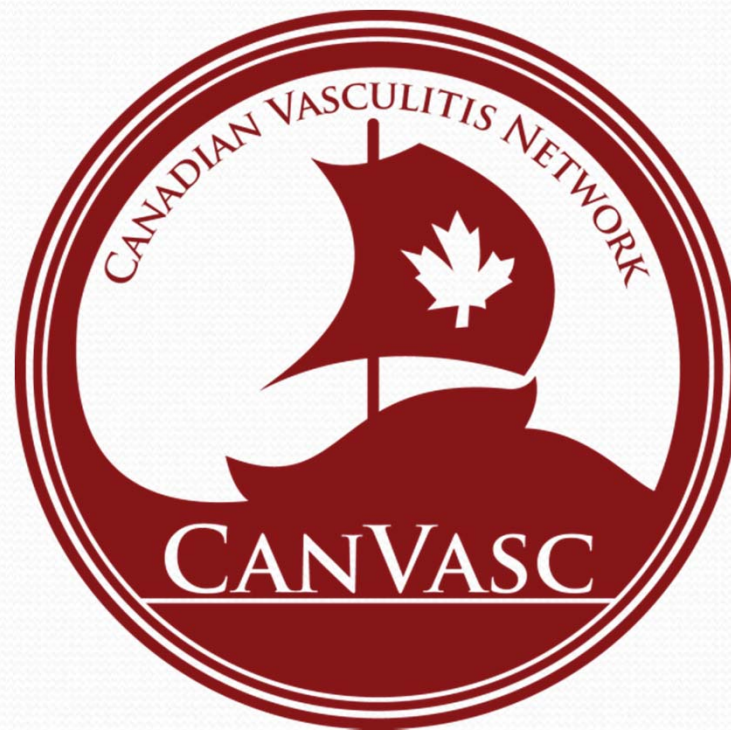


Vasculitis STUDIES in Canada and CanVasc projects





Ongoing CanVasc activities and studies

- Why CanVasc?
- What is it?
- What are its objectives?
- Identify some ongoing and future projects

CanVasc creation

- Drs. Pagnoux, Carette, Khalidi
- CanVasc = created on November 1st, 2010

Objectives

- **organize a dedicated health and research network across Canada** for patients with vasculitis with identification of referral (multidisciplinary) centers.

The network



CanVasc core member meetings

- 1st core member meeting 12 Feb. 2011 (CRA)
- 2nd core member meeting, 9 June 2011
- 3rd core member meeting, 29 March 2012 (CRA)
- **4th core member meeting, 14 or 15 February 2013 (CRA, Ottawa)**



June 2011



Objectives

- **organize a dedicated health and research network across Canada**
- **Develop educational and awareness programs for health care providers**

Recent Evidence
in Vasculitis Science and
Treatment

RE  ISIT

Management of AAV in the clinical setting

The CanVasc website



English - French

[Home](#) | [About CanVasc](#) | [Vasculitides](#) | [Ongoing studies](#) | [Meetings](#) | [Tools for physicians](#) | [Links](#)

Discover CanVasc and its affiliated centers across Canada



CanVasc is the Canadian network for research on vasculitides. It was created November 2010 by Drs. Pagnoux, Carette and Khalidi. The first task was to identify referral medical centers and physicians across Canada with expertise in vasculitis and who were willing to be part of this new research group. Among its several other aims, important ones are to help conduct studies on vasculitis, provide support and educational material on vasculitides for physicians and other health care providers and, eventually, optimize the therapeutic management of patients with these rare diseases.

[CLICK HERE](#) for more information on CanVasc.

The 2012 annual CanVasc meeting will be held on November 22nd, 2012 in Montréal

 Pre-program [HERE](#). Registration form [HERE](#). More information on the [meeting webpage](#).

Update your knowledge on vasculitis with CanVasc online material

Creator and webmaster: Dr. Christian Pagnoux



2nd annual CanVasc meeting

**Montréal, QC
November 22nd, 2012**

Registration and information on
<http://www.canvasc.ca>

Objectives

- organize a dedicated health and research network across Canada
- Develop educational and awareness programs for health care providers
- **Initiate, conduct, and promote studies on vasculitis across Canada using an existing, efficient and rapidly mobilisable network**

Studies

- **Creation of a Canadian database** for all Canadian centers (ongoing process) for **adult** vasculitis patients (Drs. Barra, Pagnoux – Twilt, Benseler, Cabral)
- Extension of pediatric **CNS vasculitis database** to Canadian **adults** (Dr. Twilt, Milman, Benseler, Pagnoux → Dr. Lanthier)



« Support » for core members' initiatives

- Dr. Yacyshyn, Edmonton: PD Survey, Takayasu systematic review
- Dr. Liang, Sherbrooke: Management of AASV / influence of guidelines
- Dr. Pagnoux, Nair, Khalidi, Carette: Cytokine profile in EGPA

Other potential collaborations / studies « **affiliated** » with CanVasc

- Dr. Ma Donglai (Toronto) and Marvin Fritzler (Calgary)
- Dr. Siminovitch: Genetic study on GPA/MPA
- Dr. Siminovitch: Cytoflux study on GPA/MPA

Two Biomarker Discovery Strategies

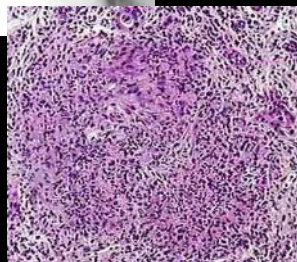
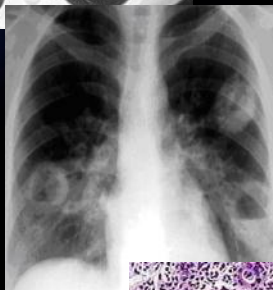
A) Genotype Profiling

Use genome-wide association and whole exome sequencing to identify clinically-relevant genetic profiles.

B) Immunophenotyping

Use multiparameter flow cytometry to classify and monitor disease.

Canada-initiated study of GPA genetics



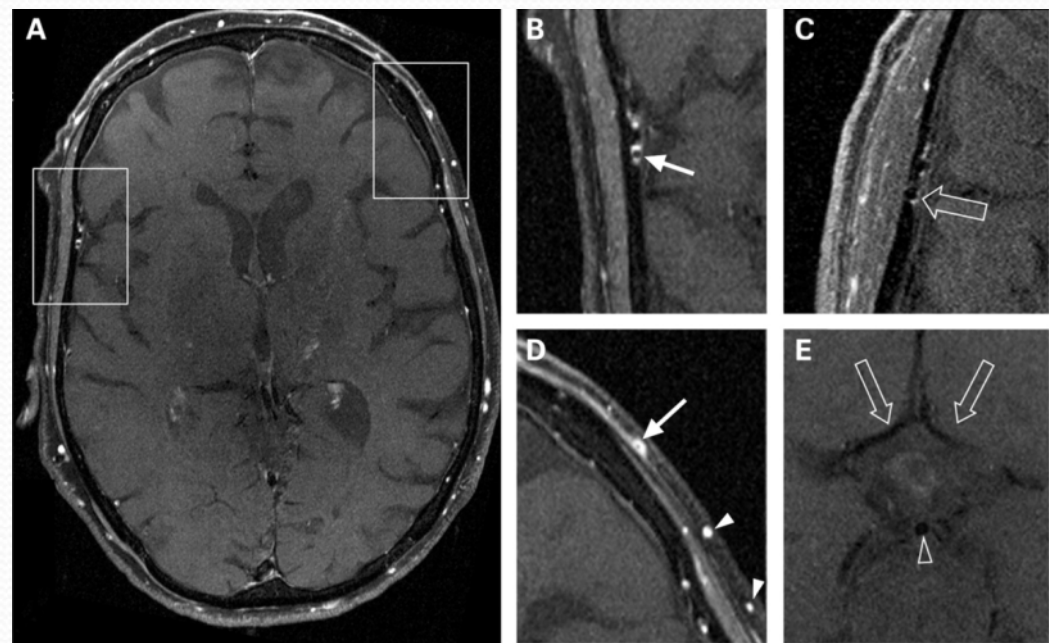
- Genotype 459 cases/1503 controls (Canadian)
- GWAS 700,000 markers
- Replicate 578 cases/1228 controls (WGGER, VCRC)

GENE	Proposed Function	P-value
<i>HLA-DPB1</i>	Immunoregulation	1.9×10^{-50}
<i>HLA-DPA1</i>	Immunoregulation	2.1×10^{-39}
<i>SEMA6A</i>	Immunoregulation	2.0×10^{-8}

Data from K. Siminovitch et al.

McMaster's GCA / MRI study

- Dr. Khalidi
- Dr. Clements-Baker
- Dr. Rebello
- Dr. Ioannidis



Bley et al. Ann Rheum Dis 2009;68:1369-1370

Other potential collaborations / studies from « affiliated » CanVasc

- Dr. Licht: complement
- Dr. Swartz, Mikulis, Mandell: CNS vessel imaging
- Dr. Milman: International Classification of Function in vasculitis



...others

*Talk low, talk slow
and don't say too much*

Objectives

- organize a dedicated health and research network across Canada
- Develop educational and awareness programs for health care providers
- Establish and regularly update **Canadian recommendations for the diagnostic and therapeutic management** of patients with vasculitis

Management of SNV patients

- Canadian consensus for the management of ANCA vasculitides
 - Ongoing process
 - under the aegis of CRA therapeutic committee
 - Led by Drs. Pagnoux and Liang (CanVasc)
 - By Fellows: Dr. Famorca (adult) and Twilt (pediatrics)



VASCULITIS NEEDS ASSESSMENT QUESTIONNAIRE

Results

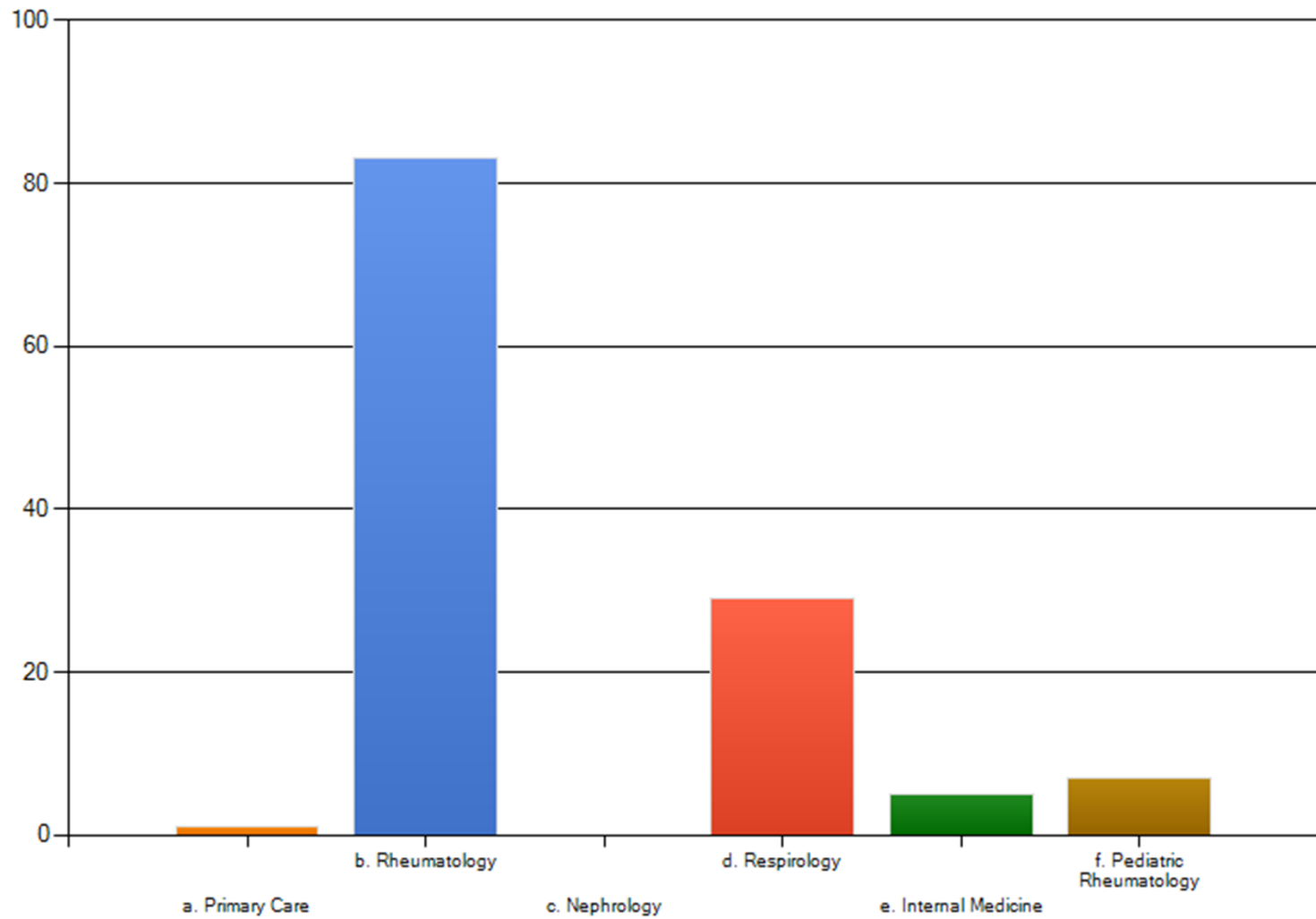
136 physicians

English - 121

French - 15



What is your specialty?



Indicate which of the following 5 topics, would you like to see included in the upcoming Canadian ANCA-associated vasculitis recommendations ?

- 1. Remission Induction Treatment
- 2. Treatment of refractory cases
- 3. Treatment of relapsing patients
- 4. Indication of the use of Biologics
- 5. Remission maintenance treatment



Canadian consensus for the management of ANCA vasculitides

- Needs assessment questionnaire
- Review of literature on the ~25 identified points to cover
- Writing of draft with grading of evidence (GRADE)
 - Dr. Lucy McGeoch
- Reviewing by CanVasc core members (Spring 2013)
- Revised draft → subgroups (CSN, CRA, CSN committees)
- Revised draft V2 → Final version (Fall 2013)

Objectives

- organize a dedicated health and research network across Canada
- Develop educational and awareness programs for health care providers
- Canadian Recommendations for the diagnostic and therapeutic management
- Initiate, conduct, and promote studies on vasculitis across Canada using an existing, efficient and rapidly mobilisable network
- **Stand as the Canadian advisory group in vasculitis**

REIMBURSEMENT CRITERIA

For the induction of remission of severely active Granulomatosis with Polyangiitis (GPA) OR microscopic polyangiitis (MPA) as combination treatment with glucocorticoids, in patients who meet all of the following criteria:

1. The patient must have severe active disease that is life- or organ-threatening. At least one supporting laboratory and/or imaging report must be provided. The organ(s) and how the organ(s) is(are) threatened must be specified.
2. There is a positive serum assays for either proteinase 3-ANCA (anti-neutrophil cytoplasmic autoantibodies) or myeloperoxidase-ANCA. A copy of the laboratory report must be provided.
3. Cyclophosphamide cannot be used for the patient for at least ONE of the following reasons:
 - a) The patient has failed a minimum of six IV pulses of cyclophosphamide; OR
 - b) The patient has failed three months of oral cyclophosphamide therapy; OR
 - c) The patient has a severe intolerance or an allergy to cyclophosphamide; OR
 - d) Cyclophosphamide is contraindicated; OR
 - e) The patient has received a cumulative lifetime dose of at least 25 g of cyclophosphamide; OR
 - f) The patient wishes to preserve ovarian/testicular function for fertility.

The initial treatment would be a once weekly infusion dosed at $375 \text{ mg/m}^2 \times 4 \text{ weeks}$.

The physician must confirm that the treatment would not be a maintenance infusion as maintenance infusions will not be funded.

Renewals will be considered provided that, the patient meets the same criteria for initial approval and the request for retreatment is made no less than 6 months after the last does of the patient's last treatment cycle with Rituxan.

Ongoing NON-CanVasc studies in Canada

VCRC studies: Hamilton + Toronto

International studies : several co-investigator sites

- Institutional/research group studies: PEXIVAS, DCVAS
- Pharmaceutical companies: (to start soon)

VCRC longitudinal studies

- GCA, TA, PAN, MPA/GPA, EGPA
- Visits every
 - 3 months for 2 years then yearly
 - Every year

Current Accruals - Participants Registered (as of 20/Nov/2012 03:06 PM)

	Boston University School of Medicine (VCRC)		Cleveland Clinic Foundation (VCRC)		Johns Hopkins University (VCRC)		Mayo Clinic (VCRC)		Mount Sinai Hospital, Toronto (VCRC)		St. Joseph's Healthcare Hamilton (VCRC)		University of South Florida (VCRC)		Total	
	Cumulative	Current Year*	Cumulative	Current Year*	Cumulative	Current Year*	Cumulative	Current Year*	Cumulative	Current Year*	Cumulative	Current Year*	Cumulative	Current Year*	Cumulative	Current Year*
5502	20	0	16	3	19	0	51	2	16	2	100	7	0	0	240	20
5503	37	0	27	0	15	0	26	1	24	1	9	1	0	0	150	4
5504	16	0	8	1	8	0	9	1	13	0	19	0	0	0	79	3
5505	72	0	105	6	81	0	91	7	109	15	69	4	0	0	569	41
5506	29	0	19	2	26	0	18	1	41	4	16	0	0	0	161	10
5510	83	1	62	16	1	0	37	6	16	3	18	3	0	0	313	49
5515	8	0	4	0	0	0	1	0	9	2	2	1	0	0	24	3
5522	9	0	0	0	4	0	7	0	0	0	0	0	0	0	20	0
5523	8	0	7	0	8	0	16	2	4	2	9	1	0	0	71	8
5531	467	0	0	0	0	0	0	0	0	0	0	0	0	0	467	0
5533	0	0	0	0	0	0	0	0	0	0	0	0	707	0	707	0
5534	0	0	0	0	0	0	0	0	0	0	0	0	386	0	386	0
5599	0	0	0	0	0	0	0	0	0	0	0	0	510	510	510	510

* Current year begins August 1st and ends July 31st

Protocol Management Tools

5502	VCRC Longitudinal Protocol for Giant Cell Arteritis
5503	VCRC Longitudinal Protocol for Takayasu's Arteritis
5504	VCRC Longitudinal Protocol for Polyarteritis Nodosa
5505	VCRC Longitudinal Protocol for Granulomatosis with Polyangiitis (...)
5506	VCRC Longitudinal Protocol for Churg-Strauss Syndrome
5510	VCRC Genetic Repository One-Time DNA Protocol
5515	VCRC Imaging Protocol for Magnetic Resonance and Positron Emissio...
5522	A Multi-Center, Open-label Pilot Study of Abatacept (CTLA4-Ig) in...
5523	Concurrent Pilot Studies in Giant Cell Arteritis and Takayasu's A...
5531	Reproductive Health in Men and Women with Vasculitis



VASCULITIS
CLINICAL
RESEARCH
CONSORTIUM

ACR 2012 #1655 (oral) - Monday

An Open-Label Trial of Abatacept in Mild Relapsing GPA

Mild relapsing: confined to ≥ 1 sites, with Rx being the reinstatement or increase in CS to $<30\text{mg OD}$ and/or an increase or addition of a 2nd immunosuppressant but not CYC (no AH, no renal)

CTLA4-Ig, abatacept
10 mg/kg IV D1, 14, 28 then monthly
On top of ongoing Rx with CS (15), AZA (3), MTX (7), MMF (4)

→ 20 patients

Variable	Value at Study Entry	
Age (range)	45 years (17-73)	
Female/Male	9/11	
PR3-cANCA	80%	
MPO-pANCA	10%	
GPA duration mean (range)	100 months (5-326)	
BVAS/WG mean (range)	3.1 (1-6)	
VDI mean (range)	2.5 (0-7)	
Organ Involvement	Before Study Entry (Ever)	Active Disease at Study Entry
Constitutional	85%	30%
ENT	100%	90%
Musculoskeletal	75%	50%
Cutaneous	60%	40%
Mucous membranes	25%	5%
Lung	70%	30%
Kidney	40%	-
Eye	30%	-
Nerve	20%	-

ACR 2012 #1655 (oral) - Monday

An Open-Label Trial of Abatacept in Mild Relapsing GPA

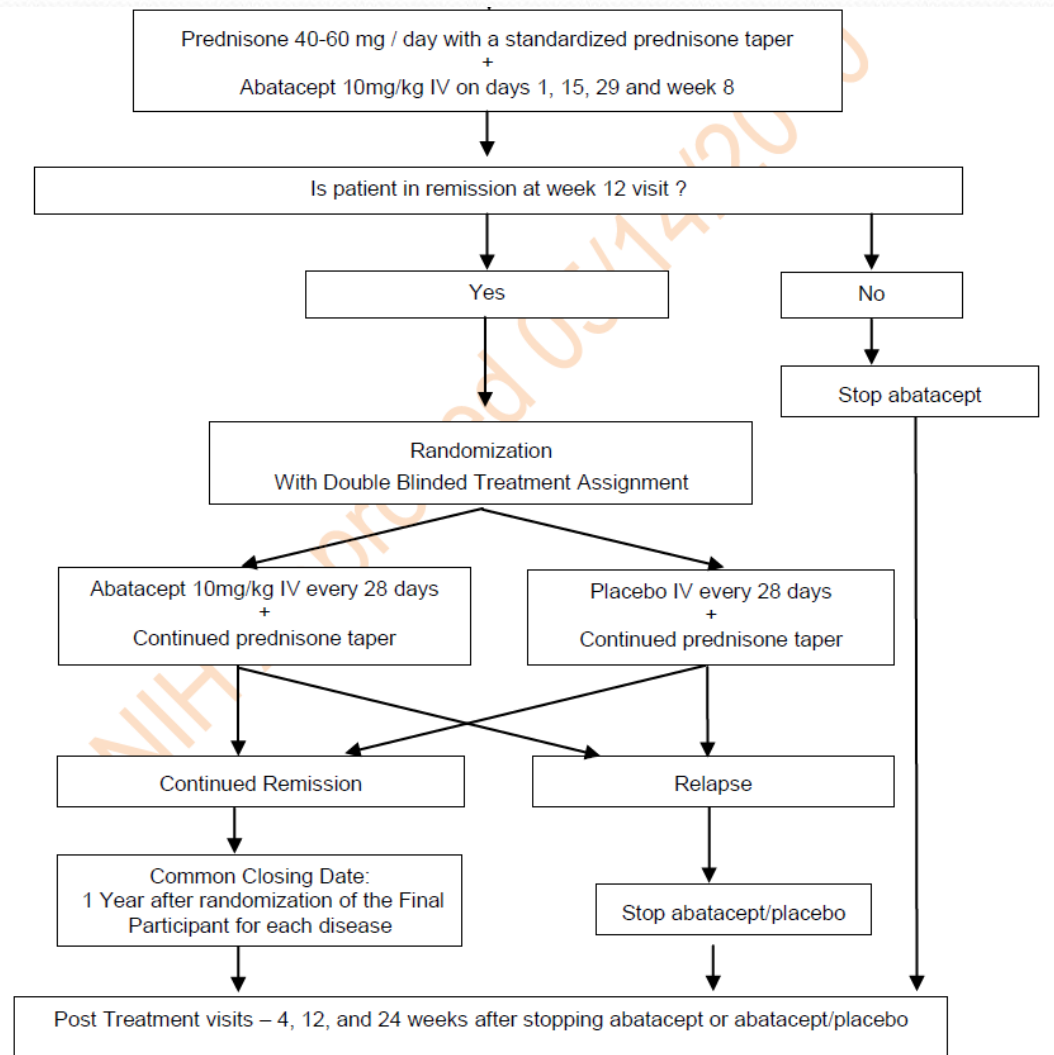
- 18 (90%) had disease improvement
- **16 (80%) achieved remission with BVAS/WG=0** (median duration of remission before study closure was 12 months [4-21])
- 11/15 on PDN were able to stop PDN
- **3 relapses (19% of those who achieved remission)**, at a median of 8.3 months
- **6 (30%) dropped out because active disease**, not severe (3 relapsers + 3 failures)
- 9 SAEs in 7 patients, including 7 infections, none severe

Langford C et al – Cleveland Clinic Foundation / VCRC

Phase III STUDY IN MILD GPA RELAPSE ???

AGATA LVV

- VCRC 5523
- CTLA4-Ig
- 2 Hamilton
- 1 Toronto
- 33+33 Needed
- Total 71 initial phase
but only ~50 rdm



VCRC patient registry

<http://rarediseasesnetwork.epi.usf.edu/vcrc/index.htm>

RARE DISEASES CLINICAL RESEARCH NETWORK
Funded by the National Institutes of Health

RDCRN Home | View All Open Studies

VASCULITIS CLINICAL RESEARCH CONSORTIUM

Welcome! The Vasculitis Clinical Research Consortium (VCRC) is an integrated group of academic medical centers, patient support organizations, and clinical research resources dedicated to conducting clinical research in different forms of vasculitis. It is our goal to improve the care of patients with Wegener's granulomatosis, microscopic polyangiitis, Churg-Strauss syndrome, polyarteritis nodosa, Takayasu's arteritis, and giant cell (temporal) arteritis.

We Can Help You:

- Become aware of clinical research and clinical trial opportunities
- Connect with expert doctors
- Connect with patient support groups
- Get help in managing your disease

What Is The VCRC?

Information for Patients:

- Learn More
- Take Action
- Research Studies

Information For Physicians

Information For Investigators

- + Churg-Strauss Syndrome (CSS)
- + Giant Cell (Temporal) Arteritis (GCA)
- + Granulomatosis with Polyangiitis (Wegener's) (GPA)
- + Microscopic Polyangiitis (MPA)
- + Polyarteritis Nodosa (PAN)
- + Takayasu's Arteritis (TAK)

News And Publications

Participating Clinical Centers

Contact Information

RDCRN RESEARCH MEMBERS LOGIN

Rare Diseases Media Center

INFORMATION FOR PATIENTS + TAKE ACTION

LEARN MORE

Unsured of a condition or looking to learn more? Look below to find definitions and more helpful information.

TAKE ACTION

Updated! [Find Information About Current Research Studies](#)

[How Can I Help? - Why your Participation Matters...](#)

Join the VCRC Contact Registry

Learn more about joining the VCRC Contact Registry

Useful Links

Glossary of Terms

Frequently Asked Questions

What is a Clinical Trial?

Find Patient Support or Advocacy Groups

INFORMATION FOR PHYSICIANS

Diseases defined...

Refer a Patient

Links and Resources

See also: Information for Investigators

New! Download the VCRC Contact Registry Paper Form

VCRC News and Publications

New England Vasculitis Foundation Health Care Provider Program

Saturday, March 19, 2011, 7 am to 11:15 am

Doubletree Guest Suites Hotel - Boston/Waltham

[View Full Announcement >](#)

Vasculitis Foundation New England Conference and Concert

> 3,000

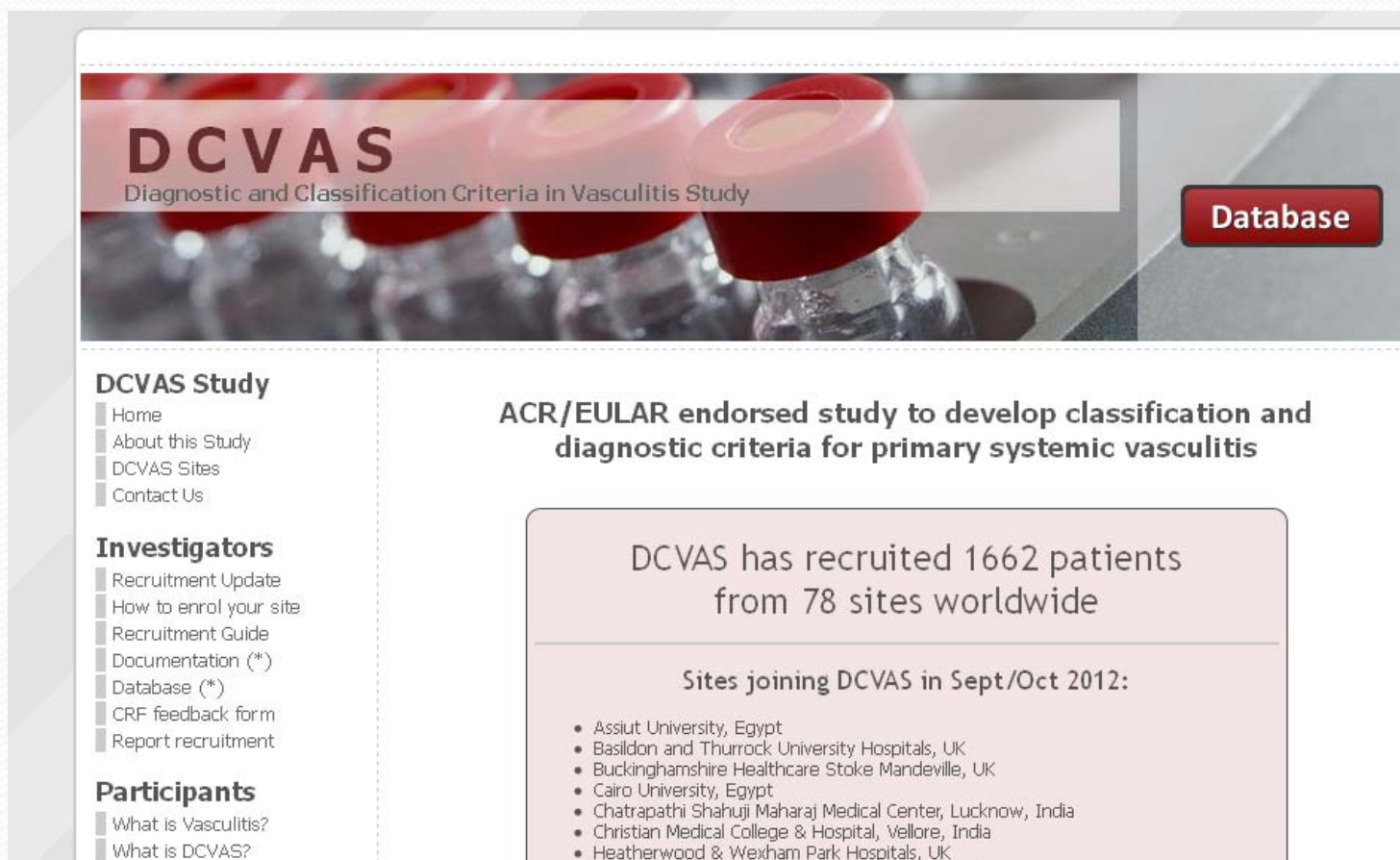
International studies with Canada!

- PEXIVAS
- DCVAS

International studies with Canada!

- PEXIVAS

- DCVAS



DCVAS
Diagnostic and Classification Criteria in Vasculitis Study

[Database](#)

DCVAS Study

- Home
- About this Study
- DCVAS Sites
- Contact Us

Investigators

- Recruitment Update
- How to enrol your site
- Recruitment Guide
- Documentation (*)
- Database (*)
- CRF feedback form
- Report recruitment

Participants

- What is Vasculitis?
- What is DCVAS?

ACR/EULAR endorsed study to develop classification and diagnostic criteria for primary systemic vasculitis

DCVAS has recruited 1662 patients from 78 sites worldwide

Sites joining DCVAS in Sept/Oct 2012:

- Assiut University, Egypt
- Basildon and Thurrock University Hospitals, UK
- Buckinghamshire Healthcare Stoke Mandeville, UK
- Cairo University, Egypt
- Chatrapathi Shahuji Maharaj Medical Center, Lucknow, India
- Christian Medical College & Hospital, Vellore, India
- Heatherwood & Wexham Park Hospitals, UK

Identifying participants

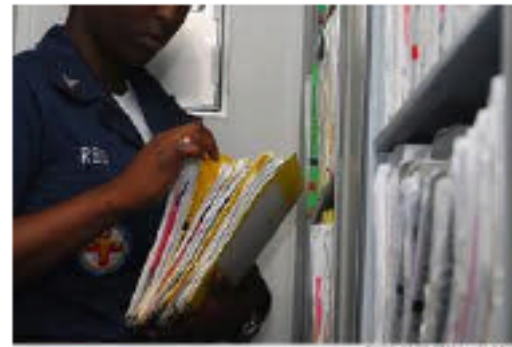
DCVAS

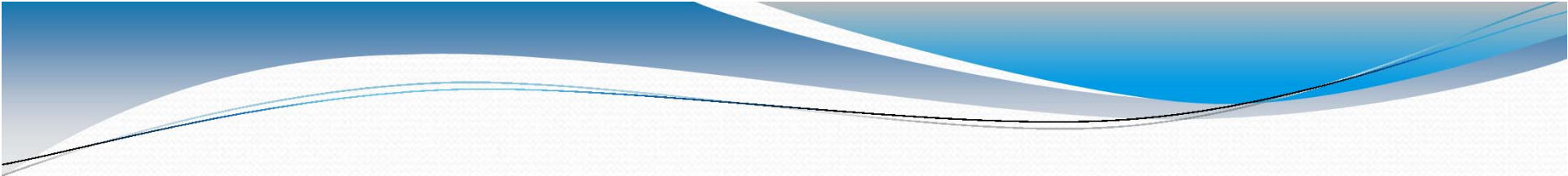
Patients over 18 years with

- A new diagnosis of vasculitis
- An established diagnosis

Date of diagnosis must not be more than two years before the date of enrolment
Patients can have had symptoms for longer

- A potential diagnosis of vasculitis





CA	St Joseph's Healthcare London, Ontario	40
CA	University of Ottawa	10
CA	St Joseph's Healthcare Hamilton, Ontario	23
CA	Mount Sinai Hospital, Toronto	7
CA	University of Manitoba, Winnipeg	9

Mid-Sept. 2012

+ Calgary?

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- Report recruitment

Participants

- What is Vasculitis?
- What is DCVAS?
- Vasculitis Foundation
- Vasculitis UK
- ClinicalTrials.gov
- UKCRN Portfolio

Publications

- Articles
- Newsletters

Funders

- EULAR
- American College of Rheumatology
- Vasculitis Foundation

Sponsor

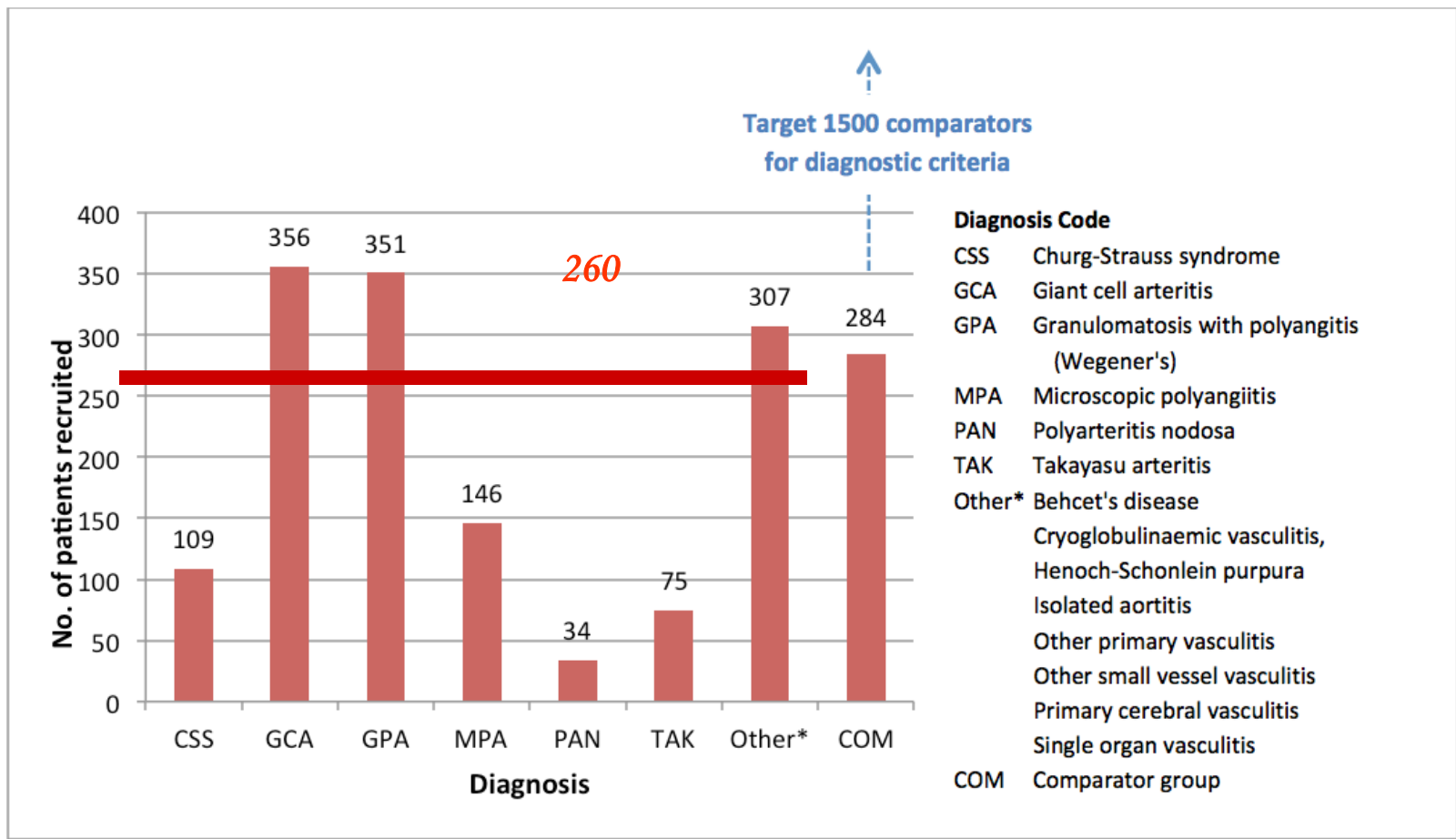
- University of Oxford

Recruitment and Site Update

Top 20 Recruiting Sites

Region	Country Code	Site Code	Site Name	Total patients
UK	GB	NO	Nuffield Orthopaedic Centre Oxford	136
NA	US	BU	Boston University Medical Campus	114
EU	SI	JJ	University Medical Centre Ljubljana	83
EU	IT	SS	Santa Maria Nuova Hospital, Reggio Emilia	80
EU	DE	SH	Klinikum Bad Bramstedt	68
UK	GB	NU	Nottingham University Hospitals NHS Trust	66
EU	DE	JE	Universitätsklinikum Jena	63
EU	CZ	PR	General University Hospital, Prague	59
UK	GB	IP	Ipswich Hospital NHS Trust	53
EU	DE	ES	Kreiskliniken Esslingen	50
EU	DK	UC	University Hospital, Copenhagen (Rigshospitalet)	47
EU	TR	IS	Istanbul University, Istanbul Medical School	45
EU	PL	JA	University of Jagiellonian	41
NA	CA	ON	St Joseph's Healthcare London, Ontario	40
UK	GB	NN	Norfolk and Norwich University Hospitals NHS Foundation Trust	39
EU	CH	UB	University Hospital Basel	37
UK	GB	SE	Southend University Hospital NHS Trust	33
EU	IT	PA	University of Parma	27
EU	DE	TU	Universitätsklinikum Tübingen	27
OR	NZ	AK	Auckland DHB	25

Sites recruiting highest number of patients per month (recruiting 6 months or more)



DCVAS SCREENING

Screening Date	<input type="text"/>
Screening ID	<input type="text"/>
Gender	<input type="checkbox"/> Male <input type="checkbox"/> Female
Date of birth:	<input type="text"/>

Inclusion criteria

	Yes	No
1. Is the patient over the age of 18 years?	<input type="checkbox"/>	<input type="checkbox"/>
Does the patient have a diagnosis of vasculitis?		
2. OR Is vasculitis a potential diagnosis for their current illness?	<input type="checkbox"/>	<input type="checkbox"/>
Has the patient given informed consent?		
3. OR The patient does not have capacity to provide informed consent but a 'consultee' ("surrogate") has declared that the patient would want to participate in the study?	<input type="checkbox"/>	<input type="checkbox"/>

If "No" is ticked for any of the inclusion criteria, then patient is **NOT** eligible for the study.

I confirm that the patient:

Meets **ALL** the inclusion criteria for the study:

Or

Does not meet the inclusion criteria for the study

Signature of Investigator : _____

Print name: _____



Home

Edit

Review

Complete

Patient ID: C A T O C P 0 0 0 1

- 1
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- 32
- 33

Clinical Features - 3 Skin

Present at any time since the onset of the current illness = Tick the relevant box if symptoms or signs were present during the current illness. The current illness includes the whole period from when you think the vasculitis or mimic disease started until the date of diagnosis. This includes items that may have occurred and disappeared in the course of this illness.

Skin

Not involved

Please tick if present at any time since the

SYMPTOMS

- Pruritus
- Painful skin lesion of any type
- Other Symptom (please specify)



10-15 min

DCVAS

- Each center willing to participate to contact R. Luqmani
dcdvas@ndorms.ox.ac.uk
- Each center will need local REB approval
- US \$15 per patients with full set of data
(US \$10 if paper sheet)

International PHARMA-sponsored or -supported studies with Canada

- RITUXIMAB for maintenance
(Investigator-driven; pharma-supported)
- TOCILIZUMAB for LVV
- MEPOLIZUMAB for EGPA
- Belimimab for AASV?

Induction

Maintenance

**Relapsers (1M or 3m)
ANCA+**

Ritazarem

Drs. D.Jayne & P. Merkel

**N=190 → 160 RDM
40 in North America
across 12 centers (2 CA)**

P 90% alpha 5%:
superiority HR = 0.42
time to m or M relapse

MP pulses D1-3

0.5 or 1 mg/kg

CS 10 mg/d

3 mo

± Plasmapheresis

Rituximab 1000 mg

m4, 8, 12, 16, 20

RTX

(375 mg x4)

Azathioprine 2 mg/kg/d (MTX. MMF)

27

3 Stratas:
ANCA type, severe/non-severe,
initial PDN dose

ENDPOINT

36 → 48

4 mo

18 mo

24

Closure: last patient reaches M36

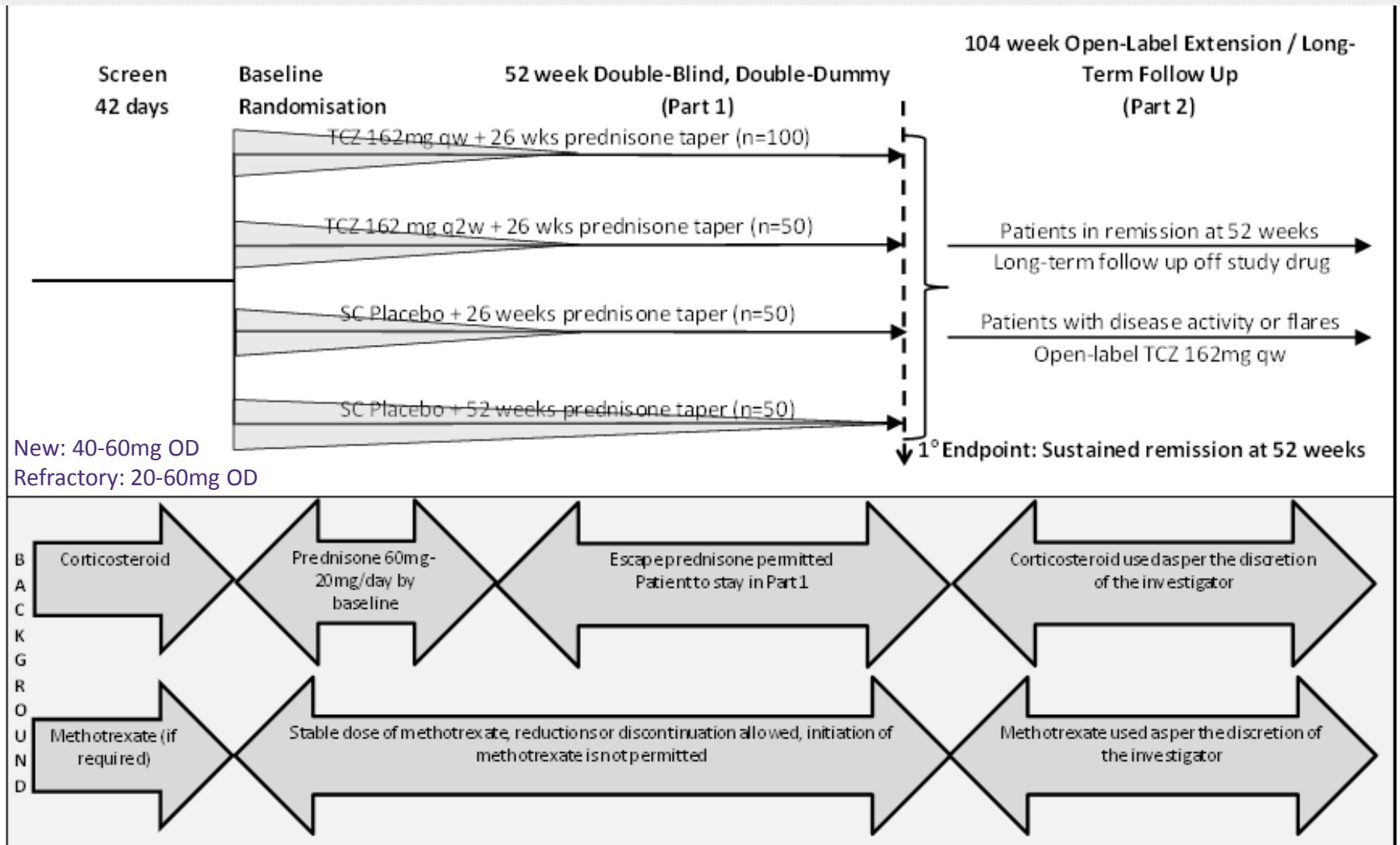
GCA Protocol

**A PHASE III, MULTICENTER,
RANDOMIZED, DOUBLE-BLIND
PLACEBO-CONTROLLED STUDY TO
ASSESS THE EFFICACY AND SAFETY
OF **TOCILIZUMAB IN SUBJECTS WITH
GIANT CELL ARTERITIS****

Number of Patients about 250

- 100 sites: US (20) / Canada (6 to 7: Hamilton, Newmarket, Kitchener, Toronto, Trois-Rivieres, St Catherine)
- 1 to 5 patients per sites maxi.
- New or refractory (relapsing or non-relapsing) GCA active within 6 wk
 - Age \geq 50 years
 - ESR $>$ 30 mm/hr and CRP \geq 1 mg/dL OR ESR $>$ 50 mm/hr**AND** \geq 1 of the following:
 - Unequivocal *cranial symptoms* of GCA (new-onset localized headache, scalp or temporal artery tenderness, ischemia-related vision loss, otherwise unexplained mouth or jaw claudication)
 - Symptoms of PMR**AND** \geq 1 of the following:
 - Temporal artery biopsy revealing features of GCA
 - Evidence of LVV by angiography or cross-sectional imaging study such as MRA, CTA, or PET-CTA

Design of Protocol



1°EP = proportion of CS-free at M6 in sustained remission at 52 wk



MEPOLIZUMAB IN CSS

