ΟΛΙΣΤΙΚΗ ΔΙΑΧΕΙΡΙΣΗ ΑΣΘΕΝΟΥΣ ΜΕ ΨΩΡΙΑΣΙΚΗ ΝΟΣΟ Η ΟΠΤΙΚΗ ΤΟΥ ΨΥΧΙΑΤΡΟΥ

Δημήτρης Ρούκας Ψυχίατρος Κέρκυρα, 19 Απριλίου 2019

ΔΗΛΩΣΗ ΣΥΓΚΡΟΥΣΗΣ ΣΥΜΦΕΡΟΝΤΩΝ

ΤΑΚΤΙΚΕΣ ΑΠΟΔΟΧΕΣ: Ιδιωτικό Ιατρείο (Αθήνα), Υ.ΕΘ.Α

OMIΛΙΕΣ: Servier, Specifar, Brain Therapeutics, Lundbeck, Innovis, Novartis

ΜΕΛΕΤΕΣ: Lundbeck, Servier, ELPEN

ΕΚΠΑΙΔΕΥΣΗ: Servier, Specifar, Lundbeck, Innovis, ELPEN

Διευκρινίσεις...

- •Η παρουσίαση αυτή προορίζεται μόνο για μη-προωθητικό επιστημονικό σκοπό και μπορεί να περιέχει πληροφορίες σχετικά με τα προϊόντα ή τις ενδείξεις τους, που επί του παρόντος μπορεί να είναι υπό διερεύνηση ή/και που δεν έχουν εγκριθεί από τις ρυθμιστικές αρχές.
- •Η παρουσίαση αυτή εκφράζει αποκλειστικά τις απόψεις του ομιλητή.
- •Οι πληροφορίες που περιέχονται είναι ακριβείς κατά τη δημιουργία της παρουσίασης.
- •Τυχόν δεδομένα σχετικά με προϊόντα τα οποία δεν ανήκουν στη Novartis βασίζονται σε δημόσια διαθέσιμες πληροφορίες κατά τη δημιουργία της παρουσίασης.

Περίγραμμα παρουσίασης...

- Ψωρίαση
- Ψυχοκοινωνικές επιπτώσεις στους ασθενείς με ψωρίαση
- Παθοφυσιολογικοί μηχανισμοί ψωριασικής νόσου
- Παθοφυσιολογικοί μηχανισμοί κατάθλιψης
- Συνύπαρξη ψωριασικής νόσου και κατάθλιψης
- Κατάθλιψη (επιδημιολογία, διάγνωση, κλινική εικόνα)
- Συμπεράσματα

Ψωρίαση...

- Η ψωρίαση είναι μια κοινή, μη μεταδοτική, αυτοάνοση νόσος που επηρεάζει μέχρι και το 3% του παγκόσμιου πληθυσμού
- 125.000.000 πάσχουν από ψωρίαση παγκοσμίως,
- 15.000.000 πάσχουν από ψωρίαση στην Ευρώπη και
- 250.000 πάσχουν από ψωρίαση στην Ελλάδα
- η ψωρίαση επηρεάζει την εργασία και την παραγωγικότητα
- οι ασθενείς με ψωρίαση λαμβάνουν κατά μέσο όρο:
 - 26 μέρες αναρρωτικής άδειας το χρόνο

The Clear about Psoriasis survey is the largest global survey to date of people with moderate-to-severe psoriasis. It includes 8,338 participants across 31 countries and was supported by 25 patient groups from around the world.1



*Countries include: Argentina, Australia, Austria, Belgium, Brazil, Bulgaria, Canada, Czech Republic, Denmark, Finland, France, Germany, Hungary, India, Ireland, Israel, Italy, Japan, Mexico, Netherlands, Norway, Portugal, Romania, Russia, S. Korea, Sweden, Switzerland, Taiwan, Turkey, UK and USA



The Clear about Psoriasis survey

The average PASI score of

participants:

14.3



the Psoriasis Area Severity Index (PASI), Sleep Scale MOS, WHO-5 Quality of Life and Stanford Presenteeism Scale. Moderate-to-severe psoriasis was defined as patients either having a PASI score of 10 or above, or alternatively they had a PASI score between 5 and 9.9, with psoriasis plaques on either their face, palms, hands, fingers, genitals, soles of feet and/or nails.

Who took part? GENDER 55% Mean age 43 PASI SPLIT

32%
PASI 5-9.9 PASI 10+



The Clear about Psoriasis survey



Humiliation and Discrimination

of po

84%

of people with psoriasis suffer discrimination or humiliation

45% have been asked if they are contagious



34% have been stared at in a swimming pool





16% of people with psoriasis have been refused service in a beauticians, hairdressers, barbers or shop





The Clear about Psoriasis survey



Treatment goals and expectations



On average, people see three different medical professionals and try four different treatments before getting a treatment that works







Only 45% of people with psoriasis feel clear or almost clear skin is an achievable goal



28% took more than five years to get a treatment that gave them clear or almost clear skin



23% of people with psoriasis are still managed by their GP instead of a dermatology specialist



The Clear about Psoriasis survey

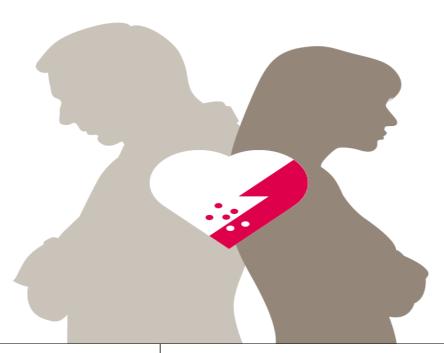


Relationships

43%

of the total sample feels psoriasis has affected their relationships and of these...

15% have had a partner end a relationship with them because of their psoriasis



33% feel inadequate as a spouse or partner



50% avoid having sex or intimate relationships



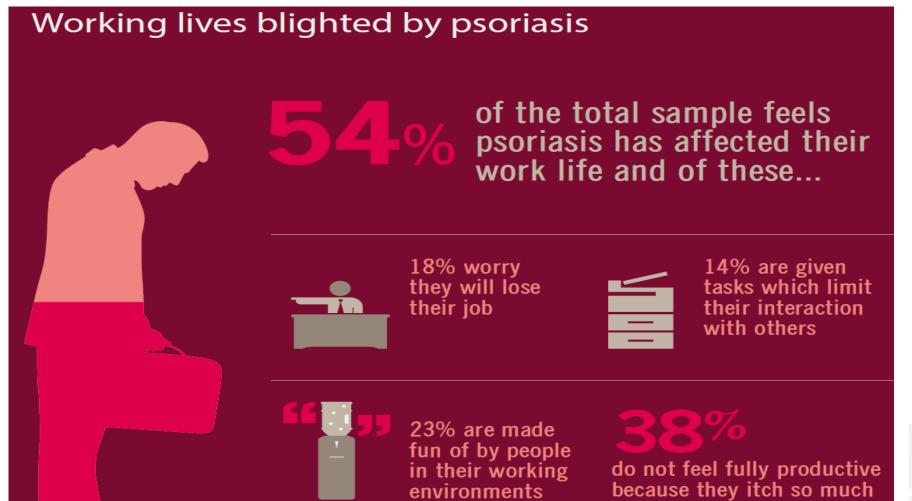
27% cannot bear the thought of someone touching their skin



#Ask4Clear skintolivein.com/ask4clear

The Clear about Psoriasis survey







The Clear about Psoriasis survey



Mental Health

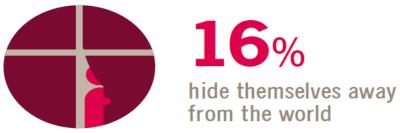
38%

of people with psoriasis have been diagnosed with a psychological condition as a result of their psoriasis



× 4 "

25% have been diagnosed with anxiety and 24% with depression





• Σύμφωνα με τα αποτελέσματα της έρευνας...

European Academy of Dermatology and Venereology (EADV) Congress 2016. September 28 – October 2; Vienna, Austria.

- το 84% των ατόμων που ζουν με μέτρια ως σοβαρή ψωρίαση υφίστανται διακρίσεις και περιφρόνηση,
- το 34% δηλώνει ότι αισθάνεται να τους κοιτούν επίμονα όταν βρίσκονται σε δημόσιους χώρους (πισίνα),
- 55% των συμμετεχόντων δηλώνουν ότι έχουν πολύ χαμηλές προσδοκίες από τη θεραπεία τους, σε σχέση με την επίτευξη καθαρού δέρματος,
- 45% από τους ασθενείς με ψωρίαση είχαν ερωτηθεί αν το νόσημα τους είναι μεταδοτικό,
- το 16% των συμμετεχόντων παραδέχεται ότι επιλέγει την απομόνωση από το κοινωνικό σύνολο ως μηχανισμό αντιμετώπισης,
- το 24% των ασθενών πάσχει από κατάθλιψη...

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Symptoms of Anxiety and Depression Among Adults with Arthritis — United States, 2015–2017

FIGURE 1. Age-standardized percentage* of adults reporting symptoms of anxiety and depression, by arthritis status — National Health Interview Survey, 2015–2017

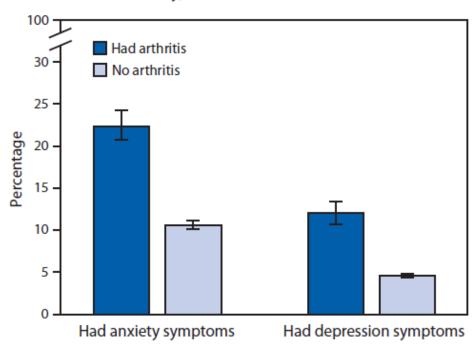
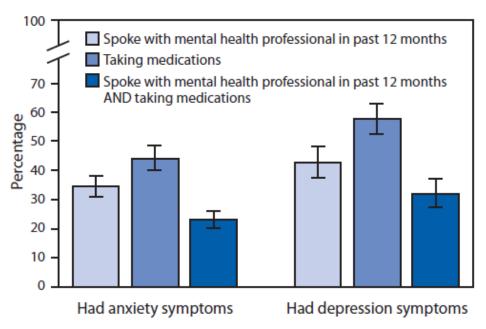


FIGURE 2. Age-standardized percentage* of adults with arthritis† reporting treatment for anxiety symptoms or depression symptoms,§ by type of treatment¶,** — National Health Interview Survey, 2015–2017



Drugs (2014) 74:423-441 DOI 10.1007/s40265-014-0191-y

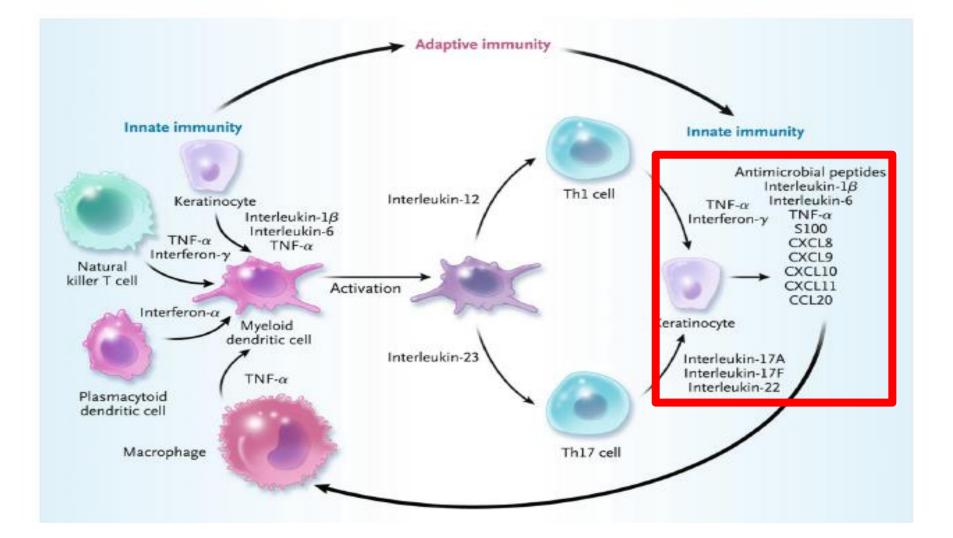
P. J. Mease, A. W. Armstrong

Philip J. Mease · April W. Armstrong

Fig. 2 Mechanisms of systemic, chronic inflammation in psoriasis and psoriatic arthritis. From Nestle et al. [1]. Copyright © 2009, Massachusetts Medical Society. Reprinted with permission from Massachusetts Medical Society. CCL chemokine (C-C motif) ligand, CXCL chemokine (C-X-

C motif) ligand, Th T helper,

TNF tumour necrosis factor



426

Inflammation: A Contributor to Depressive Comorbidity in Inflammatory Skin Disease

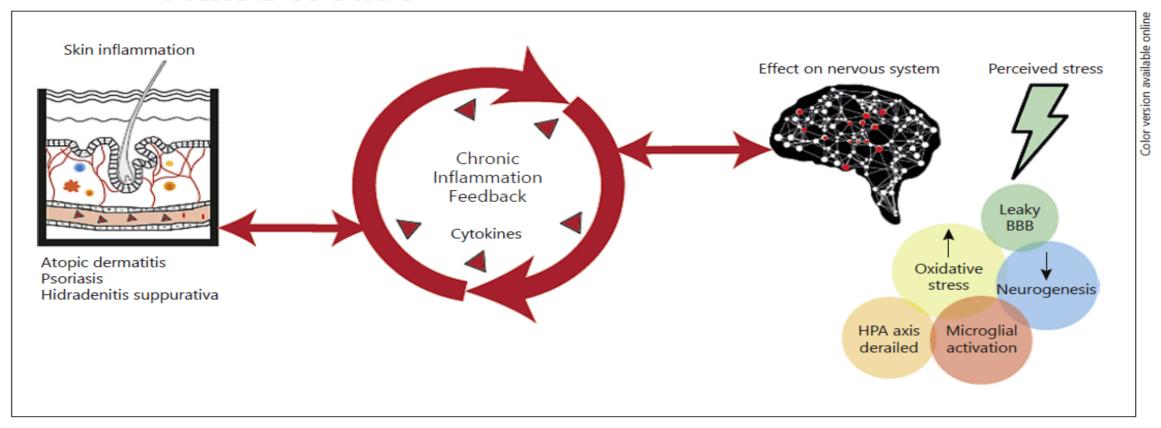


Fig. 1. The potential relationships between cutaneous inflammation and central nervous system contributions form a chronic feedback loop.

Skin Pharmacol Physiol 2018;31:246–251 DOI: 10.1159/000490002

Παθοφυσιολογία της κατάθλιψης...

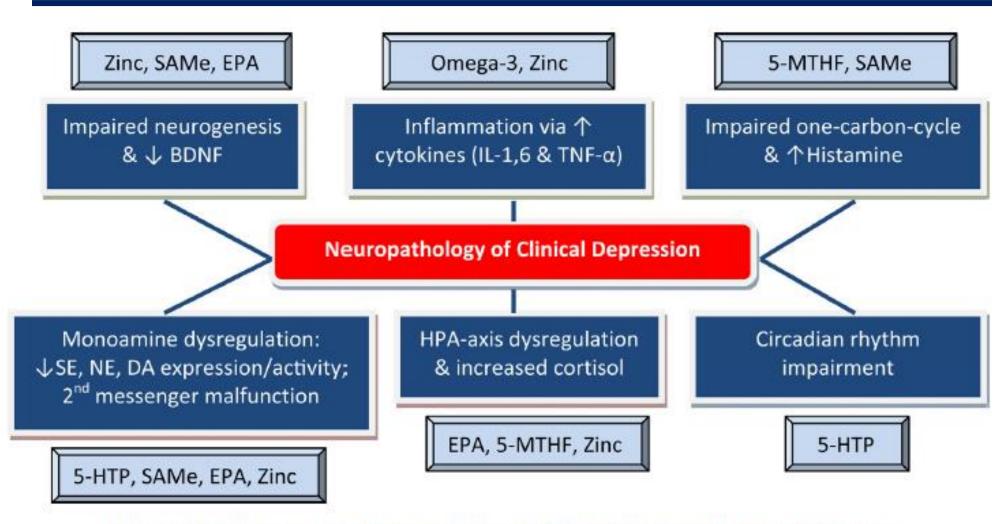


Fig. 1. Pathophysiology of depression and the nutraceuticals modulating these neurochemical pathways.

Sarris et all, An adjunctive antidepressant nutraceutical combination in treating major depression: Study protocol, and clinical considerations - Advances in Integrative Medicine 2 (2015) 49–55

Inflammation: A Contributor to Depressive Comorbidity in Inflammatory Skin Disease

Potential Mechanisms for a Pro-Inflammatory State Contributing to Psychological Effects

There are a number of important mechanisms through which a pro-inflammatory state may contribute to depression, including the psychological effects of circulating mediators and direct effects on the microglia.

There are considerable data showing that elevated levels of circulating cytokines can have a psychological impact. Cytokines such as interleukin (IL)-6 and tumor necrosis factor (TNF)-α can be detected in the serum during major depression, and they exhibit a dose-response relationship with the severity of depression [15, 16].

Furthermore, the activation of the immune system has been shown to induce mood changes which resemble sickness behaviors and overlap with the behavioral symptoms of depression such as anhedonia, anorexia, and social withdrawal [19]. Although inflammation may be local, arising in peripheral organs, pro-inflammatory cytokines such as TNF-α and IL-6, but also dendritic cells, can cross the blood-brain barrier (BBB) and trigger a cascade of events in the central nervous system [21]. The integrity of the BBB can be compromised due to stress, leading to a "leaky BBB" which does not adequately protect the brain from peripheral cytokine infiltration [22]. An overactive stress

response [23] and elevated levels of peripheral cytokines

can lead to brain cytokine signaling with downstream ef-

fects on synaptic function via the actions of the microglia,

neurotransmitter metabolism, and neurogenesis [22].

Furthermore, central inflammation has also been associated with oxidative stress and reduced neurogenesis in several brain regions which are implicated in depression including the hippocampus [25–27].

Psoriasis and Associated Psychiatric DisordersA Systematic Review on Etiopathogenesis and Clinical Correlation

**BÁRBARA ISABEL ROQUE CUNHA FERREIRA, MD; **JOSÉ LUÍS PIO DA COSTA ABREU, MD, PHD; **JOSÉ PEDRO GASPAR DOS REIS, MD; **AMÉRICO MANUEL DA COSTA FIGUEIREDO, MD, PHD

^aDepartment of Dermatology, Coimbra Hospital and University Centre, Portugal; ^bCentre for Philosophy of Science, University of Lisbon, Portugal; ^cFaculty of Medicine of the University of Coimbra

TABLE 3. The etiopathogenesis of depression	on in psoriasis	
DEPRESSION EXACERBATES PSORIASIS	PSORIASIS LEADS TO DEPRESSION	PSORIASIS AND DEPRESSION: SHARED ETIOPATHOGENIC MECHANISMS
 By increasing the levels of pro-inflammatory cytokines, such as IL-6 and TNF-α³⁶ By increasing the levels of substance P³⁰ Depression modulates itch perception and exacerbates pruritus in psoriasis²³ 	 Maladaptive schemas^{16,31} Low sociocultural level; single; female; personal history of depression: higher risk for depression^{32,33} Sleep disorders^{9,14} Sexual disorders^{14,26} Pain and pruritus^{3,11,12,14,22,28,29,30} Disfigurement and stigmatization^{20,21} Lesions on face/genital area²⁴ Higher PASI scores²⁴ 	 Abnormal calcium homeostasis³⁹ High concentrations of substance P^{9,30} Defect in β-adrenergic function¹⁵ Low melatonin secretion⁴⁰ High levels of pro-inflammatory cytokines (IL-1, IL-6, TNF-α)³⁷

Psoriasis and Associated Psychiatric DisordersA Systematic Review on Etiopathogenesis and Clinical Correlation

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TABLE 4. The etiologic factors for sleep and sexual disorders in psoriasis

SLEEP DISORDERS IN PSORIASIS: ETIOLOGY	SEXUAL DISORDERS IN PSORIASIS: ETIOLOGY				
Depression ^{9,37}	Risk factors for cardiovascular disease ³				
Obstructive sleep apnea ⁹	Low self-esteem/psychological factors ^{3,26}				
Pain of skin lesions ^{9,52}	Other psychiatric comorbidities: depression, ^{11,26} substance dependence, or abuse				
Parts of the body affected ⁸	Pruritus ¹¹				
Pruritus ^{9,37}	Psoriatic arthritis ¹¹				
Psoriatic arthritis/joint pain ⁵²	Side effects of psoriasis treatments ²⁶				

(J Clin Aesthet Dermatol. 2016;9(6):36–43.)



REVIEW

Psoriasis and sexual dysfunction: links, risks, and management challenges

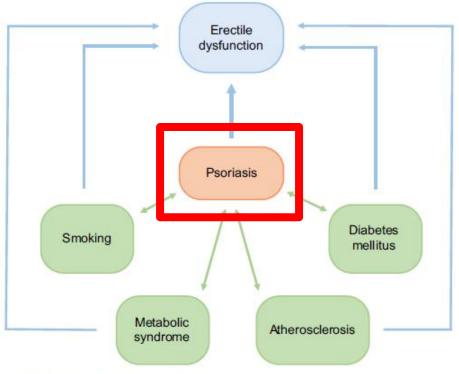


Figure I Association between erectile dysfunction, psoriasis, and comorbidities.

Notes: Blue arrows: independent association. Green arrows: comorbidities.

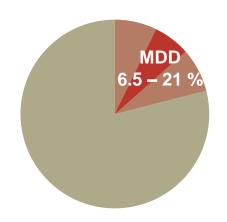
Psoriasis: Targets and Therapy 2018:8

Gleison V Duarte¹ Humberto Calmon² Gabriela Radel² Maria de Fátima Paim de Oliveira³

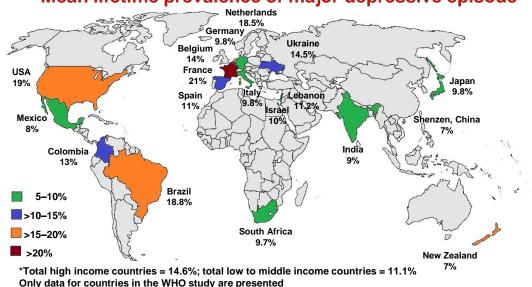
Επιπολασμός της κατάθλιψης...

It is estimated that each year, 6.9% of the EU population suffers from MDD¹

The lifetime prevalence of MDD is 6.5–21%, depending on the country²⁻



Mean lifetime prevalence of major depressive episode4



Σχήμα 3: Δείκτες υγείας αντιπροσωπευτικού δείγματος του πληθυσμού στην Ελλάδα, ΥΔΡΙΑ-χρόνια κατάθλιψη

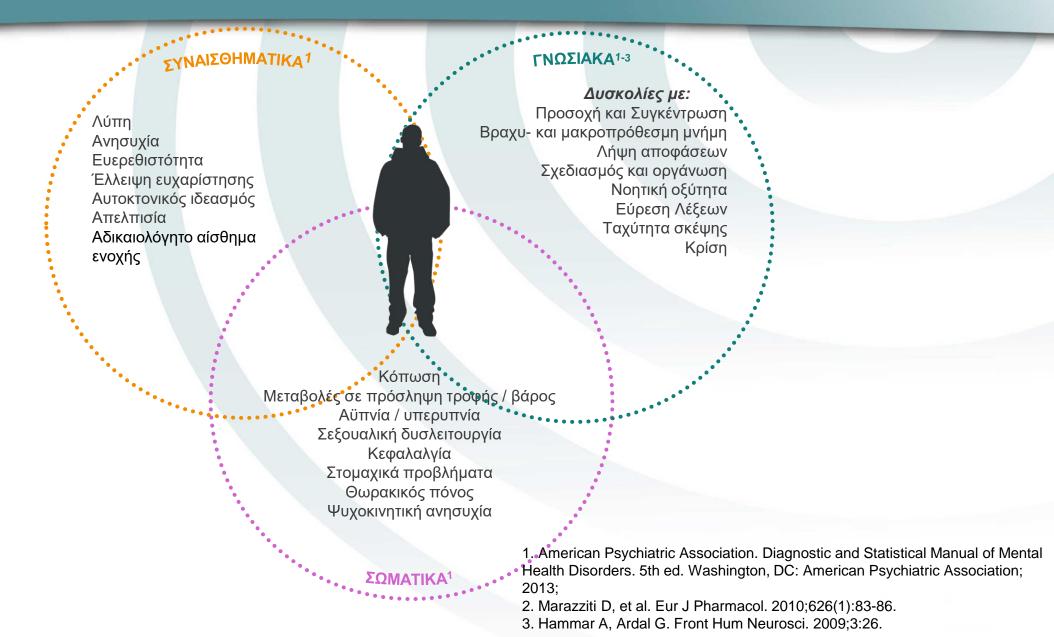
Στο πλαίσιο του προγράμματος ΥΔΡΙΑ οι συμμετέχοντες καλούνταν να συμπληρώσουν ερωτηματολόγιο με κατά πρόσωπο συνέντευξη και απαντούσαν εάν νοσούν ή έχουν νοσήσει από χρόνια κατάθλιψη τους τελευταίους 12 μήνες ή παλαιότερα και αν έχει γίνει διάγνωση από ιατρό.



- ✓ Μια στις δέκα γυναίκες ενήλικες μόνιμοι κάτοικοι της Ελλάδας πάσχει ή έπασχε από χρόνια κατάθλιψη, κατά δήλωση
- √Το ποσοστό των γυναικών που δήλωσαν χρόνια κατάθλιψη είναι περίπου 4 φορές μεγαλύτερο από των ανδρών
- ✓ Ο επιπολασμός της χρόνιας κατάθλιψης αυξάνει με την πρόσδο της ηλικίας

Πηγή: Πρόγραμμα ΥΔΡΙΑ, 2014

Η μεγάλη ετερογένεια της κατάθλιψης...



Μείζον Καταθλιπτικό Επεισόδιο: DSM-5

• Τουλάχιστον 5 από τα ακόλουθα συμπτώματα εμφανίζονται σε διάστημα 2 εβδομάδων και αντιπροσωπεύουν αλλαγή από την προηγούμενη λειτουργία.

Τουλάχιστον ένα από τα συμπτώματα είναι ένα από τα δύο πρώτα στην παρακάτω λίστα:

- Καταθλιπτική διάθεση
- Μειωμένο ενδιαφέρον / ευχαρίστηση
- Αλλαγές του σωματικού βάρους
- Διαταραχές ύπνου
- Ψυχοκινητική διέγερση/καθυστέρηση
- Κόπωση / απώλεια ενέργειας
- Αισθήματα απαξίωσης ή υπερβολικές/αδικαιολόγητες ενοχές
- Μειωμένη ικανότητα για σκέψη ή συγκέντρωση ή αναποφασιστικότητα
- **Επανειλημμένες σκέψεις θανάτου/ αυτοκτονικού ιδεασμού**
- Κλινικά σημαντική θλίψη

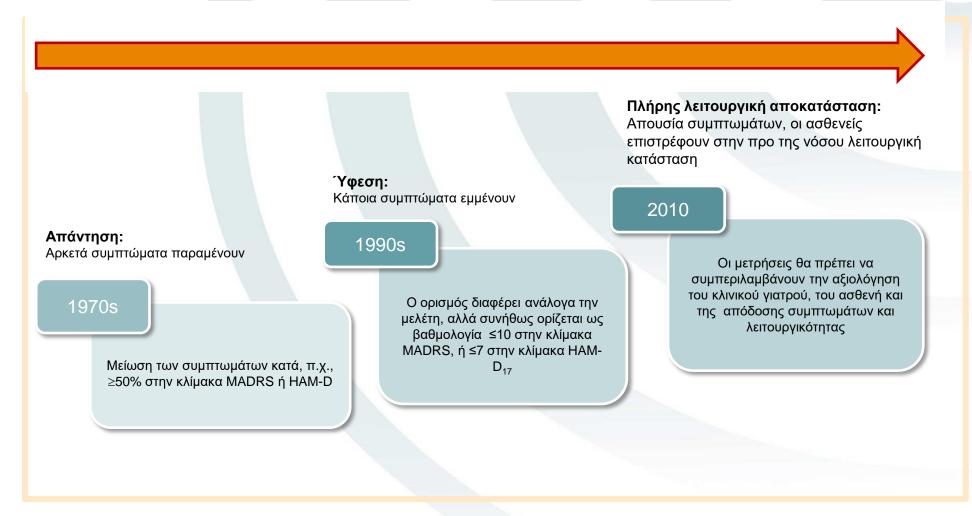
ΕΡΩΤΗΜΑΤΟΛΟΓΙΟ ΥΓΕΙΑΣ ΑΣΘΕΝΟΥΣ (PHQ-9)

Τις τελευταίες 2 εβδομάδες πόσο συχνά ενοχληθήκατε απ' οποιοδήποτε από τα παρακάτω προβλήματα; (Υποδείξτε την απάντησή σας με ένα "")	Καθόλου	Αρκετές μέρες	Περισσό τερες από τις μισές μέρες	Σχεδόν κάθε μέρα
1. Μικρό ενδιαφέρον ή λίγη απόλαυση στις δραστηριότητές μου	0	1	2	3
2. Νιώθετε καταβεβλημένος(η), κατατεθλιμμένος(η) ή απελπισμένος(η)	0	1	2	3
 Έχετε πρόβλημα να αποκοιμηθείτε ή να συνεχίσετε τον ύπνο σας ή κοιμάστε υπερβολικά 	0	1	2	3
4. Νιώθετε κουρασμένος(η) ή έχετε λίγη ενέργεια	0	1	2	3
5. Έχετε λίγη όρεξη ή τρώτε υπερβολικά	0	1	2	3
 Νιώθετε άσχημα για τον εαυτό σας ή ότι έχετε αποτύχει ή ότι έχετε απογοητεύσει τον εαυτό σας ή την οικογένειά σας 	0	1	2	3
 Έχετε πρόβλημα συγκέντρωσης σε κάποιες ενέργειες, όπως όταν διαβάζετε την εφημερίδα ή όταν παρακολουθείτε τηλεόραση 	0	1	2	3
 Κινείστε ή μιλάτε τόσο αργά που άλλοι άνθρωποι θα το παρατηρούσαν ή το αντίθετο – είστε τόσο ανήσυχος(η) ή νευρικός(ή), που κινείστε πολύ περισσότερο από το συνηθισμένο 	0	1	2	3
9. Σκεπτόσαστε ότι θα ήταν καλύτερα αν είχατε πεθάνει ή σκεπτόσαστε να προκαλέσετε κακό στον εαυτό σας με κάποιο τρόπο	0	1	2	3

FOR OFFICE CODING _	0	+	 +		+ _	
			=	Total Sco	ore:	

Εάν επιλέξατε <u>κάποια</u> προβλήματα, πόση <u>δυσκολία</u> προκάλεσαν τα προβλήματα αυτά στη δουλειά σας, στις οικιακές εργασίες σας ή στην επικοινωνία σας με άλλα άτομα;

Θεραπευτικός στόχος στην κατάθλιψη...



Η κατάθλιψη είναι μια σύνθετη και συχνά υποτροπιάζουσα διαταραχή

Πορεία της κατάθλιψης μετά το πρώτο επεισόδιο¹:



From: Association of Mental Disorders With Subsequent Chronic Physical Conditions: World Mental Health Surveys From 17 Countries

JAMA Psychiatry. Published online December 23, 2015.1-9 doi:10.1001/jamapsychiatry.2015.2688

	Chronic Physical	Condition, OR (95%	(CI)							
Mental Disorder ^a	Arthritis	Any Chronic Pain ^b	Heart Disease	Stroke	Hypertension	Diabetes Mellitus	Asthma	Chronic Lung Disease	Peptic Ulcer	Cancer
Mood disorder										
Major depressive episode/dysthymia	1.6 (1.5-1.8) ^c	1.7 (1.6-1.8) ^c	1.5 (1.3-1.8) ^c	1.6 (1.3-2.1) ^c	1.4 (1.2-1.5) ^c	1.4 (1.2-1.6) ^c	1.5 (1.3-1.8) ^c	2.1 (1.6-2.8) ^c	1.7 (1.5-1.9) ^c	1.2 (1.0-1.5) ^c
Bipolar disorder (broad)	1.7 (1.4-2.0) ^c	1.8 (1.6-2.1) ^c	1.6 (1.1-2.4) ^c	1.9 (1.1-3.1) ^c	1.4 (1.1-1.8) ^c	1.7 (1.2-2.3) ^c	2.4 (1.7-3.3) ^c	2.3 (1.5-3.7) ^c	1.8 (1.4-2.3) ^c	1.5 (1.0-2.2)
Anxiety disorder										
Panic disorder	1.5 (1.3-1.8) ^c	1.9 (1.6-2.1) ^c	2.1 (1.6-2.7) ^c	1.9 (1.1-3.1) ^c	1.7 (1.4-2.0) ^c	1.8 (1.3-2.4) ^c	1.9 (1.3-2.7) ^c	2.2 (1.4-3.3) ^c	1.9 (1.4-2.4) ^c	1.6 (1.2-2.1) ^c
Generalized anxiety disorder	1.8 (1.6-2.0) ^c	1.9 (1.8-2.2) ^c	1.4 (1.1-1.7) ^c	1.5 (1.0-2.3) ^c	1.4 (1.2-1.5) ^c	1.3 (1.0-1.6) ^c	1.7 (1.4-2.2) ^c	2.5 (1.8-3.5) ^c	1.5 (1.3-1.8) ^c	1.0 (0.8-1.3)
Social phobia	1.5 (1.4-1.7) ^c	1.8 (1.7-2.0) ^c	1.5 (1.2-1.9) ^c	1.8 (1.3-2.5) ^c	1.5 (1.3-1.6) ^c	1.3 (1.1-1.6) ^c	1.4 (1.1-1.7) ^c	1.9 (1.4-2.6) ^c	1.8 (1.6-2.2) ^c	1.1 (0.9-1.3) ^c
Specific phobia	1.5 (1.4-1.7) ^c	1.8 (1.7-1.9) ^c	1.8 (1.5-2.1) ^c	1.6 (1.3-2.1) ^c	1.5 (1.3-1.6) ^c	1.4 (1.1-1.6) ^c	1.5 (1.3-1.8) ^c	1.6 (1.2-2.1) ^c	1.8 (1.6-2.1) ^c	1.4 (1.2-1.6) ^c
Agoraphobia without panic	1.4 (1.1-1.8)	1.8 (1.4-2.2)	1.3 (0.8-2.0)	2.2 (1.0-4.5)	1.6 (1.2-2.0)	1.6 (1.2-2.4)	1.3 (0.9-2.1)	2.0 (1.1-3.6)	1.6 (1.1-2.4)	1.3 (0.8-2.1)
Posttraumatic stress disorder	1.8 (1.6-2.1) ^c	1.9 (1.7-2.2) ^c	2.1 (1.6-2.7) ^c	1.7 (1.1-2.6) ^c	1.3 (1.1-1.6) ^c	1.4 (1.0-1.9) ^c	1.9 (1.4-2.5) ^c	1.6 (1.1-2.3) ^c	2.3 (1.9-2.9) ^c	1.3 (1.0-1.8) ^c
Obsessive-compulsive disorder	1.4 (1.0-1.9) ^c	2.1 (1.7-2.6) ^c	1.6 (1.1-2.5) ^c	1.5 (0.6-3.8)	1.3 (0.9-1.8)	1.2 (0.6-2.3)	0.7 (0.4-1.5)	1.9 (0.8-4.5)	2.0 (1.2-3.6) ^c	1.8 (1.0-3.2)
Impulse control disorder										
Intermittent explosive disorder	1.6 (1.4-2.0) ^c	2.3 (2.0-2.6) ^c	1.6 (1.1-2.4) ^c	1.9 (1.1-3.3) ^c	1.5 (1.2-1.8) ^c	1.8 (1.3-2.5) ^c	1.3 (0.9-2.0)	3.0 (2.0-4.7) ^c	2.0 (1.5-2.5) ^c	1.5 (1.0-2.2) ^c
Bulimia nervosa	1.5 (1.0-2.2)°	2.1 (1.6-2.7) ^c	1.9 (0.9-3.9)	3.3 (1.4-8.0) ^c	2.3 (1.7-3.2) ^c	3.6 (2.0-6.6) ^c	1.3 (0.8-2.4)	0.7 (0.2-2.3)	1.6 (0.9-2.9)	1.6 (0.8-3.0)
Binge-eating disorder	1.7 (1.3-2.3) ^c	2.0 (1.5-2.6) ^c	1.4 (0.8-2.6)	1.5 (0.7-3.4)	2.0 (1.4-2.7) ^c	3.4 (2.0-5.9) ^c	2.1 (1.4-3.2) ^c	1.4 (0.7-2.5)	1.6 (1.0-2.5) ^c	1.6 (0.9-3.0)
Substance use disorder										
Alcohol abuse	1.6 (1.4-1.8) ^c	1.4 (1.3-1.6) ^c	1.7 (1.4-2.1) ^c	2.1 (1.5-3.0) ^c	1.6 (1.4-1.8) ^c	1.3 (1.1-1.6) ^c	1.6 (1.3-2.0) ^c	2.4 (1.8-3.2) ^c	1.6 (1.4-1.9) ^c	1.4 (1.1-1.8) ^c
Alcohol dependence	1.7 (1.4-2.0) ^c	1.6 (1.4-1.9) ^c	2.3 (1.8-3.0) ^c	2.8 (1.5-5.0) ^c	1.8 (1.5-2.1) ^c	1.5 (1.1-2.1) ^c	2.1 (1.5-2.8) ^c	2.0 (1.3-3.2) ^c	1.9 (1.5-2.4) ^c	1.4 (1.0-2.0)
Drug abuse	1.9 (1.6-2.2) ^c	1.6 (1.4-1.9) ^c	2.2 (1.6-3.0) ^c	1.9 (1.1-3.3) ^c	1.9 (1.6-2.2) ^c	1.8 (1.2-2.5) ^c	1.4 (1.0-2.0)	1.9 (1.3-2.8) ^c	2.0 (1.6-2.5) ^c	1.3 (0.9-2.1)
Drug dependence	2.1 (1.7-2.7) ^c	1.8 (1.4-2.3) ^c	1.7 (1.1-2.6) ^c	1.9 (0.9-3.9)	2.1 (1.6-2.8) ^c	2.5 (1.5-4.1) ^c	1.2 (0.7-2.0)	1.7 (0.9-3.3)	2.3 (1.8-3.1) ^c	1.4 (0.8-2.7)

Abbreviation: OR, odds ratio.

^a Each mental disorder was estimated as a predictor of the physical condition onset in a separate discrete time survival model controlling for age cohorts, sex, person-years, country, smoking (current, ever, or never), and respondent's educational level.

^b Respondent reported any of the following: chronic back or neck pain, frequent or severe headaches, and other chronic pain condition.

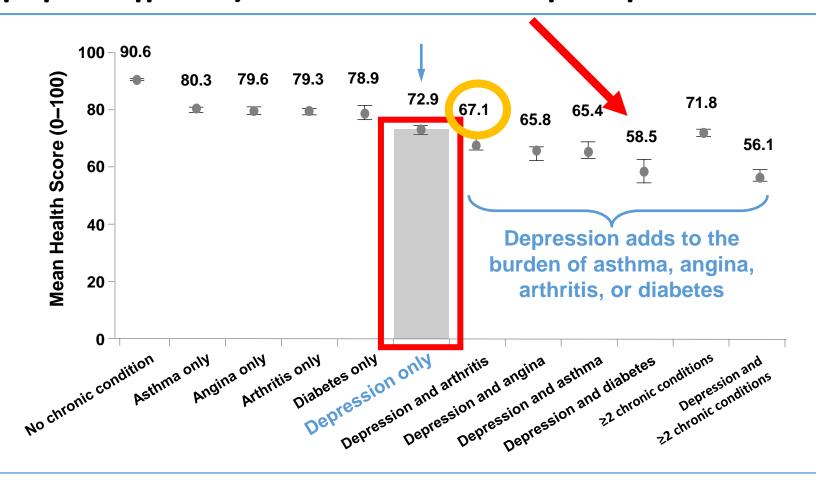
c Significant at P < .05, 2-sided test.</p>

From: Association of Mental Disorders With Subsequent Chronic Physical Conditions: World Mental Health Surveys From 17 Countries

JAMA Psychiatry. Published online December 23, 2015.1-9 doi:10.1001/jamapsychiatry.2015.2688

Table 2. Bivariate Associations B	etween DSM-IV Me	ntal Disorders and	the Subsequent C	nset or Diagnosis	of Chronic Physic	al Conditions				
	Chronic Physical	Condition, OR (95%	5 CI)							
Mental Disorder*	Arthritis	Any Chronic Pain ^b	Heart Disease	Stroke	Hypertersion	Diabetes Mellitus	Asthma	Chronic Lung Disease	Peptic Ulcer	Cancer
Mood disorder										
Major depressive episode/dysthymia	1.6 (1.5·1.8) ^c	1.7 (1.6-1.8) ^c	1.5 (1.3·1.8) ^c	1.6 (1.3-2.1) ^c	1.4 (1.2-1.5) ^c	1.4 (1.2-1.6) ^c	1.5 (1.3-1.8) ^c	2.1 (1.6-2.8) ^c	1.7 (1.5-1.9) ^c	1.2 (1.0-1.5) ^c

Η κατάθλιψη επηρεάζει συνολικά την υγεία των ασθενών



Depression is associated with poorer overall health scores than arthritis or diabetes and significantly adds to the burden of other chronic conditions

Adapted from Moussavi S, et al. Lancet. 2007;370:851-8.

Η πορεία της κατάθλιψης στο χρόνο...

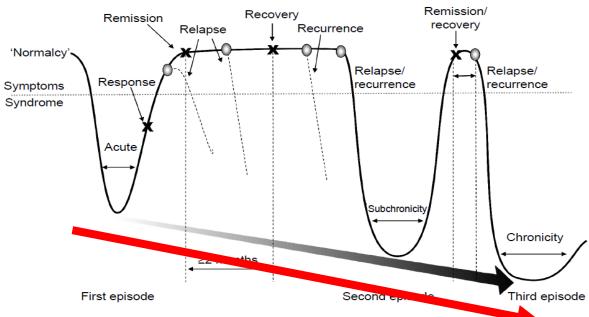


Figure 1 Schematic representation of major depression.

Notes: Response to treatment occurs when there is a clinically meaningful degree of symptom reduction, typically defined as ≥50% reduction in pretreatment symptom severity. Remission occurs when the symptoms of the MDE are absent or close to it. Without validated biomarkers, recovery may not be clinically distinguishable from remission, but is implied after an extended asymptomatic period (≥2 months), following which the likelihood of an MDE is reduced. A relapse is defined as the return of the initial MDE following remission, while recurrence is defined as the development of a new MDE following the onset of recovery. Relapses or recurring MDEs of increasing severity and longer duration, shorter remission periods, and reduced therapeutic response over time contribute to the progression and chronicity of major depression. Adapted from Journal of Clinical Psychiatry. 1991, 52, Long-term treatment of depression. Kupfer DJ. 28–34.²¹ Adapted © from Sibille E, French B. Biological substrates underpinning diagnosis of major depression. International Journal of Neuropsychopharmacolgy. 2013;16(8):1893–1909 by permission of Oxford University Press.²²

Abbreviation: MDE, major depressive episode.

Αποτελεσματικότητα και αποδοχή θεραπείας από ασθενείς

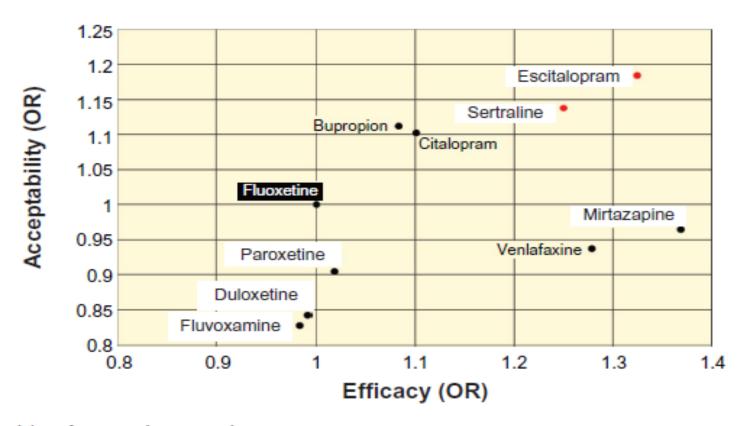
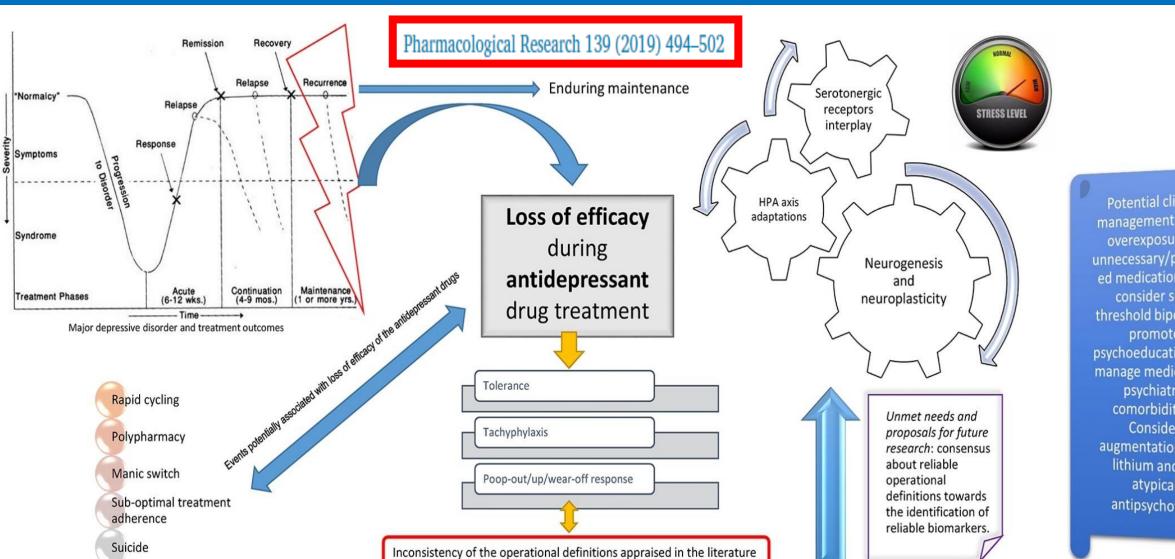


Figure 5 Efficacy and patient acceptability of new antidepressant drugs.

Notes: The odds ratios (OR) of acceptability and efficacy were based on a value of 1 for fluoxetine. Acceptability of escitalopram was highest among the new antidepressant drugs examined. Copyright © 2009, The Family Physician's Inquiries Network (FPIN). Adapted with permission from Patrick G, Combs G, Gavagan T. Initiating antidepressant therapy? Try these 2 drugs first. J Fam Pract. 2009;58(7):365–369.⁵²

Abbreviation: OR, odds ratio.

Απώλεια αποτελεσματικότητας αντικαταθλιπτικών



Potential clinical overexposure to unnecessary/protract ed medications and consider subthreshold bipolarity; promote psychoeducation and manage medical and psychiatric comorbidities. Consider augmentation with lithium and/or atypical antipsychotics.

RHEUMATOLOGY

Original article

The relationship between depression and biologic treatment response in rheumatoid arthritis: An analysis of the British Society for Rheumatology Biologics Register

Faith Matcham¹, Rebecca Davies^{2,3}, Matthew Hotopf^{1,4}, Kimme L. Hyrich^{2,3}, Sam Norton^{5,6}, Sophia Steer⁶ and James Galloway⁶

Results. Depression symptoms at biologic treatment initiation were associated with 20-40% reduced odds of achieving a good treatment response at 1 year. Depressive symptoms at baseline also associated with reduced improvement in disease activity over the course of follow-up. Patients with a history of depression or reporting symptoms of depression according to the EuroQol five-dimension scale showed reduced improvement in tender and swollen joints, patient global assessment and ESR over 1-year follow-up. Patients with depression symptoms according to the 36-item Short Form showed reduced improvement in tender and swollen joints, but not ESR or patient global assessment.

Conclusion. Experiencing symptoms of depression at the start of biologics treatment may reduce the odds of achieving a good treatment response, and reduce improvement in disease activity over time. Depression should be managed as part of routine clinical care to optimize treatment outcomes.



Anti-cytokine agents for anhedonia: targeting inflammation and the immune system to treat dimensional disturbances in depression

Yena Lee, Mehala Subramaniapillai, Elisa Brietzke, Rodrigo B. Mansur, Roger C. Ho, Samantha J. Yim and Roger S. McIntyre

Correspondence to: Roger S. McIntyre

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Approximately 15–22% of individuals with chronic inflammatory conditions (e.g. rheumatoid arthritis, systemic lupus erythematosus) present with clinically significant depressive symptoms. 19,20

engagement.^{97–100} In contrast, preliminary evidence suggests that biologics (e.g. monoclonal antibodies) that specifically target individual cytokines (e.g. TNF-alpha) are effective in reducing depressive symptoms without off-tar-

get effects. For example, a recent meta-analysis (n = 2370) of seven randomized, controlled trials of anticytokine agents (e.g. adalimumab, etanercept, tocilizumab, infliximab) in chronic inflammatory conditions (e.g. rheumatoid arthritis) reported significant antidepressant efficacy of moderate effect size [standardized mean

difference (SMD) = 0.40, 95% confidence interval (CI) = 0.22, 0.59].¹⁰⁰



Anti-cytokine agents for anhedonia: targeting inflammation and the immune system to treat dimensional disturbances in depression

Ther Adv Psychopharmacol 2018, Vol. 8(12) 337–348

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Yena Lee, Mehala Subramaniapillai, Elisa Brietzke, Rodrigo B. Mansur, Roger C. Ho, Samantha J. Yim and Roger S. McIntyre

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Similarly, individuals with mood disorders are more likely to have or develop metabolic and inflammatory comorbidities (e.g. diabetes mellitus, metabolic syndrome, central obesity, hypertension, cardiovascular disease, autoimmune disorders) when compared with the general population.^{21–25} Diabetes mellitus and mood disorders are bidirectionally associated with a synergy index of 2.2.²⁶ Populations with an immune-mediated disease (e.g. inflammatory bowel disease, multiple sclerosis, rheumatoid arthritis) also have a higher incidence of major depressive, anxiety, and bipolar disorders.²⁵ Chronic, aberrant activation of the

clinical trial. 107,108 Infliximab is a chimeric monoclonal antibody that targets TNF-alpha, is administered intravenously, and is approved by the FDA and Health Canada for the treatment of several rheumatic disorders (e.g. rheumatoid arthritis, Crohn's disease, ankylosing spondylitis, psoriatic arthritis, and ulcerative colitis). 109 In a randomized, double-blinded, placebo-controlled trial of infliximab in depressed subjects meeting diagnostic criteria for a current MDE as part of treatment-resistant MDD (n = 51) or bipolar disorder (n = 9). Raison and colleagues reported

that infliximab significantly improved depressive symptoms in subjects with baseline inflammatory activation (i.e. hs-CRP levels of >5 mg/l), but not in subjects without baseline inflammatory activation (i.e. hs-CRP ≤ 5 mg/l); in fact, subjects with-

out baseline inflammatory activation were more likely to benefit from placebo than active treatment.¹⁰⁷ A case report of antidepressant efficacy

Depression Is Associated with an Increased Risk of Psoriatic Arthritis among Patients with Psoriasis: A Population-Based Study



Ryan T. Lewinson^{1,2}, Isabelle A. Vallerand^{1,3}, Mark W. Lowerison³, Laurie M. Parsons⁴, Alexandra D. Frolkis^{1,3}, Gilaad G. Kaplan^{3,5}, Andrew G.M. Bulloch^{3,6,7}, Mark G. Swain⁵, Scott B. Patten^{3,6} and Cheryl Barnabe^{3,8}

The factors that contribute to the development of psoriatic arthritis (PsA) among patients with psoriasis are not well known; however, systemic inflammation is believed to be important. On the basis of recent laboratory work demonstrating that major depressive disorder (MDD) is associated with increased systemic inflammation, we hypothesized that patients with psoriasis who develop MDD are at increased risk of subsequently developing PsA. We utilized The Health Improvement Network, a primary care medical records database, to identify 73,447 individuals with psoriasis. Patients were followed up to 25 years until the development of the primary outcome of PsA or the censor date. The exposure of interest was the development of MDD. Cox proportional-hazards models showed that patients with psoriasis who developed MDD were at significantly increased risk of subsequently developing PsA compared with patients who did not develop MDD, even after accounting for numerous covariates (hazard ratio 1.37, 95% confidence interval 1.05–1.80, P = 0.021). This result was maintained through numerous sensitivity analyses. These data support the hypothesis that MDD increases the risk of developing PsA among patients with psoriasis, suggesting a need for heightened prevention and management of MDD in patients with psoriasis.



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The psychosocial burden of psoriatic arthritis



M. Elaine Husni, MD, MPHa,*, Joseph F. Merola, MD, MMScb, Sara Davin, PsyD, MPHa

b Brigham and Women's Hospital and Harvard Medical School, Boston, MA

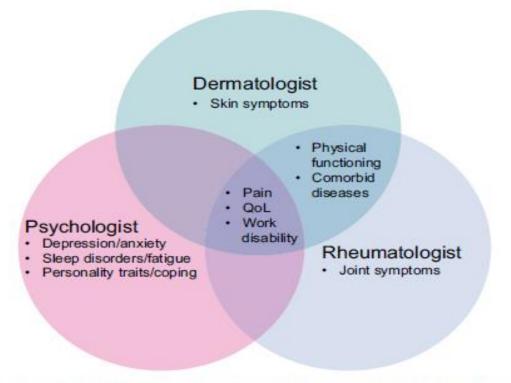


Fig. Integrated approach to treatment of patients with psoriatic arthritis (PsA) and its psychosocial burden.

^a Cleveland Clinic, Main Campus, 9500 Euclid Ave, Cleveland, OH 44195



Ευχαριστώ για το χρόνο και την προσοχή σας!

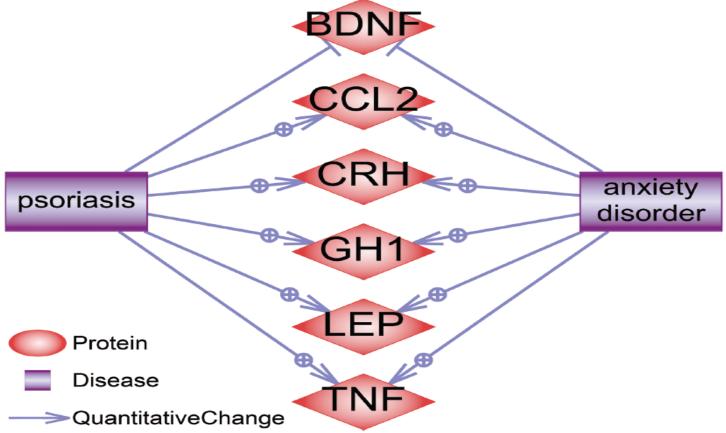


Figure 1 | Proteins with altered expression linked with both psoriasis and anxiety disorders.

Table 1 | Proteins and their links to psoriasis and anxiety disorder in alphabetical order. Functions are listed according to NCBI (https://www.ncbi.nlm.nih.gov/gene).

Gene, description	Link to psoriasis	Link to anxiety disorder
BDNF (brain-derived neurotrophic factor) responsible for growth and homeostasis of brain neurons	Lowered in patients with psoriasis, depression (21), chronic stress (22)	Lowered in patients with anxiety disorders (23–26)
CCL2 (chemokine (C-C motif) ligand 2) activates chemotaxis in monocytes and basophils	Significant increase in serum of patients with psoriasis (27, 28)	Increased in patients with anxiety disorder (29)
GH1 (growth hormone) required for control of body height	Increased in patients with skin diseases, including psoriasis (30)	Increased in patients with stress and anxiety disorder (31)
CRH (corticotropin-releasing hormone) is synthesized in response to stress and stimulates release of adrenocorticotropin	Significant increase in serum of patients with psoriasis (32)	Increased in patients with anxiety disorder (31, 33, 34)
LEP (leptin) is secreted by adipocytes, regulates fat and energy metabolism, as well as some	Increased in patients with psoriasis (35–42)	Increased in patients with anxiety disorder (43)

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Psychodermatology: a molecular link between psoriasis and anxiety disorder

Eugene Klimov^{1,2,3™}, Artemii Tretiakov¹, Olga Rudko¹, Anna Soboleva⁴, Ivan Danilin⁵, Irina Korsunskaya⁴, Vladimir Sobolev^{2,4,6}

Abstract

This article describes premises for the development of psychodermatology. An analysis of research literature and data is presented based on the example of psoriasis and anxiety disorder. Protein molecules with altered concentrations in patients with psoriasis and anxiety disorder compared to controls are identified (chemokine [C-C motif] ligand 2, corticotropin-release hormone, growth hormone 1, leptin, and tumor necrosis factor with increased concentration and brain-derived neurotrophic factor with decreased concentration). All molecules are secretory peptides. In the future, the information obtained may make it possible to pursue an in-depth study of the molecular mechanisms underlying psychodermatology.

Keywords: psychodermatology, psoriasis, anxiety disorder, signaling pathways, peptides

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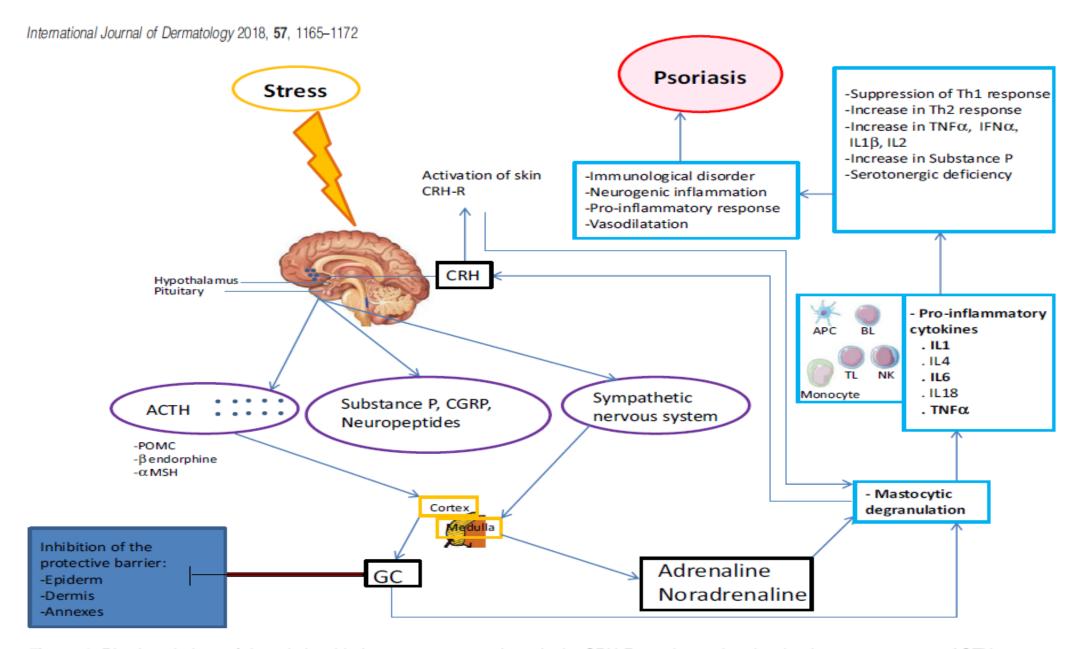


Figure 1 Physiopathology of the relationship between stress and psoriasis. CRH-R, corticotropin-releasing hormone receptor; ACTH, adrenocorticotropic hormone; POMC, proopiomelanocortin; α MSH, α Melanocyte stimulating hormone; GC, Glucocorticoid; CGRP, Calcitonine gene-related peptide