

Corticofobia Definizione

Apprensione, ansia, paura, timore, inquietudine, allarme, tensione, dubbio, scrupolo, tensione

JAMA Dermatology | Review

Topical Corticosteroid Phobia in Atopic Dermatitis
A Systematic Review 2017

Alvin W. Li, BS; Emily S. Yin, BS; Richard J. Antaya, MD

Originally used to describe an irrational fear of corticosteroids, the definition of TCS phobia has since been broadened to include the vague negative feelings and beliefs about TCSs held by patients. Some authors have suggested that TCS phobia is a misnomer given the potential for long-term adverse effects from high-dose TCS use and that this phenomenon is likely to have been borne from misinformation as opposed to irrationality. 10,11 It would follow, then, that

Evaluation of the influence of family and friends, and the Internet on patient perceptions of long-term topical corticosteroid use

Saxon D Smith MBChB MHL FACD, Lisa L Farrugia BS, Victoria Harris MBBS LLB, Andrew Lee MBBS MMed, Alex Blaszczynski PhD & Gayle Fischer MBBS (Hons) MD FACD

Factors contributing to po





WILEY Allergy

Anna Sokolova1 and Saxon D Smith2

JAMA Dermatology | Review

Topical Corticosteroid Phobia in Atopic Dermatitis

A Systematic Review

Alvin W. Li, BS; Emily S. Yin, BS; Richard J. Antaya, MD

ORIGINAL ARTICLE

RESEARCH

ORIGINAL ARTICLE

Experimental Allergy and Immunolog

Topical corticosteroid phobia in atopic dermatitis:

International feasibility study of the TOPICOP score

J.-F. Stalder¹ | H. Aubert¹ | E. Anthoine² | M. Futamura⁴ | D. Marcoux⁵

Evaluation of the influence of pharmacists and GPs on patient perceptions of long-term topical corticosteroid use

lournal of

Dermatological Treatment

Lisa L. Farrugia⁸ (D), Andrew Lee^{a,b} (D), Gayle Fischer^{a,b,c} (D), Alex Blaszczynski^d (D), Stephen R. Carter^e (D) and Saxon D. Smith^{a,b,f} (D)

Corticofobia
Letteratura 2017-2018

Fenomeno diffuso-interculturale

El Hachem et al. Italian Journal of Pediatris (2017) 43:22
DOI 10.1186/s13052-017-4330-7

Italian Journal of Pediatrics

Topical corticosteroid phobia in parents of pediatric patients with atopic dermatitis: a multicentre survey

Maya El Hachem¹, Francesco Gesualdo⁷ O, Gampaolo Ricci³, Andrea Diodajuti¹, Loredana Giraldi¹,
Orsola Ametrano⁴, Corrado Occella⁵, Anna Belloni Fortina⁶, Mirella Milioto⁷, Fabio Arcangeli⁸, Oriana Simonetti⁹,
Simona Giancristoforo¹, Elisabetta Calamelli³, Carlo Mazzatenta¹⁰ and Iria Nen¹¹

Topical corticosteroid concerns from the clinicians' perspective

Simon M. Mueller, Dominique Tomaschett, Deborah R. Vogt, Peter Itin, Antonio Cozzio & Christian Surber



2005

200

Adherence to Medication

Adherence in dermatology

Journal of Dermatological Treatment

2016

Lars Osterberg, M.D., and Terrence Blaschke, M.D.

Christine S. Ahn, Leonora Culp, William W. Huang, Scott A. Davis & Steven R Feldman

Drugs don't work in patients who don't take them.

-C. Everett Koop, M.D.

L'aderenza è la misura in cui il comportamento di un paziente si attiene a quanto concordato con il suo medico (medicine, dieta, stile di vita). E' centrata sui sintomi e sul vissuto individuale del paziente e comprende anche il concetto di persistenza (continuità e soddisfazione d'uso).

L'aderenza implica un «prendere insieme le decisioni» (medico-paziente), presuppone che il paziente sia messo in condizioni di capire le indicazioni fornite e che si instauri un rapporto di fiducia medico-paziente.

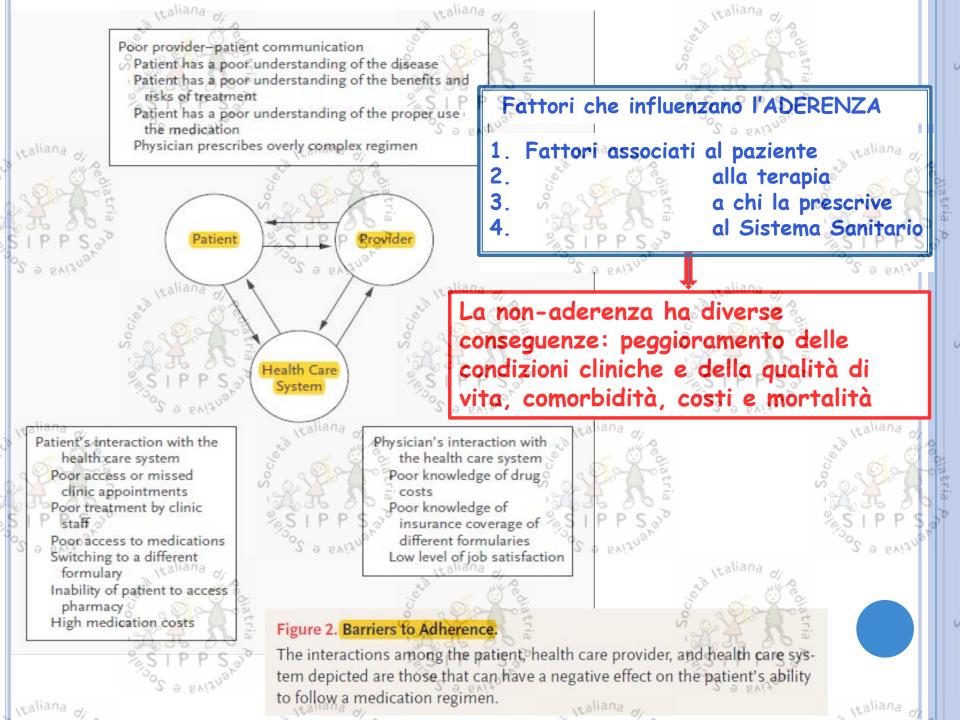
Nel 2003, il WHO stimava una media di aderenza del 50% nelle malattie croniche ed una media ancora più bassa se si utilizzavano trattamenti topici, che richiedono più tempo e possono essere più confondenti.

taliana .

. raliana

, aliana

taliana



JAMA Dermatology | Review

Topical Corticosteroid Phobia in Atopic Dermatitis

A Systematic Review

Alvin W. Li, BS; Emily S. Yin, BS; Richard J. Antaya, MD

2017

Corticofobia Prevalenza

multinational sample surveyed by ana Zuberbier et al¹⁷ consisted of 8 countries (United States, France, Germany, Spain, United Kingdom, the Netherlands, Mexico, and Poland).

Figure. Prevalence of Topical Corticosteroid (TCS) Phobia

S 9 BVIJ	Source	Prevalence (95% CI)	2 9 EVIJUS		or a EVija
	Fischer, 12 1996 and of	40.0 (31.2-49.6) Valiana di	─	taliana o.	
	Charman et al, 9 2000	72.5 (66.3-78.7)		8 H	
	Fukaya, 13 2000	83.7 (81.9-85.5)		S 50 5	
	Ohya et al, ¹⁴ 2001	77.0 (71.3-82.8)		1000	
	Barbeau and Lalonde, 15 2006	71.0 (60.8-81.6)		() L () L	
line	Hon et al, 16 2006 A.	66.7 (60.1-74.4) S a PAIR	lia a	Periya BVija	Vince
taliana	Zuberbier et al, ¹⁷ 2006	49.0 (46.8-51.2)	xa Italiana		taliana o
65	Zuberbier et al, 18 2008	43.0 (38.3-48.0)	S HOLES		
	Aubert-Wastiaux et al,8 2011	80.7 (75.4-86.1)	n of the	⊢	S S S
6 35 0	Kojima et al, ¹⁹ 2013	38,3 (33.7-42.9)			34, 35, 0
0	Hon et al, 10 2015	43.2 (37.7-53.0)	62 1 - 34°		(%) I F F
2 9 BVis	Huynh et al, ²⁰ 2015	36.1 (27.4-45.4)	2 SWJ	lian	2 9 BVito
	Lee et al, 21 2015	67.5 (59.3-75.6) Callana di		xa tallana o	
	Gonzales et al, 22 2017	37.0 (30.0-44.6)	├	0000	
	Gustavsen and Gjersvik, 11 2016	64.0 (52.9-74.4)	<u> </u>	ST.	
	Kotrulja et al, ²³ 2016	21.0 (15.8-26.2)	-	SIPPS	
	S 9 EVISOS,	S 0 EVITAS, 50		60 S 80 80	100
taliana (o/;	aliana o,	Prevalence (95	% CI)	taliana o

JAMA Dermatology | Review

Topical Corticosteroid Phobia in Atopic Dermatitis A Systematic Review 2017 Cor

Alvin W. Li, BS; Emily S. Yin, BS; Richard J. Antaya, MD

Corticofobia Timori

Table 2. Concerns Related to Topical Corticosteroid Phobia

Sample iana		Concern Ranking = 2	Vizna	1 6 2°	SVIJA	6 2°
Source	Size, No.	First	Second & tallar	Third	Fourth 20 tallan	Fifth
Charman et al, ⁹ 2000 ^a	200	Skin thinning: 34.5% (95% Cl, 27.9%-41.1%)	Nonspecific long-term effects: 24.0% (95% C 18.1%-29.9%)	Growth and development: 9.5% (95% CI, 5.4%-13.6%)	Aging/wrinkling: 3,5% (95% Cl. 1.0%-6.0%)	Changes in skin color: 3.0% (95% CI, 0.6%-5.4%)
Zuberbier et al, ¹⁷ 2006	2002	Skin thinning: 28.0% (95% CI, 26.0%-30.0%)	Treatment resistance: 18.0% (95% CL - 16.3%-19.7%)	Skin bleaching: 17.0% (95% CI, 15.4%-18.6%)	Burning sensation: 15.0% (95% CI, 13.4%-16.6%)	Rebound symptoms: 15.0% (95% CI, 13.4%-16.6%)
Hon et al, ¹⁶ 2006 ^a	165	Growth and development: 30,3% (95% CI, 23.3%-37.3%)	Skin thinning: 27.3% (95% Cl, 20.5%-34.1%)	Miscellaneous ^b : 12.7% (95% CI, 7.6%-17.8%)	Other skin adverse effects besides thinning ^c : 10.3% (95% CI. 5.7%-14.9%)	Affects liver/kidney function: 7.7% (95% () 3.6%-11.8%)
Hon et al, ¹⁰ 2015 ^a	161	Skin thinning: 55.3% (95% CI, 47.3%-62.7%)	Other skin adverse effects ^c : 16.1% (95% CI, 10.3%-21.7%)	Growth and development (16.1%, 95% CI 10.3%-21.7%)	"Don't know:" 13.7% (05% CL, 8.4%, 10.0%)	Bone problems: 13.0% (95% CI, 7.8%-18.2%)

^a Percentages do not sum to 100% since the study population reported more than 5 concerns.

taliana o

system, circulatory system, musculoskeletal system, health in general, oncogenesis, and obesity.

taliana

^c Including pigmentation, thickening, atrophy, irritation, and texture.

taliana

^b Including effects on sexual characteristics, endocrine system, respiratory



Corticofobia Topic

RESEARCH | P P S

Topical corticosteroid phobia in parents of pediatric patients with atopic dermatitis: a multicentre survey

CrossMark

Maya El Hachem¹, Francesco Gesualdo^{2*}, Giampaolo Ricci³, Andrea Diociaiuti¹, Loredana Giraldi¹, Orsola Ametrano⁴, Corrado Occella⁵, Anna Belloni Fortina⁶, Mirella Milioto⁷, Fabio Arcangeli⁸, Oriana Simonetti Simona Giancristoforo¹, Elisabetta Calamelli³, Carlo Mazzatenta¹⁰ and Iria Neri¹¹

Response to questions on TCS specific fears and on behaviors regarding TCS use

Fears and beliefs Sono efficaci	Category S I P P	l completely S disagree	I don't really agree S	hagree to a certain extent	I completely agree
TCS are effective over short time period	EZ 9 BVIJ	12 (4%)	25 (9%)	84 (30%)	155 (56%)
TCS are effective over a long time period	Е	81 (30%) talia	58 (21%)	100 (37%)	23 (12%) o/
Tes become inefficient over time	E	31 (12%)	39 (14%)	110 (41%)	89 (33%)
TCS calm-symptoms but don't treat the cause PPS	E	24 (996) S I P	25(9%)	67 (24%)	\$ \$59 (\$8%) S
STES make eczema worse	E	152 (57%)°S = 1	58 (22%)	43 (16%)	15 (6%) NIZUST
TCS stop the eczema from coming up to the	E Italiana	33 (12%)	37 (14%)	72 (27%)	129 (48%)
curface of the cling	· · · · · · · · · · · · · · · · · · ·	Ca.	000	O O O O	5. (5)
TCS treatment takes time and effort	SES	89(32%)	74 (27%) 5	73 (27%) 5.	38 (14%)

taliana o.	Category	/ I completely disagree	l don't really agree	l agree to a certain extent	I completely agree
Passano nel sangue	S	66 (25%)	40 (15%)	92 (35%)	67 (25%)
TCS can lead to infections P S a	SSIPP	S 147 (56%)	55 (21%) S	P 40 (75%)	22 (8%)
TCS make you fat	S S SVI	120 (44%) lian.	40 (15%)	69 (25%)	42 (15%)
Danneggiano la pelle	S	59.(22%)	44 (16%)	104 (38%) ై	65 (24%)
TCS will affect my future health	S	93 (35%)	51 (19%)	90 (33%) 8	35 (13%) 🚊
There is a dependency risk	S	90 (33%)	S35,(13%)	84 (31%)	5 62 (23%)
SI can become resistant to TCS	S	42 (16%) a e		107 (40%)	S =72 (27%)
TCS can lead to asthma	zastaliana	181 (72%)	36 (14%) 23 1t	29 (11%)	7 (3%)
Paura dei TCS in generale	S So	43 (16%)	43 (16%)	102 (38%)	82 (30%)
TCS are more dangerous than CS in tablet form	SIPP S P PAIN	S 2 177 (66%)	37 (14%) 5	P35 (13%)	18 (7%)
With afraid of applying too much cream waliana	S	76 (29%) Lalian.	0,114 (44%)	58 (22%)	talj90(4%).
I'm afraid of using the cream for too long	S	49 (19%)	104 (40%)	77 (30%) 👸	28 (11%) %
I'm afraid of putting cream on certain zones like the eyelids; where the skin is thinner	S	47 (18%) — % S L P	70 (27%)	71 (27%)	73 (28%) = SIPPS
Sit's more dangerous to use TCS on children than englished on adults	S Italiana	42 (16%) a e	12272 (28%)	75 (29%) aliana di	S 72 (28%)
I am careful to rule the cream in well when I apply it	Sex S	11 (4%)	27 (10%)	71 (27%)	151 (58%)
Evito uso nelle mani	2	2 8 (30%)	46 (18%)	32 (12%)	102 (40%)
Ho bisogno di rassicurazioni	SIPP	S 344 (17%)	72 (27%) S	P6P(23%)	87 (33%)
E efficacy, 5 safety, Q quality of life, C compliance	2 9 EVI.	, talian		e kvija	Italiana di

Topical corticosteroid phobia in parents of pediatric patients with atopic dermatitis: a multicentre survey

TCS treatment helps me improve my quality of

Streatment is complicated

TCS increase my well-being

Ital J. Pediatrics 2017



2:	Category	l completely disagree	l don't really agree	l agree to a certain extent	l completely agree
tria	Q	157 (58%)	57 (21%)	38 (14%)	9 (7%)
0	Q	26 (9%) S	P 27 (10%)	122 (44%)	100 (36%)
	Q	36 (13%) °S	° 31 (11%)	1,15 (42%)	91 (33%)
39	• 70	23 (8%)	44 (16%)	120 (44%)	87 (32%)

I vantaggi superano gli svantag

Correlations among steroid fear, acceptability, usage frequency, quality of life and disease severity in childhood eczema

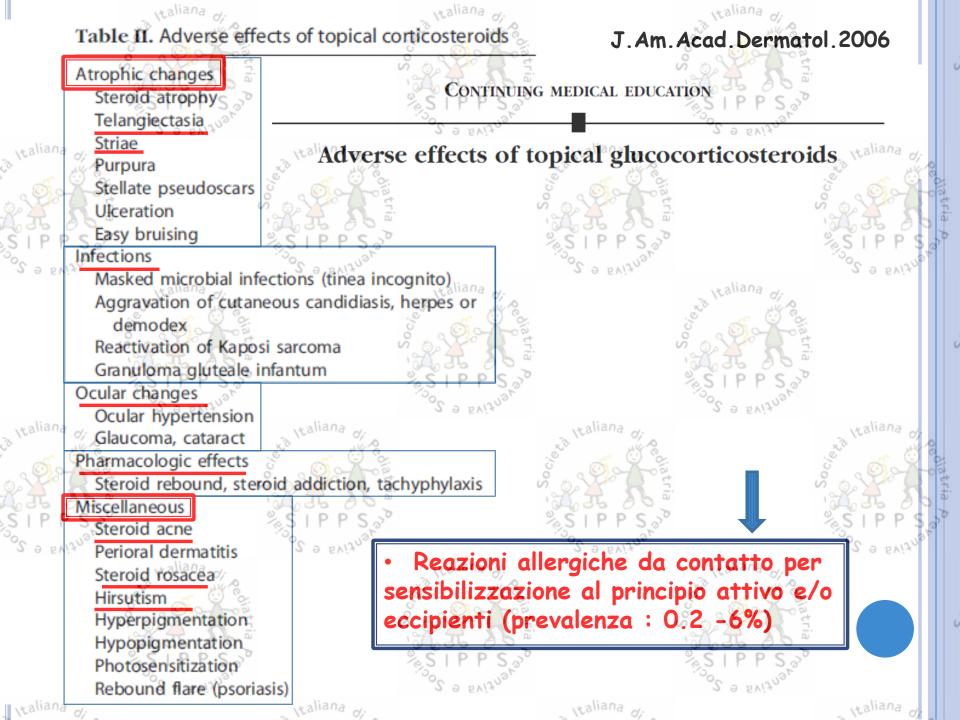
Kam Lun Hon¹, Yin Ching K. Tsang¹, Nga Hin Pong¹, David C. K. Luk², Vivian W. Lee³, Wing Man Woo⁴, Chak Yiu Justin Lam⁴, Yun Ting Eunice Yeung⁴, Yiu Shing Sunny Chau⁴, Ka Kam Kenneth Chui⁴, Ka Hin Gabriel Li⁴, and Ting Fan Leung¹ 2 9 BVIJA

Journal of aliana Dermatological Treatment

Table 4.	Adverse	effects	of	CS	use	of	most	concern	to	parents.
----------	---------	---------	----	----	-----	----	------	---------	----	----------

S 9 EVITURE E SO	Mild eczema $(n=50)$ (%)	Moderate/sever e eczema $(n = 11 \text{ l})$	p Value
Skin thinning	24 (48.0)	65 (58.6)	0.212
Other skin problems	5 (10.0)	21 (18.9)	0.155
Growth	7 (14.0)	19 (17.1)	0.619
Liver kidney	5 2 (4.0) 5	6 (5.4)	>0.999 ^a
mmune	1 (2.0)	1 (0.9)	0.526a
CS resistance	\$ 22(4.0)	3 (2.7)	0.646a
CS dependence	5 (10.0)	(6.3)	0.518 ^a
Body hair	2 (4.0)	4 (3.6) 8 (7.2) 17 (15.3)	$>0.999^{a}$
Eye problem	1 (2.0)	8 (7.2)	0.276 ^a
Bone problem	4 (8.0)	17 (15.3)	0.202
Miscellaneous	4 (8.0)	10 (9.0)	$>0.999^{a}$
Don't know	13 (26.0)	\$ 5 19 (8.1)5 5	0.002





Reazioni avverse sistemiche

Soppressione asse ipofisi-surrene (rarissima)

(Mooney 2015, Australasian consensus statement; Levin 2014, J. Dermatol. Treatment)

Corticosteroide dipendenza (rara in pediatria)

Rarissime in pediatria

- · Sindome di Cushing
- Ipertensione arteriosa
- Diabete mellito
- Osteoporosi

(Spada 2018, Australasian J. Dermatol.; Sidgiddi 2018, J. Clin Aesthet Dermatol; Hong 2011, Pediatr Dermatol.)

Si consiglia una valutazione clinica periodica solo se si usano steroidi potenti /molto e per lunga durata.

- · Raccomandazione B Evidenza III (reazioni topiche)
- Raccomandazione C Evidenza III (reazioni sistemiche)



Italiana

italiana ~

italiana

Italiana

JAMA Dermatology | Review

Corticofobia Fonti di influenza

Topical Corticosteroid Phobia in A Systematic Review

2017

Alvin W. Li, BS; Emily S. Yin, BS; Richard J. Antaya, MD

Table 3. Sources From Which Patients Receive Information About TCSs

S & EVIJUS,	Samplealian	Frequency Ranking of To	S Information Source	48 E 20	isna,	S & EVIS
Source	Size, No.	First &	Second ST	Third	Fourth 23	Fifth
Charman et al, ⁹ 2000 ^a	200 S I P	General practitioners: 33.0% (95% CI, 26.5%-39.5%)	Magazines/newspapers: 17.5% (95% Ct, 12.2%-22.8%)	Friends: 14.5% (95% CI, 9.6%-19.4%)	Family: 11,5% (95% CI, 7.1%-15.9%)	Pharmacist: 10.5% (95% CI, 6.3%-14.7%)
Hon et al, ¹⁶	165°S =	Doctors ^c ; 65.0% (95% Ci, 57.9%-72.1%)	Newspapers: 62.0% (95% CI, 54.7%-69.3%)	Friends/relatives: 57.0% (95% CI, valiana 49.6%-64.4%)	Television: 52.0% (95% Cl, 44.5%-59.5%)	Internet: 17.0% (95% CI, 11.4%-22.6%)
Lee et al, 21 2 2015b	126	Internet: 49.2% (95% CI, 40.5%-57.9%)	Television/broadcasting media: 45.2% (95% CI, 36.5%-53.9%)	Doctors/health care professionals ^c : 37.3% (95% CI, 28.9%-45.7%)	Magazines/newspapers: 34.1% (95% CI, 25.8%-42.4%)	NR S I P P
Gustavsen and Gjersvik, ¹¹ 2016 ^b	77 talia	Dermatologists: 70.0% (95% Cl _y 59.8%-80.2%)	General practitioners: 55.0% (95% CI, 43.9%-66.1%)	Package leaflets: 46.0% (95% CI, 34,9%-57.1%)	Pharmacies: 38.0% (95% CI, 27.2%-48.8%)	NR.

Abbreviations: NR, not recorded; TCS, topical corticosteroid.

^b Percentages do not sum to 100% since the study population was allowed to report more than 1 source of information.

Italiana

^a Percentages do not sum to 100% since the study population reported more

taliana

Evaluation of the influence of pharmacists and GPs on parient perceptions of long-term topical corticosteroid use

Corticofobia
Fonti di influenza

Italiana

Lisa L. Farrugia^a , Andrew Lee^{a,b} , Gayle Fischer^{a,b,c} , Alex Blaszczynski^d , Stephen R. Carter^e and Saxon D. Smith^{a,b,f}

JOURNAL OF DERMATOLOGICAL TREATMENT, 2017, VOL. 28, NO. 2, 112–118

Table 4. Messages received from GPs and pharmacists, with Wilcoxon signed-rank test results.

Question stem: "The following are some messages that people receive about using TCS for their [child's] inflamed skin. Please indicate how often these messages have been received by you from each of the sources

below. Please tick one circle for each statement from each source."

S & EVIT	2000	BVIJASK	GPs		*52	Ca BNISO	Pharma	cists	CEIVE C S.
Category (not indicated on survey)	Statement &	"Never" or "Rarely", n (%)	"Sometimes",	"Often" or "Always", n (%)	Missing,	"Never" or "Rarely", n (%)	"Sometimes",	"Often" or Missing "Always", n (%)	Respondents for both questions, p values
Benefits	Ha bisogno di CTS he	25 (13.8%)	44 (24.3%)	112 (61.9%) =	20	72 (50.7%)	28 (19.7%)	42 (29.6%) 59	$n = 139 \frac{p < 0.001*}{p}$
ıtalia <mark>na C</mark>	CTS migliora with TCS" "Using TCS is good for inflamed skin" ntinuare nel tempo	18 (9.8%) 24 (13.6%) 34 (19.1%)	32 (17,5%) 48 (27,1%) 35 (19,7%)	133 (72,7%) \$05 (593%) 109 (61.2%)	18 24 23	51 (35.7%) 53 (35.8%) 69 (47.6%)	19 (13.3%) 30 (20.3%) 20 (13.8%)	73 (51.0%) 58 65 (43.9%) 53 56 (38.6%) 56	n = 140 p < 0.001* n = 144 p < 0.001* n = 140 p < 0.001*
Q of	child] need[s] to continue using TCS whenever				Soc/e		Polati		
Harms	Causa atrofia Ty non-prescription creams/ontiments before resorting to the use of prescription TCS"	107 (60,5%) 112 (64,7%)	37 (20.9%) 35 (20.2%)	33 (18.6%) 26 (15.0%)	24 28	100 (60.6%) 99 (65.1%)	25 (15.2%) 31 (20.4%)	40 (24.2%) 36 22 (14.5%) 49	n = 160 p = 0.087 n = 145 p = 0.433
0 0 6414	"Try natural or complementary and alternative therapies before resorting to the use of TCS"	134 (80.2%)	21 (12.6%) 21	ian 12 (7.2%)	34	114 (76.5%)	19 (12.8%)	16 (10.7%) 52	n = 141 p = 0.039*
Applic	care pochissimo	38 (21.2%) 86 (49.4%)	42 (23.5%) 36 (20.7%)	99 (55.3%) 52 (29.9%)	22 27	48 (30.0%) 73 (46.8%)	18 (11.3%) 28 (17.9%)	94 (58,8%) 41 55 (35.3%) 45	n = 153 p = 0.185 n = 150 p = 0.072
	"TCS may make my [child's] immune system less effective"	147 (83.1%)	22 (12.4%)	8 (45%) E	24	132 (86.8%)	13 (8.6%)	7 (4.6%) 5 49 IPPS	n = 148 p = 0.234
	000		0-	.13.			0		

Question stem: "For

Evaluation of the influence of pharmacists and GPs on patient perceptions of long-term topical corticosteroid use

Corticofobia
Fonti di influenza

pondents for

Lisa L. Farrugia^a , Andrew Lee^{a,b} , Gayle Fischer^{a,b,c} , Alex Blaszczynski^d , Stephen R. Carter^e and Saxon D. Smith^{a,b,f}

acies. Patients and parents report having negative TCS-related II, 2017 counseling experiences with both pharmacists and GPs, but these negative experiences occur more frequently with pharmacists. These findings indicate a need for reeducation of both pharmas

cists and GPs on the safety of TCS use and the potential impact of their counseling on treatment adherence.

	Statement S 5	"Disagree", n (%)	n (%) S	Agree", n (%)	A A	"Disagree", n (%)	n (%)	Agree", n (%)	n	p values
	"Provide useful advice on how to deal with the practical difficulties of regularly applying TCS"	26 (14,4%)	44 (24.3%)	111 (613%)	5 20 5 3	43 (27.7%)	46 (29.7%)	66 42.5%	46	n = 152 p < 0.001*
	"Provide me with a sufficient amount of information about using TCS"	30 (16.3%)	38 (20.7%)	116 (63.1%), (A)	Dar 17	40 (25.0%)	42 (26.3%)	78 (48,8%)	41	n = 152 p = 0.010*
	"Notice when I have not requested/refilled TCS prescrip-	93 (62.0%)	29 (19.3%)	28 (18.7%)	51	101 (73.2%)	29 (21.0%)	8 (5.8%)	63	an = 131 p = 0.001*
	tions in a long time, and ask why this is the case" "Make me feel reassured about using TCS"	S 22 (12,4%)	53 (29.8%)	103 (57.9%)	23		60 (40.3%)	37 24 8%	52	n = 145 p < 0.001*
1	"Listen to my concerns about using TCS" "Treat me [and my child] with respect when speaking	17 (10.4%) 7 (3.9%)	51 (31.3%) 35 (19.6%)	95 (58.3%) 137 (76.5%)	38	23 (17,7%) 23 (10,2%) 2 5 15 (10,2%)	64 (49.2%) 44 (29.9%)	43 (33.1%) 88 (59.9%)	54%	n = 127 p < 0.001* n = 142 p = 0.002*
	about TCS" "Make me [and/or my child] feel embarrassed about	151 (87.3%)	18 (10.4%)	4 (2.3%)	28	115 (77.2%)	20 (13.4%)	34 (9.4/6)	52	n = 144 p < 0.001*
	using TCS" "Demonstrate sensitivity towards the physical appear-	16 (9.5%)	36 (21.4%)	116 (69.0 %)	% 233	20 (15.5%)	37 (28.7%)	72 (55.8%)	73	n = 124 p = 0.006*
	ance of my [child's] skin"	10 (3.370)	30 (21.770)	110 (02,0 70)	- a	20 (13,370)	21 (2017/0)	0 0 0	1.6	11 = 124 p = 0.000

*Statistical significance.

Topical corticosteroid concerns from the clinicians' perspective 2017

Journal of Dermatological Treatment

Corticofobia Fonti di influenza

Simon M. Mueller, Dominique Tomaschett, Deborah R. Vogt, Peter Itin, Antonio Cozzio & Christian Surber

The clinician's own concerns about using TCS

Conclusions

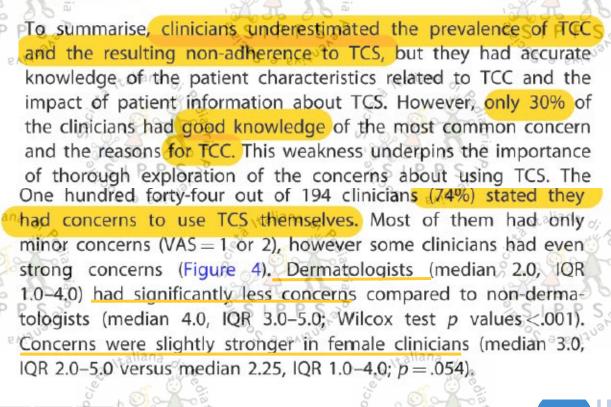


Figure 4. Intensity distribution of the clinician's own concerns about using TCS Intensity is indicated on a discrete VAS from 0 to 10 (no one rated 10).

Frequency

ORIGINAL ARTICLE

Lisa

Corticofobia

Motivi di non aderenza

Evaluation of the influence of pharmacists and GPs on patient perceptions of

Schema 1. Cosa ci dicono gli studi?

La corticofobia è sostenuta da:

- scarsa conoscenza e confusione sull'attività degli steroidi;
- carente o assente informazione sulle modalità di applicazione;
- interferenze esterne;
- mancanza di fiducia anche da parte del personale sanitario.



JAMA Dermatology | Review

Topical Corticosteroid Phobia in Atopic Dermatitis

A Systematic Review

vin W. Li, BS; Emily S. Yin, BS; Richard J. Antaya, MD

na dy 2017

Corticofobia
Cosa possiamo fare?

Conclusions

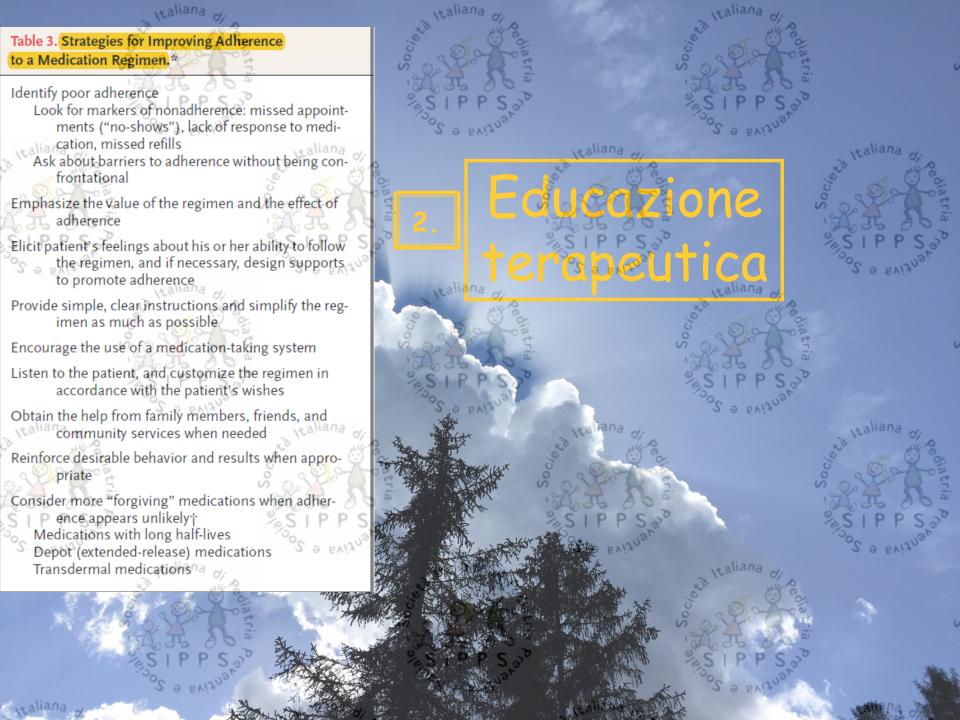
ment outcomes in AD.

Topical corticosteroid phobia is a pervasive and global phenomenon that has implications for patient adherence and treatment outcomes in AD. Improved standardization of the definition and assessment of this phenomenon is needed, as the variability found in the studies precludes purposeful comparison and extrapolation of the data for clinical application. Additional studies, using standardized methods of assessment to further characterize and understand this important phenomenon, are needed. Future research endeavors should work toward the development of well-controlled studies assessing interventions that may reduce TCS phobia and improve treat-



2017

J.-F. Stalder¹ | H. Aubert¹ | E. Anthoine² | M. Futamura⁴ | D. Marcoux⁵ Corticofobia TOPICOP Your doctor has prescribed or is prescribing topical conticosteroids for you or your child, to be applied Cosa possiamo fare? the affected skin. Through this questionnaire we would like to know your feelings about this type of treatment. For each question, mark the answer that best fits your opinion. Mark one box per line Topical corticosteroids can be absorbed into the bloodstream. □ Not at all ○ □ Not really □ To some extent ○ Absolutely □ I do not understand the statement TOPICOP Topical corticosteroids can lead to infections. □ Not at all □ Not really □ To some extent □ Absolutely □ I do not understand the statement Score validato in 15 Topical corticosteroids can make you fat Not at all District Properties of the statement Absolutely Did not understand the statement Nazioni Topical corticosteroids damage your skin. □ Not at all □ Not really □ To some extent □ Absolutely □ I do not understand the statement Topical corticosteroids will affect your future health negatively Not at all Not really To some extent Absolutely I do not understand the statement Using topical corticosteroids can fead to asthma. □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ Absolutely □ I do not understand the statement
 □ Not really □ To some extent □ I do not understand the statement
 □ Not really □ To some extent □ I do not understand the st I am afraid of putting topical corticosteroids on certain skin areas such as eyelids. Absolutely not Not really □ A little Absolutely
 I do not understand the I do not know of any side effects, but I am still afraid of using topical corticosteroids Not at all Do Not really To some extent Absolutely I do not understand the statement I am afraid of applying too much topical corticosteroids. □ Not at all? □ Not really □ To some extent □ Absolutely □ I do not understand the statement I wait as long as I can before treating myself or my child with topical corticosteroids. always I do not understand never sometimes I stop topical corticosteroid treatment as soon as I can. □ always □ 1 do not understand never sometimes I need reassurance about topical corticosteroids. □ Not at all □ Not really □ To some extent □ Absolutely □ I do not understand the statement includes 12 items assessing concerns about questionnaire scored on a 4-point Likert scale. Depending on the question, the



GUIDA PRATICA SULL'USO
DEI CORTISONICI NELLE
PATOLOGIE DERMATOLOGICHE
DELL'ETÀ PEDIATRICA

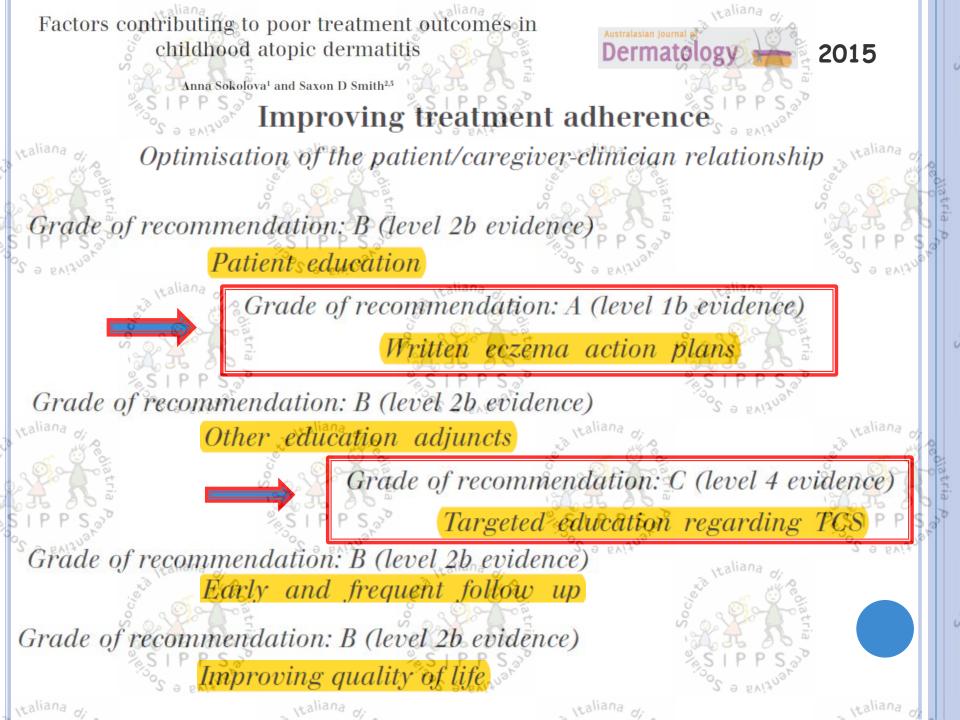




Alcuni suggerimenti per migliorare l'aderenza

includono:

- considerare il tipo, la sede delle lesioni e lo stile di vita del paziente;
- limitare l'impiego di topici a superfici inferiori al 5-10%;
- coinvolgere il paziente nella scelta del farmaco e nelle modalità di trattamento;
- limitare il numero di prodotti e la complessità della prescrizione;
- prescrivere topici in veicoli con maggior probabilità di accettazione;
- istruire riguardo alla quantità di prodotto da usare e alle modalità di applicazione (istruzioni scritte);
- spiegare le diverse fasi del trattamento (induzione e mantenimento)
- verificare che il paziente abbia capito;
 proporre visite regolari;



Prescribing success: Developing an integrated prescription and eczema action plan for atopic dermatitis



Maxwell B. Sauder, MD, FRCPC, Alana McEvoy, MD, and Michele Louise Ramien, MD, FRCPC Ottawa. Ontario. Canada

Key words: action plan; atopic dermatitis; eczema; integrated prescription; patient education; quality of life; written action plan.

Table I. Suggested characteristics of an eczema action plan

- Written set of instructions that stays with the patient
- 2. Step wise approach to management with 3 situations: daily management, eczema worsening, and eczema out of the prescribed medication regimen. In one study evaluating the influence of patient education on TCS phobia, a 10- to 15-minute educational session led by a dermatologist with written instruc-

tions resulted in a 43.2% decrease in the phobia index score. 21 liana

Table II. Possible components of clinical zones for management of atopic dermatitis 9-12

Green: Eczema under control

Yellow: Eczema worsening

Red: Eczema out of control

Daily moisturizer ± prophylactic, intermittent use of TCS or TCI

Face: Tapering twice-daily use of mild (class 6) TCSs or TCIs

Body: Tapering twice-daily use of midstrength (class 4) TSC

Seek an appointment with physician

Face: Limited time use of midstrength (class 4) TSC then revert back to yellow Body: Limited time use of super-potent (class 1) TSC then revert back to yellow

Istruzioni scritte

TCI, Topical calcineurin inhibitors; TCS, topical corticosteroids.



RESEARCH

Topical corticosteroid phobia in parents of pediatric patients with atopic dermatitis: a multicentre survey

If the doctor prescribed TCS then I would apply

Maya El Hachem¹, F Orsola Ametrano⁴, C Simona Giancristofo

Ital. J. Pediatrics 2017

raldi', Oriana Simonetti⁹,



Category	I completely disagree	l don't really agree	l agree to a certain extent	1 completely agree
С	31 (12%) 3.5 L.P	67 (26%)	53 (20%)	109 (42%) S L P P S a
'uso	72 (27%) ^S = 8	1270 (27%)	64 (24%)	S 56 (21%)
oosso	34 (13%)	51 (19%) 🔊 🖰	87 (33%)	90 (34%)

Aspetto il più possibile prima dell'uso Sospendo il trattamento appena posso

Correlations among steroid fear, acceptability, usage frequency, quality of life and disease severity in childhood eczema

Kam Lun Hon¹, Yin Ching K. Tsang¹, Nga Hin Pong¹, David C. K. Luk², Vivian W. Lee³, Wing Man Woo⁴, Chak Yiu Justin Lam⁴, Yun Ting Eunice Yeung⁴, Yiu Shing Sunny Chau⁴, Ka Kam Kenneth Chui⁴, Ka Hin Gabriel Li⁴, and Ting Fan Leung¹

> Journal of Dermatological Treatment

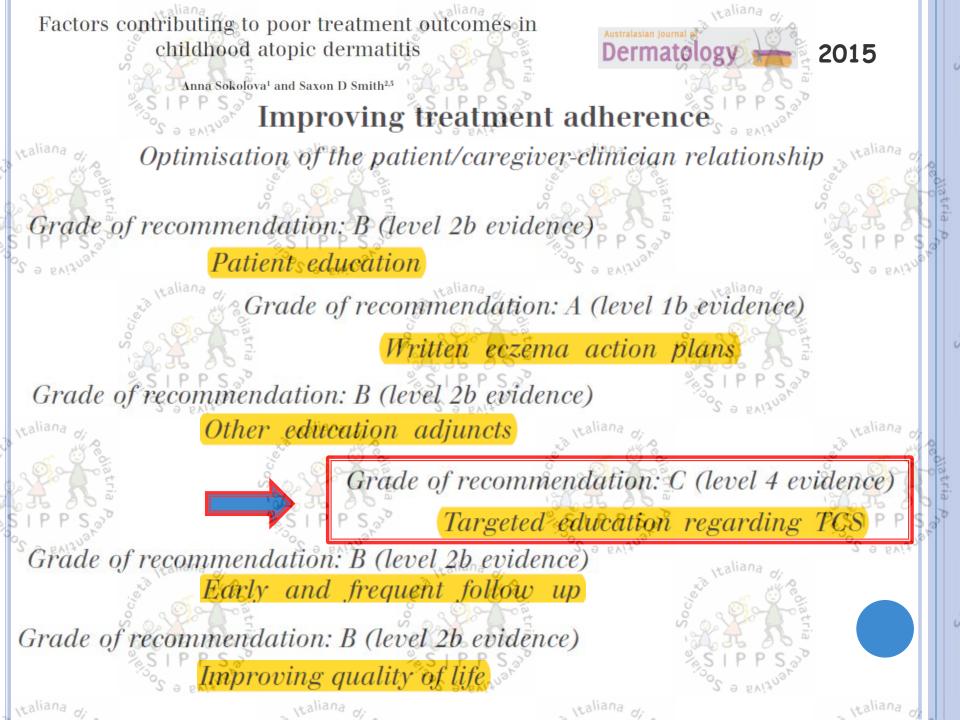
2016

Table 4. Adverse effects of CS use of most concern to parents.

SIPPS DO	Mild eczema (n = 50) (%)	Moderate/severe eczema (n = 11 l)	p Valiana
Skin thinning	24 (48.0)	65 (58.6)	0.212
Other skin problems	5 (10.0)	21 (18.9)	0.155
Growth	7 (14.0)	19 (17.1)	0.619
Liver kidney	5 2 (4.0)	6 (5.4)	>0.999 ^a
Immune	1 (2.0)	1 (0.9)	0.526 ^a
CS resistance	\$ 22(4.0)	3 (2.7)	0.646a
CS dependence	5 (10.0)	(6.3)	0.518 ^a
Body hair	2 (4.0)	4 (3.6)	$>0.999^{a}$
Eye problem	1 (2.0)	4 (3.6) 8 (7.2) 17 (15.3)	0.276 ^a
Bone problem	4 (8.0)	0 17 (15.3)	0.202
Miscellaneous	4 (8.0)	10 (9.0)	$>0.999^{a}$
Don't know S	13 (26.0)	% 5 19(871)5 30	0.002
arish are who at test		S = BNISUS	

^aFisher's exact test.

Bold values represent statistical significance.



Topical corticosteroid concerns from the clinicians' perspective



Simon M. Mueller, Dominique Tomaschett, Deborah R. Vogt, Pe Corticofobia Antonio Cozzio & Christian Surber

Influenza

ABSTRACT

Purpose: Topical corticosteroids concerns (TCC) are common in dermatology patients, possibly leading to non-adherence to topical corticosteroids (TCS) and poor disease control. Clinicians play a key role in that context, as they can reduce or reinforce these concerns. It is unknown, if clinicians have accurate knowledge of TCC to appropriately address this issue and whether they have concerns themselves to use TCS. This questionnaire-based study aimed to assess these two aspects.

Materials and methods: Accuracy of knowledge was defined by how close the clinicians' estimates were to reference values of our previous study, in which we had examined TCC in dermatology outpatients. Moreover, clinicians indicated whether they have concerns themselves to use TCS.

Results: Totally 202 clinicians participated. They underestimated both the prevalence of TCC and the resulting non-adherence. Whereas most clinicians correctly estimated characteristics of patients with TCC and the impact of patient information, only 31% of clinicians knew that skin atrophy was the leading concern, and only 30% correctly ranked the reasons for TCC. 74% of the clinicians had at least minor concerns themselves. Kaliana

Conclusion: The majority of clinicians may have inaccurate knowledge of certain aspects of TCC and own concerns to use TCS.

Topical corticosteroid concerns from the clinicians' perspective

2017

journal of Dermatological Treatment

Simon M. Mueller, Dominique Tomaschett, Deborah R. Vogt, Peter Itin, Antonio Cozzio & Christian Surber

Corticofobia

Table 1. Characteristics of patients with TCC, their most common and the ranking of sources of TCC as observed in the previous study (2nd column) mated by the clinicians (3rd column).

Characteristics related to TCC to be estimated by the clinicians	References from previous study [7]; Percentage of patients with TCC	Correct/total answers; Percentage of clinicians with correct answers
Age?	<60 years; 66%	173/177; 97.7%
Gender?	staliana Female; 58%	187/194; 96.4% na
Level of education?	Intermediate or high level of education; 91%	180/187; 96.3%
CAM use increased?	Yes; 39.4% compared to 21% CAM use in patients without TCC; $p < .01$	191/201; 95%
Most common concern?	Skin atrophy; 56%	68/173; 31%
Ranking of sources of concerns?	1. Others made "bad experience with TCS"	57/190; 30%
2 9 BYIYA C. S.	S a RAY2. Negative reports by media	S 9 BVIJ
staliana .	(internet, press, television, radio)	*aliana

3. Patients themselves made "bad

experience" with TCS for any reason

CAM: complenentary and alternative medicine.



Italiana Topical corticosteroid phobia in atopic dermatitis: 2017 International feasibility study of the TOPICOP score Corticofobia J.-F. Stalder¹ H. Aubert¹ E. Anthoine² M. Futamura⁴ D. Marcoux⁵ Score validato: TOPICOP taliana italiana ~ TCS damage TCS will affect TCS can lead to your skin my future health asthma TCS make you 0.75 0.51 0.439 BVIJA TCS can lead to 0.59 infections Latent factor 1: Beliefs (BEL) 0.57 TCS pass into the bloodstream 0.67Global latent factor: I need talian TOPICOP® reassurance 0.71 about TCS 0.75 I stop the 0.48 treatment as soon as I can Latent factor 2: 0.43 Worries (WOR) 0.42 I wait as long as I can before 0.78 treating myself 0.62 I'm afraid of putting I'm afraid of I don't know of any applying too side effects but I'm cream on certain zones still afraid of TCS like the eyelids, where much cream the skin is thinner

Topical corticosteroid phobia in atopic dermatitis:
International feasibility study of the TOPICOP score

Illergy MODIFICE DAMPSION EAACH

Corticofobia Scala di valutazione

J.-F. Stalder¹ | H. Aubert¹ | E. Anthoine² | M. Futamura⁴ | D. Marcoux⁵

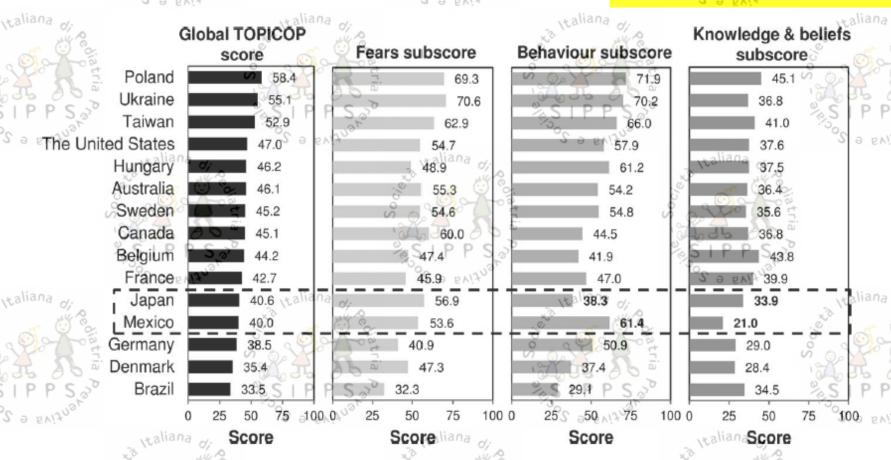


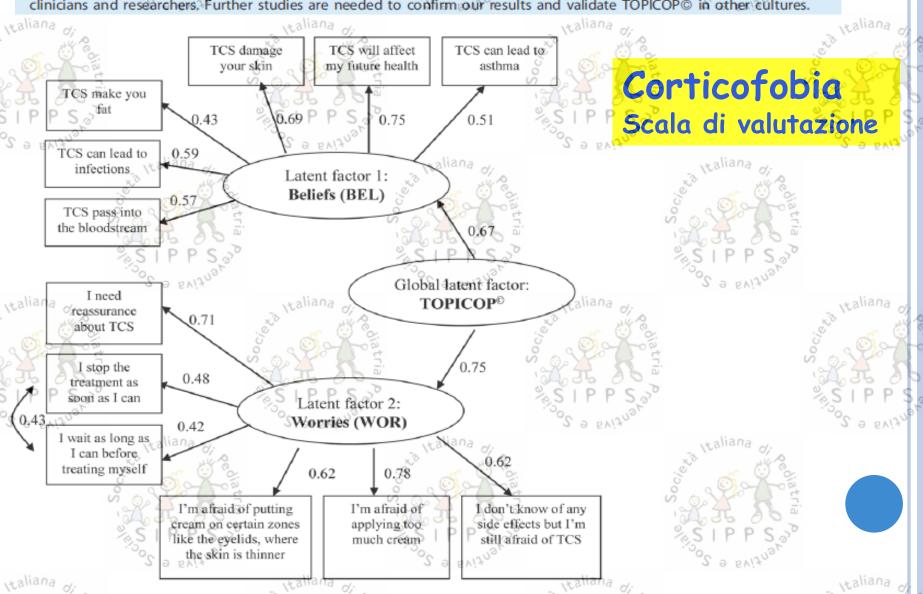
FIGURE 2 TOPICOP scores and subscores by country. Participants completed the 12 items in the TOPICOP questionnaire (see Table 2) on a 4-point Likert scale. Depending on the item, the scale was from never to always (0=never, 1=sometimes, 2=often, 3=always) or from totally disagree to totally agree (0=totally disagree, 1=do not really agree, 2=almost agree, 3=totally agree). TOPICOP scores and subscores ranged from 0% (no concern/fear) to 100% (maximum concern/fear). The dashed box highlights the findings from Japan and Mexico, which had similar global TOPICOP scores and fears subscores but, as highlighted by the numbers in bold, substantially different behaviour and knowledge and beliefs subscores

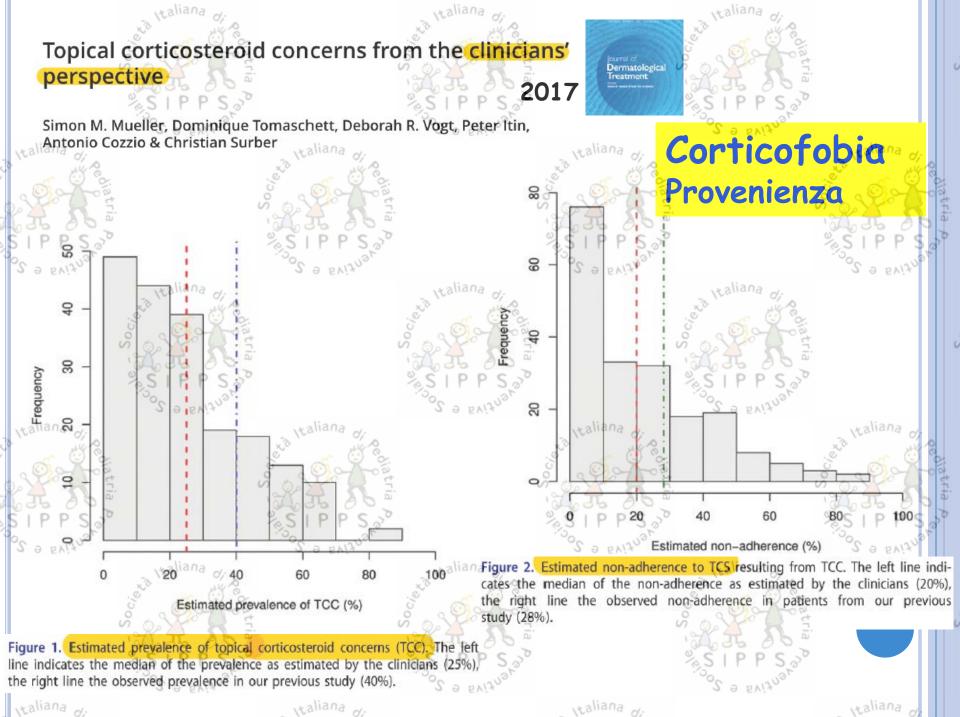
TOPICOP©: A New Scale Evaluating Topical Corticosteroid Phobia among Atopic Dermatitis Outpatients and Their Parents

2013



Conclusions: TOPICOP® is the first scale aimed at assessing topical corticophobia in adult patients and parents of children with eczema. TOPICOP® has excellent psychometric properties and should be easy to use in everyday clinical practice for clinicians and researchers. Further studies are needed to confirm our results and validate TOPICOP® in other cultures.





Corticofobia Provenienza

ORIGINAL ARTICLE

Evaluation of the influence of pharmacists and GPs on patient perceptions of long-term topical corticosteroid use

Lisa L. Farrugia^a (D), Andrew Lee^{a,b} (D), Gayle Fischer^{a,b,c} (D), Alex Blaszczynski^d (D), Stephen R. Carter^e (D) and Saxon D. Smith^{a,b,f} (D)

ABSTRACT

Purpose: To assess pharmacist and general practitioner (GP) advice and behaviors, as related to and reported by patients and parents of patients using topical corticosteroids (TCS) on a long-term basis.

Materials and methods: Multicenter cross-sectional survey of patients (aged 18+) and parents of pediatric patients (aged <18) with a history of long-term (≥1 month) TCS use, assessing: TCS treatment adherence and reasons for non-adherence; beliefs regarding TCS use and safety; messages regarding TCS received from community pharmacists, GPs, family/friends and the Internet; and experiences of GP and pharmacist counseling regarding TCS use.

Results: A total of 123 patients and 78 parents completed the survey (n = 201), 76.6% of respondents reported consistently ("Often" or "Always") receiving one or more message(s) regarding TCS "risk" from a GP and/or pharmacist (n = 192). Respondents reported being told to "try natural or complementary and alternative therapies before resorting to the use of TCS" significantly more often by pharmacists than by GPs (p = 0.039). **Conclusions:** High rates of consistently delivered messages about TCS "risk" from GPs and pharmacists affect patient/parent understanding about TCS safety and may lead to treatment non-adherence. This indicates a need for reeducation of these groups on the safety of TCS use.

Evaluation of the influence of family and friends, and the Internet on patient perceptions of long-term topical corticosteroid use

taliana

2018

Saxon D Smith MBChB MHL FACD, Lisa L Farrugia BS, Victoria Harris MBBS LLB, Andrew Lee MBBS MMed, Alex Blaszczynski PhD & Gayle Fischer MBBS (Hons) MD FACD



Corticofobia Provenienza

Risk messages received from Friends/Family and the Internet

Statement (Friends/Family			Internet				Respondents	
	'Never' or all and 'Rarely', n (%)	'Sometimes', n	'Often' or 'Always', n (%)	Missing,	'Never' or 'Rarely', n (%)	'Sometimes', n (%)	'Often' or 'Always', n (%)	Missing,	for both questions, p- value
TCS causan	o atrof	ia (§ 0.4%)	46 (28.2%)	738	78 (51.6%)	32 (21.2%)	41 (27.1%)	50 P. P. S. S.	n=147 p=0.370
'Try non- prescription creams/ointments before resorting to the use of prescription TCS'	73 (46.8%)\	42 (26.9%)		4500000	85 (60.3%)	29 (20.6%)	27 (19.2%)	8V1378L	n=140 p=0.014*
'Try natural or complementary and alternative therapies before resorting to the use of TCS'	78 (51.3%)	30 (14.9%)	44 (29.0%) P S and PAIRUSA	49	79 (56.8%)	31 (22.3%)	29 (20.9%)	62	n=136 p=0.137
"Apply TCS "sparingly" or "thinly"	(48.7%)	24 (16.7%)	50 (34.8%)	57 tallar	71/ (51.8%)	21 (15.3%)	45 (32.8%)	649 0/	n=134 p=0.555
'TCS cannot be used long-term'	73 (49,4%)	28 (18.9%)	47 (31.8%)	753	68 (50,0%)	27 (19.9%)	41 (30.1%)	65	n=134 p=0.708
'TCS may make my [child's] immune system less effective'	(76.5%)	19 (13.1%)	15 (10.4%)	56S P	107 (53,3%)	15 (11.0%)	14 (10.3%)	PAIZUSE S	n=135 p=0.808

2016

Correlations among steroid fear, acceptability, usage frequency, quality of life and disease severity in childhood eczema

Kam Lun Hon¹, Yin Ching K. Tsang¹, Nga Hin Pong¹, David C. K. Luk², Vivian W. Lee³, Wing Man Woo⁴, Chak Yiu Justin Lam⁴, Yun Ting Eunice Yeung⁴, Yiu Shing Sunny Chau⁴, Ka Kam Kenneth Chui⁴, Ka Hin Gabriel Li⁴, and Ting Fan Leung¹

Table 3. Nature of fears about CS use in parents.

of Contract of Con	Mild eczema $(n=50)$ $(\%)$	Moderate/Severe eczema (n = 109) (%)	p Value
Interpersonal	37 (74.0)	70 (64.2)	0.222
Iatrogenic	11 (22.0)	30 (27.5)	0.460
Bibliophilic	15 (30.0)	39 (35.8)	0.475

Journal of Dermatological Treatment

\taliana

Table 4. Adverse effects of CS use of most concern to parents.

	10 10		
	V/ (3) 0 Y		-
	- W 4		- 01
	1 A 4 1 1		10
I			
Cort			
		, • •	
	7.		-0
	- 00		31
•	Time	10	
		J 150/1 4	
iana			
11 (4 1 1 / 2 - 7			

S	Mild eczema	Moderate/severe eczema (n=111)	tria o
1821 L 2	(n=50) (%)	(%)	p Value
anSkin thinning	24 (48.0) ana d	65 (58.6)	0.212 ali
Other skin problems	5 (10.0)	% 21 (18.9)	0.155
Growth	7 (14.0)	19 (17.1)	0.619
Liver kidney	2 (4.0)	6 (5.4)	$>0.999^{a}$
Immune	1 (2.0)	1 (0.9)	0.526 ^a
CS resistance	2 (4.0)	3 (2.7)	0.646a
CS dependence	5 (10.0) EALZUE	7 (6.3)	0.518a
Body hair staliana de	2 (4.0)	4 (3.6) iana	$>0.999^{a}$
Eye problem	² 1 (2.0)	8 (7.2)	% 0.276 ^a
Bone problem	4 (8.0)	17 (15.3)	0.202
Miscellaneous	= 4 (8.0)	10 (9.0)	>0.999ª
Don't know	13 (26.0)	9 (8.1)	0.002

aFisher's exact test.

talianBold values represent statistical significance.

Italiana

Evaluation of the influence of pharmacists and GPs on patient perceptions of long-term topical corticosteroid use

Corticofobia Provenienza

Lisa L. Farrugia^a , Andrew Lee^{a,b} , Gayle Fischer^{a,b,c} , Alex Blaszczynski^d , Stephen R. Carter^e and Saxon D. Smith^{a,b,f}

Table 3. Patient beliefs

Question stem: "For each of the following statements, please place a tick in the circle under the level of agreement that best reflects your current opinion of using TCS ion your childl:" TCS [on your child]:"

Category (not indicated on survey)	Statement	"Strongly Disagree" or "Disagree", n (%)	"Neutral", n (%)	"Agree" or "Strongly Agree", n (%)	Missing, n
Necessity	"My life would be more difficult without topical corticoste- roids for my [child's] skin condition"	20 (10.3%)	39 (20.1%) P S	135 (69.6%)	SIPF
EVIJUSK	"The health of my [child's] inflamed skin, at present, depends on using TCS"	30 (15.2%)	24 (12.2%)	143 (72.6%)	00 4 EN
18	"In the future, the health of my [child's] inflamed skin will a depend on using TCS"	30 (15.4%)	50 (25.6%)	talia115 (59.0%)	6
.0	"Without TCS, my [child's] inflamed skin would be worse"	15 (7.7%)	19 (9.7%)	161 (82.6%)	6
C	"TCS keep my [child's] inflamed skin condition under control"	15 (7.6%)	32 (16.2%)	150 (76.1%)	4
Concern Solo	"I worry that TCS cause changes in my [child's] skin color"	97 (49.5%)	60 (30.6%)	39 (19.9%)	5
i de	"I worry that TCS make my [child's] immune system less effective"	78 (40.2%)	76 (39.2%)	40 (20.6%)	7
(%)	"I worry that TCS cause unwanted hair growth [on my child]"	123 (63.4%)	51 (26.3%)	20 (10.3%)	7
`	"I worry about [my child] becoming too dependent on TCS"	72 (36.7%)	53 (27.0%)	71 (36.2%)	5
ana o;	"I worry that TCS thin my [child's] skin"	55 (27.8%)	056 (28.3%)	87 (43.9%)	- Italian
440	"I worry about the immediate effects of TCS [on my child]"	77 (39.3%)	60 (30.6%)	59 (30.1%)	5
	"I worry about the long-term effects of TCS [on my child]"	48 (24.2%)	35 (17.7%)	115 (58.1%)	3
To the	"Using TCS [on my child] is disruptive to my life"	127 (65,1%)	36 (18.5%)	32 (16.4%)	960
38 =	"I worry that TCS may reduce my child's growth" (Pediatric question only)	38 (51.4%)	24 (32.4%)	12 (16.2%)	4
Self-efficacy	"I am capable of following the doctor's instructions to apply TCS"	6 (3.0%) P	P S15 (7.6%)	176 (89.3%)	S 14P 1
BVijo	"I am confident that I can follow the directions of the doctor	4 (2.0%) ≥ ≥	A!2 14 (7.1%)	179 (90.9%)	S 4 E1
2	"Following the doctor's instructions to use TCS is easy"	10 (5.1%)	18 (9.1%)	170 (85.9%)	3
Information sources	"Pharmacists instruct me to apply the TCS exactly as directed by my doctor"	48 (24.7%)	59 (30.4%)	87 (44.8%)	7
S	"I feel more confident following the advice of a pharmacist than a GP"	126 (64.3%)	53 (27.0%)	17 (8.7%)	5
9,5	"I feel more confident following the advice of a pharmacist than a dermatologist"	5 162 (82.7%)	28 (143%)	IP P6 (3.1%)	5
. 50	"If a pharmacist gave me different advice to a doctor, I would follow the pharmacist's advice in preference to the	159 (81.1%)	27 (13.8%)	S = 2,10,(5.1%)	5
ana d.	doctor" \taliana d	talian	a di		italiana

Evaluation of the influence of family and friends, and the Internet on patient perceptions of long-term topical corticosteroid use

Saxon D Smith MBChB MHL FACD, Lisa L Farrugia BS, Victoria Harris MBBS LLB, Andrew Lee MBBS MMed, Alex Blaszczynski PhD & Gayle Fischer MBBS (Hons) MD FACD



Corticofobia Provenienza

Respondents

Benefit messages received from Friends/Family and the Internet,

	Statement 3	- NO. 11 - NO	Friends/F	amily		V. 1000000000000000000000000000000000000	Respondents			
0	S S EVIZIBLE S	'Never' or 'Rarely', n (%)	'Sometimes', n (%)	'Often' or 'Always', n (%)	Missing, n	'Never' or 'Rarely', n (%)	'Sometimes', n (%)	'Often' or 'Always', n (%)	Missing,	for both questions, p- value
70	'[Having] my [child's] skin condition means that I [he/she] will need to use TCS'	90 0 (65.7%) S = ENIX	26 (19.0%)	21 (15.3%)	64 35 S I P	68 (50.7%)	30 (22.4%)	36 (26.8%)	EVITAGE BY	n=129 p<0.001*
	'Inflamed skin conditions will improve with TCS'	68 (50.0%)	31 (22.8%)	37 (27.2%) = 1	65	54 (40.9%) S	30 (22.7%)	48 (36.4%)	69	n=128 p=0.007*
0	'Using TCS is good for inflamedskin'	77 (55.8%)	29 (21.0%)	32 (23.2%)	63	72 (55.4%)	31 (23.8%)	27 (20.8%)	71	n=130 P P S p=0.966
	'TCS will control my [child's] symptoms, but they will not provide a permanent cure. Because of this, I [my child] need[s] to continue using TCS whenever	86 (62.4%)	21 (15.2%)	31 (22.5%)	63 talian	02	20 (14.8%)	32 (23.7%)	66 ana vi pediatria	n=132 p=0.629
	necessary.	I	\talii	ana di			Italiana of			Italiana of

Il beneficio dei CST supera Pos ampiamente il rischio legato agli effetti collaterali se i CST sono correttamente applicati Soppressione asse ipofisi-surrene (molto raro) Corticosteroide dipendenza (raro in pediatria) Sindome di Cuhing Ipertensione arteriosa

- Diabete mellito
- Osteoporosi

Si consiglia una valutazione clinica periodica solo se si usano steroidi potenti /molto e per lunga durata.

- Raccomandazione B Evidenza III (reazioni topiche)
- Raccomandazione C Evidenza III (reazioni sistemiche)

Grade of recommendation: D (level 5 evidence)

Future research

more research is needed. Educational interventions can now be studied more rigorously with the publication of standardised guidelines for TPE in AD. While the regularity of follow up is important, further research into the exact frequency and mode of follow up is warranted. The caregiver burden may be improved and the perceived complexity of treatment strategies can be rendered less daunting with the development of new vehicles that reflect patient/caregiver preferences. It is also essential to define the sources and impact of misinformation on the use and safety of TCS to better support the patient/caregiver and improve treatment adherence.

CONCLUSION It is evident that only a minority of patients and parents of children with chronic inflammatory skin diseases consistently receive benefit messaging from family/friends and the Internet whilst concurrently receiving misinformative risk messages from these influential sources. The varied and mixed nature of this messaging can help contribute to confusion and poor understanding about the safety and efficacy of TCS in chronic inflammatory dermatoses. This in turn can lead to treatment non-concordance and poorer treatment outcomes.

CONTINUING MEDICAL EDUCATION

Adverse effects of topical glucocorticosteroids

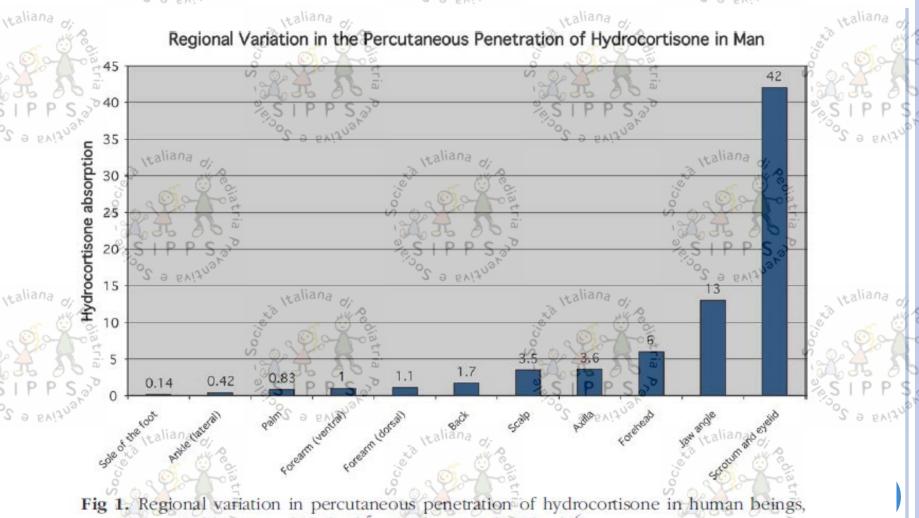
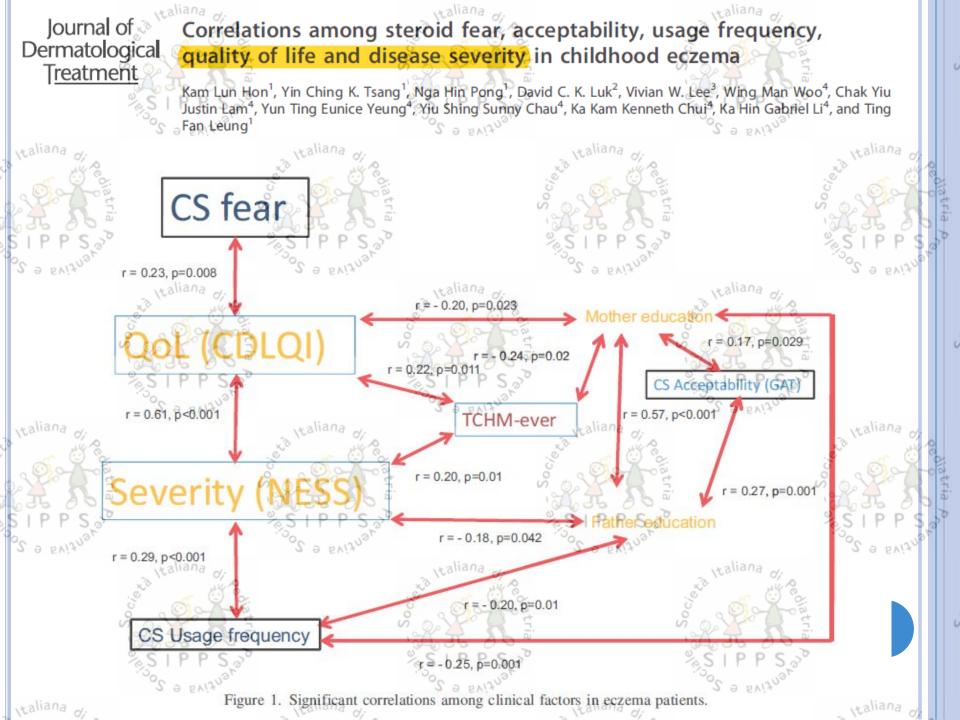


Fig 1, Regional variation in percutaneous penetration of hydrocortisone in human being according to Feldmann and Maibach⁵ and Wester and Maibach.⁶

Am Acad Dermatol 2006;54:1-15.

* aliana



Factors contributing to poor treatment outcomes in childhood atopic dermatitis Anna Sokolova¹ and Saxon D Smith^{2,5} Factors contributing to poor treatment outcomes Complexity of treatment regimens Lack of knowledge Impaired quality of life Patient dissatisfaction Frequency of follow up Corticosteroid phobia Use of complementary and alternative medicine

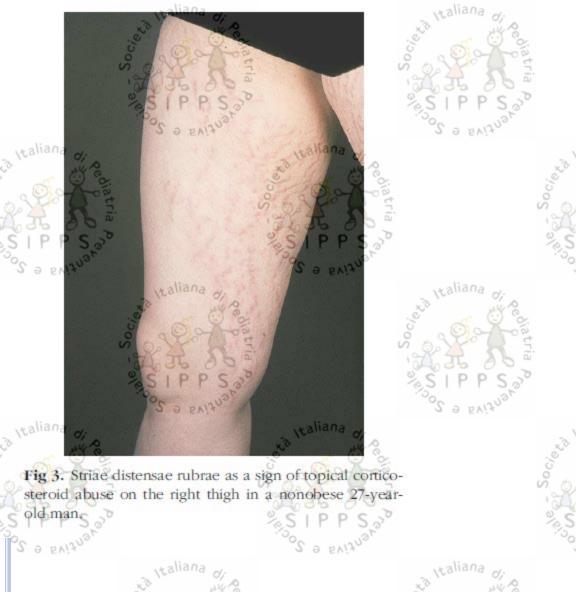


Fig 4. A, Long-term inadvertent use of corticosteroids for treatment of perioral and cheek dermatitis. B, Closer view of the left cheek showing atrophic skin and white scarring, along with telangiectases after uncontrolled use of high-potency steroids for 9 months.

Italiana o

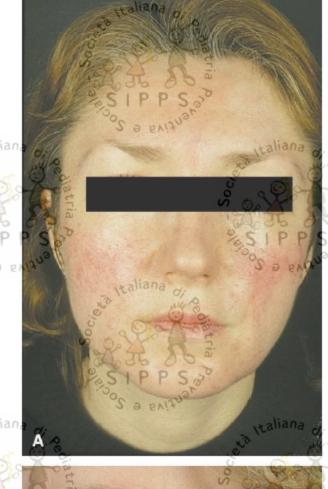






Fig 5. Steroid acne on the face characterized by pustules, erythema, and several open and closed comedones on the forehead. Free margins around the vermilion border are apparent.

they become more resistant upon recurrence,

Fig 6. Steroid abuse in a patient with atopic dermatitis showing generalized facial erythema, patchy hyperpigmentation on the forehead, increased atrophy, and wrinkles around the eyes. This patient has continued treatment with stronger derivatives because of loss of effect (tachyphylaxis).

Am Acad Dermatol 2006;54:1-15.

C.R. Charman, A.D. Morris and H.C. Williams

La paura principale del 50% dei pazienti è legata alla possibilità di atrofia cutanea ed altri effetti locali ma spesso non c'è una vera motivazione ma solo pregiudizi e scarsa conoscenza.

multicentre survey

2016 Italian Journal of Fediatric

CORTICOFOBIA =

MANCATA ADERENZA = DIMINUITA EFFICACIA TERAPEUTICA

involved in the management of AD. It is mandatory that caregivers dedicate time to inform parents about the safety of the new generation products, whose main advantage is a clearly improved risk/benefit ratio.

Score S 100 0

50 75 100 core 50 0/5 1

Score

e

Topical corticosteroids Healthcare professionals should discuss the benefits and harms of treatment with topical corticosteroids with children with atopic eczema and their parents or carers, emphasising that the benefits outweigh possible harms when they are applied correctly. Grazie Atopic eczema in children management of atopic eczema in children from birth up to the age of 12 years

topici. I corticosteroidi topici possono essere assorbiti a livello sistemico attraverso la cute integra. Il livello di assorbimento percutaneo dei corticosteroidi topici è determinato da diversi fattori, compreso il veicolo e l'integrità della barriera cutanea. Occlusione, infiammazione e/o altri processi di malattie della cute possono anche aumentare l'assorbimento percutaneo. C'è comunque da rilevare che gli effetti collaterali sistemici dei preparati corticosteroidei per uso topico sono estremamente improbabili per i bassi dosaggi impiegati; la loro comparsa, tuttavia, può essere favorita dalla terapia occlusiva o quando vengono trattate zone cutanee estese con dosi elevate o per periodi di tempo prolungati. Si tratta, in questi casi, dei disturbi classici della corticoterapia, in forma lieve e reversibili.

Adverse events reported in long-term (≥12 weeks) pediatric trials of TCI and TCS listed by duration

	800	F. S. S.			So	200	107	Poatr		us AEs ^{e,b}		So	38	Systemic A (%)	Esas	
_	10403	Trial	Year	Tx	Duration (wks)	631	DAE (%)	Bacterial Infection	Viral	Fungal Infection	Atrophy	Bacterial Infection	Viral Infection	10	∂ GI	Lymphoma
ſ	- 6.3 T	Paller [49]	2001	0.03%	12 %	2117	5	20,	0.4-5	•	•	3%	3 I.F	1.0	Ø •	•
	00	Kubota [55]	2009		12	0,31	*11	Ng.3	•	•	•		000	11500,	•	•
	3 (Hofman [50]	2006		28	133	5VI7	2	0.8				2 0 1	. VI.		
taliana o	Tacrolimus	Paller [51] / Breneman [52] 👈 3	2008	di	42	68		1-2		caliana	0/*					\telia!
`	N=1370 ^d	Thaçi [53] / Thaçi [54]	2008	140	52	125	2	2-6	20		440					· 0x
~ (i	(0.03% n≈524;	Mandelin [58]	2012	(C) "	2 104	50	4	10	4-18		(°	4-16	2	4-90	38	•
	0.1% n=846)	Paller [49]	2001	0.1%	+ 12	118	3	•	C0.4-3	3 400	7000	+ 1	•	•	•0	0
77	2.	Tan [56]	2004	173	- 24	82	2	6-13	V7 200	1	₹.		•		¥2.	00
35 8	9 m	Kang [57]	2001	00	52	255	4		0.4-8	J.	00		35			70.00
IPP	500	Hanifin [59]	2005	9:	196	391	1-3		0.9	I P F	9.5	7-16	44-47	12-20	• 0	SIP
	31	Kaufmann [62] / Staab [63]	2004	196	20	188	2	1	0.5	•	7.	•	•			5.
S 9 EVIS		Ruer-Mulard [60]	∂2009\	30	22	268	3-5	2	2-3	D. PA	1700	0.7-6	2	0.7-6	3-5	5.0
		Zuberbier [47] / Zuberbier [48]	2007		24	195	arta	1	0-1					2.7		
	Ita	Lübbe [64]	2006		24 -	947	aita	0/2	0.3-2			2-4 -	Italia	na 590	. 3	
	Xo	Simon [65]	2006		24 0	109	0.9	Y 2	2-3			100		7/30	8	
	~ 5	Slegfried [44]	2006		24	183		200	0			8	- 5	9-18	6-7	
	Pimecrolimus N=4455¢		2008			296	0.4	1000	2-4	1	1	0.	2-7	A 1000	4-5	
	7 - X	Sigurgeirsson [45]			26	1200	The state of	4 5			- 5	(8-5	19-200	4-6	333	
	0400	Whalley [66] / Langley [67]	2002		26 7	335	1.5	100.55	•		Ī	0-6	56	3-21	~	
	251	Kapp [41]	2002		52	204	РΡ	50-90	0-20			15-22	S LP	P ¹⁵⁻²⁷	15-28	3.5
	.75	Wahn [46]	2002		52 %	474		0.248	0-3		•	13%	15	37		•
	5 :	Papp [68] / Papp [69]	2005		104	91	0.6	\\ 1.9	3-8	3	•	8-16	S 0 1	21128	9-20	•
taliana			3016			1215			3.35	alians			5.17	A.35	77.27	- alia
Canana		Kirkup [73]	2003	EAC	16	136	0.7	0-0.7	- N	Ca 0.711a	0/		4	6		7 Italia
	Low-potency TCS	Thomas [70]	2002	HAD	18	104	•	•	. 0	•	4486		•	•	•	
(S)	N=400'	Jorizzo [71]	1995	DES	25	16	•	•	0	6	000	•	•	•	.0	
200	3 Francis	Jorizzo [71]	1995	HYD	25	20	*	•	Solo	300	0	•	•	•	.00	12 9 T
° 42 5	_ <u>a</u> .	Hofman [50]	2006	HYD	28	124		2	· W	200	0				•	Xº •
000	Mid-potency TCS	Thomas [70]	2002	BMV	18	103	*	*	- Const	-	0 12		1	•	•)	34000
IPP	N=257	Hanifin [72]	2002	FIC	44	154			78.S		300			•		SPP
	low- or mid-potency	Kirkup [73]	2003	HYD	16	129	3	0-2	•20,	0	10		3-4	-4		00.0
2 9 BVis	TCS N=1342 ^{g/s}	Sigurgeirsson [61]	2015	HYD	260	1213	1	10	4-23	9. BV	130	11-17	7-17	5-32	21-31	200
	Ita	Siegfried [44]	2006	VEH	24	\92	ana	0/- 5	0	•		8	Italia	na 3-1/7	2-8	•
	×2	Zuberbier [48] / Zuberbier [47]	2007	VEH	24. x3	89	٠,	49	0-1			• 10		100		•
	VEH+TCS rescue N=729	Sigurgeirsson [45]	2008	VEH	26	265	2	20	3			0.8-6	4.6	4.7	0.24	•
	0 0	Kapp [41]	2002	VEH	52	46	287	0-7	0-16	•		16-21	9.00	16-25	8-26	
	N 00 7	Wahn [46]	2002	VEH	52	237		0-27	0-3	•		745	10		-	
	'a-0-0-0	Paller (49)	2001	VEH	12 0	116	380	0	0-1		•	80/	600	00		
	VEH S	Paller [52] / Braneman [51]	2008	VEH	42	5 36	0.0	500	3			2	SIP	P.S	200	
	N=3550	Hanifin[72]	2002	VEH	44 %	77		30				• %		• 01		
	00	Thac [54] / Thac [53]	2008	VEH	52	1250	EN13	2-3	3-4				500	VIJO		
taliana ,	No treatment N=50k	Hofman [50] \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	15 marion		28	50				taliana	n/*		•	6		\ lia

ECZEMA 2017 : HIGHLIGHTS

> Complex polygenic disorder





- The aim of managment is to improve symptoms and achieve long-term disease control with a multistep approach
- Nonadherence rates are high



Galli et al. Italian Journal of Pediatrics (2016) 42:26 // DOI 10.1186/s13052-016-0229-8

Italian Journal of Pediatrics

REVIEW

Open Access

Consensus Conference on Clinical Management of pediatric Atopic Dermatitis

Elena Galli ¹¹, Iria Nen², Giampaolo Ricci², Ermanno Baldo⁴, Maurizio Barone⁴, Anna Belloni Fortina⁵, Roberto Bernardin², Irene Bett², Carlo Caffarelli⁷, Elisabetta Calamelli², Lucetta Capra ¹⁰, Rossella Carella Francesca Cipriani², Pasquale Comberiati³, Andrea Dioclaiuni², Maya El Hachem³, Elena Fontana⁶, C Michaela Gruber³, Ellen Haddock⁴, Nunzia Maiello¹⁵, Paolo Meglio⁶, Annalisa Patrizi², Diego Peroni¹⁰ Derela Scarponi³, Ingrid Welander³ and Lawrence F. Eichenfield¹⁴ niro Ohya ^c, Hidehisa Saeki ^d, Naoki Shimojo ^e, kazu Yamada ^h The Japanese Society of

Current guidelines for the evaluation and management of atopic dermatitis: A comparison of the Joint Task Force Practice Parameter and American Academy of Dermatology guidelines



Lawrence F. Eichenfield, MD, ^{a,b} Jusleen Ahluwalia, MD, ^{a,b} Andrea Waldman, MD, ^{a,b} Jenna Borok, BS, ^{a,b} Jeremy Udkoff, MA, ^{a,b} and Mark Boguniewicz, MD° San Diego and La Jolla, Calif, and Denver, Colo

TOPICAL CORTICOSTEROIDS

TCS are used in the management of AD in both adults and children and are the mainstay of anti-inflammatory therapy.

Efficacy

TCS have been used to treat AD for more than 60 years. Their efficacy has been demonstrated with a wide variety of preparations and strengths, with

Raccomandazione A Livello di Evidenza I

topical anti-inflammatory therapies are compared.

ECZEMA 2018: HIGHLIGHTS

- Complex polygenic disorder
- Chronic inflammatory skin disease
- Pathophysiologic insights: Skin barrier dysfunction, role of innate immunity, impact of skin microbiome
- > Epigenetic susceptibility to environmental factors
- More clinical and immunological phenotypes of eczema

Prevalence:

- Clinical managment presents a real challenge (no resolutive cure at present)
- > Tremendously negative effect on the quality of life of patients and family