Seit > 5 Jahren nicht aktualisiert, Leitlinie wird zur Zeit überarbeitet

Sribaselfrage 1 Für welche Indikationen wird der Epikutantest (ECT) empfohlen, kann empfohlen bzw. erwogen werden oder nicht empfohlen werden?

Sribaselfrage 2 Welche Expositionssduer (24h versus 48h), welcher Expositionsort und welche Ablesezeitpunkte sind überlegen im Nachweis einer bestehenden Sensibilisierung?

Expositionsduer Expositionsort und welche Ablesezeitpunkte sind überlegen im Nachweis einer bestehenden Sensibilisierung?

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	Study characteris	stics					Mc	ethods										Results							Critical Apprai	sal of Study		4
First Author/	Sources of funding and competing				Reference	Diagnostic test(s)	Duration of	Application	Time interval and treatment(s) administered	Investigator(s) and assessor(s)	Inclusion	Patients	Patients (age (mean/range);	presumed	Grading/Classif ication/Strengt	Definition of	Results I (overall positive	Results II (reactions at different time	Results II (3 most frequently reported			Cut-Off	Comparison of two or more			external	Evidence level	Other/ Addendum
Barbaud et al. 2001	Interests Source of funding, not described Competing laterests: not stated	Nancy, France	Alms and Objectives To determine the causes of non-relevant pos. patch tests and IDT with drugs in Cutaneous adverse drug reactions (CADR). To establish the thresholds of non-irritability for drugs tested by IDT.		standard test	Patch test and	not described	upper back	6 weeks to 6 months	training	Patients with CADR	included (n)	gender (MIF)) n/s	Diagnose	h of reaction	positive patch tests, positive IDT	reactions)	points)	substances?)	Accuracy n/a	Reproducibility	determination	IDT/patch test	Adverse effects Author conclusion Skin tests with drugs are of value in investigating CADR not reported fashe positive result should be compared with negative control subjects.	Exclusion criteria missing,	study population not described	(Oxford)	(Optional) inclexcl criteria missing
Barbaud 2014	Source of funding: not described Competing interests: not stated	literature review	Recommendation of skin testing in non-lgE- mediated drug allergy	expert opinion based on literature review	n/a	Skin prick test, Infradermal test, Patch test	not described	nis	at least 1 mosth after the resolution of the CADR and during the year following the CADR		n/a	n/a	n/a	Non-IgE- mediated drug allergy	nis	positive test results	nis	n/s	n/s	nla	nla	n/a	skin prick test, intradermal test, patch test	Drug patch tests an safe; poster in only 23 % of the reporter can be safe; poster than the safe beautiful test		n/a	5	systematic literature review
Bircher et al. 1995	Lator of Dematochemistry, Streatioury, Ariar Disso, Aria Serden, Ciba In: Settlertines Vineocosti Hospital Clarono, Elife Marger (Intelligence	Basel, Berne, Geneva, Zurich Lausanne, 10 dermatologists in private practice	To determine the prevalence of positive path he test to carticosteroids in Subtreating of patients undergoing routine patch tests.	prospective militicentre exploratory cohort study with good reference standards	retesting with the screeing series and 12 controsterois commonly used in Switzerland	patch test	48 h	nis	nis		consecutive dermatologic patients with an indication for patch testing	3016 patients	age 42 (6-96); gender: 1189/1826	presumed allergic contact dermatitis (ACD)	International Contact Dermatitis Research Group (IC- DRG)	positive patch tests to corticosteroids	65 patients (2.2 %), 26 male and 39 females with a total of 106 positive reactions to conficosteroids	n/s	31 (1%) reactions to TXP; 30 (1%) reactions to BUD; 29 (1%) reactions to BUD; 29 (1%) reactions to HCB; 16 (0.5 %) reactions to HCA	nla	70-98 % concordance in retesting	nla	nla	Controcation dis situ. Controcation dis situ. In controcation discontrol particle series and produce discontrol controcation of controcation of controcation of controcation of controcation of control profiles, budecontrol or profiles, budecontrol or control profiles, budecontrol or control		rvia	26	
Bircher et al. 2006	rés	Sterature review	Clinical and diagnostic aspects and managemen options of hypersensitivity reactions to arriscoagulan drugs	expert opinion based on literature review	nla	Skin prick test, Intradermal test, Patch test	n/a	nis	n/s		n/a	n/a	n/a	patients with hypersensitivity to anticoagulant drugs	nis	n/s	nis	n/s	n/s	n/a	nla	nla	n/a	In cell-mediated hyperacentrivity reactions, such as erythernathus places prick or intradermal prick or intradermal nis tests, with e.g. 11-01 undusted repairor, call be performed Places tage stripping, are less sensitive but me be positive	r n/a	n/a	5	
Brockow et al. 2002	rés	Rostrum based on literature review	Skin test procedures in the diagnosis of drug hypersensitivity	expert opinion based on literature review	nia	Skin prick test, Intradermal test, Patch test	2 days	upper back	3 weeks to 3 months		n/a	n/a	n/a	presumed drug hypersensitivity	ECDRG	n/s	nts	n/s	nis	nla	nla	n/a	n/a	sati mater autor in a appele according in suspecied parthorechairsmin of it programs and a secondary in injuries and a secondary in a respecially and a secondary in a secondary in a seco	s n/a	n/a	5	
Brockow et al. 2013	rita	European position paper based on Merature review	To promote and standardze reproducible and standardze reproducible and content and the concentration is the characteristic standard and the characteristic standard and the concentrations with specificity of all beast 30 fb in idea (and the characteristic standard and the concentrations with specificity of all beast 30 fb in idea (and the characteristic standardze).	Systematic stream of the control of the control of the concernations for drug by searching the concernations for drug by searching the concernations for drug by searching the drug by searching the control of the cont	syla	Skin prick text, introder mal text, Patch text	nts	orks	réa		n/a	rvia	rofa	patients with drug allergy	nis	nds	nis	nis	eds	nia	orla	nla	There is paucily of literature on skin drug feat sk	There is procedy of the state o	evidence grading established for	Review of the literature and evidence grading established for recommendation	3a	

Isaksson et al. 1999	Source of funding work supported by grants from The Swedsh Foundation for Health Care Secretary and Perfect of the Control of	University Hospital Leuven, Belgium	Patch testing with budesonide influence of dose, occlusion time, reading time	Prospective one centre non- consecutive study, patch testing with budesonide in serial dilutions	n/a	patch test	48 h, 5 days for 1 column, 24 h for 1 column.	upper back	nls	patients previously known to be hypersensitive to 1% budesonide tested in ethanol	10	nls	patients previously known to be hypersensitive to 1 % busesonide tested in ethanol	ICDRG	Readings on day 2, 4 and 7	9 of 10 (9/10) patients reacted to budesonide	More patients tested positively to low concern advance of budecoride. The most positive reactors were found when budecoride was tested with 48h coclusion in low concentrations (0.002 %) and read on D4.	n/a	nia	n'a	n/a	n/a	nk c	One and the same concentration cannot be used to detect contact allergin and budseonide-allergin patients. With early readings low concentrations may be concentrations may be readings by the concentrations may be therefore be an argument for patch testing with 2 concentrations (in patient) and low). An entity of the concentrations (right and low) An entity of the concentrations (right and low). An entity of the concentrations (right and low) An entity of the concentrations (right and low). And to give a late reading after 1	No blinding. Exclusion criteria not defined	Small sample size	36	
Lammintausta et Kortekangas 2005	ris	Turku University Central Hospital, Finland	To analyse the usefulness of skin tests in revealing drug allergy. The relevance of skin test results was evaluated with drug proviocation studies.	Retrospective one center study (1989-2001)	Provocation test	Patch test, prick test, intrademal test, cral provocation test	48 h	upper back	Time interval between skin reaction and test 2 months to 20 years. Was not recorded systematically	Patients with history of suspected cutaneous adverse drug reactions	947	nls	presumed diagnosis of CADR	n/s	If erythema and infiltration and/or edema had developed, the reaction was interpreted as positive. Macuter erythema was regarded as nonsignificant	positive patch test reaction in 89 of 826 patients (10.8%); 13 of 16 patch test positive patients (81.3 %) developed examinems after provocation	n/s	beta-lactams, clindamycin, trimethoprim	nia	nla	nla	n/a	nds a	Skin testing, especially PT, was a useful PT, was a useful indicated asserted in the second product of the sec	Interval the new terms of the content of the conten	no blinding	3b	
Liippo et al. 2013	nis	Turku University Central Hospital, Finland	To identify patient cases with multiple delayed-type drug sensitirations by using patch testing.	n's, presumably consecutive patients (N=811) with suspected cutaneous adverse drug reactions (CADR)	nla	commercial products 30%, 15%, 10% in pet or water, pure substances 10%, 1%, 0,1% in water, baseline series from Chemotechnique. Application with Finn Chamber or Smart Practice	n's, according to the guidelines of the Eur. Society of Contact Dermattis	upper back	nds	general dermatology patients with suspected CADR in a 9 year period	811	nls	suspected drug allergy	interpretation performed according to the international criteria for patch testing, ESCD	number of patients with possitive patch test reactions and patch test reactions to multiple drugs at 48 and 96 h	Positive patch test reactions of drugs were found in 34/811 patients	Multiple delayed drug sensitizations were found in 4/54 patients (12 %) of those patients with positive results in drug patients with positive results in drug patients and clinical CADR.	They were all sensitized to one or more artibiotic drugs. Co-sensitization to other drugs was seen in 3 of 4 patients. Patients with multiple sensitizations: Annoxicillin, cephalosporins, Pseudoephedine, Opioids	nla	nla	nla	n/a	nis	Drug patch testing is useful in cutaneous useful in cutaneous solverse drug reactions where multiple clouss where multiple clips are suspected. Importance of testing it culprit drugs. Multiple trug senetilizations can be found in a proportion of patients who have delayed drug allergies.	Small sample size Concentrations of the pharmacologicall y active ingredients varied in the studied patients. No blanding Frequency of testing per test substance not stated.	unclear whether all tested patients had experienced clinical symptoms	3b	
Osawa et al. 1990	The work was partially supported by Grant A-Valler Scientific Research (01570707) from the Messay of Education, Science and Cultur, Jopan. No competing reterrois declared.	Department of Dermatology, Vokohama City University School of Medicine, Yokohama, Japan.	Evaluation of the usefulness of intradermal usesting and patch sesting in patients with various types of eruptions caused by many kinds of drugs.	Retrospective monocentric non- consecutive study	Provocation test	Intradermal test, Patch test	patch test: 48 h	patch test: upper back	n/s	patients with generalized drug eruptions	242	age:47.2 (1-85); M:F = 97:145	suspected non- immediate drug- eruption; Patients with delayed type drug eruptions: maculopapulars type (MP), erytherma multiforms type (EM), erythodernic type (ED), eczematous type (ECz), lichenoid type (ED).	ICDRG	positive: delayed reaction at 48 and 72 h	Positive sam test: reactions were found in 31.5 % of the cases patch tested. Patients with anticonrulsant- induced eruptions showed a relatively high positive rate in patch testing (sodium valproate most frequently, but should be tested with less than 5 in periodatum).	n/s	n/s	nia	nla	n/a	patch test - intradermal test	nds s	Patent resung a tasky do it is still not thought to be as useful as intradermal tests because of low responsiveness to sensitized drugs, except in ED type. ECZ type, and its still produce the end of	n/s	bla	36	
Waton et al. 2009	The study was sustained by funds of regional research of University Hospital of Nancy. No competing leterests	One centre, retrospective study, University Hospital Mancy, France	To evaluate the negative predictive value of drug skin tests.	One centre, retrospective exploratory study	Provocation test	Patch test, prick test, intradermal test, cral provocation test	patch test: 48 h	According recommendation ESCD	At least 6 weeks after complete disappearance of the CADR	Patients with cutaneous adverse drug reactions	200	mean age: 43.8 years; 72 males, 128 females	cutaneous adverse drug reactions	ESCD	positive: strong drug causality or positive oral provocation test, negative: negative oral provocation test.	42 of 403 rechallenges, were positive, were positive, steen engative predictive values of drug skin fest in our unit was 88.6 %: negative skin test (Patch, prick, IDT) 260 oral provocation test: negative sed substitution test: negative predictive value 88.6 %: 143 substitution test: negative predictive value 88.5 %:	n/s	antibiotics, paracetamol, Naaid, corticosteroids	nia	nla	n/a	patch test and	administration under hospital	Negative drug skin tests do not eliminate the responsibility of a drug in drug reactions, and must be followed by drug re- administration under hospital surveillance.	no blinding	n/a	2b	
Barbaud 2005	nfs	literature review	Are patch tests helpful in drug allergy?	expert opinion based on literature review	n/a	Patch test, Prick- test, Intradermal- test	patch test: 48 h	back	during the 6 months following the CADR	n/a	n/a	n/a	CADR	ICDRG	according ICDRG	n/a	nía	n/a	nla	nla	n/a	n/a	One relapse of a AGEP during patch testing	Drug patch tests can be helpful in be helpful in letermining the cause of CADR. They induce only rarely adverse reactions. They can be done with any commercialized form of a drug. A negative patch test does not exclude its role in causing a CADR.—Bensilisty of patch test can be considered in the consideration of the consid	n/a	Specificity and their negative predictive value of patch tests have not been yet determined.	5	

Barbaud 2009	nis	literature review	skin testing in delayed reactions to drugs	expert opinion based on literature review	nia	Patch test, Prick- test, IDT	patch test: 48 h	back	during the 6 months following the CADR	n/a	n/a	n/s	delayed reactions to drugs	ICDRG	patch test: according ICDRG	n/a	n/a	nla	n/a	nla	nla	n/a	nla	brug san tests can be- helpful in determining the cause of a CADR acused by a delayed hypersorativity, Drug skin tests can induce adverse reactions, however rare. The results of drug skin tests depend on the clinical features of the CADR and on the tested drug it is	n/a	n/a	5	
																								advised to perform drug skin tests during the 6 moriths following the CADR Patch tests and prick tests can be done with any Patch tests conducted with commercialized				
Barbaud et al. 2013	nls	French Multicentre study: Nancy, Dijon, Bordeaux, Créteil, Lille, Angers, Reims, Clermont- Ferrand, Besancon, Suresnes, Thionville, Lomme	To determine the value and safety of drug patch tests in patients with SCAR (DRESS, AGEP, SJS/TEN)	Prospective 3- year french multicentre exploratory cohort study of the "Toxidermies" group of the French Society of Dermatology"	nla	Patch test, (Prick test, IDT)	patch test: 48 h	upper back	within the 12 months following the resolution of SCAR	Patients with SCAR	134	mean age 51.7 years (range 3- 94 years); 48 male, 86 female.	SCAR	according ESCD guidelines	value and safety of drug patch tests in SCAR	tests positive in 64 % (DRESS), 55 % (AGEP), 24 % (SJS/TEN)	n/a	beta lactams (22 cases), pristinamycin (11 cases), pump proton inhibitors (five cases)	nla	nla	nla	nla	One relapse of AGEP during patch testing	forms of some drugs diluted to 30 % in petrolatum are of value and safe for investigating AGEP and DRESS. As any inflammatory stimulation could be responsible for virus reactivation in DRESS, we propose conducting patch tests 6 months after the onset rash in DRESS	Fewor no controls. No blinding.	No quality- control measures.	26	
Brahimi et al. 2010	ris	MURCHERS french study: Paris (Hópital Bichat), Créonii, Morapellier, Rousen, Nanzy, Clemmolt- Ferrand, Tours, Paris, Met, Brest, Caen, Reime, Paris (Hópital Saint- Louis), Guadeloupe, Limoges, Bordeaux, Pessac, Paris (Hópital Pasteur), Paris	to retrospectively collect and analyse well informe cases of fixed drug emplions observed in a hospital setting.	Retrospective multicentric French nation- wide 3-year- period of descriptive non- interventional study (2005- 2007).	nla	patch test	nis	inconsistenty meritioned whether patch test was done on involved or normal skin or both	n/s	patients with fixed drug eruption	59	mean age: 59 years (8-93); W-M = 1.35 (34 w, 25 m)	fixed drug eruption	nis	characterisitos of fixed drug eruptions	tests positive in 12 cases	n/s	paracetamol > piroxicam > Amoxicilin, Carbocystein, > Hydroxycin, Thiocotchicir, pharmacological groups: NSAIDS > antibiotics	nla	nla	nila	n/a	nk	NSAID are common causes of FDE. Based on FDE pathogenesis, which is a lymphocyte CD-8-modated reaction, it has been proposed that the offending drug may induce be loal reactivation of memory—T-cell lymphocytes localized in epidemal and dermal tissues and initially largeted by the viral infection.	no blinding; small number;	retrospective descriptive study	3b	
Duong et al. 2010	ris	one certier, Hoptral Henri Mondor, Créteil, France	Sensitivity of patch tests in different SCARs	Retrospective one certer study, Hopital Henri Mondor, Créteil, France	nla	patch test	nis	n/s	3 to 8 weeks after recovery of drug reaction	patients with SCAR (AGEP, DRESS, FDE, SJS/TEN	111	Mean age: 53 years (21-89); sex ratio 1.3 (F/M);	SCAR	nls	sensitivity of patch test	46/111 (41 %);	n/s	AGEP (63%), DRESS (50 %), FDE (17 %), SJS/TEN (26 %)	nla	nta	nla	nla	nls	Patch test with suspected drug weeds sensitivity. But is very useful tool in assessing the drug responsity in adverse drug reaction. Sensitivity of patch test is higher with AGEP than VSLS/TEN Nevertheless an negative patch test will not eliminate the suspected culprit drug.	Inclusion and exclusion criteria specified No control group-Force of patch test reactions (Realkionsstärke) not mentioned No information about occlusion time	n/a	4	
Soria et al. 2011	the work (M. Bacck) was partly funded by the Foundation Saint-Luc, Ciniques Universitatives Saint-Luc from Belgium (M. Bacck) the Groupe of Etables of the CASE(BA), France A. John size (SE(BA), France A. John size (SE(BA), France A. John size supported by agant from Institut Servier from France. No competing interests declared.	3 centres: Brussels (Belgium), Leuven (Belgium), Lyon (France)	To compare the test results obtained with patch, prick and infradermal testing, to assess the most sensitive method odiagnosing conticosteroid hypersensitivity	3 centire study	nla	patch test, prick test, intradermal test	8 h, 24 h, 48 h, 96 h	upper back	n/s	subjects with positive patch test reactions to corticosteroids, 3 control subjects	19 patients (positive to conficosteroids); 3 patients (control subjects)	11 women: mean age 55 years; 8 mer: mean age 49 years; control subject: 2 women, 54 and 64 years old, 1 men, 66 years old	patients with corticosteroid sensitization, diagnosed by patch test	ICDRG	positive skin test (patch, prick, ICT);	patch and intradermal test results were concordard in 11 of 15 patients.	patch tests most often positive when removed after 48 h and read on day 4 and lor day 7. The intradermal tests gave positive resists carrier than patch tests in 11 of 15 subjects, at the same time point in 2 subjects and later than the patch tests in 1 subject.	ela	nla	nta	nla	patch test, Prick test, intraderma test	i I nis	Patch nest with U.1 so ethanoici dulsion showed to be the most adequate and effective way of detecting delayed corticosteroid hypersensitivity. Remorsensitivity, ethanoici and D.2 (or D4), with later reading between 3 and 7 days, provided optimal detection of delayed hypersensitivity to corticosteroids. The detection of additional tests allows the detection of additional contact allergy cases,	Small sample size: Exclusion criteria not defined; No blinding	3b (study without consistently applied reference standard)	3b	
Tanno et al. 2011	rds	two centres: Sao Paulo, Brasil	To determine sensitivity and specificity of drug patch lest in severe cutaneous adverse reactions	Prospective two- center-study, Sao Paulo, Brazzil	History of NiHR to drugs based on adapted ENDA questionnaire	patch test	48 h	nis	at least 6 weeks after recovery, Mean delay of 3.7 months between adverse reaction and patch testing	patients with SCAR (SJS/DRESS), 20 with history of macub-papular exanifhema 15 with DRESS 10 with SLS 7 with maculinema 3 with multiform erythema 3 with photodermatosis 2 with fixed eruption 1 with late urscaria	Patients: 58 females, 3 males, mean age: 48.6 years	mean age: 48.6 years, 90.7 % were women.	patients with SCAR (DRESS, SJS)	European Environmental Contact Dermatitis Research Group	positive patch test reaction on 48 and/or 72 h.	Sensitivity of patch test in all NIHR: 37 %; Specificity of patch test in all NIHR: 100 % Positive predictive value: 100 % Negative predictive value: 20 % Sensitivity of patch test in SCAR: 53.5 %	n/s	aromatic anticonvulsants > antitiotics > NSAID, Suffonasmides	nla	nla	nila	n/a	none	Patch test may be an useful and safe diagnostic method in assessing the drug invoked in Nitrik particularly in SCAR, but low sensitivity	Inclusion and exclusion criteria specified. Control group not specified. Force of patch test reactions (Reaktionsstative) not mensioned. No blinding		3b	

Wolkenstein et al. 1996	n/s	One center, Department of Dermatology, Höpital Henri- Mondor, Crébel, France	To study patch testing in severe ADRs (SLISTER) and ADRS (SLISTER) characous ADRs resultaneous ADRs resulting in hospitalization)	one center study, exploratory cohort with good reference standard	History of severe CADR, scoring system of likelyhood for each drug at occurence of rash	patch test	48 h	back	n/s	Patients with experienced CADRs	59, 20 control subjects (hoalthy volunteers)	mean age 49 (+/- 15), age 23-76 years, 30 females, 29 males	Patients with experienced CADRs	ICDRG	n/s	Proportion of relevant positive tests significantly higher in AGEP. The proportion of ambibotics among the culprit drugs was significantly lower in SLB/TEN than in AGEP. The proportion of NSAID among the culprit drugs was significantly was significantly support the culprit drugs was significantly the culprit drugs was significantly higher in SLB/TEN than in AGEP.	n/s	Determination of outpirt drug. SUSTEN (m=2): anticonoliants n=7, MSAR nni n=7, MSAR nni n=1, MSAR nni n=1, MSAR nni n=1, ms n	nla	nla	nla	n/a	nis	Paton Issering has a weak sensitivity in SUSTIFENZ Patch Issering seems to be sufficient to sering seems to be useful personal to the SUSTIFENZ Patch Issering seems to be useful personal to the cutamous ADRs such a NGEPA Common to the Continuous ADRs such a NGEPA Common to the cutamous ADRs such testing in SUSTIEN, AGEP or other cutamous ADRs could be livited not to the clinical type of emption, but to the different spectrum of a further spectrum of the sufficient spectrum or sufficient spectrum of the sufficient spectrum o	Small sample size. Exclusion criteria not specified (e.g. prior therapy with immunosuppress ants, phototherapy, topical/systemic corticosteroids etc.); no blinding		26	
Barbaud et al. 1998	The work was supported in part by grants from the Clinical Research Commission of the University Hospital of Nancy and the French Minister of Education and Research. Competing interests not stated.	One center study, University Hospital Nancy, France	The use of skin testing in the investigation of cutaneous adverse drug reactions	one center study, exploratory cohort with good reference standard	Clinical feature of the CADR documented at time of drug rash	Patch test, Prick- test, IDT	48 h	upper back	6 weeks after onset of CADR	Patients with delayed drug eruptions	72 patients	Mean age 52.3 years, SD 21.4 years; 24 men, 48 women	delayed drug eruptions	ICDRG	n/s	Positive results were obtained in 43 % (((photo-)patch), 24 % (prick), 67 % (IDT).	n/s	nla	nla	n/a	nla	nn	nls	define the value of the relatively safe drug skin tests in order to avoid, whenever possible, drug challenges. Drug patch test results depend on: clinical feature (especially in T- cel-mediated	Inclusion criteria defined; Statistical analysis; Control subjects		26	
Brockow et al. 2009	rela	European malkedrin st.May. Minchen German ry. Rome and Tronantials, Grazilvatria. Brazilvatria. Rincyllatria. Almoylfrance L. Veronattaly, Combra Phortuga Benri Sattantanda Sectional Phortugal Montpelled France. Catol Norway	To determine the specificity and sensitivity of a family of a fami	Prospective European and supportative apportative, cohort with good reference standard	History of any special department of any special department of the counted unity encounted unity encounted unity encounted unity of the counted unity of the	Skin prick test, Intradermal test (IDT), Patch test (PT)	palch test: 48 h	back	minimum disity of 1 week and rinedam week and rinedam and the rine CAM-induced hypersensitivity	patients with reported previous hypersensitivity reactions after CM exposure	220, 82 control patients	Median age at the time of the diagnostic testing 54 years (age range 12- simmedate group and 58 years (age range 12- 50 years) in non- entity of the second of the diagnostic second of the males, 57	hypersensitivity reactions to locinisted confust media	ESCD	nis	Patch tasks seen conducted in 79 patients with non-internedate 2 patients with non-internedate 2 patients with non-internedate 2 patients with non-internedate 2 patients and	nía	nla	nia	nla	n/a	n/a	nta	Althoration N of Physics and P	Recruitment bias possible (missing patients with milder reactions). No provication—5 skin lest sensibly current sensibly curr	Control group (71 news subjects, 11 subjects, 11 subjects sub had to blerated to blerated on the subject sub- tolerated by the subject sub- predictive value has yet to be determined	25	
Brockow et al. 2005	rds.	Merature review	Clinical and diagnosis of solid control of solid con	expert opinion based on the state of the sta	nia	Skin prick text, letra de mai lest, Parkin hext	patch test: 48 h	back	nia	nia	ola	n/a	hypersenaltivity reactions to iodinated contrast media	nis	nds	via	nia	rila	nia	nia	nda	ovla	nla	Specify and sensitivity of sin society in any consisting in any consistency of the second of the sensitivity	nia	nia	5	
Kleinhans et al. 2002	n/s	One centre study, University Hospital Frankfurt	to evaluate tolerability of Celeccoib in NSAID- serative patients using patch test, scartisets and oral provocation	consecutive patients, explorat ory cohort with good reference standard	single blind placebo controlled oral provocation test	Patch test with homogenized Celebrex undlated (?), 5% and 10% in pet and oral provocation	48 h	n/s, presumably back	n/s	patients with history of NSAID sensitivity (symptoms within 6 h after ingestion and other compounds of the drug subsequently tolerated)	14	6 males, 8 females, age 18- 72 years	presumed NSAID sensitivity	International Contact Dermatitis Research Group (IC- DRG)	non irritant patel test concentration or Celebrex	Patch test with homogenized Celebers: 8 of 10 patients + at D2 with decrescendo between D2 and 50 patients without NSAID-hypersensitivity similar reactions in patch test.	Celebrex 5% and 10% caused no reaction in any patient. All 14 patients tolerated Celebrex in oral provocation	nla	nla	nla	nla	scratch tests with homogenzized Celebrex Celebrex unegative, as was oral provocation	nis	When performing patch tests with Celebres, final concentration of about 10 % homenized. Celebres in pertolatum should be used.	Small sample size; Exclusion criteria not defined; No blinding	it is not clear whether nonimitant skin test concernations are able to detect sensitization to COX 2 Inhibitors	2b	

Barbaud et al. 2001	nis	guideline	To give guidance for diagnostic procedures in the diagnostic of cutaneacus adverse drug reactions	and expert	n/a	Skin prick test, Intradermal test, Patch test, in vitro tests (specifie, CAST, LTT, Elispot)	minutes, 48h,	upper back, in FDE also previous site of drug eruption	6 weeks to 6 months	Patients with cutaneaous adverse drug reactions	n/a	n/a	n/a	n/a	nla	n/a	nla	nła	n/a	nla	nla	n/a	nda	The results of drug skin lests also depend on the clinical features of the clinical features of the CADR. The use of appropriate control patients is necessary to avoid safe-positive results. To determine the sentitivity and specificity of drug skin lests in investigating CADR, it is necessary to organize using the same using the same using the same using the same guidelines	n/a	n/a	5	
Johansen et al. 2015	individually stated for each author	guideline	To give guidance for diagnostic patch testing-recommendations on best practice including the diagnosis of drug eruptions	merature review	nla	PT, ROAT, Semi- open test, Open test, Photo-PT	and around D7	Upper back (same as for the investigation of allergic contact dermatilis, except for fixed drug eruption: additional lesional patch testing is advised	at least 4-@weeks after complete resolution of the CADR	Patients with cutaneaous adverse drug reactions	n/a	n/a	n/a	nla	n/a	n/a	nla	nla	n/a	nla	nla	n/a	rota	Patch testing is a safe procedure, even in palients with severe CADRs, apart from exceptional cases of need-value of the CADR	n/a	n/a	5	
Brockow et al. 2015	ns	guideline	To give guidence for dispressic procedure in the dispressic procedure of the dispressic procedure in the dispressic procedure in the dispressic procedure in the dispressic procedure in the dispression of	literature review and expert consens	nia	Skin prick test, Intradermal lest, with cleas (spec. IgE, CAST, LTT, Ellapot)	PT: in cases with reported examiners; 24h or 40h; in case of applyacition anaphyacition reading the exposure of 20 or 30 minutes	nis	n/a	Patients with drug allergy	n/a	nia	nia	nia	nía	n/a	nla	nla	nia	nia	nia	n/a	nia	Although drug hypersonality cannot be relably ruled out even by spelying all available test me- tion bett me- tion to the control of the better risk aussesment easier.	n/a	n/a	5	

subgroup/ study population total number of patients mean not stated not applicable male /female

		Study characterist	ica .					Metrods										Results							Critical	Appraisal of Study			
First Author	Sources of funding and	Setting	Aims and	Questions	Study Design	Reference	Diagnostic test(s)	Duration of	Application site	Investigator(s) and	Inclusion	Control group	Patients	Patients [age (mean/rance):	Grading/Classif ication/Strengt	Definition of	Results	Statistics	Accuracy	Reproducibility	Cus-Off	Comparison of two or more	Adverse effects	Authors'	Author conclusion	Internal validity	external	Dyldence level	Other/ Addendum
year	competing interests	setting	Objectives	addressed	Study Lesign	standard test	evaluated	esposition	Application see	assessor(s) training	criteria	Control group	included [n]	gender (MF)]	h of reaction	outcome	HEELES	SEMERICA	Accuracy	Keproduciosty	determination	tests	Adverse effects	conclusion	Author conclusion	internal validity	validity	(Oxford)	(Optional)
Rojagopalan 1997	nis	Windon-Salem USA	To study the costs associated with diagnosts and treatment of suspected allergic contact dermatitis and the benefits of diagnosis with and without patch testing.		cohort study	nta	patch testing	nik	edis		espected contact allergy	not patch tested	567	mean age: 45,5 formule: 71%	nis	costs of disease and quality of life	There was significantly better improvement in each of the OSQs, does not be the compared with non-patch-tested subjects.	two-warrpin t-lead	mbs	nha	nts	nta	nta		Patch testing helps to diagnose the etiology of contact demands and trast the disease before it becomes chanic, thus reducing resources chanic, thus reducing resources patient quality of the considerably.	differences in the methods used for diagnosis might have influenced the outcome and were not controlled, reasons why patients were patch tested or not are not transparent	proven, that the	IV	
Rujugopalan 1998	nis	Winston-Salem Wilmington Louiseville, USA	patients		cohort study	nta	patch leating	nis	nis		especied contact allergy	not patch levied	567	muan age: 45,5 formale: 71%	als	costs of disease in correlation to severity	Carly confirmation of diagnosis helped reduce the prediagnosis costs of treatment. The greatest quality of life benefits from patch testing, occurred testing, occurred to subjects with recurrent or chronic ACO.	two-waveple t-lead	mba	mba	oh	sin	nte		Patch testing is most cost- effective and reduces the cost of therapy is patients with severe ACD	differences in the methods used for diagnosis might have influenced the outcome with the culcome with controlled, reasons why patients were patch tested or not are not transparent	It can not be proven, that the study groups are representative for the general population	īV	
Plany 2009	nis	Harcover, Germany	To analyse positive patch sections to metals used in deniusly tagether with clinical symptoms and possible relevance to dental fillings.		case series.	nta	patch testing	405	back		suspected contact allergy to dental metals	nts	205	n/a	ets.	patch feet reaction to dental metals	14 (7%) of 206 patients had a clinically relevant consact allergy with conditions of the oral mucosa jn = 7 with lichen planus and n = 7 with consulting and positive patch text reactions to dental metals containing the suspected allergee.	n/a	nis	nin	nts	eta.	nta		Clinically relevant contact allegies to dental netable are infraguence. Patch best reactions may be of clinical significance in association with storeation wi	nta	the population shadded may not be representative for the general population	IV.	
Schalock 2011	n/a	Boston Circulard Son Francisco, USA Copenhagen, Denmak Slockholm Maland, Sweden	To review the evidence in regarding evaluation body, expected by patch and yrephocyte transferention satis, for hyperamental by the patch of the pat		systematic network case network and case series sepert opinion	eta	poich lasting symphocyte transformation test	nda	eta		eda	eth.	nis	nth	rita	eda	sta	n/a	eda	eda	eth.	rós	rós		Paich and evaluation in the gold issended for the gold issended for hypersensitivity, allhadin to result may be askycen. Repareting participant sealing any be askycen for the gold in the sealing participant sealing and participant sealing and participant sealing and participant sealing an experience of the participant sealing an experience of the participant sealing a subset of patients with matching the participant sealing, a subset of patients with matching participant sealing, a subset of patients with matching participant sealing, a subset of patients with matching participant sealing, a subset of patients and hypersensitivity may explaint; canadions to registerize of matching in patients.	eta	sta	īV	
Thomas 2015	n/a	Munich Götingen Bochum Heideberg Essen Halle Freudenberg Estengen, Gennany	To state the position of the CIKG regarding the use of metal alloy discs for patch testing in suspected intelerance to metal implants		systematic review of case reports and case series sepert opinion	nta	patch testing	nia	nta		nta	nia	nia	nia	nia	nta	nta	nta	nia	nta	nia	nia	nia		Patch testing with metal alloy discs can not be recommended	n/a	nta	2	
van der Valk 2003	n/s	Mijmegen, The Netherlands Gent, Belgium Groningen, The Netherlands	To review the criteria for evidence based patch testing		expert opinion and case series	nta	patch testing	nh	nis		nte	nia	nia	nia	nta	nla	n/a	n/a	nts	mia	nia	nia	nia		Patch testing is safe and cost-effective if patients are selected properly. Random patch testing should be discouraged because randomly performed tests are bandy informative.	nia	n/a	IV.	

First Author/	Sources of funding and competing interests	Study characterist	Ains and	Questions		Reference	Diagnostic test(s)	Duration of	Methods		Time interval and treatment(s) administered between the	Investigator(x) and assessor(x)	Inclusion criteria	Parisens included (e)	Patients (age (mean/range); gender (MF))	presumed Discress	Grading/Classifi cation/Strength of castrion	Definition of	Results I (overall positive reactions)	Results II (reactions with different exposure times)	Results 8(3 most frequently reported substances?)			Curoff	Comparison of two or more		Authors'	Author	official Approximat of Sta	ally	Evidence level (Oxford)	Other/ el Addendurs (Optional)
year Branch 1964	innere una	Setting 11 centers of the information Network of Departments of Demantiogy (MCN), Germany	To determine the efficiency and reproducibility of patch testin to identify factors of the entire testing these features.	addressed	Study Design prospective cohol	attandard text	**************************************	24n (1=647), 48n (628)	Application site	5. D10 (24/48/n) 2. D0 (72h)	nia nia	training	petients with an indication for patch twising	included [s]	gender (MFS)) 407/256	Diagnosis	of reaction International Contact Demnatiks Research Group and German Contact Demnatiks Research Group	Number of questionable (7) reading (comparison 24th s. 4th exposure time)		Significantly	substances (f)	Accuracy	Reproducibility	determination.	nia	Adverse effects not reported	condusion	Since no date on clinical neiswance were obtained in this study, no firm canclusion can be drawn with segard to advantages or disadvantages of the different exposure times	no binding, only 10 allegens to the deplement occurrent time.	essemal validity	(Oxford)	(Optional)
		18 centers of the information Violence of Dispartments of Dismattalogy (MDN), Germany	To use the reaction index (RI) as a tool to analyze the dependency of patch test results on characteristics of patients and on patch test meeting and on patch test results on the control of the control		retrospective analysis of patch test data from the database of the VMK (15.553		13 European standard series allegens showing positive reactions most frequently	24h (7 centers), 48h (11 centers, 64% of patrios		5. 010/2/24/48/inj 2. 00 (72h) 3. 04 (88h, "Same@med")			patients tested with the standard series	15.553 sationts	36. 2% male, 37.2% younger than 30 years, 20.5% older than 30 years.		International Contact Demandile Research Group and German Contact Demandile Research Group	Pil at different reading time points. Rhr (a-q-1)-/ [a-q-1]-/ [a-q		Consideratly higher RI (i.e. mare intending or constitution) of constitutions of the patients with spatich seats attached for 5 day as compared to 2 days (p=0.01)								Allergen exposure for 1 day instead of 2 days should be considered	no blinding, no			
Snech 1965 Goh 1994	ols.		to investigate sharber 1-day allergen occlusion could elicit positive patch test neactions reliably.		patients) prospective shad; (15 patients)	nia	the clinic's standard series allergens	John versus diffi	both scapular areas of the back (two sets of the standard series)		nia		patients with at least one positive patch test seactions to the standard series 1 year ago	S palents	es years	204	nis ("standard method")	concordance rates at D4 rauding (wactions at least +) (comparison 24h vs. 48h occlusion)	43 positive patch	27142 (80%) neactions concertant d mactions positive only after 48% occlusion, 2 neactions positive only after 24% occlusion.	nia	nia.	200	cia.	nia.	not reported		"our study should that we could patch test patch test patch test patch test patch test occusion to the same concentrations as those used for 2-day occusion, with a satisfactory concordance rate"	no binding, amail n, diacordance might be due to poor special bed to be due to poor pack tests (self-right comparisons)		10	
Kalimo 1986 (Handesche)	ole	Department of Dermatslogy, Turks, Fritand	comparative study (occlusion sine 280 vs. 48 b)		prospective study	e min	11 allergens of the ICORG attendard series is displicate	Det and 46th for each allengen	back	in all but 3 cases at least twice (decide test reading 72 or 96b)	cia		min	390 gallieras	min	min	nik	Concordant / discontant allegic / initiate sallegic / initiate sal	Positive sections: Citythems plus industrians or papales / westless: 1999 sections or papales / westless: 1999 sections inflant seations inflant seations inflant seations or pursuant or toliculate: 55 seations.	Allergic reactions on the concordant reactions, or 10 (20%) Gloomfant reactions (or 20 orly after 4th cockusion, or 11 orly after 2th cockusion) infraor reactions: or 12 (25%) Concordant reactions; or 15 (50%) Gloomfant reactions; or 15 orly after 2th cockusion; or 15 orly after 2th cockusion, or 2th cockusion, or 2th cockusion, or 2th cockusion, or 2th cockusion; after 2th cockusion;		eda.	nia	esta	min	not reported		Allergic and inflant reactions were more store to the second of the seco	No blinding, small is, no diagnosis, no inclusion / section / no inclusion / no inflant reactions were only seconds of they were seen at 72th sec		26	
Skog 1979	0000	Dermatslogy Department, Slockholm, Sleveden	Comparison between 24- and 48-hour exposure time in patch besting		prospective cohort	nia	"the test substances and concentrations recommended to the ECRG" in duplicate	24kiin	tack	5. 55 min after removal (2448h) 2. 24h after removal (4872h)	eda		min	ein.	elis	min	International Contact Demastia Research Group	Concordant / discordant / discordant / discordant / exactions : At least + neactions (arythman, inflatation) at least reading reading (companison 5/81-48m) occlusion)	34h occlusion: 3 48h occlusion: 3	occlusion + / 48h occlusion - 6 substances 24h occlusion - / 48h occlusion +)	discordant allergent: 2x form aldehydie	mb	ata	nia	min	not reported		The two methods can give different results	no blinding, sample size urannown, no inclusion/reacturio inclusion/reacturio inclusion for patch text not gleen, streamfestly of texts reactions, final mading site, without reactions, final mading site, editi occlusion at 72th.		30-	
Line 1996	German Federal Malesty of and Technology subgroups in and Technology subgroups in the control of	17 centers of the shumation (little shumation (little shumation (little shumation of (little)) centers usely apopulation of outliers the	To passes the secondly of fine self-units of the self-units of the self-units of the self-units of the self-units friend self-units friend self-units of the		estrospective analysis of participates has class from the classical of the participate of the participates of the participates of the participates of the participates of the participates of the participates of the participates of the participates of the participates of the participates of the participates of the participates of the participates	nin	standard described described selena-bens 25-56/56/50 patients seare attacked series	elin (sudgroup 20th 207% of annique and	ah	1. Cú (dín) 2. Cú (dín) 3. Cú (dín) 6. Cú (dín)	cia		patients who had at least one of the control of the	9846 palama	an a	els.	Reconstitional Contact Coverable Research Group	Number of cascional of the decision of the decision of the macrime of the macrime positive of the control of the control of control of c	Reactions positive either or 02 and for 02: 30.699	companions reactions are reactions as a consistent of the reactions position on CD, register on CD, regi		nin	nik	pin	ela:	act reported		Shorter always on a support of the support of	no bishding, comparison of 24se allow man mains alm of study, no machanison of machanison of their machanison of their			4

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First Author/ year	Sources of funding and competing interests	Setting	Ains and Objectives	Questions addressed	Study Design	Reference standard test	Diagnostic test(s) evaluated	Duration of exposure	Application site		and treatment(s) administered between the	Investigator(x) and assessor(x) training	Inclusion criteria	Parisets included [n]	Patients (age (mean/range); gender (MF))	presumed Diagnosis	Grading/Classifi cation/Strength of reaction	Definition of outcome	Results I (visus reading)	Results II (flowmetry)	Accuracy	Reproducibility	Cur-Off determination	Comparison of two or more tests	Adverse effects	Authors' conclusion	Author conclusion	internal validity	external validity	Evidence level (Outord)	Other/ Addendurs (Oprional)
Nan-Strien 1994	ols	University Hospital Leiden, The Netherlands	To establish the seption of intra- segional variations in response to allogen on the back.		prospective colori	nia	The altergen to which the patient had a positive neaction on noutine patch test was applied in duplicate	t 2 days	1. regio ecapularis 2. regio hambalis of the back	02	ela		patients who had a ++ patich test insponse on routine patich testing	21 patients	3754, aged 17-70 yrs	en.	International Contact Dermatific Research Group and German Contact Dermatific Research Group	Congarison of 1. visual mading 2. taser Doppler Flowmatry of both test albes (Student Heat)	visual scores between both	Significant difference in doppier flowmetry with attroper responses on upper back	ela	ala	on.	ela	not reported		Symmetical abus (eff venus should be shulled	no blinding, low patient number, differences in inflammatory response-due to enhanced pressure-of the text patches could not be excluded; reading only at CO		lo.	
Simoneti 1998	09.	University Hospital Modern Salv	To assess if positive responses to responses to relative suffate arministing oaking to contingent problems, referring to patich text also patich text association of variations in skin resolidation.		prospective cohort of consecutive patients undergoing paticit sects	a a	2 nickel preparations (nickel suither 5h par provided by Hermal and Firms Company) applied on 2 different silves of hosting the test was repeated with cross application of alternations	2 days	upper left side of back two right side of the back	1. alter 75n 2. alter 98n	nia		patients undergoing noulles patch tests	3040 patients, 30 of these with cross application application and the desired patients of the second patients of t	1117/1923, aged	Allergic contact dermatils	International Contact Demnatifis Research Group and German Contact Cennatifis Research Group	congarison of visual readings to both test sides	the same number of positive reactions was observed when the patch set sile had chanced		nia.			nia.	not woorled		responses in relation to	no blinding, occlusion for 3 D, reading only at D3, isse number of patients undergoing cross allerges		io.	
Lindelof 1992	poles	Kardinaka Hospital Stockholm, Sweden	To investigate regional waristions of patch test response in trickel-sensitive patients.		prospective cohort	nis	nickelpatch from the TRUE Yest series on 6 different areas (hexaplication)	2 days	1. chin 2. neck 2. back 4. upper am 5. thigh 6. palm	Da	pila		patients who had ++ or +++ patch text-reactions to nickel prior to the study	24 patients	1 mulio, 23 Semalio	Allengic contact dematiks	0-3 with intermediate half steps	Visual reading: Comparison of mean skin response in disperse patch test siles.	Patich test neachility on the back was significantly higher than on the palm. Decreasing neachility 1, chis 2 neck 3, back 4 upper arm 5, thigh 6, palm	min	nia	nia	nia	pla	not reported		performed on the	no blinding, reading only at D3, low number of patients		30	
Marron 1996	nin	University of University of University	To compare the discount of varying the quartity, does and application also of the artispen		prospective colori	min	Nickel containing coins on-different alless of the back (nr24) 2. Datation series of Nickel sutters (5 concentrations) on-back and fision surface (nr15) 2.5 mg Nickel along the fazers (nr45).	2 days	see-dagnostic beds evaluated	02	nia		nickel sensitive	sae diagnostic tests evolusied	nin .	nickel sensitivity	International Contact Demnation Research Group and German Contact Demnation Research Group	Congarison of 1 visual readings 2 optherna motor (pr-7)	reactive than upper, 2% pats	2. No significant difference between forwarm and back (explaness make)	nia	nia	nia	nia	not reported		There are variations in machinity in widely separated body she, i.e. back and arm. Provided the quoted artigen Arehicle is above a minimum level; the patch-set method for the accessment of typersensibility in eliably sobust	no blinding, low patient number, reading only at 100		io.	

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	Study o	haracteristics	1		1	I	Methods		There is become								Results							Critical Appro	ainal of Study		
First Author/	Sources of funding and competing interests		Aims and		Reference standard test	Diagnostic test(s) evaluated	Duration of	Application	Time interval and treatment(s) administered between the	Inclusion criteria	Patients included [n]	Patients (age (mean/range) ; gender (M/F)]	presumed	Grading/Class ification/Stren gth of	Definition of	Results I (overall positive	Results II (reactions at different time	Results II (3 most frequently reported substances?)		Reproducibilit Cut-Off	Comparison of two or ion more tests	Adverse effects	Author	Internal validity	external E	vidence A	Other/ Addendum
year	interests	Setting	Objectives To study the frequency of positive patch	Study Design	standard test	evaluated	exposition	ste	tests	critoria	included [n]	(869)]	Diagnosis	reaction	outcome	reactions)	points)	substances?)	Accuracy	y determinat	on more tests	effects	conclusion	walldity	validity le	rvel (Oxford) [Optional)
	supported by grant from the Finnish Allergy	a 8 Finnish	frequency of positive patch test reactions to MI, and its relevance and relation to MCIMI sensitivity, in Finland	clinical provocation study (patients	ROAT b.i.d. (up to 14 days) on forearm with lotion with 100 ppm MI	patch test with methylisothiszo linone (MI) 0.03 and 0.1%		not stated (presumably back, as according to (CDRG		patients with a previous pos.			Contact allergy to MI leading to allergic contact dermatitis of	International Contact Dermatitis Research Group (IC	positive patch				10 pos. PT with pos. ROAT					controlled (vehicle control application container) and	nesults can be transferred to patients meeting the inclusion		
Ackermann et al. 2011	Allergy Foundation	dermatology departments	sensitivity, in Finland	study (patients only)	with lotion with 100 ppm MI	0.03 and 0.1% aq.	2 days	(CDRG guidelinex)	PT before ROAT	previous pos. PT reaction to MI in 2008	10 patients	not given	dermatitis of the forearm	Group (IC DRG)	positive patch text D2 or D4 or D5	10 of 10 PT pos.	not stated	not applicable		not applicable on applicab	le see above	none reported	none of relevance here	patient-blinded	criteria n	ot classifiable	
						patch test with isosugenol													16 pos. PT with pos. ROAT, 8 pos. PT with neg.						an isoeugenol allergic individual reacts in a ROAT		
Anderson et al	supported by the European Commission (BMH4-CT96	n 5 hospital departments of Dermatology	to describe the time- concentration relationship for	clinical provocation study ("case-	ROAT b.i.d. on forearm with 0.2 and 0.05% isoeugenol in	isoeugenol (1% in case of previous *** reaction, else 2% ethanol w/v, with			sim d'annous	isoeugenoi- sensitive	27 (3 later excluded due to neg. PT), 7	Mean age 46, SD 11; 4 male,	Contact allergy to isoeugenol leading to allergic contact dermatitis of the forearm	not reported (presumbably	nositive netrh	24 pos. of 27,	pos. to 0.0005 to 2% isosugenol in		16 pos. PT with pos. RQAT, 8 pos. PT with nep. RQAT, 7 (or 10, with 3 excluded patients) nep. PT with nep. RQAT				none of	controlled (vehicle control dropper bottle) and double-	the time until an isoeugenol allergic individual reacts in a ROAT depends on the individual senativity as well as the exposure concentrations 2		
2001	0877)	(Europe)	elicitation	control")	ethanol	dilution series)	45 h	back	simultaneous start of tests	patients "patients, who shared concerns with	controls	23 female	the forearm	(CDRG)	positive patch test D3 or D7	7 controls reg.	ethanol	not applicable	ROAT	not applicable not applicab	le see above	none reported	relevance here	blinded	concentrations 2	b	
			among others, "to determine the usefulness of a diagnostic protocol involving patch			patch test with					247 consecutive, 198 with informed consent included	Mean age 27.9, SD +- 12.42; 101 male, 97	adverse reaction(s) to local	International Contact Dermuttis Research Group (IC					1 pas. PT with pas. i.d. challenge, 71 neg. PT with neg. l.d.				*PT screening can predict delayed-type		results can be transferred to patients meeting the		
Autarita et al. 2000	not stated	Napoli, Italy	involving patch testing"	prospective cohort of patients	Intradermal challenge with mepivacaine	mepivacaine solution	45 h	"healthy skin"	not applicable	administration of Las*	consent included	male, 97 female	local anaesthetics	Group (IC DRG)	positive patch test D2 or D3 or D4	1/72	not stated	not applicable	neg. Ld. challenge	not applicable not applicab	le see above	none reported	delayed-type reactions'	no blinding	inclusion criteria 2	b	
	EU Commission, Biomed-2, Contract no.		to investigate the significance of																								
	EU Commission, Biomed-2, Contract no. BMH4-CT96- 0877; Sweda Foundation for Health Cane Sciences and Allergy Research; Danish Research	ih or	significance of isosugenol in deodorants for the development o	e	Anillary ROAT b.i.d. with roll- on deodorants without and	patch test with				"dente- tits patients who previously had been showed to									10 mm 87								
	Allergy Research; Danish Research	5 hospital departments of	sollary dermatitis when used by people with and without contact allergy	clinical provocation study ("case-	with isoeugenol at 3 different concentrations (0.063%,	isoeugenol (1% in case of previous +++ reaction, else 2% ethanol w/v, with				hypersensitive to isosugenol	25 patients (13 completed study), 10	Mean age not given, range 34-54; 1 male,	Contact allergy to isoeugenol leading to allergic contact dermatitis of the sxilla	not reported		13 pos. of 23; all 10 controls	pos. to 0.0005 to 2% isosugenol in		10 pos. PT with pos. RQAT, 3 pos. PT with neg. RQAT, 10 neg.					controlled (control deodorant randomly allocated to	results serve to identify a "safe" concentration of isoeugenol in decorants		
Bruze et al. 2001	Councils (9601876)	Dermatology (Europe)	D INDESSELS	study ("case- control")	0.02%, 0.0063%)	w/v, with dilution series)	45 h	back	simultaneous start of tests	on patch testing*	study), 10 controls	34-64; 1 male, 12 female	dermatitis of the axilla	(presumbably ICDRG)	positive patch test D3 or D7	all 10 controls neg.	isosugenol in ethanol	not applicable	PT with neg. ROAT	not applicable not applicab	le see above	none reported	none of relevance here	side) and double-blinded	in decidorants (< 0.0053%) 2	b	
	None / none		to analyse whether subjects with previous pos. PT to CAPB	clinical	ROAT b.i.d. (7 days, partly 14 days) on foream with CAPB containing commercial shower gel 25% aq.	patch test with				"Subjects with			Contact allergy to CAPB leading to	International Contact Dermatitis					0 pos. PT with pos. ROAT, 5						*CAPB- sensitive		
Fartasch et al. 1999	declared (2 co authors from industry)	o- Erlangen, Germany	provocative use tests	provocation study ("case- control")	commercial shower gel 25% aq.	cocamidopropy I betaine (CAPB) 1% aq.	2 days	not stated	PT before ROAT	"Subjects with delayed contact hypersensitivit y to CAPS"	10 patients and 10 controls	adult, no further details given	Contact allergy to CAPB leading to allergic contact dermatits of the forearm	International Contact Dermatitis Research Group (IC DRG)	positive patch test D2 or D3 or D4	5 pos. of 10 patients, 1 pos. of 10 controls	not stated	not applicable	0 pox. PT with pox. ROAT, 5 pox. PT with neg. ROAT, 5 neg. PT with neg. ROAT	not applicable not applicab	le see above	concerning PT: none reported	none of relevance here	no control, no blinding reported	"CAPB- sensitive individuals can use a CAPB- based frase-off product"	4	
			To study the clinical relevance of contact allergy to							patients with a			Contact allergy to						9 pas. PT with				contact allergy		results can be		
Hauksson et al. 2011	None / none declared	Malmö,	formaldehyde detected by 2% formaldehyde but not by 1%	clinical provocation study ("case-	ROAT b.i.d. on forearm with 0.2% selv formaldehyde	patch test with formaldehyde 2% and 1%	not stated (but known to be 48	not stated (but known to be hank)	PT before	patients with a previous pos. PT reaction to 2%, but not to 1%	17 patients, 19 controls (without formaldehyde sitems)	mean age 44.1 years, range 23-64; four male, 14 female	formaldehyde leading to allergic contact dermatitis of the forearm	not reported (presumbably (CDRG)	not stated; known to be "positive at D3 or D7"	17 of 17 patients and 0 of 19 controls	not stated	not senirable	9 pox. PT with pox. ROAT, 8 pox. PT with neg. ROAT, 19 neg. PT with neg. ROAT	noi anniirable noi anniirable	le see shows	room renorded	to formaldehyde 2% may be clinically relevant	controlled (vehicle control) and blinded (colour coderl)	results can be transferred to patients meeting the inclusion criteria 2		
2011	SACREC	JANES AND		Coreco y	ara ii Calcida	2.48013		Jack)	NO.	Distance	ann (g)	Patients: mean	an cream	LLWay	u Di	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100 10000	по време		TO Approace	250 2004	interreporate	- Coran	COMMU	James 2		
	supported by the Aage Ban Foundation	19	to investigate the allergic responses elicited in presensitized individuals		ROAT on forearm with 0.04% MDBNG 1s/day and 0.01% 3s/day,	patch test with MDBGN 0.3%			PT with 0.3%	patients with previous pos.		Patients: mean age 51 years, range 20-53; 2 male, 17 female. Controls: mean age 43 years (range 25-55); 2 male, 10 female.	Contact allergy to MDBGN	ICDRG (according to textbook chapter "Contact					14 pos. PT with pos. RCAT, 5 pos. PT with neg. RCAT, norse neg. PT with pos. RCAT, 12 neg. PT with neg. RCAT					controlled (vehicle control), randomised, double-blinded (concerning ROAT neactions). PT:	results can be transferred to		
Jensen et al. 2005	supported by the Aage Ban Foundation and the A. J. Anderse og Hustrus Foundation	n Odense, Denmark	individuals when exposed to a specific amount of allergen	clinical provocation study ("case- control")	MDBNG 1s/day and 0.01% 3s/day, resp.	patch test with MDBGN 0.3% pet; dilution series with MDBGN in eth/sq.	2 days	back	PT with 0.3% MDBGN pet. (inclusion criterion) prior to ROAT	previous pos. PT reaction to 0.3% MDBGN, confirmed upon re-PT-ing	19 patients, 12 controls	age 43 years (range 28-55); 2 male, 10 female.	to MDBGN leading to allergic contact dermatitis of the forearm	chapter "Contact Dermatits" 2001 edition)	positive patch test D3 or D7	14 pos. of 19 patients, 0 pos. of 12 controls	none relevant	not applicable	neg. PT with pos. ROAT, 12 neg. PT with neg. ROAT	not applicable not applicab	le see above	none reported	none of relevance here	(concerning ROAT reactions). PT: none reported	transferred to patients meeting the inclusion criteria 2	b	
	Danish EPA, Chemicals group under the Nordic																										
	Chemicals group under the Nordic Council, Danish Hospital Foundation fo Medical Research, Prof. Niets Hjoth Foundation	or .	to provide guarditative		ROAT bild on forearm with 0.2%					Previous positive PT to		Patients: age range 18-69; 2 male, 17	Contact allergy to isosugend			19 patients			12 pos. PT with pos. RCAT, 7 pos. PT with neg. RCAT, none neg. PT with pos. RCAT, 20 neg. PT with neg. RCAT					controlled (vehicle control), randomised, double-blinded (concerning ROAT and PT	results can be transferred to		
Johansen et al. 1996	Research, Prof. Niels Hjorth Foundation	Copenhagen and Odense, Denmark	to provide quantitative data on the eliciting capacity of isosugenol	clinical provocation study ("case- control")	forearn with 0.2% isoeugenol in ethanol, after 14 days also on neck	patch test with isoeugenol (2% pet., with dilution series)	2 days	back	not stated	Previous positive PT to fragrance mix I with positive or doubtful PT to isoeugenol	19 patients, 20 controls	Patients: age range 18-09; 2 male, 17 female. Controls: mean age 43; 20 female	Contact allergy to isoeugenol leading to allergic contact dermatitis of the forearm	ICDRG (according to Wikinson et al. 1970)	positive patch test D2 or D3 or D7	19 patients pos, 20 controls negative (per definition)	none relevant	not applicable	neg. PT with pos. ROAT, 20 neg. PT with neg. ROAT	not applicable not applicab	le see above	none reported	none of relevance here	double-blinded (concerning ROAT and PT reactions)	nesults can be transferred to patients meeting the inclusion criteris 2	b	
	Supported by Danish EPA	,																									
	Supported by Danish EPA, Nordic Chemicals Group (Nordic Council), EU Consumer Policy Service Danish Hospital Foundation for Medical Research					patch test with													13 pos. PT								
	Policy Service Danish Hospital Foundation fo	e, 2 hospital departments in or Denmark (Copenhagen,	to provide quantitative data on the eliciting capacity of circumsal	clinical provocation study ("case-	ROAT b.i.d. on forearm with 0.1 and 0.8% cinnamal in ethanol	patch test with cinnarnal (2% pet.) and a dilution series; controls tested with fragrance mix!				Previous positive PT to fragrance mix I with positive or doubtful PT to cinnamal	22 patients, 20 healthy	Age mean not given, age range 18-89; 4 male, 18 female	Contact allergy to cinnamal leading to allergic contact dermatitis of the forearm	International Contact Dermatitis Research Group (IC DRG)	positive patch test D3 or D7 (also D2 in one decertment)	18 pos. of 38 (0 pos. of 20 controls, with 1% cinnamal included in FM I (pet.))	pos. to 0.02% (pet. or ethanol) to 2%		13 pos. PT with pos. ROAT, 5 pos. PT with neg. ROAT, 20 neg. PT with neg. ROAT	not applicable (metachronous : 17 of 18 previously PT pox. again				controlled (vehicle control dropper bottle) and patient- blinded	results provide evidence regarding dose- elicitation		
iohansen et al. 1996A	Research	(Copenhagen, Oderse)	capacity of circumsi	study ("case- control")	cinnamal in ethanol	with fragrance mix I	45 h	back	not stated	doubth/PT to cinnamal	controls	male, 18 female	dermatitis of the forearm	Group (IC DRG)	(also D2 in one department)	included in PM I (pet.))	or ethanol) to 2% pet.	not applicable	PT with neg. ROAT 9 pos. PT with pos.	pos. again pos.) not applicab	le see above	none reported	none of relevance here	and patient- blinded	elicitation characteristics 2	b	
	Swedish		to study the		Lm. Injection of	patch test with							Different reactions, e.g. flare-up of previous pos. PT to gold, "todoodermia",						9 pox. PT with pox. provocation, 1 pox. PT with neg. provocation, 1 pox. PT with pox. provocation to					Patient-blinded Lm. injection with GSTM or placebo; none			
Möller et al. 1996	Swedsh Authors and Allergy Association	Malmö, Sweden	to study the clinical reactions to a circulating gold hapten	clinical provocation study	I.m. Injection of 10 mg gold sodium thiomalate	patch test with gold sodium thiosulfate 5% aq.	not stated (but known to be 48 h)	not stated	PT prior to Lm. provocation	Previous positive PT to GSTS	20 patients, no controls	Age range 20- 79, 1 male, 19 female	PT to gold, "toxicodermia", fever	not reported (presumbably (CDRG)	positive patch test D7	20/20 pos. (Inclusion criterion)	none relevant	not applicable	pos. provocation to placebo	not applicable not applicab	le see above	none reported	none of relevance here	with GSTM or placebo; none concerning PT	unclear	4	
	AS is a consultant for																										
	consultant for the fragrance industry. The study has bee funded by international Flavor & Fragrances inc.	15 en departments of the IVDK network and	To identify the concentration of HICC sufficiently low		NOAT b.i.d. on forearm with increasing doses of HICC (0.005, 0.01, 0.1, 0.5 and 2.5% in ethanol and cream, resp.)					patients with at least a +	67 patients, 3 excluded, i.e.		Contact allergy to HICC	International Contact	Not stated; according to DGK guidelinex: positive patch test at D2, D3 or occasionally				45 pos. PT with pos. ROAT, 3 pos. PT with neg. ROAT, 3 neg.					controlled	HICC use		
Schnuch et al. 2009	Flavor & Fragrances Inc., Hilversum/NL	Hospital del Mar, Barcelona, Spain	concentration of HICC sufficiently low not elicit patients with proven sensitization	clinical provocation study	0.1, 0.5 and 2.5% in ethanol and cream, resp.)	patch test with 2.5 and 5% HICC	not stated	not stated	PT after end of ROAT	patients with at least a * reaction at D3 to HICC at prior routine PT-ing	67 patients, 3 excluded, i.e. 64 patients with ROAT, 58 of these PT-ed with HSCC	Median age 46.5 years, range 18-65; "68% female"	Contact allergy to HICC leading to allergic contact dermatitis of the forearm	Contact Dermutitis Research Group (IC DRG)	positive patch test at D2, D3 or occasionally D4	51 pos. of 58	not stated	not applicable	48 pos. PT with pos. RQAT, 3 pos. PT with neg. RQAT, 3 neg. PT with pos. RQAT, 4 neg. PT with neg. RQAT	not applicable on applicab	le see above	none reported	none of relevance here	controlled (ethanol and cream vehicle control), unblinded	HICC use concentration should be less than 0.009- 0.027% 2	b	
																							Negative drug skin tests do not eliminate				
	no conflicts																						Negative drug akin tests do not eliminate the responsibility of a drug in drug				
	no conflicts stated; fundin by "funds of regional research of University Hospital of Nancy"		To evaluate the negative predictive value of drug with tests	clinical	Oral provocation test with suspected drug (class)	patch test with culprit drug, as individually indicated (details niven)	not stated		provocation	Previous	133 patients, 200 oral provocation	Age not given;	Tolerance of suspected		positive patch				27 of 260 crall provocation				in drug reactions, and must be followed by drug re- administration under hospital surveillance		standardised definition of CADR causality, adequate test methylations on		
Waton et al. 2009	Hospital of Nancy'	Nancy, France	value of drug akin tests	provocation shady	suspected drug (class)	indicated (details given)	(presumably 2 days)	back	provocation test after negative PT	Previous negative PT to culprit drug	provocation tests	Age not given; 49 males, 84 females	suspected drug	not specified	positive patch test 20 min or D2 or D4	all PT negative by inclusion	not stated	not applicable	provocation leats pos. with neg. PT	not applicable not applicab	le see above			not blinded	acequate test methodology in	ot classifiable	\dashv
																							PT-ing (on lesional skin, W.Uter) simple and safe restrict				
			to evaluate the diagnostic value of patch	retrospective chart review of		patch test with culprit drug, as individually indicated, 1 to 20% pet., on non-lesional				patients with FDE due to a									1 pox. PT with pox. history of 52 patients; 51 patients: neg. PT, pox. history, all involving 190				PT-ing (on lesional skin, W.Uter) simple and safe method to confirm drug imputability in fixed drug eruption, mainly when NSAID or multiple drugs		nesults can be transferred to		
Andrade et al. 2011	None / none declared	Coimbra, Portugal	diagnostic value of patch testing in fixed drug eruptions (FDE)	retrospective chart review of 52 patients with FDE tested in 20 years	clinical diagnosis of FDE	indicated, 1 to 20% pet., on non-lesional akin	2 days	not stated	PT after clinical event	patients with FDE due to a variety of drugs, mostly NSAID and antibiotics	52 patients	Age mean 53, SE 17 years; 17 male, 35 female	FDE due to delayed type hypersensitivit y	not reported (presumbably ICDRG)	positive patch test D2 or D3	1 of 52 patients	not stated	piroxicam and tenoxicam	aingie parcres	not applicable on applicab	le see above	none reported	mainly when NSAID or multiple drugs are suspected.	no blinding	nesults can be transferred to patients meeting the inclusion criteria	4	
			"to compare the validity of patient personal history of contact sensitivity to			patch test with the German baseline series										45 of 160			34 pos. PT with pos. history, 12 pos. PT with neg. nistory, 44 neg. PT with				"both false				
Böhm et al. 1997	None / none declared	Bonn,	contact sensitivity to metal alloys with patch test	risinal	History of allergic reactions to metals (no	patch test with the German baseline series (at that time including nickel, cobalt and dichromate)	not state-4	hark	PT after	consecutive patients with hand eczerns (eligible for realth leation)	160 parties	Age not given; 51 male, 109	hand e	not reported (presumbably (CDRG)	positive patch	45 of 160 patients PT pos. to metals (of the baseline	not stated	and sensionable	nistory, 44 neg. PT with pos. history, 70 neg. PT with neg. history	not anoticable	le laurat	none numeric :	positive patch tests and false negative histories are	no Modine	Allergens and interview items not specified, no external	of classification	
1997	uncared	Constituting .	THE REAL PROPERTY.	AND DESIGNATION	Januaria given)	anastrrate)	non atmed		**************************************	own to senting)	row parsents	According	considerations	aseda)	.am. U3	unered)	o. marilio	no sypecable	ring, restory	approvione (not applicab	and 800W	reported	Skin teating	Law own Company	ummer) D		
																							seems to be a useful tool for diagnosis of CM allergy and				
			in deriver																				may play an important role in selection of a				
			to determine the specificity and sensitivity of skin tests in patients who have																22 PT pos. with pos.				previous reactors. The specificity of our skin				
		12 aller~	have experienced both immediate and nonimmediate hyperamultivit v rearriess in		a reported	Patch tests with CM soaked on a filter paper in a 12				Patients with a reported	220 patients	Non-immediate		European Society of Contact Dermettis (on drug testing,					22 PT pos. with pos. history, 57 PT neg, with pos. history, "None of the 82 negative controls had a				seems to be a useful tool for diagnosis of CM allergy and may play and may play and note in selection of a safe product in previous reactors. The specificity of our akin tests is as high as 95–100%, but further shudies are required to establish their		results can be transferred to		
Brockow et al. 2009	not stated	12 allergy departments of the ENDA CM task force members	hyperaenalivit y reactions to codinated contrast media	prospective patient series	a reported previous hypersensitivit y reaction after CM exposure	filter paper in a 12 mm aluminium Finn chamber	45 h	back	not applicable	reported previous hypersensitivit y reaction after CM exposure	220 patients (96 with non- immediate reactions), 71 controls	reactors: 58 years (age range 12–80); 41 male, 57 female	hypersensitivit y reaction after CM exposure	drug teating, Barbaud et al., COD 2001; 45: 321–328	positive patch test D2 or D3	22 of 79	3 pos. D2 only, 10 with additional D3 reactions, 1 Pos. only on D3	not reported	controls had a positive delayed skin fest*	not applicable not applicab	le see above	none reported	establish their negative predictive value.	no blinding	results can be transferred to patients meeting the inclusion criteria	4	
			To compare the diagnosti-]
			accuracy of strip patch tests and patch tests in							Clinical																	
	supported wit test material (BlendermTM surgical tapes	t 1	To compare the diagnostic accuracy of strip patch tests and patch tests in detecting seralizations in patients with auspecid allegic contact dermatitis by using patient thistory as the seference standard.							Clinical suspicion of current or past allergic contact dermatits because of pressenting symplems or referral by another			suspected allergic contact	ICDRG (according to					no absolute						results can be		
Dickel et al. 2000	surgical tapes Clippera) by 3MTM Medica, 3M Deutschland GmbH	7 allergy departments in Gentrary	dermatitis by using patient history as the reference standard.	prospective, investigator- blinded study 750 patients	standardised history of skin intolerance to the 3 allergens considered	Standard Ni, Co and Cr allergen preparations	1 day	back	PT after interview	presenting symptoms or referral by another dematologis ^a	787 included patients	Median age 51, range 18 to 92; 289 male, 498 female	allergic contact dermatitis (due to nickel, chromium or tanolin alcohols)	(according to textbook chapter "Contact Dermuttis" 2001 edition)	positive patch test D3 to D5	Nicket 112/787, chromium 37/787, lanolin alcohola 7/787	further results obtained with the 'strip patch test'	not applicable	no absolute numbers given. See test for Sers., Spec. and PV estimates	not applicable not applicable	le see above	none reported	none of relevance here	no blindina	results can be transferred to patients meeting the inclusion criteria 2		
_			" to estimate			patch test with													27 PT pos with pos. history, 46 PT positive	.,					nesults are probably		
			the frequency of metal allergy in an unselected population of	Cross- sectional , population- based	questionnaire data on previous "metal	patch test with nickel sulfate 5% aq., cobalt chloride 1% aq., potassium dichromate 0.5% red			questionnaire	424 of 575 eligible children in one Norwegian		Children age 7 to 12; 223 male, 201				Nicket 63/424, cobalt 24/424, dichromate			27 PT pos with pos. history, 46 PT positive with reg. history, 52 PT neg. with pos. history, 230 PT neg. with reg. history						results are probably representative of a children/adoles cent population at that time in Norway 2		
Dotterud and Falk 1994	not stated	Tromati, Norway	acnoolchildren	eproemiologica I study	resol reactors"	0.5% pet.	2 days	back	and interview before PT	community	examined	rase, 201 female	none	ICDRG	possive patch test D2	5/424	not stated	not applicable	neg. with neg. history	not applicable not applicab	le see above	none reported	nelevance here	no blinding	m that time in Norway 2	ь	

	EU Commission: QU64-CT-		"Does the FM I identify additional patients with a positive fra-		a reported														33 pos PT with									
Frauch et 2005	1999-01558 Fragrance chemical allergy: a majo environmental and consumer ii. problem in Europe,"		grance history missed by FM 17 is it necessary to add FM 8 to the European standard series?"	prospective cohort of patients	"certain" or "probable" history of fragrance intolerance, vs. a "questionable" or no history	Patch test with baseline series with FM II (2.8%; 14%; 25% pet.)	2 daya	back	PT after interview	Consecutive patients eligible for patch testing		Median age 44, range 13- 56; 62.2% female	suspected allergic contact dermatital	ICDRG (according Freger 1981)	positive patch test D3 or D4	50 of 1701	not stated	not applicable	pos. history, 17 pos. PT with neg. history, 252 neg. PT with pos. history, 1399 neg. PT with neg. history	not applicable	not applicable	see above	none reported	the new FM II detects additional patients sensitive to fragrances missed by FM I	no blinding	nesults can be transferred to patients meeting the inclusion criteria	4	
Proschet 2005	EU Commission: QUA4-CT- 1929-01556 Fingranos chemical allergy: a majo enviconmental and consumer problem in Europe."		"Does the FM I identify additional patients with a positive fragrance history mixed by FM I? In it necessary to necessary to the European standard series?"	prospective cohort of patients	a reported "cartain" or "probable" history of fragrance infolerance, vs. a "questionable" or no history	Patch test with baseline series with FM (0% pd.)	2 daya	back	PT after interview	Consecutive patients eligible for patic heating	1701 patients	Median age 44, range 13- 50; 02.2% formits	auspected allergic contact dermatibal	ICDRG (according to textbook chapter "Confact Dermittis" 2001 editor)	positive patch test D3 or D4	111 of 1701	not stated	not applicable	58 pos PT with pos. history, 32 pos. PT with neg. history, 225 neg. PT with pos. history, 1364 neg. PT with neg. history	not applicable	not applicable	see above	none reported	the number of false-positive reactions is lower with PM ill than with PM	no blinding	results can be transferred to patients meeting the inclusion criteria	4	
Goksel e 2011	Arkara University Commission of Scien- tific Research Project (2006- 08-09- 02749PD)		To evaluate the prevalence of CM hypersensitivit y, and the role of skin testing in its region of agrooms	prospective patient series	of CM was used as the	1,000-, 100- and 10-fold dilutions of the culprit CM in soline	3 days	back	not applicable	y reactions to	24, only 8 with non-immediate reactions Pled	51.8, SD 14.9 years; 6 males,	allergy-like reaction after administration of CM	European Society of Contact Dermatitis (on drug testing, Barbaud et al., COD 2001; 45: 321-328		1 of 8 patients (9 patch tests)	not stated	iomeron: n=1 PT pos.; lobsoot: n=5 PT neg; lodssand: n=2 PT neg;	1 pos. PT with pos. history, 7 neg. PT with pos. history) sur controls (neg. history) but none PTed with iomscon	not applicable	not applicable	see above	none reported	Skin teating with CMs has a high specificity, but its role in diagnosis is limited by a low sensitivity in mild to moderate reactions to Cms	no blinding	nesults can be transferred to patients meeting the inclusion criteria	26	
Johanne 1927 (al	Prof. Niels Hjorth Foundation, Denish Board ot al. of Health and Denish EPA	offices in	"to investigate the relationship between patients" own recognition of akin problems and PT-ing with markers o fragrance sensitiation"	prospective collect series	the use of scented products" as reference	Patch test with baseline series with FM (6% pet.) and Myroxylon pereiras (25% pet.) and also the corresponding TRUE Test(R) allergens	2 dava	back	PT after questionnaire	Consecutive patients eligible for noth heating	925 consecutive patients invited, 884 participated	age range 15 - 60; 271 male, 613 female	alleroic contact	Wikinson et al.	positive patch test D2/3 or D5/7	78 pos. to FM I, 32 pos. to M. pensiss (of 884)	not ataked	not applicable	60 pos. PT with pos. history, 354 neg. PT with pos. history, 18 pos. PT with neg. history, 422 neg. PT with neg. history	noi annicable	not applicable		none reported	" most fragrance mix- positive patients are aware that the use of scented products may cause skin	no blindina	results can be transferred to patients meeting the inclusion orderis	4	

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Total Parties (Parties of Parties		Photo sh	aracteristics		_			Methods									Results					1	Cultival Asset	raisal of Study		ī
Tom the FM Section of the Section o		Sources of funding and competing			Study Design		test(s)	Duration of	and treatment(x) administered between the	Inclusion	Patients included fel	(mean/range) : cender	presumed	ification/Stren gth of	Definition of	(overall positive	Results II (reactions at different time	frequently reported	Accuracy		of two or		Internal	external	Evidence	Other/ Addendus
Rosch et problem in 6 European standard cohort of ingredients of (2.5%; 14%; eligible for 50; 62.2% allergic contact Dermettin* positive patch 51, 1646 reg. 01.000 or 28%	Franch et	QUK4-CT- 1929-01558 Fragrance chemical allergy: a major environmental and consumer		I identify additional patients with a positive fra- grance history missed by FM I? Is it necessary to add FM II to		all single	baseline series with FM II						suspected	(according to textbook chapter "Contact	positive patch				and single ingredients (SI); 5 meg. mix, pos. St; 14			individual constituents is positive in about 50% of cases reacting		transferred to patients meeting the		

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	Study cha	eracteristics	Г				Methods										Results								Critical Appr	raisal of Study		—
First Author/	Sources of funding and competing interests	Setting	Aims and Objectives	Study Design	Reference standard test	Diagnostic test(s) evaluated	Duration of exposition	Application site	Time interval and treatment(x) administered between the tests	Inclusion criteria	Patients included [n]	Patients (age (mean/range) ; gender (M/F)]	presumed Diagnosis	Grading/Class ification/Stren gth of reaction	Definition of outcome	(overall positive	Results II (reactions at different time points)	Results II (3 most frequently reported substances?)	Accuracy	Reproducibility	Cus-Off determination	Comparison of two or more tests	Adverse effects	Author conclusion	Internal validity	external validity	Evidence level (Oxford)	Other/ Addendum (Optional)
Branch et al. 1994; Uter et al. 2002	none reported	11 departments of the DKG (10 German, 1 Austrian)	To determine the efficiency and seproducibility of patch tests*	prospective clinical study	10 PT allergers (see Tab. X) in publication	duplicate synchronous application on the other side of the back	24 h in 647 patients; 48 h in 638 patients	back	not applicable	consecutive patients eligible for patich teating	1285 patients	Age not given; 487 male, 798 Semale	Suspected allergic contact dermatitis	ICDRG (according to Wikinson et al. 1970)	positive PT D3	1857 pox. reactions to 10x1285 single	992 pos. reactions in the 24 h exposure group, 865 pos. reactions in the 48 h exposure group (not significant)	fragrance mix I (187/1285), potassium	not applicable	Cohen's kappa between 0.95 (95% Ct: 0.85- 0.90) for nickel and 0.56 (95% Ct: 0.42-0.71) for formaldehyde	not applicable	see above	none reported	preparations of patch test allergens need to be improved	no blinding (e.g. by permutating randomly the order of allergers in the comparison panel)	results can be transferred to patients meeting the inclusion criteria	4	
Branch et al. 2001	none reported	13 departments of the DKG (not listed)	to assess reproducibility with nickel and potassium dichromate i using the TRUE Test(R) system	prospective clinical study	nickel sulfate 0.2 mg/cm²; potassium dichromate 0.023 mg/cm²	duplicate synchronous application on the other side of the back	2 daya	back	noi applicable	consecutive patients with a history of metal allergy, eligible for patch teating	589 patienta	mean age 35, 146 less than 146 less than 146 males, 523 fernales	Suspected allergic contact dermatitis due to metals (mainly nickel)	DKG (Brehler at al. 1995)	positive PT D3	385 at least one pos. reaction to nickel, 130 at least one pos. reaction to dichromate	no pos. or other reactions at placebo sites	see above	not applicable	Nicket: 385 pos./pos., 202 neg./neg., 3 pos./neg. Dichromate: 118 pos./pos., 2 pos./neg. 10 neg/pos.	not applicable	see above	none reported	" a highly synchronous reproducibility of results can be achieved by using a well- standardised patch test system, especially with nickel sulfate."	random	nesults can be transferred to patients meeting the inclusion criteria	20-	
Lachapelle 1989	none reported	Leuwen, Belgium	to compare reproducibility of the Epiquick (TM) system	prospective clinical study	19 allergers of the Epiquick (TM) PT	duplicate, symmetrical synchronous application on the other side of the back	45 h	back	not applicable	consecutive patients eligible for patch testing	100 consecutive patients	mean age 38, range 13 to 81; 47 males, 53 females	Suspected allergic contact dermatitis	ICDRG	positive PT D3	47/100 patients with at least one pos. PT reaction	not assessed	Nickel (25/100), cobalt chloride (5/100), fragrance mix I (5/100)	not applicable	right left, on the level of patches: 67 pos./pos. 0 pos./neg. 3 neg./pos. 1830 neg./neg.	not applicable	see above	none reported	"good reproducibility rate (95.8%)		results can be transferred to patients meeting the inclusion criteria	40	
Lindelof 1990	none reported	Stockholm, Sweden	"to investigate the reliability of the Firm Chamber (TM) patch test"	prospective clinical study	10 selected PT allengers from the baseline series	duplicate, symmetrical synchronous application on the other side of the back	45 h	back	not applicable	eligible for	220 consecutive patients	no information	Suspected allergic contact dermatitis	ICDRG	positive PT D3	76/220 positive on both sides, 8/220 discordant	not assessed	no information	not applicable	rightNeft, on the level of patches: 76 pos./pos, 5 pos./neg, 3 neg/pos, 2116 neg/neg.	not applicable	see above	none reported	" one must remain aware of the possibility of false positive or false negative PT reactions."		results can be transferred to patients meeting the inclusion criteria	40	
Memon and Friedmann 1996	none reported	Liverpool, UK	to quantify variability of replicate, standardised challenge in rickel-sensitive subjects	prospective clinical study	patch test with 5% nickel sulfate pet, with serial dilutions	duplicate synchronous application on the other side of the back	2 daya	back	not applicable	agraitive	30 volunteers (challenged with PT)	no information	Contact allergy to nickel	ICDRG (according to Wikinson et al. 1970)	positive PT D2		identical reactions in 8 subjects re- challenged after 6 months	not applicable	not applicable	Nickel 5% pet.: 30/30 pos./pos.	not applicable	see above	none reported	"the immune system can give highly reproducible responses when presented with standard eliciting stimus"		results can be transferred to patients meeting the inclusion criteria	40	
Schlessel et al. 2004	scientific grant from brial Allergen GmbH (Graven, Germany)	Feldkirch, Austria	"to delineate comparatively the efficiency and eproducibility of identical test reagents from 2 different commercial sources"	prospective clinical study	30 allengers from European baseline with extension from brial	different	2 days	not reported	not applicable	consecutive patients eligible for patich teating	71 patients (14 other enrolled patients excluded due to angry back or "questionable results")	Age range 15 to 73 years; 27 male, 44 female	Suspected allergic contact dermatitis	DKG (book chapter by Przybila et al. (eds.), 2000	positive PT D4	120 / 4200 patches pos.	not massased	Nickel sulfate (15/71), Myrosylon penetse (771), Fragrance mix I (6/71)	not applicable	On the level of patches: 60 post./pos., 2070 reg./neg., discondant in 3 patients, involving 3 allergens	not applicable	see above	none reported	" patch test preparations from 2 different companies exhibited a high level of reproducibility"		limited precision due to samle size	40	

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Fire Author year	Sources of Sunding and comparing Interests	Betting	Alms and Olipsones	Study Design	Reference standard test	Diagnostis ses(s) evaluated	Duration of expedition	8 	Door range of michelos/phot patch lenk	Includes orderia	4 20	Time partie of leading (days of mension) of parties	Partients Instanted (n)	Patients (ege (meantlenge): gender (MP)	procured Disgress	Greding/Casellica Son/Sassigh of maction	Definition of outcome	Females! (overall positive reactions)	Results II (resultance) different days- day ranges of the mentional cycle)	Results II (changes in sensibility to riskel at different time patron in mendical cycle)	Battelica	Assurany	Reproducted	Cut-Off determination	Comparison of less or more less	Adverse	Author construction	Internal validity	substract validity	Evidence lavel (Cultural)	Other? Addression (Optional)
MiLetand 1991	**	Nessaule, UK	is see adulter objective sharpes in the dose- response sharedwistins occurred following plaths briding with solder distance at different time points of the mentional cycle.	Occasion internetional shally silhed candomination	nia	standed patch belong (Total)	as.	1,0	E successive leaded dilutions of I'lls rected to white soft panells	niskel allergy, regular menebual sycle, no continueptiar pill	- Manager	To days after and T meet before that day		age nin; P	rector atlengy	skin Diskness silvad grade (unspecified)	number of patients with strollar in greater responses prenencitually compared to real syste	nts	MA.	2 patients with much greater responses, presental-sally	nds	nte	nta	n/a	8		Premerabul experiation occurs in some patients. (supported)	very exact or no blooding no randomization, incl. treat, orderta not expectfuel.	study population rail described, time poids investigated may no reflect raid pronounced differences.	×	
Robots 1994	**	Odnose Unisensity Hisspital, Denmark	to investigate the patch text reactedly in noticel allergic sources at different points of the menutical cycle	Dossow intervedural shally althout cardonication	nia	Patch testing (True test)	- 6	upperbank	300 - 0:31 jugicani, 3 placebox	presidually positive field or shring clinical completion of rechet allergy	criscosav	7-10 ± 20-24		median age 32 y (17-05) P	noted atlengy	COPE serving scale	Deschald concentration for studyful reaction	day 7.10 18 day 20-36 20	medan treshold concertration day 7 10: 3 jugitim" day 20:36: 1 jugitim"	11 of 20 some had lines Drechald on days 20-20	Witness set sur led to matched pain p-1.6 (nt)	nta	Na	Nik	N/A	•	We could not demonstrate an increased sensitivity to richal outplate patch lest premendually in 20 richal allergic somes. (exported)	small is no blinding desistion from schedule, resistinged and east orderts not specified.	study population red described in defail, time points inentigated may no refers most pronounced differences.		test contradicts fig. 1, protestly recent up
Tamer 2000	nis.	Ankara Numure Educational and Research Hospital, Talkey	In insedigate whether rethed patch land reactivity was differed during phases of the meanized cycle and whether there was an increase in sensibility to rethel during the prementated cycle in rickel sensible women.	Consour interestional shally without cardomination	nia	Paluk testing (European Standard)	49.72 h	apper bank	15.	rested sensibility, regular mendiculi syste	cranowi	7-10 ± 3034	*	1842 y. P	rickel allergy	stead easing	competition of should score	day 7:10: 29; day 20:26: 27	median coore day 7: 10: ++ day 20:35 ++	Indiabati shanges not described	Williamorth sank sure lead for multiplied patrix on	nia	n/a	n/a	N/a	•	Even Dough the results were not statistically significant, the hyposit assumption of the results around (*) and (*) 270 and (*) and (*) 270 and (*) (*) 270 and (*) (*) (*) 370 and (*) (*) (*) 370 and (*) (*) (*) 370 and (*) (*) 370 and (*) (*) 370 and (*) 370 and (*) (*) 370 and (*	amali n; no lithding ne-randomisation; necolined and exit, othera mentioned briefly	situdy population red described in delait, time points inentigated may no effect most primounced differences.	-	
Busamorte 2001	***	Publishes Passa Sale Cesar, Sal, Saly	to assess the rule of the meredical cycle on contact alongs, housing particu- tally as the possibility that evaluation could inhibit contact sensitization mechanisms.	Occasion internetional shally silhed candomination	nie	Standard patch tretting	3 days	apper bank	8% - 6-0013%	contact demand to taken, regular mentional system	***************************************	av ymbles eminent plans, bester prosent prosent prosent	*	mean age 30.7 y (20-68)	rector atlengy	CORD serving scale with 2 classifications accord	Moonal Eluting Concertation (MEC) Summarized Text Score (STS)		n's jumper by 1)	MSC was lower during the progestion phase in 22 subjects, STS was higher during the progestion phase in 28 subjects.	MEC argued cars. Incl. for pained samples pP 6 0.0001 3/20 argued cars. Incl. for patriol samples, p < 0.0001	n/a	n/a	n/a	8	-	 In belie somen, is circuit positive if is possible to observe incurrence or exacerbation of allego contact demation during the preventional demation during the preventional plane. I Register responses to justice plane. I Register responses to justice to the prevention of the prevention of the could literly be blow-registran. [aupported] 	small is no candenniation blinding of subcome assessment; including all procedure and endocran offens mentioned briefly	population not described in detail, time of patch bedrog was determined individually to match exhibiting least during collabors, which may be the time point of measures introduce of hygomenically, and therefore possibly more appropriate than in other shalles		
Hindum 199	supported by a grant from the Swedenich Council for Work Life Research	Department of Dematology, University Hospital, Matrick, Stander	to sholy the indebted solution is solute resolutly, also in relation to the mentional cycle	internentional schally self-raid tamborescation	nie	Paluh testing	as h	Saw Sack	12.00-0.0012%	al least ++ residents rackel eather to Topians before study	1	one 7 one 7 one 6 one 6	20 included, 28 analysed, probably 17 without contraceptives	2148 y; F	rector atlengy	CORO seriory scale with 2 standistrons active	Constation of MBC and day of mendical cycle	2 of 28 patients had no resultion at all on one of the less occasions	***	expedient consistent at 2 of 4 consistent for consistent for women on confinent reported	algorithmed controllation at 2 of 4 controllation for controllation for controllation, no continues the controllation controllation is reported	n/a	N/a	w/a	8		To answer the question of higher preministral paths had reactivity. Eather shalles are needed in which secure hormone levels should be maintained. (supported)	amali si, no scheduled variation of mentalised phases, blinding of edisome assessment, muridiment and exil- cidents and described, unders timel, orderies areas specified in adalescia, multiple adalesces, concerning cycle dependency (conscious 12, dumen militarity) (conscious 12, dumen militarity) (conscious 12, dumen militarity) (conscious 12, dumen	population described concerning age, estama- group, diago hoisen la inflament attenga- soriaci demutatio, rimided companistity in- stitute shades dans to disappi you executati phases produtival), and manuation justicitations, inclinad of group companisms.		
Aktan 1998	ets.	Engartments of Dermatology and Obstehron and Operating Famility of Medicine Familitative University, Denial Turkey	to investigate if non- reproductibilities for possible excited sulphise for possible excited sulphise patch freets in the last offered phases of the outsidery resolvant with the endousies extense of failed phase adequate are statistically different	internentional shally selfmed standomination	nia	Palah lesling	2 days	upper back		positive smuda in that putint testing justime days 7:10 or 20 of other membrate speak and real based please serious progen to total speak and substitute to total speak, regular and exhibitry meetical optive.	patients were altorabed depending on the phase in seland people were field leafed prope 1 (day 2024; sel 13)	7:10 ± 3034	я	agents, F	nickel allergy	ECRG sersing scale, consideration as only youtile or negative'	Reproductibility of positive/regulary results in the socialer phase leating	1. Sect 28 of 28 (reduction collection) 2. Sect. 22 of 28	N/A	group 1.3 of 18 Since requires day 20.24, group 2.2 of 13 Since registers day 7.15	Fisher exact less as	ede	n/a	N/A	eta		The improductivity of positive From character maked public heals does not seen to be affected by the character in the administry the character in auxiliary cycle. (copported)	amali sangle size; no randomisalian; na binding described; no candomis promiser and stati collection of described and statis and described in advance.	shuby population not described, time points translagited may as reflect mad pronounced differences		

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First Author/ year	Study che Sources of funding and competing interests	Setting	Aims and Objectives	Study Design	Reference standard test	Diagnostic test(s) evaluated	Methods Duration of exposition	Application site	Time interval and treatment(x) administered between the tests	Inclusion criteria	Patients included [n]	Patients [age (mean/range); gender (MF)]	presumed Diagnose	Grading/Classification/Strengt	Definition of outcome	Results I (overall positive reactions)	Results 8 (reactions at different time points)	Results II (3 most frequently reported substances?)	Accuracy	Reproducibility	Cut-Off determination	Comparison of two or more tests	Adverse effects	Author s conclusion	Critical Acc	external validity	Evidence level (Oxford)	Other/ Addendum (Optional)
Insert 2000	eda	huo centers in Sweden	to document possible generatized add-effects during patch healing (day 0 versus day 3)	properties cause control and properties control and properties controlled study (companion pre (dwy 1) wraza affise PT (dwy 3)	nis	patch led of European standard series with local additions, from chambers	42h	bask	ntha	consecutive paich set patient from 2 centers in 5 sweden	401	age nils gender 130208	nuspeciad contact derratilia	mik	chjeche syrestorus flame, op adhative op adhative op adhative op adhative of all children flame, for a flame, for the flame,	216/401 (54%) positive PT	objective: eccleristics flore up 15 patients (17 with positive PT). 5%, subjective: no significant increase d0 to G1 except for fact on patients (45 GN;))	no correlation between syntams and positive patch last reactions	mile	nthe	nth	nik	ssee airs of shelp	eczernatious fine-cpa in 2.7%, advante reaction in 5% of study population. There were plenty of different of different in 5% of study population. There were plenty of different in medium, but all years are plenty of different in medium, but all years are plenty or back, the symptoms of medium in the symptoms of the same on situation of the same on situation of convolution or substantial of convolution or substantial or service of the same on situation of convolution or substantial	no blinding, controls from same sample	possible assiscino blas, no information on age	4	
Marcuno 1999	eda	single center in Paverna, Taly	to determine the duration of the patch test caucious and the frequency of	indvidual prospective cohort	nis	patich test of GRONCA standard service (concides Exropass standard service additional), all test chambers	40h	back	nia	follow up (2023/17) of positive PT positive PT and third day until cleared in 1762 (1286) positive packet in 1862 (1286) (1286)	263	subjects which completed study (222): age 4-60 in (mans-42), gender 40173	slengic CD	scores	pensideré PT reactors 3-4d aibr remodel d' PT in days trons remoul	317/798 testind (32,7%); correpted follow up of 22/317 patients with positive PT results. 22 displayed a total of 327 positive results. 22 displayed a total of 327 positive results (17,5%) persisted 2 144 after removal	nda	incidence (76.1%) and duration of PT seacion (25.4 d); significantly higher seacion (25.4 d); significantly higher seacion (25.4 d); significantly higher seacions of the seach seac	Kuthon CG: Odd rate 9.1, stopy: CR 5.2, stop PT exactor: CR 2.5	ola.	nia	nia	nia.	It was found that is Kathon C.G. as Kathon C.G. as small billy use the most important rich was the most important rich was a key, followed by along patch has nauction. Pajected risk factors were sax, age and sensitivity of sensitiv	38/283 (14.4%) but to follow-up, but to follow-up, but to follow-up, but significant differences were followed by the significant of the significa	appropriate	lib	
fasikason 2005	mba	3 centers in Sweden	to study the development and course and course and positive patch- test nuactions to 2-1/EUM and EGEMA in page- paramative in the personalities in methacrytates	case series of 12 patients with known sensitization to 2-MSM or ECCESM: repeate PT with needings at CS, d7, d10, d14, d17, d21, d24, d28.	previously positive test to 3 HEMMA or EMMA or destal or rail acrylics series	2-YEMA and DCDCMA dilution series. Van der Bend chambers	40h	back	nla	presious positive test to 2-HEMA or EGDEMA	12	age: 31-63 (man 47); gender til 1	contact allengy to 2-HEMA or ECDEMA	mbs	first occurence and last pensishence of test reaction in days	11 out of 12 patients	12/25 (48%) positive nanciona to 2+02M/ were all pressor fair 4 weeks. Set (25%) positive nanciona to ECDM/ tenciona to ECDM/ arter 4 weeks.	nda	mbs	91.0%	nda	nla	nis	Palch-lest reactions to 2- HEMA are long-lesting. The patch-lest concentration of 20% for 2- HEMA and ECDMA my be Cordinately used Positive lest positive lest positive positive lest positive pos	urblinded, small sample size. No controls. Pagesslad PT.	PT with salf prepared feat preparations.	īv	
Kanena 1998	mila	single center in Finland (FICH)	case report from clinical practice with contact leukoderma after PT with undikated dental acrylica	Expert opinion	(meth) acrylate series	commercial PT substances from (meth) acrylate a series (ponder nis) and 6 derbt acrylic products (undikited)	48h	upper ann	nia	mba	4	91	allegic CD (fingerips) to methacrytates (indication for PT). Tosic reaction to PT of unditated products followed by leukoderms.	mhs	contact isulederms due to totic reaction	a 2.5 years pensistent contact leukodenns at alle of tooic PT reaction	nla	nia	nla	nia	nia	nis	aim of case report	dental scrytics should never testes "as is". We discurage We packed of use tests, open tests or repeated open PT with undisted dental acrytics.	nia	nta	٧	
Bordel_Gomez 2009	5098	single center in Spain	case report from clinical practice with BCC in	Expert opinion	nia	atendard series of the Spanish Group for Besserch into Demantis and Soin Allery and the metal panel. Provider of test allergene: Trobb, Marti Tobr, Chemotechniqu e Diagnostics.	nis	back	nia	eda	4	94	eyelid dermatitis (indication for PT). BCC at site of previous PT of 1% gold chloride (3+ PT neaction)	ICDRG	superficial DCC at PA PT also of gold.	superficial BICC 3 years after P3 with 1% gold chioride at P7 alte. Gold particles in excisional biopsy detectable. No solar damage. Fortatious coincidence versus inferess inflammatory suppose as bigger of caricrogenesis	nia	nia	mha	nia	nte	mba	aim of case report	characteristics of the patient suggested positraumate appealed positraumate appealed positraumate possibility of a nave brailitious about below considered. We have found on reports of all tumors as possible complete allors of patich leats.	nla	nia	٧	
Jacob 2011	Funding by SmartPractice, Phoenix, AZ, USA	single center in Sen Diego, CA	to determine safety and efficacy o TRLE test in children and adolescents aged 6-18 years	open label prospective study. Advance study. Advance studies (AC) and serious advance events (EAE) were documented d2, d3, d7, d21- late and/or persistent sion reactions were also recorded.	nis	Thin Layer Replif-Use Replif-Use Int (28 alorgan) T.R.U.E. seet	48h	back	eda	children and adolaccents aged 6-18 years with suspected allergic CD referred to centre between Dec. 2006-Dct. 2009	102	age: 2th 6-8yo; 20: 9-12yo; 45: 13-18yo (mass) 91.10; gender: 40:52	suspected allergic confact destrutifis	ICDRS	relid and moderate AE: alight worseling of demantits or specific body site; sowere AE: edemantits worseling of dermatits with superinfection	35/100 (34.7%) reported 52 nor serious Aes, of which 96.1% were mild or moderate, n=2 seven. 20%, experienced tape initiation. 4 subjects of paralleler reactions mild infiltration, mild to moderate hyperpigmental on)	eda	nda	nha	ote	nda	nia	aim of study see column 5	PT is efficaceousand safe in the pediatric population	2 patients lost to follow-up	appropriate, race of study population defined	IIb	
Prue 1998	Gisso	number of physicians (n/h) form 45 states of the US and Dictricts of Columbia	to evaluate test performance an safety	voluntary postmarketing survey by data collection forms (on incidence of dermatits by body site, neaction frequency to less allergency ordered relevance and AEIs) dishibuted upon purchase of TRACTest	nia	Thin Layer Papid-Use Epiculareacus Inel (24 allergens) T.R.U.E. test	48h	nik	nia	returned data forms from patients lested Jan. 1955-Aug. 1995	3,200	age (given for 2,362): femorith 50yo 0.0% 413yo; 3.1% 13 13yo; 52,2%; 20 20yo; 43,9% 55yo; Gender (given for 2,660); 862/2,025	ols	nik	AE: tape initiation, persistent or severe PT reaction, sernitization or medical Treatment of PT reaction	Tape irribation: 2.2% of patients tested. Schingburning sensation: 1.59% excited skin: 1.21% ware the most frepent Ass-Engtheran G. 0.2. 0.10% otherAlls: 0.10%.	nda	nia	min	nia	nia	nia	aim of study secolumn 5	TRLE Test provides a standardized, converient, reliable and safe reshod of assessing patients with CD	voluntary survey, possible salection bias, missing data on demographicalir cluding sale and reading scale used.	atudy population not described in detail	rv	
Moller 2002	grant from Lund University Medical Faculty	single center in sweden	to investigate conducting contact allergy or allergy to SL.	prospective case sories	nis	estracts of Ambrosia arternisticia (regweed): the American schaol 1,0% pot, and Swedish estracts (summer and obtinity of the obtinity of the obtinity of the obtinity of the obtinity of the o	40h	back	nts	patients from Makino city with previously positive test to sequite previous one in European Standard series; 195/17 patients had hand occurrent of pompholys type.	17 (plus 5 controls)	age: 34-76 (mean 97-5); gender: 5 gender: 3/12 gender: 3/12	suspected allergic contact derivatilis	CORG	neaction frequency of different propulations (Frequency of faires)	A positive test in the Armician rappead preparation was children for the Armician rappead preparation was children for the Swadah aummer ethacit to the Armician for the Armician for the Armician submitted to the Armician submitted to the Armician submitted to the Armician during PT procedure	eta	edu	mbs	100% (SL mbq	nin	eda	see column 5	patients with 52, mix allergy are allergic to Armerican as used as to Sandath repeated the second of	no blinding, arred in: possible selection blass, occupational cases excluded	nia	īv	
Journals 2003	Mesistry for Science, Technology and Development of the republic of Serbia.	single careter in Serbia	case report from clinical practice with fase of seasonal EEM safe PF with safe PF with chickweed)	case report and supert opinion	nis	European Sandrad sariess Sandrad sariess Sandrad sariess Sandrad sariess Sandrad Sandrad Sandrad Sandrad Francis Francis Germany), padients own picket (Iwath Leases), Pron Chambers	4dh	back	erba	eda	1	OH.	allergic CD to words	nds	Flore of seasons (EM) at the SSS-reading of PT	Strongly positive Processing Strongly exceptions of common choiceast and circles and darkelons to white clover, field with the control of the	nia	nda	mbs	sh	oh	nh	rda	Erytwera malforme dowloped in Miller and sometic days to content with weeds, agar and so conjustional separation occupational separation facility and recurring during patch to single patch to the separation of the single patch sealing. The district separation of the single separation of the single separation of the single separation of the single sealing s	nda	e/a	٧	
Stellasson 2002	The Swedish Pendidon for Fueldh Came Sciences and Alexy Plasmonth, the Swedish Author Research Foundation, the Administration of Fueldhor, the Administration of Fueldhor, the Administration of Fueldhor, the Administration of Fueldhor, the Edward Fueldhor, the Administration of Fueldhor, the Edward Fueldhor, the Edward Fueldhor, the Edward Fueldhor, Swedish Fueldhor, Swe	single certer in Oweden	to delarmine whether inhabitor of budeacrisis would result in several policy of the seve	randomized, double-blind, and controlled controlled	previously (+1-1 years ago) buckwords	ne-patch lead with a serial with a serial shadow of the control of	4001	back	5-6 years believen Pis, Gewello Sehend 2nd PT and shaladion	ronashvasic palient who were initially of all and a second of the bulletonial of bulletonial of bulletonial of hypersensitivity on path learning to p lod years bulletonial bulletonial to p lod years bulletonial bulletonia	15 patients. Income believed PT Procession: 7 veth versm, 8 with placebo	agar maan 46.56 yn, gender 3/12	budescride contact slivings	scores	posite PT readdors to re- PT of steroids. Presquency of PT reaction upon PT reaction upon inhabition after 6 weeks.	In 4 of 7 (57.1 %) pasients who shaled history with the same particular of previously particular of particular o	PT 900% PT positive upon relaxif	sh	nin	100% PT with budworld	nia	nia	see column S	This study shows that allegic side reactions may be reacted as the student alleging to build bui	arrail number; appropriate hard research leaf and classified as significant supplicant order was 25.	аругоргізійн	IIb	
Lauserra 1996	graph from Alarge Foundation of Friend Frimith Medical Foundation, and Pauls Foundation	aingle certer in Protect	to determine whether by state of the program of the	Open and proceeding with the particular and the particular and par	previously (55-6) >7months appliped >7months applied >7months app	proxication with 100 or 200 yell for the second of the sec	nin.	nik	ela	predous positive test to hydrocollasone hydrocollasone to T-bulytale	6 (4 patients with contact hypersensible) hypersensible) hypersensible) hydrocortisone-17-buyents and contact hypersensible) to ontact hypersensible) by the contact hypersensible) hydrocortisone-17-buyensible)	nge: 31-70 (man 48); gender: 3/3	hydrocedison alongy	ICDRG	Frequency eliciation of previacion PT states P	colonsous macdons at size of previous state of previous 5°.55 halfer of previous size of previous size of previous size of control of the size of the	ala	ala	nin	nin.	nin	nik	see column 5	both crail lydrocolisame podrocolisame control me both lo induce slarge slar, meachons in subjects	artal number; no placebo challenge	арргарсінів	īV	

			case report from													Day of or								Figre up reactions consist in the reactivation of presiously intradermal test				
Reig Rincon de Arelano 2005	n/s	single center in Spain	case report from clinical practice with flam of intradermal test and examinents after PT	case report and expert opinion	skin prick fast, intrademnal lest, provocation test	PT with butslactures	48h	back	nte	nin	-1	age: 31; gender: 01	delayed type reaction to befolischerse	mh	nia	Plane of previous intradermal test and exenthems after PT	n/a	nia	nds	nia	nia	nis	see column 5	Fibre up reactions consist in the consist in the consist in the consist in the reactions or old positions or old positions are not stated to the patch state at a systemic challenge.	nia	nia	٧	
Moler 1995	nis	single center in sweden	case report from clinical practice with flare of PT after inhammacular injection of gold	case report and expert opinion, to study the relationship between contact allergy to gold safe and an attempt to gold therapy in a rheumatic patient	nis	PT Saedah standard series, gold sodium hiosulitals (0.5- 10% pet.) and gold sodium hiomatis (30% pet.) in Fron Chambars, intradormál test, int. prococation (10mg gold sodium hiomatis) 33d later	48h	back	33d behwen akin teats and proxocation	nda	4	age: 52; gender: GH	gold allengy	nik	nia	dermal flare of PT and inhadermal test site within 24h after Lin. provocation	nia	nite	nia	nia.	nia	nia	see column 5	sine gol stergy is frepart, commons side effects of gold therapy may be explained by such an immunological reaction	nia	toba	v	
O Donnell 1992	nis	single center in UK	case report from clinical practice with dewelopment of Enytherna multiforms after PT	case report and expert opinion	nis	PT European standard series, a fragrance series, and her own cosmetics, including perturnes.	46	nds	nta	nia	4	age: 22; gender: 01	allergic contact dermatits to perfume	nis	nta	development of erythems multiforms 2days after application of P1; and excited alon syndrom. On re-P1: positive to FM1 and colophony	n/a	nia	nis	no enythma multiforms upon second feat	nia	nis	see column 5	3rd report of EM developing in association with patch testing.	n/a	nia	v	
Mashish 2003	n/a	single center in tersel	case report from clinical practice with development of ACEP after PT	case report and expert opinion	nis	PT with Ingredients of Coldex Acateminophen (1% and 10% pat.), phenylaphrise (1% and 10%, pat. 1.5% aqu.), after (1% pat 1% aqu.), after (0.5% pat.)	48h	nis	1 month; to mis	nia	4	age: 23; gender: 011	AGEP to ingredient of Coldex	nis	nta	d7 of PT: generalized vesiculopastate emplion, negative PT resulte, no-PT (Acateminophen (1% and 10% pats) il month late: negative, d0: generalized vesiculopastate eruption	reproducible AGEP after PT	nia	nia	уна	nia	nia	see column 5	fat report of AGEP induced by PT to determine culpit drug in case of previous AGEP	n/a	nla	v	
Pertel 2008	els	alingle confer in Italy	case report from clinical practice with the control of the control	case report and separt opinion	nh	PT (unmorehen- penulibite (1%- patt) and housing spicorsalty	90min	back	eta	nda	1	age: 21; pender: 01	work-related alongs to ammorian persulfate	nds	ntis	By 50 min after popular to proper popular to proper popular to process, and to process, and to process to proc	nla	nda	nh	n/a	nia	nih	ase column S	the development of a systemic nearbon in a common absorption of american absorption of american absorption of american persistent in a medical american authors are absorbed in a medical american application and appearance of symptoms persistent and appearance of symptoms and appearance of application of a medical appearance of a properties of a medical appearance of a properties of a possible of a possibl	nča	nta	v	
Ттухмел 2007	Copenhagen County Research Foundation	single center in Dennark	To determine the risk of PT sensilization, patients were tested helco	population- based individual cohort is 1980, the second individual was patch- tasted and only one parson had a (*) positive reaction to 5POL in 1980, 540 persons were reinitied to a new patch test and 285 (persons rais 68%), were re-tested.	nia	Bit-PT with Thin Layer Replo- Libe Epiculaneous last (28 aftergress) 17 Articles (20 aftergress) 17 Articles (containing PFO 15%)	4001	nik	å years	Individuals patch- tested in the population- based Clinthys allergy studies. 1000 eligible for retailing in 1008.	265	nin	nin	nde	positive PT to PPID.	In 1990, 557 persons were paids paids tested in 1993, 3557-36 (participation raise 67%) were released. There were no positive reactions to Port and the reactions to positive reactions (c. 2001) and the reaction of the reactions (c. 2001) and the reaction of the reaction	nia	nda	sensitivity reduced due to reading only at d2	унк	nia	nia	none	This study shows had patch sating with PFO in a readown population and population without the property of the	population- based colot. reading only 62	adequale	lib	Linitations of study; residing only 42, not 43
Jensen 2006	n/a	single center in Denrank	to determine the incidence and computeress of sche servitzation	releaseable chart review of 76 by patents standard standard screening toy	nik	standard series anocappassing the participation of	42h	back	ela	Patich tested patients with registred coccurrence of their seading above commence of their seading above control of their sead of sead of sead of such as west in sead of action of sead of se	26 (0.3%)	nin	active PT sensitization	nhi	occurence of positive PT reaction beyond d5-d7	Among 7619 consecutively instelled excessor patients in a 14-year pariet 14-year pariet 20 (0.3%) were identified in he discharse as their global and the section, which may be an indication of patich last assentiation. 12 cause: missing deballed interation, 44 patients eligible for westantion.	nia	11/14 pollent actice arealization consensation of the content allergers in T pullering plant of formal allergers, plant bully-bend formal-side grant, plant bully-bend formal-side grant of the plant of	incompute register	n/a	nla	nia	see column S	mbesquert allegic cordant destruidis blooking chich and summittation its very care	nebospective skaly. Data patistly patistly incomplain shall be reading no social system. We have not apportionally encouraged to report tale reactions.	In 9 of the patent records, the late reaction was not described adequately to be included in this analysis or the altegran responsible for the same control of the same control of the same control of the same control of a patent was not recognized by the computer by the computer system and their necords.	rv	The pallents were not a particular specifically encouraged to report reactions that appeared before their the sussel seeding days,
Hausen 1983	n/s	single center in Germany	to identify the culprit contact allergen in Althorneria and feasible PT concentrations	animal model and small case series and expert opinion	PT with able creates extracts and Tulipalin A and Tulipaside A	en.	mh	rola	erin	suspected allergic contact dermatile to abborreria species	8	mha	suspected allergic contact dermalita to alaborantia species	nh	pacitive PT nesults to Tulipatin A at 0.01%	8 growers appoint to Abtrourneria hybrids unflered from side lesions, out of which 6 could be shown to be allergic to them, while cases 4 and 7 suffeed from primary intitiating (bids) decreasing.	nla	nih	nh	n/a	nin	nis	nts	Direct leading of the plant material in human patients carries the risk of take positive reactions and active sensitions, as the theathold for both some of the allergen is very high. Cely a concentration of 0.0 Hz care be considered safe.	no late reading of PT, no study design to defact active sentitization	routine PT conditions, no follow up of patients	٧	
Arnold 1995	n/s	Five centers in the Natherlands	to investigate whether addition of PAAS to the standard sense. Increases the sensitivity in detecting paradys alongy	neirospective analysis of patch tests performed in 5 Dutch hospitals while PAMS was added to their European standard series	European standard series without PAAS	European standard series with PAAS	mb	nis	refin	PT with standard series	nls; 3461 tested standard series	solu	mhs	als	gain in sensitivity of detecting contact allergy to para-dyse by adding PAAS was 24%.	gain in sensitivity of delecting contact allergy to para-dyes by adding PAAB was 24%.	O's were solely allergic to PAAB and 22% solely allergic to PAAB and 22% solely allergic to PPO within 4 days; 25% were allergic to both 20% were allergic to both 20% were divided to the control of the	nda	gain in sentitivity 24 % ± 90.5 (mass ± 551)	ela.	nia	nis	43% labs exactions as indicator for action sentituation	Adding PAAB to the European stendard series may have the disadvantage of increasing the risk of active sensitization to PPO and PAAB, as compared to besting with PPO alone, since many late reactions were observed.	no infoamtion about routine time points of resadings, no releast of late respondens	no characteristics of PT patients reported	īv	
HSien 2001	n/a	Three centers in Germany	to study the risk of patch lead sestification induced by para-feritary- buly trainched (P78CC)	prospective study leading a distance series of PTEC with standardsade neadings on d-1-3,7,14 and 21 after application, and strink of bite- responders	nis	A dilution series of PTBC (1%, 0.2%, 0.2%, 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1%	24h	1% PTBC and the PTBC dilution agrices were applied to be left side of the upper back. Additionally 1% PTBC was tested on the value of the ptb and the proper back to carry out daily and—exemption of the ptb and	Pie-PT 1-3 receivs after frat to 2 late responders	Only patients in whore patch to studies with studies with studies with studies with studies with studies of the st	46	eths	PTEC servitzakon	German Contact Dermalitie Research Group	posites PT neactions to PTEC within d1 7 versus beyond d7	4 patients had a positive patch test during late readings of his readings patch-test arrest test arrest test.	2 out of 4 late responders obtained no-PT: 22 season d1-3 in the nochallenge.	nin	nda	e/a	nis	nis	assumed active sensituation in 440 patients who completed the study	PTBC clearly induced patch feet sensitization in 10% of the patients. It was a sensitization in 10% of the patients. It was a sensitization in 10% of the patch feet patch feet patch feet was a sensitive feet of the concentrations are patch feet of the patch feet o	Patients who were not ware not ware not ware not ware not made to relation to all achievable his resultings were instruction to carry out after continuous and to be the continuous and to be the continuous and the section occurred. Additionally, they ware laightness of continuous and did, and saled about reactions at the patch-last sales.	6 patients being descarded from endustrion because of protocol violation. In 1 patient, orly a 11, concentration of PTBC was applied 36 cut the 40 patients who completed the insestigation were rate and 4 for all bine standings.	IIb	
148en 2005	nda	Eight centers in Generally	to assess the frequency of the frequency	prospective study leading a PSD, ER, Nobell with the control of the control readings on d-1-2, 7,14 and 21 application, and responders	nia	PT with PPC- base, 1% past and ER based of dight-globylaber, of the person of dight-globylaber, of person person (25 past), PT and person (25 past), PT and person (15 past), PT and person (16 past	20- (255 palients PPD palients PPD wed ER; 241 (100 palients) PPD and ER; 571 rickel)	medal side of the upper arm	File-PT 2-20 weeks laber in 722 PTP-3-laber in 722 PTP-3-laber in responders	Preferris to	5748 (FPO and ER); 812 (nickel sulphale); 25 late responders	25 late- repronders: age:17-67 (men 36,5) gender: 10/13	allergic contact dermalita	ECORG.	posithe PT nexctions to PPD, Rr riche with std-1- wereas sypord	14/28 pasients (IZE and PPC) and PPC) and PPC (IZE and PPC) and represent (ICEG) were an in 25 pasients (IZEG), patch leath Secure position not be a pasient not not be a pasient not be a pasient not be a pasient not not be a pasient not not not not not not not not not n	In 57 PFO arguido- habital market patients, patch-test as a market patients, patch-test as the second control of the bile reaction. All hid reactions, assembly for century to control on the control of	PPCHER	nda	nia.	n/a	nia	assumed active sensitration is 25° 422 (15%) obtained by calculated by	PPD (1% pst.) efficient free macelore in macelore in 16.25% of mac	Palaets who were not able to return for all acheckade his readed h	1428 completed shalfy	IIb	
Vigue 1997	els	single center in France	to evaluate the frequency of delayed apparamos of positive PT results.	prospective PT shady with routine readings (cd. d3 or o8) and additional neadings at o15. Res. PT in selected patients with possibly PT result at day 15 only.	nda	SCDRG shandard series with local addition of propylens glycol 5%, budenoted 0, 1%, isocorbi pleasted 1%, Eusyl K-400 2%, glutarsideltyde 0, 2% all in pet.)	nir, assumedy 48h	mh	nda	patients undergoing PT with the standard series from june 1994- june 1996, junbornes consent.	550	Age: nls; gedder: 20 women; 1,0 men	mbs	ICDRG	positive PT meadons for the first time in the different for the first time in the different first time in the first time in th	30 additional positive PT resolution Presented at resolution prosision and positive resolution Pt re	n/s	15/39: belonging to the "pant"-group (PPD, IPPD, (PPD, IPPD, IPPD, of which 2,200 substances had been tested in 500 ind/viduals. Percentage of bite spearing positive searcies (DPS, 7, IPPD' 4 Balance of Peru, bluram of Per	nda	n/a	n(a	nls	bila responses as indicator for achie sensitization	The number of delayed positive results is regigible regigible. (0.2%) and does not people for the properties of the properties of the positive results should lead to the exclusion of PT allergers from the "para" group from the standard proporties and PPD from the standard children series.	no systematic releating of patients with late responses.	patients were informed that lake reactions may occur.	IIb	

Nanana 1902	nda	single center in Printeral (PIOH)	case series from clinical practice and case report development of double active sensitization constitution acrytica	Case service and expert opinion	nda	PT of commercial and	40th	back	2 months later	PT with (yeah)scylule series	mags, 1985-dec. 1996-24, 1995- 1990-100	n/a	n's for come meries, casse report: occupationales eraitte	ICORG	posible PT residue b accycle fart appassing d10- 21	Lacking to models the models that the second to the second	nta	commercial fault withstrace a caused and withstrace a caused and a servicia close, as well as complete (2) of the commercial complete (2) of the c	nda	nth	nda	responders with EA, 2-HEA, 2- HPA 0.5% pet., 1% late	EA, 2-MEA, 2- MPA 0.5% pet, 1% with EA, 2- MEA, 2-MPA	EA 24EA, 2- 1FA entrely removed from the PT series. The PT series of the P	no blinding	study population not described.	17	
Paulee 2001	nda	single center in decrease.	to sludy the delection to the delection of the delection	with the CM and	Si-blix	El. mix 0.1%; pat and the Common of the Common of Common	400s	eds	efa	PT of standard writes 1990- 1998 W 54, Me positive simes besting with CM and components	4386	eča	Compositive alongy	ICDRG	positive PT to 52, Sandior CM	150 of 4385 patients harded (4285) gasteris (4285)	eda	nh	St. rinc deductated 65%, CM 65% of Corposition- deduction ratio with both roises was 50%.	eda	eda	eda	lade responses 57/190 (8.9%)	the delection rate with the control of the control	no standard period menting beyond menting beyond promotine of patients to present in case and present in case and an exposition of the patients of the patient	study population not described.	rv.	

n subgroup' study population N total number of patients m mean n's not stated n'a not applicable M/F male /female