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AB0429 BELFAST TRUST EXPERIENCE OF IDIOPATHIC INFLAMMATORY MYOPATHIES

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Background: The Idiopathic Inflammatory Myopathies (IIM) are a heterogeneous group of diseases where there is a growing field of knowledge and experience. Presentation is usually of onset of muscle weakness in combination with typical muscle biopsy findings and specific serum autoantibodies. There is a significant morbidity and mortality associated with IIM, due to its potential systemic nature, associated malignancy risk and side effects of immunosuppressive therapy¹. There is no published guideline on management of IIM, with treatment limited to best practice experience.

Objectives: Review Belfast Trust experience of Adult IIM from 2009-2020

Methods: Review of Electronic Records of 18 patients diagnosed with IIM between 2009-2020

Results: 18 patients diagnosed with IIM. Mean age at diagnosis is 64, with age range of 46-83. Mean duration of treatment is 4 years. 14 patients are in remission, 2 have active disease and 2 are deceased with cause of death unrelated to IIM.

Muscle Biopsy was performed in 17 patients. 11 patients biopsies were diagnostic and 6 were supportive. Of the patients with DM who did not have diagnostic muscle biopsies, all 3 had diagnostic skin biopsies. Of 6 patients with a negative

Table 1. Overview of diagnosis and treatment of patients with IIM.
PM - Polymyositis DM - Dermatomyositis IBM - Inclusion Body Myositis
IMNM Immune Mediated Necrotising Myositis EP - Extended Panel ILD - Interstitial Lung Disease RA - Rheumatoid Arthritis RTx - Rituximab
IVIG - Intravenous Immunoglobulin MTx - Methotrexate AZA - Azathioprine MMF - Mycophenolate Mofetil SLZ - Sulphasalazine HLQ - Hydroxychloroquine

Diagnosis	ANA/Extra muscular	Failed/ Intolerance	RTx	IVIG	MTx	AZA	MMF	Ciclos- porin	SLZ/ HLQ	Prednisolone duration (months)
PM	Jo-1 Ro	AZA						X		18
PM	Jo-1	AZA	x	x					x	12
PM	Myocarditis									
PM	Negative. No EP	AZA/MMF/ RTx			x					Maint. 3mg
PM	Negative. No EP				x					22
PM	ILD									
PM	Jo-1	Mtx/MMF	x						x	Maint. 7mg
PM	ILD, Mechanic Hands									
PM	Negative. No EP					x				36
PM	Negative. No EP			x						18, reducing dose
PM	Negative. No EP		x		x					Maint. 5mg
PM	Ro			x						6, reducing dose
DM	ILD, Dysphagia									
DM	MDA5, Ro	AZA	x	x				X		18
DM	Rash, ILD									
DM	Mi2	Mtx	x					X		20
DM	Rash									
DM	PM-SCL									Deceased
DM	Rash									
DM	Ro52		x							6, reducing dose
DM	Sicca									
DM	MDA5, NXP2		x			x				Maint, 12.5mg
DM-	Rash									
DM-	SAE	MTx	x	x				X		Deceased
Amyopathic IBM	Rash									
IBM	Ro/La		x	x					x	Unknown duration. Now stopped
IMNM	HMGCR					x				12
IMNM	HMGCR		x	x	x					18, reducing dose

ANA, 5 had a muscle biopsy performed (diagnostic in 4 patients and supportive in 1 patient.)

Conclusion: Extended myositis panels have only recently become available in the Belfast Trust in recent years. This has enhanced patients phenotypes and vigilance for extra-muscular complications. There is a recognised elevated risk of cancer in patients with IIM2. In our patients, with a mean disease duration of 4 years, none have developed malignancy. All of our patients had a tissue sample obtained, either muscle or skin. In the Belfast Trust, Rheumatologists perform muscle biopsies and all of the samples contributed to diagnosis. A limitation of diagnostic tests is restricted access to EMGs. We introduced a variety of DMARDs to limit exposure to steroids. 50% of our patients are in remission and off steroids. The only biologic we used was Rituximab. In contrast to other rheumatological conditions, there is no published protocol for administration of Rituximab in IIM. For patients with refractory disease, IVIG was used in the short term to allow for introduction of alternative immunosuppressants to maintain remission. This review highlights the complex nature of this group of diseases, and our experience with a variety of treatment options. We have diagnosed and treated 18 patients, and although we have experience with the medications used to treat IMM further work is needed to establish evidence based treatment.

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AB0430 CONTRIBUTION OF SCLERODERMA/MYOSITIS-RELATED ANTIBODIES DETECTED BY IMMUNOBLOT TO THE DIAGNOSIS OF SYSTEMIC AUTOIMMUNE RHEUMATIC DISEASES IN 134 PATIENTS FROM A SINGLE REFERRAL CENTER

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Background: Immunoblot assays are increasingly used in clinical practice as part of the diagnostic armamentarium of systemic autoimmune rheumatic diseases (SARDs).

Objectives: To assess the contribution of an extended scleroderma/myositis-related antibodies (Ab) determination by immunoblot to the diagnosis of patients with SARDs.

Methods: We reviewed all medical records of patients with positive scleroderma/myositis-related Ab line blot determinations (Euroimmune AG, Lübeck, Germany) in our center from November 2017 to September 2020. These assays were requested due to high suspicion of SARDs in patients presenting with non-specific symptoms.

Results: 134 patients (37men/97women; mean age 59.6 ± 14.8 years) were positive for at least 1 Ab, 25 of them were positive for 2 Abs. Main clinical features at the time of immunoblot requests were: arthralgia/arthritis (n=88), Raynaud's phenomenon (n=59), rash (n=27), sicca syndrome (n=14.9%), myopathy (n=18). During follow-up, 28 patients were diagnosed with undifferentiated connective tissue disease (UCTD), 26 scleroderma, 23 overlap myositis, 18 interstitial pneumonia with autoimmune features (IPAF), 8 other inflammatory diseases, 8 Sjögren's syndrome, 7 systemic lupus erythematosus, 5 dermatomyositis, 1 necrotizing myositis. In 10 patients the diagnosis of SARD was finally ruled out (Figure 1). Interstitial lung disease (ILD) was present in 50 patients, being particularly frequent in those with anti-PL12, anti-PL7 and anti-MDA5 Abs. Cancer was detected in 9 (6.7%) patients, 6 of them were anti-Ro52 + (Table 1).

Conclusion: Immunoblot assays are of great help in the diagnosis of patients with high clinical suspicion of SARDs. While some Abs, such as anti-Ro52, anti-Ku and anti-PMScl75/100, remain to be nonspecific, other Abs including anti-PL12, anti-PL7 or anti-MDA5 are particularly helpful in detecting SARDs patients with associated ILD.