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Opinion

Why does the new disease activity score (EgyDAS) of Rheumatoid Arthritis not function?

Muravyev YV¹*, Muravyeva LA², Glukhova SI¹ and Litvinova MA¹

¹VA Nasonova Research Institute of Rheumatology, 34A Kashirskoye highway, Moscow 115522, Russia

²Central Polyclinic Department of MBUZ [Municipal Budgetary Healthcare Institution], Khimki Central Clinical Hospital, 2/21 Chkalova St., Khimki, Moscow region 141401, Russia

The analysis of almost a century-long evolution of ideas about the criteria for the activity of Rheumatoid Arthritis showed that the developed complex indices for determination there of are far from perfect, in particular the Disease Activity Score 28 (DAS28), widely used in clinical practice [1]. Therefore, the recently developed new Disease Activity Score (EgyDAS) of Rheumatoid Arthritis [2] has attracted interest because it includes four laboratory markers of Rheumatoid Arthritis (RA) activity, as opposed to DAS28, which assesses only one laboratory marker. It is the authors' opinion that EgyDAS is not only more accurate and easy to apply, but also "has both diagnostic/prognostic values in patient with RA". Because "a subject has a low Egyscore <-0.79, he/she can be considered to not have RA disease ".

Therefore, we decided to put the new disease activity score into practice. For this purpose, a pilot study of medical documents of 9 women with RA, aged 28 to 67 years, was carried out, fulfilled the American College of Rheumatology (ACR) criteria for RA and observed in the V. A. Nasonova Research Institute of Rheumatology.

Having applied the EgyDAS offered by the authors, we have calculated the RA activity (Table 1).

- Remission ≤ -0.15;
- Low disease activity > -0.15-0.15;

Table 1: RA patients' activity according to EgyDAS.									
	Labora	tory activit	EavDAS	RA activity					
	ESR*	CRP**	PDW***	MPV***	EgyDAS	classification*****			
1	22	30.2	10.8	9.5	-0.09251	Remission			
2	9	6.3	11.9	10.3	-1.48257	?			
3	11	0.5	11.6	10.1	-2.25683	?			
4	106	119	12.7	10.7	1.159325	High			
5	16	9.3	15.4	12.1	-1.20025	?			
6	5	1.5	11.2	9.9	-2.33987	?			
7	31	1.7	14.9	11.3	-1.21942	?			
8	16	5.7	11.9	10.3	-1.14561	?			
9	18	1.1	12.1	10.3	-1.65979	?			

*Erythrocyte sedimentation rate (Westegren), mm/hr; **: C-reactive protein,mg/l; ***: Platelet distribution width, % ; ****: Mean platelet volume, f; *****: Using the same criterion of DAS28 to measure the disease activity of a patient EgyDAS limits as follows [1].

- Moderate disease activity > 0.15-1.1;
- High disease activity > 1.1.

The assessment of the same RA patients in the same sequence, but according to DAS28, completed within the same period of time is represented in Table 2.

- Remission ≤ 2.6;
- Low disease activity> 2.6–3.2;
- Moderate disease activity > 3.2–5.1;

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*Corresponding author: Yuri Muravyev, VA Nasonova Research Institute of Rheumatology, 34A Kashirskoye highway, Moscow 115522, Russia, E-mail: murawyu@mail.ru

ORCID: https://orcid.org/0000-0001-5394-883X

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Table 2. The patients' detivity decording to DA020.									
	Test	character	DAS28	RA activity					
TJC*		SJC**	ESR	GH***	DASZO	classification****			
1	12	0	22	60	4.94	Moderate			
2	3	3	9	60	3.84	Moderate			
3	14	2	11	60	5.01	Moderate			
4	15	5	106	90	7.33	High			
5	16	2	16	67	5.51	High			
6	6	2	5	45	3.53	Moderate			
7	10	6	31	60	5.71	High			
8	6	6	16	80	5.13	High			
9	2	2	18	30	3.64	Moderate			

*:Tender joint count(0-28); **: Swollen joint count(0-28); ***: VAS general health patient(mm); ****: Disease activity was categorized according to DAS28 score into one of the following [3].

• High disease activity > 5.1

It is very unfortunate that the comparison of the results

represented in Tables 1,2 allows us speaking about the impossibility of using the published EgyDAS formula in clinical practice.

Therefore, we limited the number of cases.

Hopefully, this is due to a typo in the final release of the article.

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