



- Author of urticaria and angioedema practice parameters
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- AAAAI BOD

Internal Medicine





- Discuss similarities between US and European chronic urticaria/angioedema guidelines (The Good)
- Describe differences between the two guidelines (The Bad)
- Define controversial areas that require further investigation between the two guidelines (The Ugly)

Internal Medicine



Cincinnati

Category and Strength of Evidence

Subscript T, et al. Alreg. 2014;9(7):186-47

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Internal Medicine

 The diagnosis and management of acute and chronic urticaria: 2014 update

Grade system

Learning Materials

 The EAACI/GA(2) EN/EDF/WAO Guideline for the definition, classification, diagnosis, and management ofurticaria: the 2013 revision and update.



companson between orticana duidennes						
	EAACI	Practice Parameters JTFPP				
Terminology	Intermittent, spontaneous, Inducible	Acute, physical				
Objective assessment and QOL	UAS-7 CU-Q2oL	Objective assessment recommended; QC instrument not discussed				
ASST/ASPT or serologic assays	Recommended	Not recommended				
First generation antihistamines	Notrecommended	Recommended second and third steps				
LTRA	Recommended third step	Recommended second step				
Anti-H2 antihistamines	Notrecommended	Recommended second step				
Alternative Therapies	Omalizumab and Ciclosporin	Hydroxychloroquine, Sulfasalazine, Dapsone, Colchicine, Omalizumab, Oxfossorine				
Pseudoallergen-free diet	Recommended ^{1,2}	Not recommended ¹				
ASST	Recommended	Not recommended				
Evaluation and Treatment for H. pylori infection	Recommended	Not recommended				
Systemic corticosteroids for exacerbations	Up to 10 days at all times	1-3 weeks at all times				
Other alternative the rapies	Low levels of evidence	Low levels of evidence				

- There are differences in terminology related to describing hives.
 The EAACI/WAO document uses the terms "intermittent" and
- Ine EVALU, WAQ accument uses the terms "intermittent" and "spontaneous"
 The EAAC/UWAQ uses the term "Inducible" to describe physical stimuli causing urticaria (i.e., cold, pressure, exercise, UV light, heat, vibration, water)
- causing urricaria (i.e., coid, pressure, exercise, uv light, neat, vibration, water) vs. – The JTF practice parameter uses the terms "continuous" and
- Ine JT: practice parameter uses the terms continuous and "intermittent" to describe the variable nature of hives.
 The JTF PP uses the term "physical" to describe hives caused by physical triggers

Internal Medicine









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onnective tissue of bsence of addition	ent 15: Serology to diagnose underlying autoimmune diseas disease) is not warranted in the initial evaluation of CU in the shall features suggestive of a concomitant autoimmune disease	ses (eg, he ase. (B)
ummary Stateme ith CU. (C) The cl	ent 16: Thyroid autoantibodies are frequently identified in plinical relevance of these tests for patients with CU has not	patients been
stablished.		
Should exte	nded diagnostic measures be per-	
formed in ch	ronic spontaneous urticaria?	





SST Shows Large Variation Of Positivity in Health Control Subjects					
Reference	CIU	Controls			
Mari ⁴	58%	45%			
fedeschi et al.º	-	0% (3 cases)			
Sabroe et al.º	44.51%	2.5%			
Asero et al. ⁷	-	0% (20 cases)			
Sabroe et al.*	34.61%	2.56%			
Suttman-Yassky et al.º	53.1%	40.5%			
Taskapan et al.ª	52.5%	55.55%			

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Medicine	C













Summary Statement 85: A number of alternative therapies have been studied for the treatment of CU; these therapies merit consideration for patients with refractory CU. (D)

Cincinnoti Internal Medicine Bernstein IA, et al. JACI 2014 May; 133(5):1270-7.

Summary Statement 86: Anti-inflammatory agents, including dapsone,	
sulfasalazine, hydroxychloroquine, and colchicine, have limited evidence for efficacy n patients with CU, and some require laboratory monitoring for adverse effects. (C)	
These agents are generally well tolerated, might be efficacious in properly selected batients, and can be considered for treatment of patients with antihistamine-	
refractory CU. (D)	
Summary Statement 87: Several immunosuppressant agents have been used in	
patients with antihistamine-refractory CU. Cyclosporine has been studied in several	
andomized controlled trials. Taken in the context of study limitations, potential	
narms, and cost, the quality of evidence supporting use of cyclosporine for	

harms, and cost, the quality of evidence supporting use of cyclosporine for refractory CUA is low. On the basis of current evidence, this leads to a weak recommendation for use of cyclosporine in patients with CUA refractory to conventional treatment. (A)

Internal Medicine	Bernstein JA, et. al. JACI 2014 May;133(5):1270-7.	Cincinnati

TABLE 12-1Eviden	te foe Therapies in Cl	wonic Urticaria		
Drug	Level of Evidence	Quality & Amount of Evidence	Potential for Serious Adverse Effects	Cost
HI antibiotamines	la la	High	Low	Low
IQ antibiotenines	b	Low	Low	Low
dovepin	b	Moderate	Low	Low
Systemic conticusteroids	N	Low	High	Low
Leukotriene modifiers	b	Moderate	Low	Modeute
dapsone	B)	Low	Modeute	Low*
sulfasalazine		Low	Moderate	Low*
hydroxychloroquine	lb	Low	Low	Low
colchicine		Low	Low	Low
Calcineurin inhibitors	b	Moderate	High	High*
mycophenolate	ъ	Low	Moderate	High*
omalizameb	b	Low	Modeute	High
NIG .	B.	Low	Moderate	High*
Beta-agonists	Ib (no-effect) II (effect)	Moderate Low	Modeute	Low
NSAIDs		Low	Moderate	Low
Nettylcarthines	b	Moderate	Moderate	Low*
Photothecapy	b	Moderate	Moderate	High
Androgens	b	Low	Modeute	Modeone*
Nethotresate		Low	High	Low*
Anticoxyclants		Low	High	Low*

Lab	oratory Monitoring	of Alternative
Ager	nts for Refractory Ch	nronic Urticaria
Alternative Agent	Baseline Labs	Monitoring on Therapy
Iontelukast	none	none
ydroxychloroquine	G6PD	none
	LET BUIN/Cr	
apsone	G6PD. CBC. LFT	Monthly: CBC, LFT x 6 months then periodically
ulfacalazine	CBC LET BUN/Cr	Monthly: CBC LET BUIN/Cry 3 months then every 3
		months
fethotrexate	CBC, LFT, BUN/Cr, CKR	Every 2-4 weeks:
		COC 157 DUDUC
olchicine	LET BUN/Cr	1000
vclosporine	CBC, LFT, BUN/Cr, K, lipids	Every 2-4 weeks: BUN/Cr. K. Cyclosporine level
		Penodic: spids, glucose
acronimus	CBC, LFT, BUN/Cr, K, lipids	Same as cyclosponne except check tacrolimus levels
tycophenolate	CBC, LFT, BUN/Cr	1 st month: weekly CBC
		The COC
		Then CBC every 2 weeks for 2-3 monors then monori
demusilem	none	none
nmune globulin	BUN/Cr, CBC	Periodic monitoring of BUN/Cr, CBC
Internal		INVERSITY OF
Medicine	Bernstein JA, et.al. JACI 2014	May:133(5):1270-7. Cincinno

ap 1.3 festaples per påbellens	No. of patients with complete control but, of patients taking the methodolog at any abits visit. No in = \$30
c.prs III-assignment + 2wl.pst III-estagenist	10(047, 63%)
r pra HI anagonio v H2 antagoniat	4 (307, 3.2%)
d per HD antegenite + HO antegenite	26 (1988, 13.4%)
84	16 (127, 13,1%)
i gen HI amagmini + LTRA	1(72,14%)
ul gen HE antagoniai o 3,78,5	16 (72, 22,291
r pin H1-assagnist + 2nl pin H1-assagnist - LTRA	1 (80, 12%)
t gen HI untegenist + Amopie	3 (51, 5.9%)
d po ID adaptat - dataju	3 (73, 43%)
t pra 111 - mapuist + 2nd pm 112 astagenist = decapie	3 (20, 425)
t pra H1 estagonie + 2nl pri H1 estagonie + dropie = LTRA	
ng-5 desember per publicless."	No. of patients with complete control inc. of patients taking the configuration of any older. Acid, Tol (e \$71)
vitatione (33 (776, 18,5%)
colormation 200 per a dat	10.00.35.791
whom which appendix 200 and taking a sher	21.09. MARKY
Enduire NE or take a der	4126.2295
anne 15 35 eg ader	5 (25, 25, 78)
dolarismo 0.6 mg tamor a diar	16 (90. 17.8%)
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uce Calcalan			43 (2473)		99.00-01
Un (), moduaro					
40 s			NA		
And in of CU below the 1st offers with	NA	NA	NA	NA	NA
involved demonstration	16.5 (0.1.29.7)	16.9 18.2 34 71	351194.71		- NA
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	Cyclosporine	HCG	Sufferentiet Inco	Dapsona	Pradnisona	Cokhicine
les: Mak				3.412.2.541		
lair Carrien	59 [2.1-16.7]					21.1 16.3-71.2
Age (y. zaallasi)						
<03 y ≥03 y	1.3 [12-1.4]			NA	12 [1-1.5]	
Datation of CU before the first click visit >4 we (median)		NA	ea lo a real			
piedes lading >48 h	11.5 [3:6-37]					
Accordant domanographia						
Associated physical latic artas?		03 (0.16-0.49)				326 (127-832
Presence of antidisyroperoxidase and/or antimicrosomal antibodas			0.01 (0.002-0.04)			0.1 (0.1-0.4]
buloninance of neutrophile on histology				5.4 [3.2.4.1]		

Limitations Retrospective ocontrol group or placebo to compare various treatment combinations May not be generalizable to other populations Nay analysis of intra-class dosing iterations Weighting the effect of one drug in combination with another not possible

Omalizumab (Xolair™)

US Guidelines Summary Statement BB: In contrast to other alternative agents for refractory CU, the therapender, utility of omailumab has been supported by findings from large double double control of the support of the support of the support of the double of the support of the antiport of the support of the support of the support of the antiport of the support of the support of the support of which the pattern's substant of the decision to proceed is consistent with the pattern's substant professioner. (A)

European Guidelines

Is omalizumab useful patients unresponsive to histamines as third-line tr	in the treatment of high doses of H1-anti- eatment?	Is ciclosporin A useful as add on treatment in patients unresponsive to high doses of H1- antihistamines as third-line treatment?		
We recommend a trial of omail modern second generation HT-s the algorithm of treatment of u tion/high level of evidencel.	surveb as add on therapy to adhiptemines as third-line in rticaria (strong recommenda-	We recommend a trial of occuperin A as add on therapy to modern second generation Hit-exhibitratives as third-line in the agorithm of treatment of urbiania laterag recommenda- tion/high lavel of evidence).		
nternal	Bernstein JA, et al. JACI 20 Zobarbier T at al. Alleren	14 May;113(5):1270-7. Instation of Classific Control of Classific Contro		





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