

Putting on your VEXAS goggles:

Seeing what's in plain sight

Sobi-sponsored satellite symposium at EULAR 2025 Fira de Barcelona Friday, 13 June 2025 17:30 – 18:45

NP-42384 Date of preparation: June 2025







Welcome

Sophie Georgin-Lavialle

NP-4238

Disclosures

Speaker's fees	Sobi, Novartis, Amgen
Scientific advisory board	Sobi, Novartis



Disclaimer & important information

- This presentation serves educational purposes and is intended to provide information and stimulate discussion on selected topics in VEXAS syndrome.
- The intent of this symposium is not to provide medical or any other type of advice.
- All treatment decisions should be up to the discretion of the healthcare provider and the patient, as each patients' situation may vary.
- This scientific event is a non-promotional activity sponsored by Sobi and the speakers are being compensated for their involvement.
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- No identifiable patient-specific information is included.



Introducing the faculty



Sophie Georgin-Lavialle

French National Reference Center for Autoinflammatory Diseases and AA Amyloidosis Tenon hospital, Paris, France



Thibault Mahévas

Paris Cité University Saint-Louis hospital Paris, France



Sara Bindoli

University of Padova
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Lachelle D. Weeks

Dana-Farber Cancer Institute
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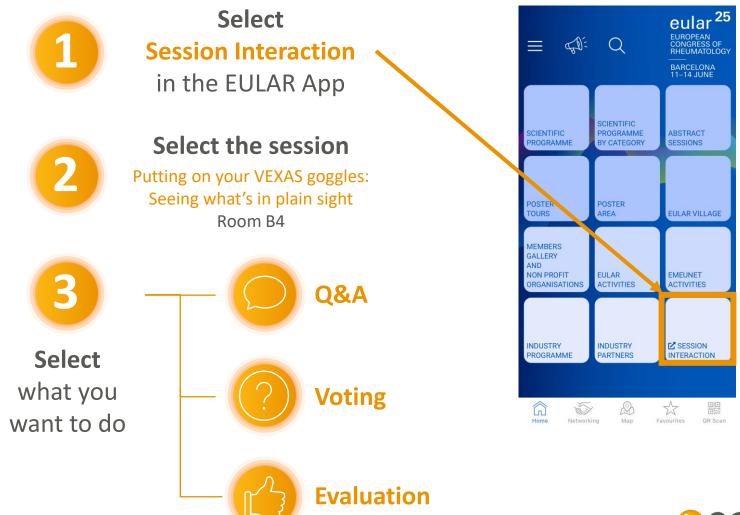


We want you to participate!

Q&A and evaluation

Please submit questions throughout the symposium via the EULAR App

Questions will be addressed in the live Q&A session





Symposium objectives

Please open the EULAR App to be ready to vote in the poll

Disease awareness - educate on VEXAS disease manifestations to allow timely diagnosis and management

Provide guidance on specific disease manifestations across the medical specialties that are most typical for VEXAS and indicate who should be tested for a confirmed diagnosis

Provide opportunity for expert Q&A session



Putting on your VEXAS goggles: Seeing what's in plain sight

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Agenda

17:30	Welcome Sophie Georgin-Lavialle (Chair)
17:35	Putting on your goggles - An introduction to VEXAS Sophie Georgin-Lavialle
17:45	External presentation - Dermatologic features of VEXAS Thibault Mahévas
18:00	Under the skin - Rheumatologic features of VEXAS Sara Bindoli
18:15	Deep, into the marrow - Haematologic features of VEXAS Lachelle D. Weeks
18:30	Panel discussion and Q&A All Faculty



NP-4738

What's your opinion?

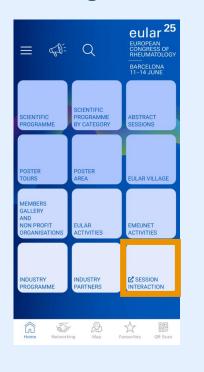


How would you rate your current knowledge of VEXAS syndrome?

- A. Expert
- **B.** Intermediate
- C. Beginner
- D. Unfamiliar

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Sophie Georgin-Lavialle

French National Reference Center for Autoinflammatory Diseases and AA Amyloidosis

Tenon hospital, Paris, France

French VEXAS Study Group







VEXAS is a newly described disease¹



V acuoles

E 1-enzyme

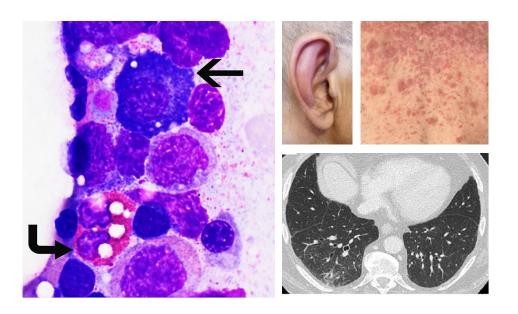
X -linked

A utoinflammatory

S omatic

Discovered in 2020

Somatic Mutations in UBA1 and Severe Adult-Onset Autoinflammatory Disease Beck DB, Ferrada KA, Sikora AK, et al.

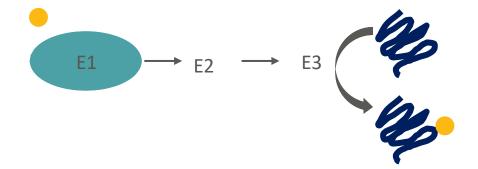


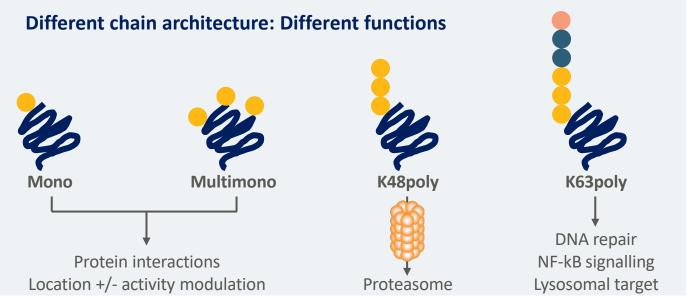




VEXAS: Pathophysiology









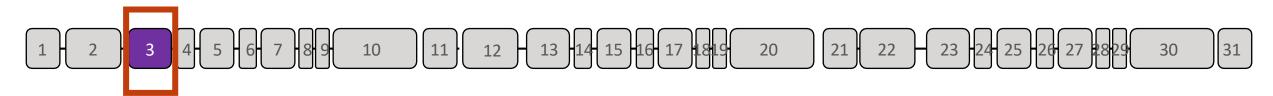
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VEXAS is associated with mutation in UBA1



Mainly in exon 3¹

Hot spot



Most common mutation in methionine 41 of exon 31

c.122T \rightarrow C (p.Met41Thr) 45% c.121A \rightarrow G (p.Met41Val) 30% c.121A \rightarrow C (p.Met41Leu) 18%

Splice motif mutation 7%

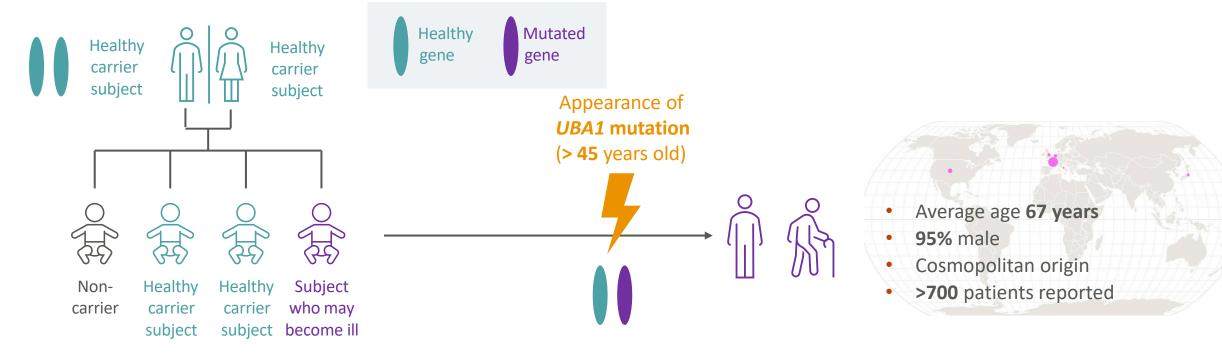
The specific mutational subtype impacts clinical manifestations and clinical outcome²



ND 4020

VEXAS appears later in life, usually in men and is the result of an acquired mutation on the X chromosome





Estimated prevalence 1/14000 (and 1/4000 in men > 50 years)*1



VEXAS was also reported in **young men²** and **women³**Adults with clinical presentations of VEXAS syndrome **must be tested for** *UBA1* **mutations**, **regardless of age**





VEXAS is a heterogeneous disease



Delayed diagnosis & misdiagnosis¹







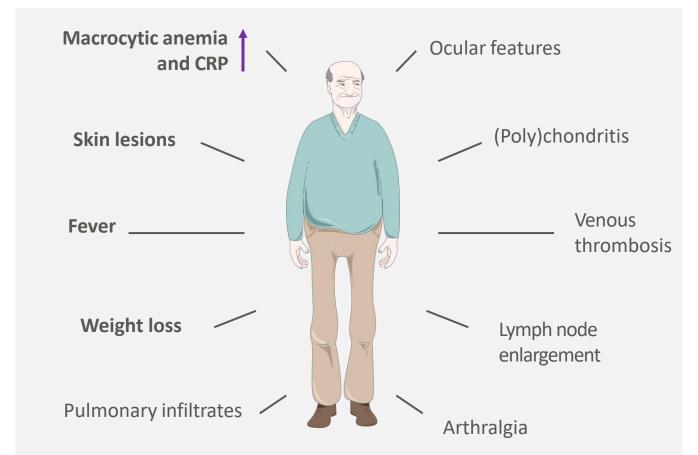


5

years

Most frequent considered diagnosis prior to VEXAS syndrome

- Seronegative arthritis
- Relapsing polychondritis
- Sweet's syndrome
- Polymyalgia rheumatica
- Systemic lupus erythematosus
- Medium vessel vasculitis



Diagnosis is confirmed by genetic testing for UBA1 mutation



Key messages

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- VEXAS is an inflammatory syndrome primarily affecting men >45 years of age
- VEXAS is a heterogeneous disease
- Depending on clinical manifestations, patients are seen by dermatologists,
 rheumatologists or haematologists
- Understanding clinical manifestations in other medical specialties is critical for differential diagnosis, triggering a confirmatory genetic testing
- VEXAS can be diagnosed by sequencing UBA1 (Sanger exon 3 or panel)



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What's your opinion?

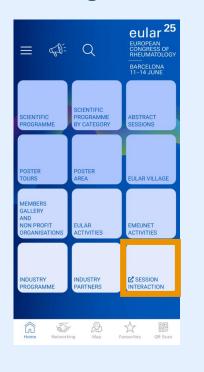


What is the most frequent dermatologic manifestation suggestive of VEXAS syndrome?

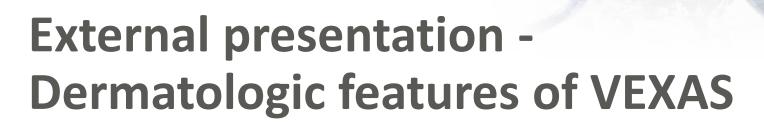
- A. Annular papules
- **B.** Periorbital oedema
- C. Livedo reticularis
- D. Sweet's syndrome

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Thibault Mahévas

Dermatology Department Hôpital Saint-Louis Paris, France













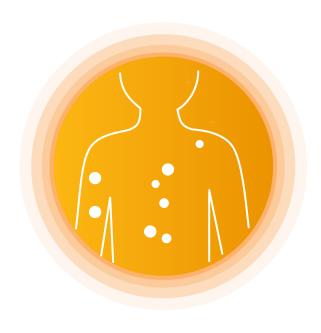
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Disclosures

Speaker's fees	Almirall, Janssen, Leo Pharma, Novartis, Sanofi
Scientific advisory board	Novartis, Sanofi



VEXAS syndrome from a dermatologist's perspective¹



Cutaneous involvement is the most frequent clinical sign in VEXAS patients¹⁻⁷

- **Up to 89%** of patients report cutaneous manifestations^{2,5-7}
 - First clinical symptom in up to 63% of patients^{4,7}
- Clonal neutrophilic dermatitis most frequent⁶
- Various cutaneous signs⁴⁻⁷
 - Sweet's syndrome-like lesions (papules, nodules)
 - Pustules
 - Chondritis
 - Livedo
 - Periorbital oedema
- High frequency of association between skin findings and systemic Inflammation (fever, weight loss)^{2,6,7}



VEXAS, vacuoles, E1 enzyme, X-linked, autoinflammatory, somatic.

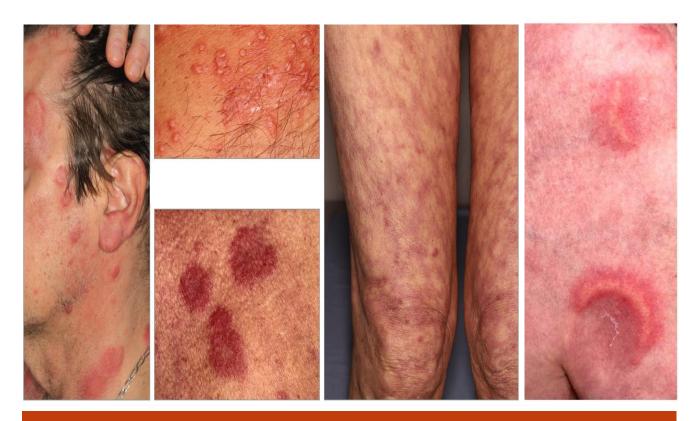
1. Francès et al. Medicine 2001;80:173-9 2. Beck et al. N Engl J Med 2020;383:2628-38 3. Zakine et al. JAMA Dermatol 2021;157:1349-54 4. Zakine et al. J Am Acad Dermatol 2023;88:917-20 5. Sterling et al. J Am Acad Dermatol 2023;89:1209-14 6. Georgin-Lavialle et al. Br J Dermatol 2022;189:564-74 7. Tan et al. JAMA Dermatol 2024;160:822-9. Images courtesy of Dr Mahévas, Saint Louis hospital collection. Image on the top right used with permission of the American Academy of Dermatology, Inc., from Clinical and Pathological Features of Cutaneous Manifestations in VEXAS syndrome: A Multicenter Retrospective Study of 59 Cases. Zakine et al. J Am Acad Dermatol 2023;88:917-20; permission conveyed through Copyright Clearance Center, Inc.



Cutaneous features:

Important for diagnosis of VEXAS syndrome^{1,2}

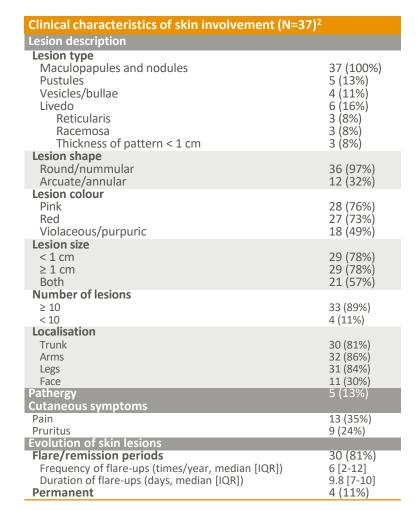




Same loss-of-function *UBA1* mutation in bone marrow and skin lesions¹

IQR, interquartile range; VEXAS, vacuoles, E1 enzyme, X-linked, autoinflammatory, somatic. **1.** Zakine et al. *JAMA Dermatol* 2021;157:1349-54 **2.** Zakine et al. *J Am Acad Dermatol* 2023;88:917-20.

Images used with permission of the American Medical Association, from UBA1 Variations in Neutrophilic Dermatosis Skin Lesions of Patients with VEXAS Syndrome. Zakine et al. *JAMA Dermatol* 2021;157:1349-54 and the American Academy of Dermatology, Inc., from Clinical and Pathological Features of Cutaneous Manifestations in VEXAS syndrome: A Multicenter Retrospective Study of 59 Cases. Zakine et al. *J Am Acad Dermatol* 2023;88:917-20; permission conveyed through Copyright Clearance Center, Inc.





Papules and nodules:

A common sign in VEXAS patients

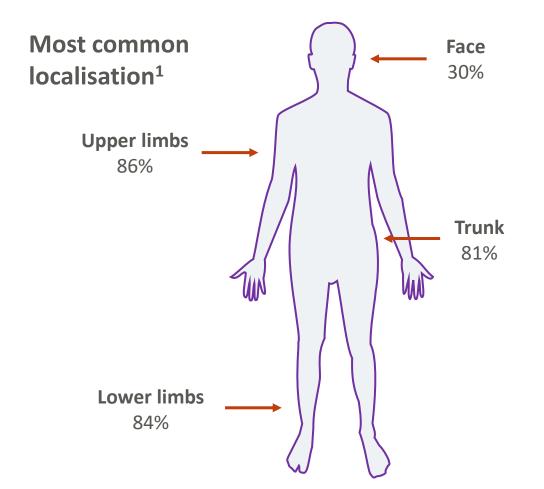


Papules and nodules

- **Inflammatory** in 100% of cases
- Multiple (≥10 in 89% of cases)¹
- Variable in size and colour¹









Papular lesions:

A common sign in VEXAS patients



Annular papules and arcuate lesions in 32% of cases¹













Rare cutaneous features in VEXAS patients



Pustules 13%¹



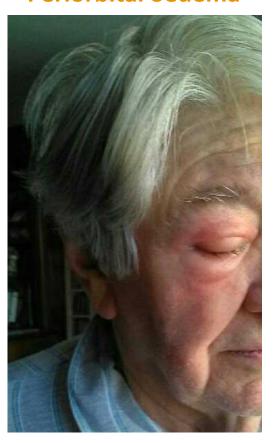
Pseudocellulitis



Livedo 16%¹



Periorbital oedema



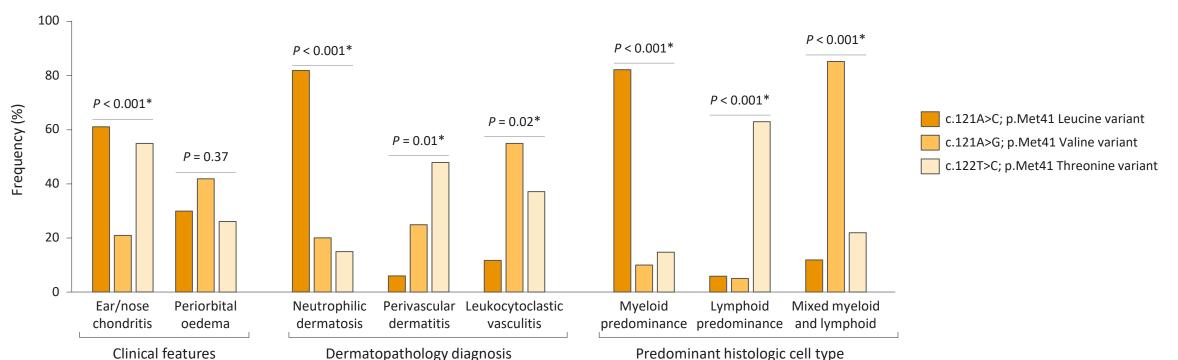




Skin manifestations of VEXAS syndrome and **associated genotypes**



Association of genotype with clinical and histopathologic findings¹



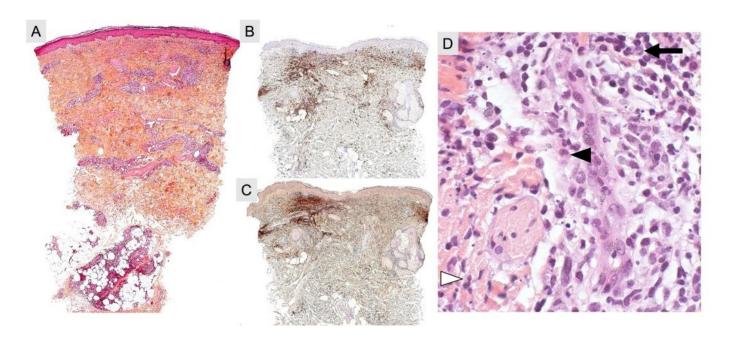
^{*}Statistically significant comparison (p < 0.05).

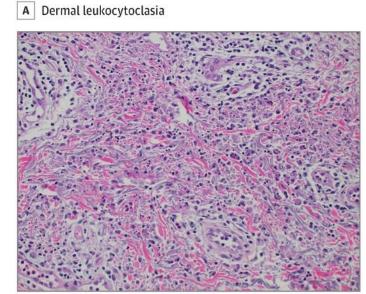




VEXAS histology^{1,2}





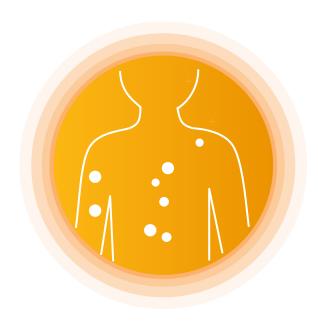


- High frequency of neutrophilic dermal infiltrate, histiocytoid Sweet's syndrome (CD68, MPO positive)
- Leukocytoclasia with or without vasculitis (controversial)
- Perieccrine lymphocytic and neutrophilic infiltrate with leukocytoclasia
- Polyarteritis nodosa aspect



Dermatology: Key messages

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- VEXAS syndrome: Haemato-auto-inflammatory syndrome, associated with clonal haematopoiesis and myelodysplasia cutis concept
- Skin involvement: Frequent (up to 89%) and often first sign of VEXAS (up to 63%)
- Skin features in VEXAS syndrome:
 Papules, nodules, plaques, arcuate lesions, peri-orbital oedema
- Myelodysplasia cutis: Neutrophilic dermal infiltrate, histiocytoid Sweet's syndrome with clonal UBA1 cell



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What's your opinion?

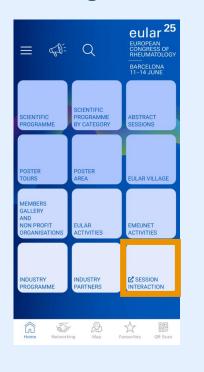


What is the most frequent rheumatological manifestation suggestive of VEXAS syndrome?

- A. Musculoskeletal (arthritis/arthralgia, myalgia/myositis-like symptoms)
- B. Vasculitis-like manifestations (leukocytoclastic vasculitis, erythema nodosum, livedo reticularis etc.)
- C. Chondritis
- D. Organ involvement [pleuritis, (myo) pericarditis, pneumonia]

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Disclosures

Speaker's fees	Sobi
Scientific advisory board	Novartis, Sobi

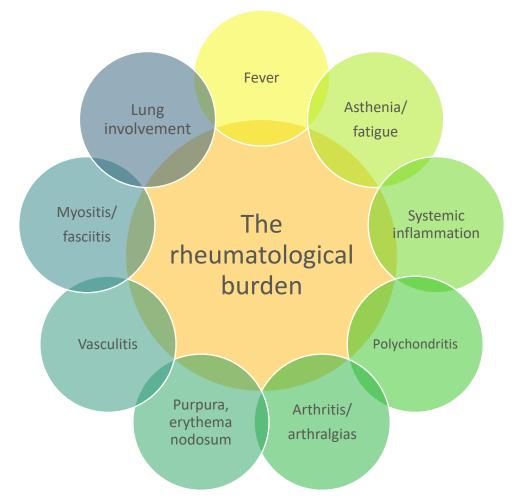


VEXAS syndrome from a rheumatologist's perspective



In medicine, as in life, we often see what we are looking for





Due to the **broad inflammatory and systemic nature of the condition** and **prevalence of musculoskeletal symptoms**, rheumatologists will frequently see potential VEXAS patients



Chronic, steroid-dependent inflammation with severe fatigue (asthenia) in VEXAS syndrome

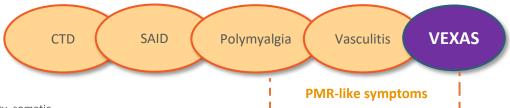


Persistent inflammation:

VEXAS syndrome is a chronic progressive autoinflammatory disease with a high unmet need^{1,2}

constitutional symptoms, such as fatigue, fever, night sweats and weight loss, affect almost all patients²⁻⁴

- Anaemia may worsen fatigue contributing to physical weakness
- Cytokine release (mainly IL-6, TNF-alpha, IL-1) directly induces fatigue and malaise
- Recurrent or persistent low- to high-grade fever may occur daily or intermittently
- Inflammatory manifestations of VEXAS generally **require management** with corticosteroid³





Inflammatory arthritis and arthromyalgias in VEXAS syndrome



is a frequent manifestation in

up to 80% of VEXAS patients¹⁻³

- Articular involvement in VEXAS is variable.
- Patients typically present with joint pain and swelling
- Mostly large and medium joints are affected, with no specific distribution pattern⁴
- Symptoms may resemble rheumatoid arthritis or other autoimmune arthropathies like seronegative arthritis²

Arthritis in VEXAS syndrome can affect multiple joints, leading to increased discomfort and functional limitations impacting daily life



Joints and beyond: Articular involvement, myalgias and myositis in VEXAS syndrome



Arthralgias

FRENVEX ~36%¹ Cohort: 299 patients



Spanish cohort ~82%² Cohort: 39 patients Swiss cohort ~ 35%³

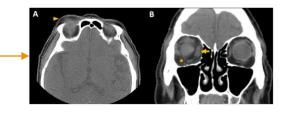
Cohort: 17 patients



Case reports^{2,3,4}



Muscular and peri-muscular involvement



CT scan showing medial rectus enlargement (orbital myositis)⁵



Arm fasciitis

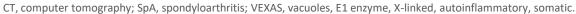








Focal myositis⁶



^{1.} Georgin-Lavialle et al. Arthritis Rheumatol 2024;76(suppl 9):1886 2. Garcia-Escudero et al. Rheumatology 2025;64:3747-55 3. Wolff et al. Swiss Med Wkly 2025;155:3879



^{4.} Magnol et al. Rheumatology 2021;60:e314-5 5. Vitale et al. Semin Arthritis Rheum 2024;66:152430 6. Jun et al. Ann Rehabil Med 2011;35:944-8.

Relapsing polychondritis (RP) in VEXAS syndrome



Polychondritis or localised chondritis is one of the most common features of VEXAS syndrome¹

Auricular or nasal chondritis reported

in up to 60% of patients^{2,3}





Prediction of VEXAS syndrome in patients with RP:

Coexisiting male sex, macrocytosis, and a platelet count $<200\times10^3/\mu$ l^{4,5}

- Recurrent inflammation of cartilage, particularly in the ears, nose, and respiratory tract⁵
- In the majority of cases, chondritis in patients with VEXAS syndrome is indistinguishable from RP¹

Differences between VEXAS-associated and idiopathic RP^{5,6}

Patient %	VEXAS-associated RP	Idiopathic RP
Fever	60%	10%
Skin lesions	82%	20%
Ocular involvement	57%	28%
Lung infiltrates	46%	0%
Higher median CRP	64 mg/L	10 mg/L







Vasculitis-like manifestations in VEXAS syndrome



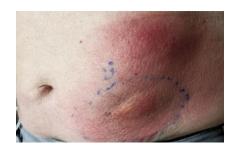
Be aware of vasculitis features in VEXAS



Livedo reticularis



Purpuric rash



Panniculitis (EN-like)



Cryoglobulinemia (Type III)

Syndrome: A Case Series. Koster et al. Mayo Clin Proc 2021;96:2653-9; permission conveyed through Copyright Clearance Center, Inc.

- ~20% of VEXAS patients had evidence of vasculitis in a cohort of 89 patients¹
- Prevalence of small (19%, n=89)¹, medium (up to 18%, n=39)^{1,2} and large vessel vasculitis (up to 23%, n=35)^{1,3}
 - Leukocytoclastic vasculitis: Small vessel vasculitis, most common vasculitis reported in VEXAS, typically manifests as palpable purpura^{4,5}
 - Polyarteritis nodosa: Medium-vessel vasculitis with widespread clinical manifestations including renal disease, hypertension, cutaneous lesions and cardiovascular injury⁴
- 86% of vasculitis patients with cutaneous manifestations (purpuric rashes, ulcers, or subcutaneous nodules)¹

Is VEXAS a form of «variable» vessel vasculitis?

EN, erythema nodosum; VEXAS, vacuoles, E1 enzyme, X-linked, autoinflammatory, somatic.

1. Sullivan et al. Rheumatology 2025;64:3889-94 2. Garcia-Escudero et al. Rheumatology 2025;64:3747-55 3. Bixio et al. Intern Emerg Med 2024;19:2331-45 4. Al-Hakim and Savic. Expert Rev Clin Immunol 2023;19:203-15 5. Watanabe et al. Front Med 2022;9:983939. Image top left used with permission of Excerpta Medica Inc., from Web of confusion. Gunderson et al. Am J Med 2011;124:501-4; permission conveyed through Copyright Clearance Center, Inc.; top right from Argobi et al. Dermatol Reports 2022;14:9414, used with permission (CC BY 4.0) © 2022 The Authors, published by PAGEPress; bottom left from Pereira da Costa et al. Front Immunol 2024;15:1403808, used with permission (CC BY 4.0) © 2021 The Authors, published by Frontiers Media S.A.; bottom right used with permission of Mayo Foundation for Medical Education and Research, from Clinical Heterogeneity of the VEXAS



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How to search for VEXAS starting from vasculitis¹





147 vasculitis patients

(LVV, ANCA, PAN, Behçet, IgA vasculitis, relapsing polychondritis)



7 patients with VEXAS features

3/5 (60%) had *UBA1 mutations* confirming VEXAS

A clinically oriented, phenotype-first approach is central to enhancing the diagnosis of undiagnosed VEXAS syndrome cases

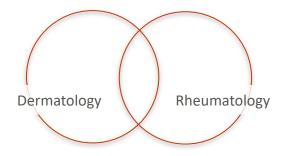


Sweet's syndrome (neutrophilic dermatosis) in VEXAS syndrome



Important clinical clue for healthcare professionals during the diagnostic process

Highlighting the need for multidisciplinary management



- Manifests with painful skin lesions (tender erythematous papules, nodules or plaques) often accompanied by systemic symptoms such as fever and neutrophilia^{1,2}
- Several inflammatory and autoimmune diseases can present in a similar way to Sweet's syndrome³
 - Eosinophilic dermatosis
 - RAS-associated autoimmune leukoproliferative disease
 - Rheumatoid neutrophilic dermatosis
 - Rosacea-like dermatitis
 - Synovitis acne pustulosis hyperostosis syndrome

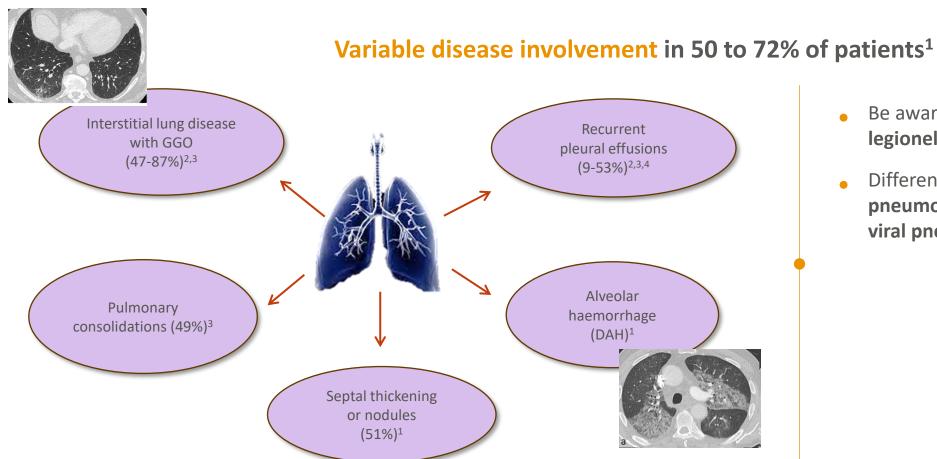






Lung involvement in VEXAS syndrome





- Be aware of the pulmonary legionellosis risk in VEXAS
- Differential diagnosis with COVID-19
 pneumonia or and other types of viral pneumonia (e.g. HSV) is required

DAH, diffuse alveolar haemorrhage; GGO, ground-glass opacity; HSV, herpes simplex virus; VEXAS, vacuoles, E1 enzyme, X-linked, autoinflammatory, somatic. Content based on speaker experience.

1. Puseljic et al. ARP Rheumatology 2024;2:151-6 2. Casal Moura et al. Respir Med 2023;213:107245 3. Borie et al. Chest 2023;163:575-85 4. Bruno et al. J Allergy Clin Immunol 2023;151:1204-14. Images (top) used with permission of American College of Chest Physicians, from Pleuropulmonary Manifestations of Vacuoles, E1 Enzyme, X-Linked, Autoinflammatory, Somatic (VEXAS) Syndrome. Borie et al. Chest 2023;163:575-85; permission conveyed through Copyright Clearance Center, Inc., (bottom) from Puseljic et al. ARP Rheumatology 2024;2:151-6, used with permission (CC BY-NC-ND 4.0)

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NP-42

Rheumatology: Key messages

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Rheumatologic features of VEXAS

- Consider differential diagnosis to exclude mimics
- Be alert, in particular to vasculitis-like manifestations and chondritis
- Musculoskeletal symptoms may be non-specific
- Always investigate for associated haematological and/or dermatological manifestations



What's your opinion?

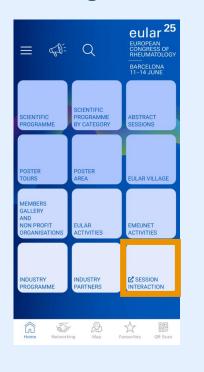


What is the most frequent haematologic manifestation suggestive of VEXAS syndrome?

- A. Pancytopenia
- **B.** Macrocytic anaemia
- C. Plasma cell dyscrasias (MGUS/SMM)
- D. Myelodysplastic syndrome

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Disclosures

Speaker's fees	Sobi
Scientific advisory board	Vertex, Sobi



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VEXAS syndrome is a rare autoinflammatory condition with several haematological manifestations

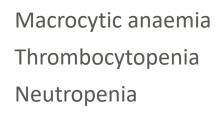


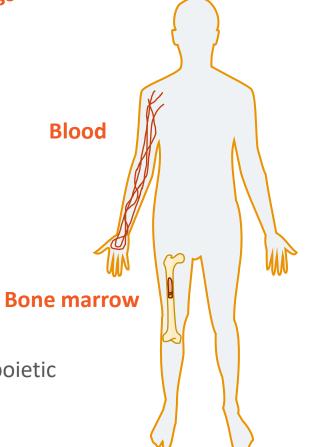
Peripheral blood and marrow findings



Cytopenias







Haematologic malignancies



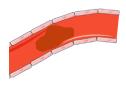
Myelodysplastic syndrome

MGUS

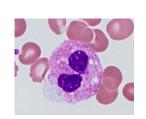


Multiple myeloma

Thrombosis



Venous thromboembolism
Transient ischaemic attack
Stroke



Cytoplasmic vacuoles
Vacuoles in haematopoietic
precursor cells



VEXAS syndrome from a haematologist's perspective¹



From the start, VEXAS syndrome stood out as a rheumatologic disease with clear haematologic overtone

- **UBA1 mutations** are primarily **responsible for myeloid clonal expansion** and both the **inflammatory and haematologic phenotype** in VEXAS¹
- Patients with VEXAS have an enrichment of typical clonal haematopoiesis mutations, particularly in DNMT3A and TET2¹
- Although VEXAS presents symptomatically as a rheumatologic disease, morbidity and mortality are associated with progression to haematologic disease²

Understanding the unique haematological features of VEXAS syndrome is essential for accurate diagnosis and management



Clonal haematopoiesis and haematologic malignancy: Key aspects of VEXAS syndrome



Benign clonal haematopoiesis

- Myeloid restricted somatic mutations in UBA1 are, by definition, a type of clonal haematopoiesis
- Co-occurrence of myeloid malignancy driver mutations that are common to MDS and CHIP^{1,2}

Myelodysplastic syndrome

- Often low risk by IPSS-M³
 - Involves fewer mutations which often correlate with lower risk of progression to AML
 - Survival estimates from IPSS-M are unreliable for patients with VEXAS and MDS due to the morbidity associated with the severe inflammatory manifestations
- Frequent presentation of systemic inflammatory autoimmune disease symptoms and diagnoses in MDS
 - Case for screening for UBA1 in MDS⁴

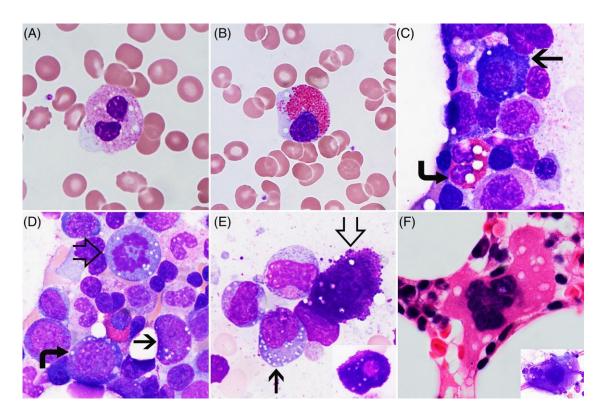
Plasma cell dyscrasias

- MGUS and multiple myeloma
 - Mechanism relating plasma cell dyscrasias to VEXAS is not fully understood



Haematopathologic features: Important for diagnosis of VEXAS syndrome





VEXAS syndrome: Vacuoles in myeloid, erythroid, and lymphoid lineages¹

Cytoplasmic vacuoles in haematopoietic cells are a key feature of VEXAS syndrome^{1,2}

- Vacuoles predominantly in marrow myeloid and erythroid precursor cells
- Not specific to VEXAS²
 - Observed in MDS and other inflammatory conditions (e.g. infectious, autoimmune disease, nutrient deficiencies); monocyte vacuolization in other conditions
- Intense marrow vacuolization highly specific to VEXAS syndrome²



ND_473

Cytopenias:

A common manifestation in VEXAS syndrome



Macrocytic anaemia is present in

100% of VEXAS patients¹







Cytopenias

- Macrocytic anaemia present in all VEXAS patients¹
 - Anaemia is a significant manifestation of VEXAS syndrome,
 affecting patient health and well-being
- Thrombocytopenia more common in patients with MDS¹
 - Patients with thrombocytopenia face a higher risk of bleeding,
 which can complicate medical procedures and daily activities
- Neutropenia more common in patients with MDS¹
 - Patients have an increased vulnerability to infections

Bone marrow biopsy is essential to rule out MDS in patients with persistent and unexplained cytopenia



Thrombotic events:

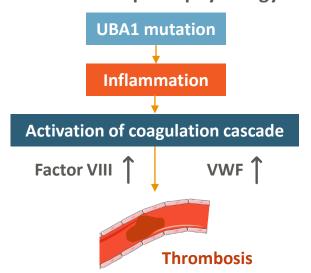
A clinical concern in VEXAS syndrome



Thrombosis occurred in

49% of VEXAS patients¹

Thrombosis pathophysiology¹



- **High rates** of both **venous and arterial thrombosis** in VEXAS¹
 - Venous thromboembolism was most frequent (up to 56%)²
 - Incidence of arterial events (e.g. transient ischaemic attack, stroke) in up to 25% of patients
- Association with venous inflammation²

Thrombotic events are common in VEXAS patients and treated as being a "provoked" event with inflammation as the provocation

Anticoagulation is indicated until provocation is resolved



Collaboration with Haematology: Crucial for VEXAS diagnosis and management



Overlap between inflammatory disease manifestations and more serious haematologic diagnoses^{1,2}



Bone marrow biopsy indicated in the workup of unexplained and persistent cytopenias or cytoses¹



NGS panels containing **UBA1**

• Presence of additional myeloid driver mutations would be highly suggestive of co-occurrent MDS^{1,3}



NP-42

Haematology: Key messages

Please open the EULAR App to be ready to vote in the poll



VEXAS syndrome is a **haematologic disease** characterised by **association with myeloid and plasma cell neoplasia, cytoplasmic vacuoles**, **cytopenias**, and **risk of thrombosis**

- Cytopenias require haematologic workup to assess for malignancy
- NGS containing UBA1 should be performed
 - **Thrombotic events are common,** and venous/arterial thromboembolism are treated as being a "provoked" event with inflammation as the provocation
- Partnership with Haematology in clinical management of haematologic manifestations of VEXAS



What's your opinion?

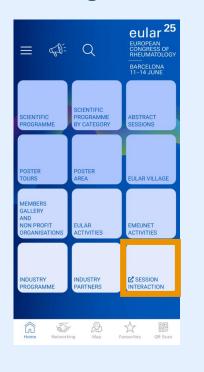


How confident do you feel in being able to recognise common clinical characteristics/ features of VEXAS syndrome?

- A. I am very confident
 - 3. I am more confident
- C. I need to learn more to be confident
- D. I am not very confident

Please open the EULAR App on your mobile device to vote in the poll

- 1. Select **Session Interaction**
- 2. Select the **session**
- 3. Select **voting**









All faculty





Please submit questions via the EULAR App

- 1. Select **Session Interaction**
- 2. Select the session
- 3. Select Q&A









Meeting close

Sophie Georgin-Lavialle



VEXAS syndrome: **Key messages**



An adult-onset haemato-inflammatory syndrome¹

- Diagnosis by sequencing UBA1
- Knowing the key clinical manifestations also in other medical specialties is essential for timely diagnosis
 - Skin involvement is frequent and often a first sign of VEXAS
 - Be alert, in particular to vasculitis-like manifestations and chondritis
 - VEXAS is characterised by **association with myeloid and plasma cell malignancies, cytoplasmic vacuoles, cytopenias**, and **risk of thrombosis**



Your feedback is important to us!

Complete the evaluation here:

- 1. Select Session Interaction
- 2. Select the **session**
- 3. Select Evaluation







Putting on your VEXAS goggles:

Seeing what's in plain sight

Many thanks for your participation



