
	Necrotizing vasculitis			
	Prominent necrosis			
	Primary granulomatous inflammation			
	Pathologic features of macrophage/histiocytic disorder			
	Known Diagnoses of the Following			
	Multicentric Castleman’s Disease			
	Crohn’s disease or Ulcerative Colitis (if only hepatopancreatobiliary disease is present)			
	Hashimoto’s thyroiditis (if only the thyroid is affected)			
	If case meets entry criteria and does not meet any exclusion criteria, proceed to step 3.			
	3. Inclusion Criteria		Domains and Items	
 		Histopathology		
		Uninformative biopsy		
		Dense Lymphoplasmacytic Infiltrate		
		Dense Lymphoplasmacytic Infiltrate and Obliterative Phlebitis		
		Dense Lymphoplasmacytic Infiltrate and Storiform Fibrosis with or without Obliterative Phlebitis		
		Immunostaining† (Table 4)		
		Serum IgG4 Concentration		
		Normal or Not Checked		
		> Normal but < 2x Upper Limit of Normal		
		2x to 5x Upper Limit of Normal		
		≥ 5x Upper Limit of Normal		
		Bilateral Lacrimal, Parotid, Sublingual, and Submandibular Glands		
		No set of glands is involved		
		One set of glands is involved		
		Two or more sets of glands are involved		
		Chest and Thoracic Aorta		
		Neither of the items listed is present		
		Peribronchovascular and septal thickening		
		Paravertebral Band-Like Soft Tissue in the Thorax		
		Pancreas and Biliary Tree		
		None of the items listed is present		
		Diffuse pancreas enlargement (loss of lobulations)		
		Diffuse pancreas enlargement and capsule-like rim with decreased enhancement		
		Pancreas (either of above) and biliary tree involvement		
		Kidney		
		None of the items listed is present		
		Hypocomplementemia		
		Renal pelvis thickening/soft tissue		
		Bilateral renal cortex low density areas		
		Retroperitoneum		
		Neither of the items listed is present		
		Diffuse thickening of the abdominal aortic wall		
		Circumferential or antero-lateral soft tissue around the infrarenal aorta or iliac arteries		
		4. Total Inclusion Points		A case meets the classification criteria for a diagnosis of IgG4-RD if the entry criteria are met, no exclusion criteria are present, and the total points is ≥20 (ou 19...)

Un score d'activité: l'IgG4-RD Responder Index

IgG4-RD Responder Index Validation Study

Scoring Rules

IgG4-RD refers to manifestations of disease activity present in the last 28 days

- Scoring: 0 Normal or resolved
1 Improved but still present
2 Persistent (still active; unchanged from previous visit)
3 New / Recurrence while patient is off treatment
4 Worsened or new disease manifestation despite treatment

Definitions

Site score: The overall level of IgG4-RD activity within a specific organ system

Symptomatic: Is the disease manifestation in a particular organ system symptomatic? (Y = yes; N = no)

Urgent disease: Disease that requires treatment immediately to prevent serious organ dysfunction (Y = yes; N = no)

Presence of urgent disease within an organ leads to DOUBLING of that organ system score)

Damage: Organ dysfunction that has occurred as a result of IgG4-RD and is considered permanent (Y = yes; N = no)

Organ/Site	Activity			Damage	
	Organ/Site Score (0-4)	Symptomatic (Yes/No)	Urgent (Yes/No)	Yes/No	Symptomatic (Yes/No)

Inspiré du BVAS dans
les vascularites à ANCA

=> Intérêt pour
l'évaluation de la
réponse au traitement
lors des essais
thérapeutiques à venir

Wallace Z et al, AC&R 2018

Diagnostics différentiels

Maladie associée aux IgG4: diagnostics différentiels

2

Comprehensive Clinical Diagnostic

Examen clinique : hypertrophie localisée ou diffuse au s
siquement atteints au cours de la MAG4.

Biologie : élévation des IgG4 sériques (≥ 135 mg/dl ou 1,

Histologie montrant :

Infiltration lymphocytaire et plasmocytaire polyclonale

Infiltration par des plasmocytes IgG4+ : ratio plasmocytes IgG4

G4 définie= 1) + 2) + 3)

G4 probable= 1) + 3)

G4 possible= 1) + 2)

Un diagnostic d'excl

endant, il faudra dans tous les cas éliminer, en particul

agnostics différentiels de MAG4 : tumeur maligne au sein

phome), et tableaux cliniques proches : syndrome de G

itive, maladie de Castleman, fibrose rétro-péritonéale

oïdose, syndrome de Churg et Strauss.

ehara et al. Modern Rheumatol 2012

Table 3. Conditions that can mimic IgG4-related disease clinically and histopathologically

Antineutrophil cytoplasmic antibody-associated vasculitides
Granulomatosis with polyangiitis (Wegener's)
Microscopic polyangiitis
Eosinophilic granulomatosis with polyangiitis (Churg-Strauss)
Adenocarcinoma and squamous cell carcinoma, peritumoral infiltrate
Castleman's disease (multicentric or localized)
Cutaneous plasmacytosis
Erdheim-Chester disease
Inflammatory myofibroblastic tumor
Inflammatory bowel disease
Lymphoproliferative diseases
Extranodal marginal zone lymphomas
Lymphoplasmacytic lymphomas
Follicular lymphomas
Perforating collagenosis
Primary sclerosing cholangitis
Rhinosinusitis
Rosai-Dorfman disease
Sarcoidosis
Sjögren's syndrome
Splenic sclerosing angiomatoid nodular transformation
Xanthogranuloma

+ SHE ...

Traitement

Maladie associée aux IgG4 : Histoire naturelle et évolution sous traitement

s rémissions spontanées, mais plutôt rares...

10% (Kamisawa et al. *J Gastroenterol* 2010) à 24% (Wakabayashi et al. *Pancreas* 2005) au cours de la pancréatite A-I (P)

Délai de rémission + long, % de rémission complète moins important (Ito T et al. *J Gastroenterol* 2007)

isque d'évolution vers la fibrose et la dysfonction d'organe !

Insuffisance pancréatique exocrine et/ou endocrine > 30% au cours PAI (Maire F et al. *Am J Gastroenterol* 2007)

Insuffisance rénale > 70% au cours de l'IgG4-TIN (Raissian Y et al. *J Am Soc Nephrol* 2011)

Il faut traiter !

Indications for therapy (statement 3): All patients with symptomatic, active IgG4-RD require treatment, some urgently. A subset of patients with asymptomatic IgG4-RD require treatment. (87% agreement). *Treatment of asymptomatic disease.* Subclinical disease can lead to severe, irreversible sequelae in the biliary tree, kidney, aorta, mediastinum, retroperitoneum, mesentery, and other organs (43).

However, not all manifestations of IgG4-RD require immediate treatment. "Waiting" may be appropriate, for example, in patients with asymptomatic lymphadenopathy or mild submandibular gland enlargement.

Stéroïdo-sensibilité +++ (>90% de réponse, critère diagnostique pour certaines atteintes d'organes)

IgG4-RD: modalités de la corticothérapie

Remission induction with glucocorticoids (statement 4): Glucocorticoids are the first-line agent for remission induction in all patients with active, untreated IgG4-RD unless contraindications to such treatment are present. (94% agreement). Prednisone at a dosage of 30–40 mg/day is a common initial treatment for IgG4-RD (94.8%). The dosage may be adjusted based on body weight if the disease appears to be particularly aggressive. A

Khosroshahi et al. A&R 2015

=> 0,6 mg/kg/j

MODERN RHEUMATOLOGY, 2017
VOL. 27, NO. 5, 849–854
<http://dx.doi.org/10.1080/14397595.2016.1259602>

Japan College of Rheumatology
MODERN RHEUMATOLOGY  Taylor & Francis

ORIGINAL ARTICLE

A multicenter phase II prospective clinical trial of glucocorticoid for patients with untreated IgG4-related disease

Table 3. Outcomes of glucocorticoid treatment, in all patients, except those excluded by central review denial, and in patients diagnosed with definite IgG4-RD.

	All	%	Except denial	%	Definite only	%
ORR	55	90.2%	54	93.1%	41	93.2%
CR	38	62.3%	38	65.5%	29	65.9%
PR	17	27.9%	16	27.6%	12	27.3%
SD	2	3.3%	1	1.7%	0	0.0%
PD	1	1.6%	0	0.0%	0	0.0%
DO	3	4.9%	3	5.2%	3	6.8%
Total	61		58		44	

ORR: overall response rate; CR: complete remission; PR: partial remission; NC: no change; PD: progressive disease; DO: drop out.

Masaki et al. Mod Rheum

IgG4-RD: modalités de la corticothérapie

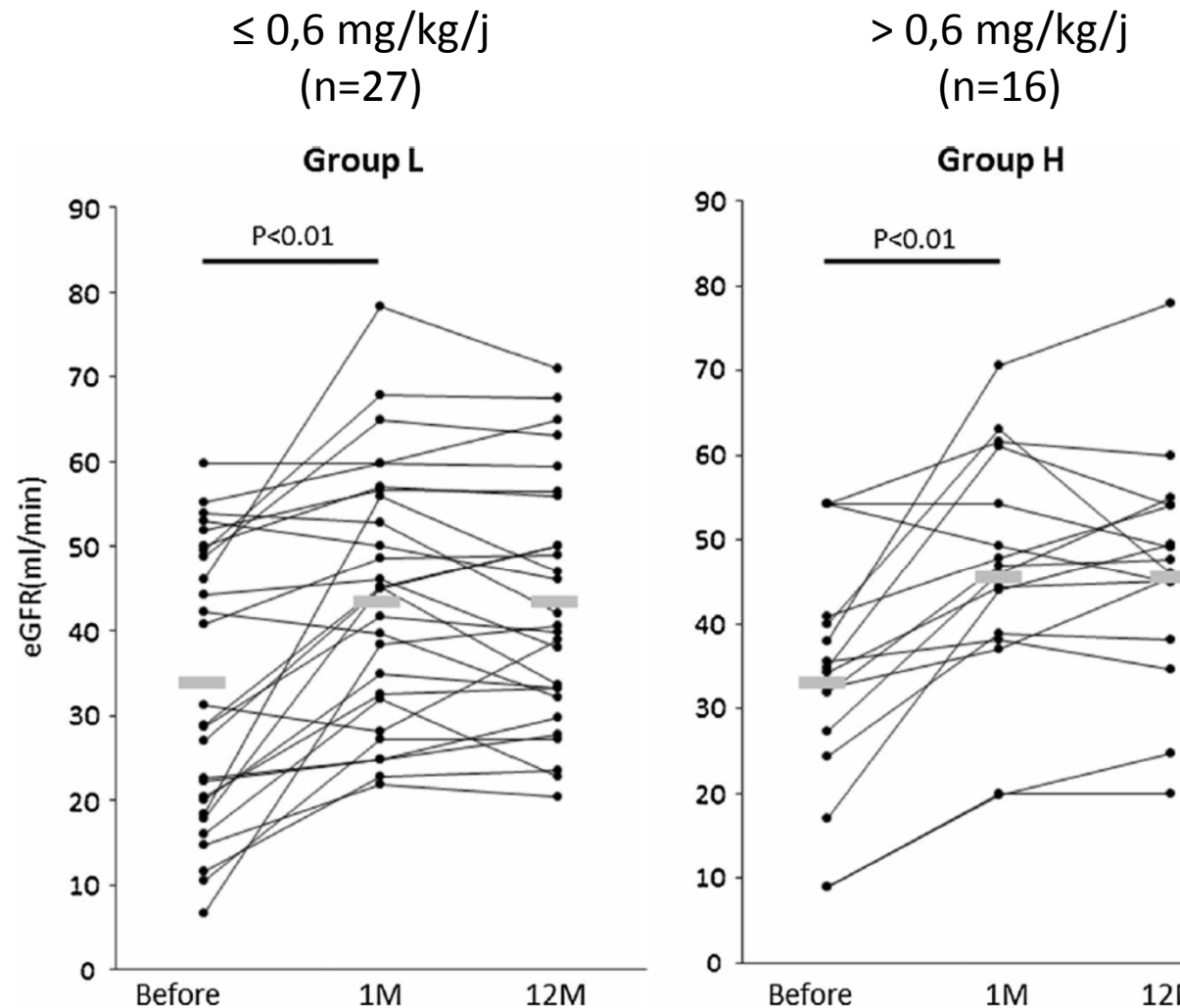
ephrol (2016) 20:87–93
7/s10157-015-1140-0

NAL ARTICLE

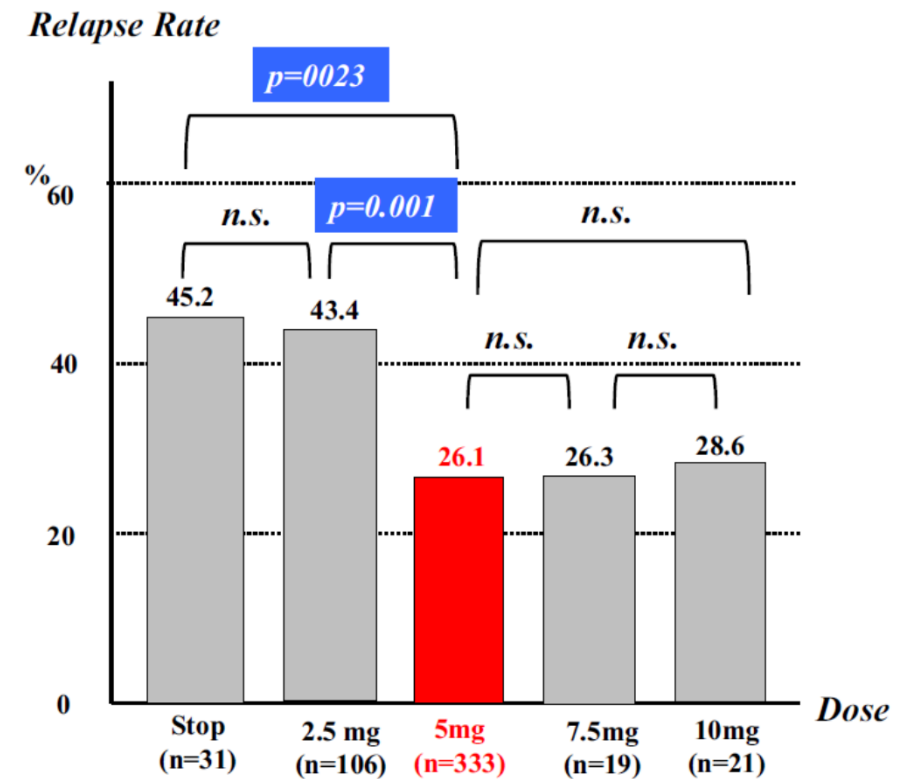
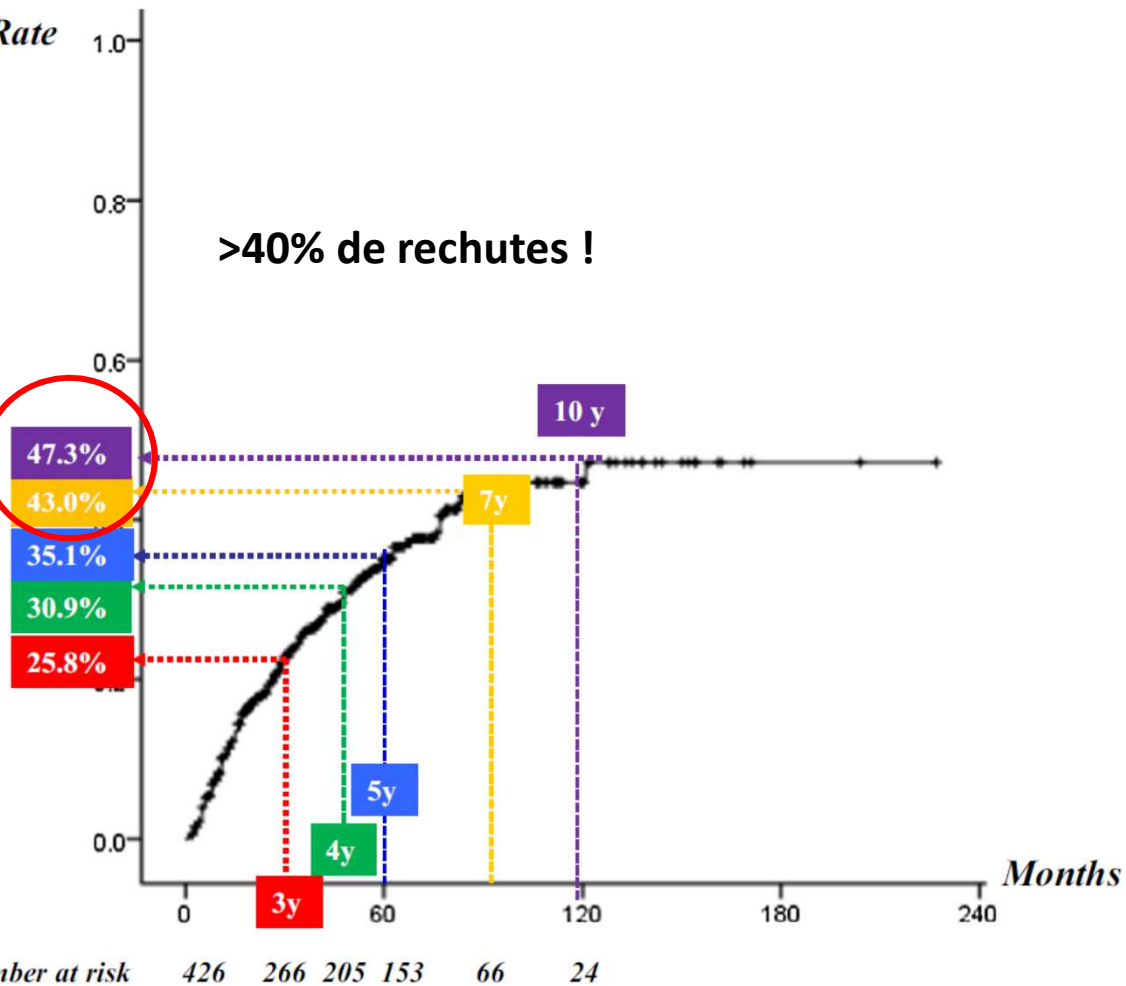
ery of renal function after glucocorticoid therapy G4-related kidney disease with renal dysfunction

aeaki¹ · Mitsuhiro Kawano² · Ichiro Mizushima² · Motohisa Yamamoto³ ·
da⁴ · Yoshifumi Ubara⁵ · Hitoshi Nakashima⁶ · Tomoyuki Ito¹ ·
Yamazaki¹ · Ichiei Narita⁴ · Takao Saito⁷

=> Pas de bénéfice à une posologie initiale
de CTC > 0,6 mg/kg/j



IgG4-RD: rechutes et cortico-dépendance...



Cortico-dépendance ++
Corticothérapie d'entretien

Randomised controlled trial of long-term maintenance corticosteroid therapy in patients with autoimmune pancreatitis

Masamune et al, Gut 2016

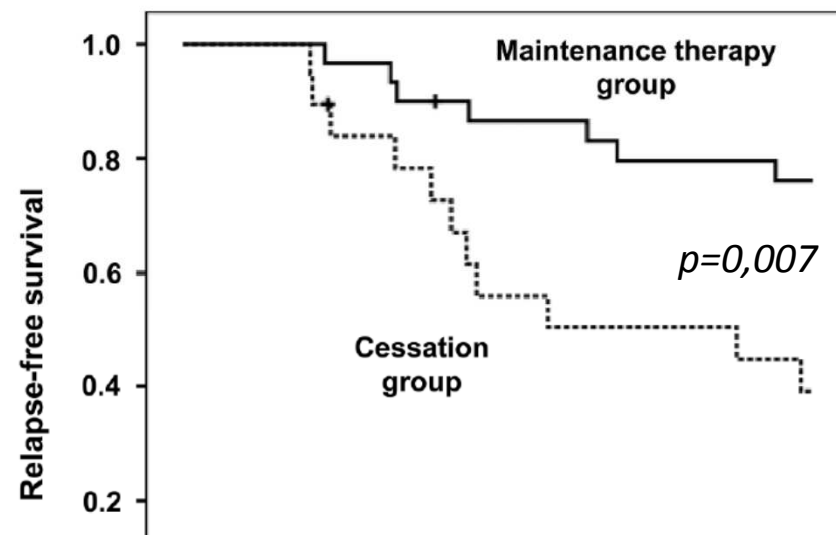
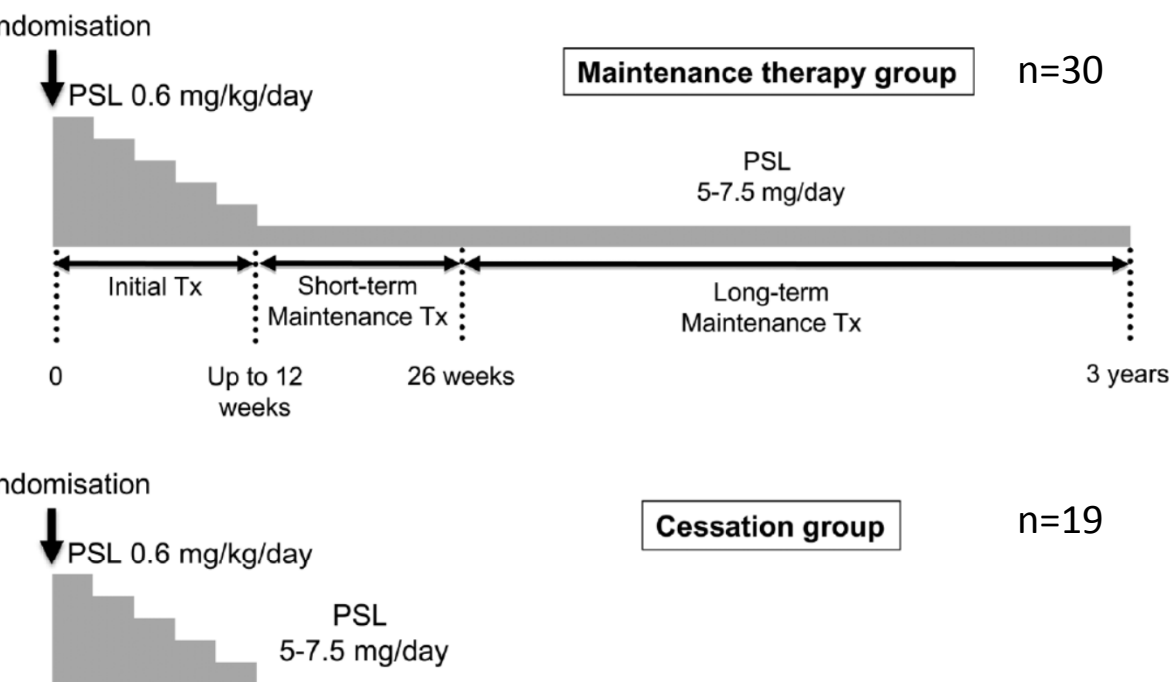


Table 4. Adverse events observed during glucocorticoid treatment in patients with IgG4-RD.

Adverse events	Number of cases	%
Expected		
Glucose intolerance	25	41
Newly diagnosed with DM	12	19
Aggravation from chronic DM	13	21
Infection	11	18
Fungus	6	9.3
Bacteria	3	4.8
Virus	1	1.6
Acid-fast Bacillus	1	1.6
Dyslipidemia	16	26
Hypertension	9	14

Nécessité de développer de nouvelles stratégies thérapeutiques d'épargne cortisonique

+++

IgG4-RD:

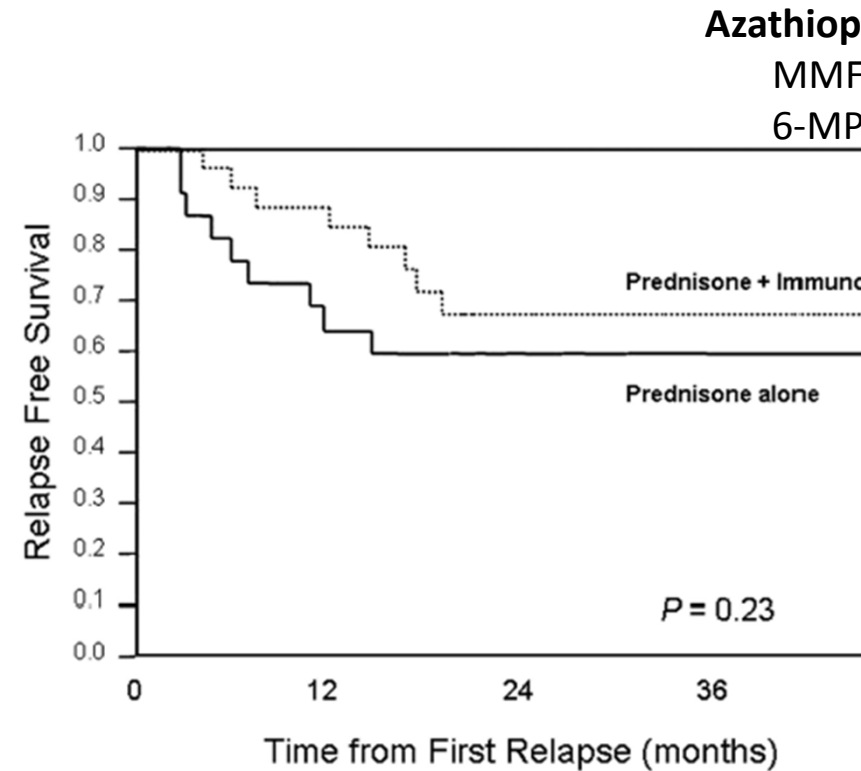
Place des immunosuppresseurs « usuels » / DMARDs ?

TABLE 6. Treatment and Efficacy

Treatment	Patients Treated	Treatment Effective	Side Effects
	No. (%)	No. (%)	No. (%)
Corticosteroids	23 (92)	19/21* (90)	14/21* (67)
Azathioprine	6 (24)	3/4* (75)	1/4* (25)
Infliximab	3 (12)	2/3 (67)	0/3 (0)
Cyclophosphamide	3 (12)	1/3 (33)	1/3 (33)
Methotrexate	2 (8)	1/2 (50)	0/2 (0)
Other			
Surgery	4 (16)	1/4 (25)	1/4 (25)
Hepatic transplantation	1 (4)	0/1 (0)	1/1 (100)
Vinblastine	2 (8)	0/2 (0)	0/2 (0)
Tamoxifen	1 (4)	0/1 (0)	1/1 (100)
Tocilizumab	1 (4)	1/1 (100)	0/1 (0)
Imatinib	1 (4)	0/1 (0)	0/1 (0)

*Recent treatment for 2 patients, response and tolerance not yet evaluable.

Ebbo et al. Medicine 2012



Hart et al. Gut 2010

IgG4-RD et rituximab

ARD

Rituximab for IgG4-related disease: a prospective, open-label trial

Mollie N Carruthers, Mark D Topazian, Arezou Khosroshahi, Thomas E Witzig, Zachary S Wallace, Philip A Hart, Vikram Deshpande, Thomas C Smyrk, Suresh Chari and John H Stone

Ann Rheum Dis 2015 74: 1171-1177 originally published online February

=30

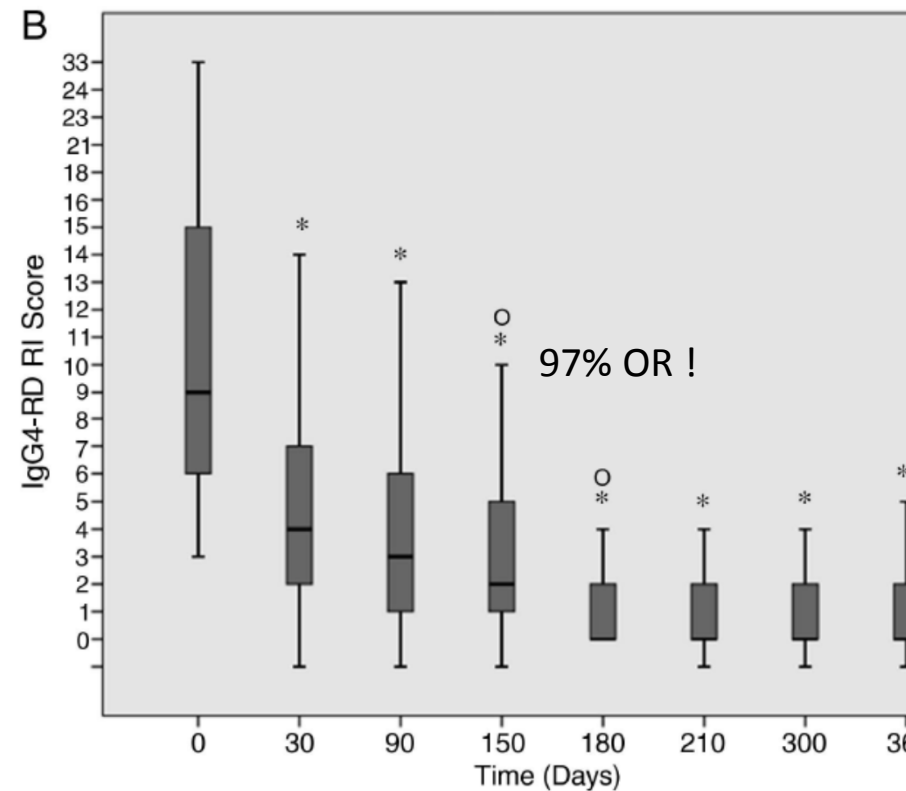
7% RTX seul

objectif laire à M6: IgG4RD-RI ≥ 2 ; pas de rechute ; pas de CTC entre

> 77% des patients à M6, bonne tolérance

lais...

> 7 rechutes, pas de suivi après M12...



IgG4-RD et rituximab

années dans la « vrai vie », avec plus de suivi ?

Cohorte française: n=33 patients traités par RTX

Réponse chez 93,5% des patients

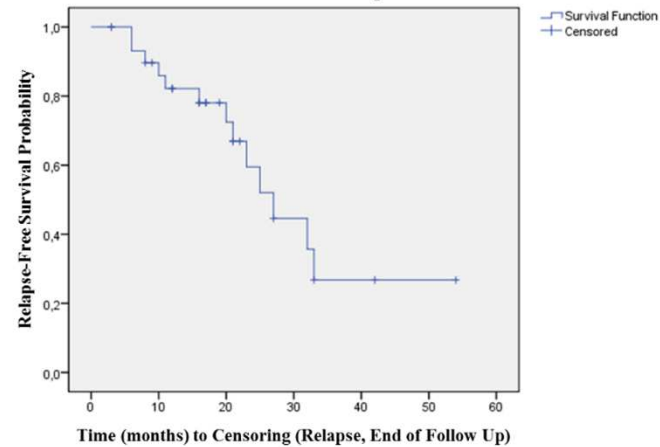
is...

Suivi de 24,8 mois: 41,9% de rechute
(délai médian de 19 mois)

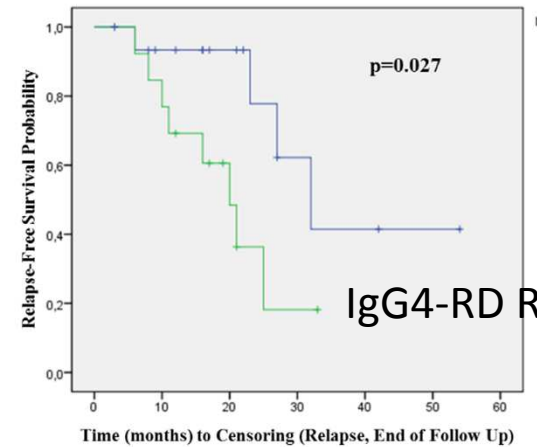
ux d'infections sévères: 12,1/100 patient-années
3 patients hypogamma ≤ 5 g/L

Ebbo et al, PLoS ONE 2017

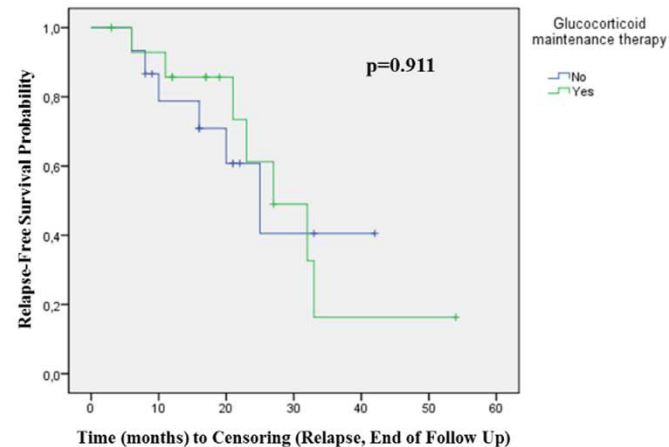
A Probability Over Time of Relapse-Free Survival After Rituximab in 31 Responders



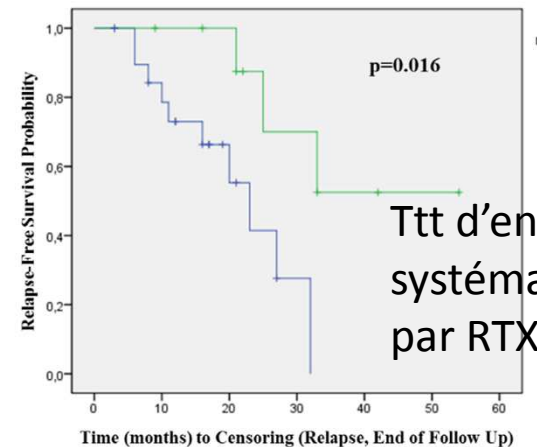
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C



D



Take Home Messages

Des localisations pseudo-tumorales, uniques ou multiples

Absence de marqueur biologique spécifique, mais des lésions histologiques communes

Des présentations cliniques multiples, de nombreux diagnostics différentiels

Des critères de classification « validés » (ACR/EULAR) à venir

Corticossensibilité ++ mais rechutes... traitements de 2nde ligne non consensuels

Avancées physiopathologiques, traitements ciblés?

Cohorte française de l'IgG4-RD: > 250 patients e-CRF national

mikael.ebbo@ap-hm.fr

The screenshot displays the 'IGG4 PATIENT' e-CRF interface. The top navigation bar includes the 'IGG4' logo, the role 'PATIENT', and user information: 'Username : admin' and 'Group : main'. A 'Déconnexion' button and a 'Menu' dropdown are also present. The main content area is divided into two sections. On the left, the 'Patient' tab is active, showing a form for patient registration. The form includes fields for 'Groupe *' (set to 'Service médecine interne'), 'Fiche d'information remise au patient' (checkbox), 'Médecin Référent', 'Identité' (Nom *, Prénom, Sexe with radio buttons for Masculin, Féminin, and (Annuler)), 'Date de naissance' (with a calendar icon and format (jj/mm/aaaa)), 'Profession', and 'Origine ethnique'. At the bottom of the form are buttons for 'Annuler', 'Suivant', 'Enregistrer and exit', and 'Enregistrer'. On the right, a sidebar contains four green buttons with white text and a plus icon: '1-Histologies 0', '2-Visites 0', '3-Evenements Intercurrents 0', and '4-Biobanques 0'. Two blue arrows originate from the bottom of the form: one points to the text 'Suivi longitudinal / prospectif' and the other points to the text 'Collection de matériel biologique'.

IGG4

PATIENT

Username : admin
Group : main

Déconnexion Menu

Patient

Patient ATCD Diagnostic

Groupe * Service médecine interne

☐ Fiche d'information remise au patient

Médecin Référent

Identité

Nom * n

Prénom

Sexe ☐ Masculin ☐ Féminin ☐ (Annuler)

Date de naissance (jj/mm/aaaa)

Profession

Origine ethnique

Annuler Suivant Enregistrer and exit Enregistrer

1-Histologies 0 +

2-Visites 0 +

3-Evenements Intercurrents 0 +

4-Biobanques 0 +

Suivi longitudinal / prospectif

Collection de matériel biologique