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CONSENSUS DOCUMENT

[Translated article] Standard and Expanded Series Patch Testing Update by the Spanish Contact Dermatitis and Skin Allergy Research Group (GEIDAC)



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Abstract: After the meeting held by the Spanish Contact Dermatitis and Skin Allergy Research Group (GEIDAC) back in October 2021, changes were suggested to the Spanish Standard Series patch testing. Hydroxyethyl methacrylate (2% pet.), textile dye mixt (6.6% pet.), linalool hydroperoxide (1% pet.), and limonene hydroperoxide (0.3% pet.) were, then, added to the series that agreed upon in 2016. Ethyldiamine and phenoxyethanol were excluded. Methylidibromoglutaronitrile, the mixture of sesquiterpene lactones, and hydroxyisohexyl 3-cyclohexene (Lyrál) were also added to the extended Spanish series of 2022.

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PALABRAS CLAVE

Consenso;
Dermatitis alérgica
de contacto;
Pruebas epicutáneas;
GEIDAC

Actualización de la batería estándar y batería ampliada de pruebas alérgicas de contacto por el Grupo Español de Investigación en Dermatitis de Contacto y Alergia Cutánea (GEIDAC)

Resumen En la reunión de consenso celebrada por el Grupo Español de Investigación en Dermatitis de Contacto y Alergia Cutánea en octubre del 2021 se estableció la composición actualizada de la batería estándar española de pruebas epicutáneas. A la batería consensuada en 2016 se añaden hidroxietil-metacrilato (2% vas.), mezcla colorante textil (6,6% vas.), hidroperóxido de linalool (1% vas.) e hidroperóxido de limoneno (0,3% vas.). Se excluyen la etil-diamina y el fenoxietanol. El metildibromoglutaronitrilo, la mezcla de lactonas sesquiterpénicas y el hidroxietil-isohexil 3-ciclohexeno (Lyrál) pasan a la batería española ampliada 2022.

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Introduction

The diagnosis of allergic contact dermatitis (ACD) is established after performing the necessary patch testing.¹ All patients undergoing such testing should be patched with the Spanish Standard Series (SSS)²⁻⁴ and, based on the clinical pattern they present, relevant additional batteries should be used. Depending on the peculiarities of each center, the standard series should detect 77% up to 90% of positivities.⁵

AEDV Spanish Research Working Group on Contact Dermatitis and Cutaneous Immunoallergy (GEIDAC) is responsible for updating the SSB. In October 2021, GEIDAC met to agree on an update of the 2016 SSB. In the SSB review, and subsequently in the European standard review, the GEIDAC proposed that allergens should be included based on prospectively studied data.^{3,6,7} This means that besides the

SSB, there is a group of allergens eligible to be included in the SSB, which have already been listed in the Spanish Extended Series (SES).^{1,3,8} The two series are dynamic proposals, with updates recommended for expanded standard batteries nearly every 2 years, and national batteries every 5 to 10 years.

By criterion of authority, an allergen should be listed in a national standard series if it is responsible for 0.5% to 1% sensitization of unselected patients who underwent patch testing.¹ Although this is the most important criterion, its inclusion should also be evaluated based on specific clinical areas (especially occupational and geographical), if it is emerging in neighboring countries, and practical aspects should, also, be taken into consideration such as back surface limitation. Although strictly, the inclusion criterion should be relevant at the present time, subjectivity

Table 1 Patients evaluated with the 2016 Spanish Standard Series (SSS).

Allergens	Patients patched (n)	Sensitization Positives (n)	%	95%CI	Present relevance (n)	%	95%CI	Tests needed for present relevance
Nickel sulfate	6875	1.708	24.8	23.69-26.05	355	5.16	4.65-5.73	19
Wool alcohols (lanolin)	6870	50	0.7	0.55-0.96	34	0.49	0.35-0.69	202
Neomycin sulfate	6869	72	1.0	0.83-1.32	18	0.26	0.17-0.42	382
Potassium dichromate	6870	239	3.5	3.06-3.95	121	1.76	1.47-2.10	57
Cain mix	6789	78	1.1	0.92-1.43	16	0.24	0.14-0.38	424
Fragrance mix I	6870	312	4.5	4.06-5.07	171	2.49	2.14-2.89	40
Colophony	6872	110	1.6	1.33-1.93	49	0.71	0.54-0.94	140
Paraben mix	6881	33	0.5	0.34-0.67	16	0.23	0.14-0.38	430
Peru balsam	6874	234	3.4	2.99-3.87	94	1.37	1.12-1.67	73
Ethylenediamine dihydrochloride	6818	70	1.0	0.81-1.30	21	0.31	0.20-0.47	325
Cobalt chloride	6875	351	5.1	4.60-5.67	84	1.22	0.99-1.51	82
P-tert-butylphenol formaldehyde	6871	116	1.7	1.41-2.03	26	0.38	0.26-0.56	264
Epoxy resin	6871	70	1.0	0.81-1.29	21	0.31	0.20-0.47	327
Carbam mix	6789	128	1.9	1.59-2.24	72	1.06	0.84-1.34	94
IPPD/black rubber mix	6873	66	1.0	0.75-1.22	25	0.36	0.25-0.54	275
MCI/MI	5589	272	4.9	4.32-5.48	188	3.36	2.92-3.88	30
Quaternium-15	6886	69	1.0	0.79-1.27	40	0.58	0.43-0.79	172
Methyldibromo glutaronitrile	6883	176	2.6	2.21-2.96	19	0.28	0.18-0.43	362
paraphenylenediamine	6872	296	4.3	3.84-4.83	174	2.53	2.18-2.94	39
Formaldehyde 2%	5819	170	2.9	2.51-3.40	82	1.41	1.13-1.75	71
Mercapto mix	6869	28	0.4	0.28-0.59	19	0.28	0.18-0.43	362
Thiuram mix	6868	120	1.7	1.46-2.09	89	1.30	1.05-1.60	77
Diazolidinyl urea (Germall II)	6886	34	0.5	0.35-0.69	17	0.25	0.15-0.40	405
Tixocortol-21-pivalate	6874	32	0.5	0.33-0.66	16	0.23	0.14-0.38	430
Imidazolidinyl urea (Germall 115)	6887	27	0.4	0.27-0.57	10	0.15	0.	
Budesonide	6876	60	0.9%	0.68-1.12	31	0.45%	0.32-0.64	222
Mercaptobenzothiazole	6871	32	0.5%	0.33-0.66	20	0.29%	0.19-0.45	344
Methylisothiazolinone	6319	516	8.2%	7.49-8.90	400	6.33%	5.74-6.98	16
Lactone mix	6187	13	0.2%	0.12-0.36	6	0.10%	0.04-0.22	1,031
Fragrance mix II	6314	232	3.7%	3.23-4.18	154	2.44%	2.08-2.86	41
Lyrall	6308	58	0.9%	0.71-1.19	36	0.57%	0.41-0.79	175
Phenoxyethanol	6308	6	0.1%	0.04-0.21	2	0.03%	0.01-0.13	3116

Consensus document on the 2022 Spanish Standard Series (SSS).

Table 2 Patients patch tested with the candidate allergen series or 2019 Spanish Extended Series (SES).

Allergens	Patched Patients (n)	Sensitization Positives (n)	%	95%CI	Present relevance (n)	%	Patches needed for present relevance (n)
Chemotechnique and allergaze							
<i>Allergens included in the European Standard Series candidates for the Spanish Standard Series</i>							
2-hydroxyethyl methacrylate (HEMA)	1884	69	3.66	2.90-4.61%	48	2.50	39
Textile mix	1828	59	3.13	2.43-4.01%	17	0.90	108
Propolis	1885	26	1.38	0.94-2.02%	5	0.27	377
<i>Allergens included in the Spanish Standard Series eligible for the European Standard Series</i>							
Diazolidinyl urea	1608	4	0.25	0.09-0.66%	3	0.19	536
Imidazolidinyl urea	1609	3	0.19	0.06-0.8%	1	0.06	1609
<i>Allergens candidates for the European and Spanish Standard Series</i>							
Linalool hydroperoxide (1% vas)	1813	84	4.43	3.59-5.45%	51	2.70	36
Linalool hydroperoxide (0.3% vas)	1640	57	3.36	2.60-4.33%	35	2.10	47
Limonene hydroperoxide (0.3% vas)	1830	60	3.17	2.47-4.07%	37	2.00	49
Limonene hydroperoxide (0.2% vas)	1651	24	1.43	0.96-2.13%	15	0.90	110
Benzisothiazolinone	1810	66	3.52	2.77-4.45%	18	0.96	101
Octylisothiazolinone	1874	11	0.58	0.32-1.05%	1	0.05	1874
Sodium metabisulfite	1850	35	1.89	1.34-2.58%	5	0.27	370
2-bromo-2-nitropropane-1,3-diol (bronopol)	1712	13	0.76	0.44-1.29%	2	0.12	856
Compound mix II	1642	7	0.43	0.20-0.89%	2	0.12	821
Decyl glucoside	1869	15	0.80	0.48-1.32%	6	0.32	312
Lauryl glucoside	1874	6	0.32	0.14-0.71%	1	0.05	1874
<i>TRUE-Test</i>							
Diazolidinyl urea	3065	14	0.46	0.27-0.77%	6	0.20	511
Imidazolidinyl urea	3065	13	0.42	0.25-0.73%	5	0.16	613
Bronopol	3065	20	0.65	0.42-1.01%	12	0.39	255

Data already published. Obtained from Hernández-Fernández et al.⁸.

in assessing this relevance causes this parameter to be used secondarily to the overall sensitization frequency.¹ The most significant piece of information regarding present relevance is the number of patched patients required to achieve this relevance,⁹ as shown in [tables 1 and 2](#).

Progress in digital technology has had an impact on ACD. In 2018, a multicenter registry supported by AEDV Research Unit was created by GEIDAC members, and is the data source in this document.¹⁰

Material and methods

The structure of the Spanish Registry of Research in Allergic and Contact Dermatitis (REIDAC) has been previously described.¹⁰ Data from the SSB were obtained from the general form ([table 1](#)). Afterwards, a form was created for candidate allergens of the ESB ([table 2](#)). Data from the SSB were obtained from the beginning of the registry (June 1st, 2018) through December 2020. Data from the ESB were collected from January 1st, 2019 through December 31st, 2020. In October 2021, a meeting was held to establish the new SSB and ESB. Previously, the working group completed an online survey for the initial assessment of permanence, exclusion, or inclusion of each allergen in the proposed series.

Results

A total of 6870 patients were evaluated with the 2016 SSB and 1890 with the ESB. The results are shown in [tables 1 and 2](#).

Consensus meeting

For consistency with the European standard and expanded series, allergens from the Spanish batteries must include allergens from both European batteries. For operational criteria, it was agreed that the SSB should list nearly 30 allergens. Similarly, the concentration of cain mix was updated according to the European standard series, including 5% benzocaine¹¹ ([tables 3 and 4](#)).

Considering that the dilution support of the allergens is expressed in [table 3](#), the criterion for allowing the TRUE-Test® (Thin-layer Rapid Use Epicutaneous-Test, SmartPractice Denmark ApS, Hillerød, Denmark) as support for the ESB was kept except for the concentrations of chloromethylisothiazolinone-methylisothiazolinone and formaldehyde.¹² For clinicians still using the TRUE Test®, it is essential to expand the patches studied according to [Table 5](#).

The most controversial allergen was methyl dibromo glutaronitrile because, although the sensitization rate justified that it should stay, the relevance of positivity is quite questionable.^{13,14} Given the need to maintain active surveillance on the molecule, it was decided to exclude it from the SSB and list it in the ESB.^{15,16} Lyrall—individually patched and included in fragrance mix II—presents very low sensitization rates and most likely covered by fragrance mix II, and has been banned by the European legislation. Although lyrall has been removed from the SSB it temporarily remains

Table 3 2022 Spanish Standard Series (SSS).

GEIDAC: Spanish Standard Series 2022	
1 Nickel sulfate	5.0% vas
2 Wool alcohols (lanolin)	30.0% vas
3 Neomycin sulfate	20.0% vas
4 Potassium dichromate (chromium salts)	0.5% vas
5 Cain mix	10% vas
6 Fragrance mix I	8.0% vas
7 Colophony	20.0% vas
8 Paraben mix	16.0% vas
9 Peru balsam	25.0% vas
10 Cobalt chloride (cobalt salts)	1.0% vas
11 p-tert-butylphenol formaldehyde resin	1.0% vas
12 Epoxy resin	3.0% vas
13 Carbam mix	0.1% vas
14 IPPD/black rubber mix	0.02% aq
15 MCI/MI	1.0% vas
16 Quaternium-15	1.0% vas
17 Paraphenylenediamine	2.0% aq
18 2% Formaldehyde	2.0% vas
19 Mercapto mix	1.0% vas
20 Thiuram mix	0.1% vas
21 Diazolidinyl urea (Germall II)	2.0% vas
22 Tixocortol-21-pivalate	0.01% vas
23 Imidazolidinyl urea (Germall 115)	2.0% vas
24 Budesonide	2.0% vas
25 Mercaptobenzothiazole	0.2% aq
26 Methylisothiazolinone	14.0% vas
27 Fragrance mix II	6.6% vas
28 Hydroxyethyl methacrylate	1.0% vas
29 Textile dye mix	0.3% vas
30 Linalool hydroperoxide	
31 Limonene hydroperoxide	

in the ESB^{17,18} for consistency with the European series. Ethylenediamine^{3,4,19–22} and phenoxyethanol—already controversial in the 2012 meeting—were removed from the SSB.^{3,23}

In GEIDAC administrative meeting of September 2023, a new ESB was approved for use in centers starting January 1st, 2024 ([table 4](#)).

Discussion

If we compare the results of the SSB with those previously published,^{2,34} it is surprising that, except for the exchange of methylchloroisothiazolinone/methylisothiazolinone (MCI/MI) for methylisothiazolinone (MI), very few changes have been reported regarding the sensitization frequency of allergens.^{8,24}

Metal

The group of metals are the most frequent sensitizers in all published series.²⁵ Nickel sulfate has a high sensitization rate (24.8%). Nonetheless, a slight decrease has been reported in other European countries.²⁶ Cobalt chloride continues to show sensitization rates of up to 4.87%.²⁴ Contact sources justify both the high sensitization rates reported

Table 4 Proposals for Spanish Extended Series for 2022 and 2024.

Spanish Expanded Standard Series for 2022	Spanish Expanded Standard Series for 2024
1 Methyl dibromo glutaronitrile 0.5% vas	1 Methyl dibromo glutaronitrile 0.5% vas
2 Lactone mix 0.1% vas	2 Lactone mix 0.1% vas
3 Hydroxyisohexyl 3-cyclohexene carboxaldehyde 5% vas	3 Hydroxyisohexyl 3-cyclohexene carboxaldehyde 5% vas
4 Propolis 10% vas	4 Propolis 10% vas
5 Sodium metabisulfite 1% vas	5 Sodium metabisulfite 1% vas
6 2-bromo-2-nitropropane-1,3-diol (bronopol) 0.5% vas	6 2-bromo-2-nitropropane-1,3-diol (bronopol) 0.5% vas
7 Compound mix 2.5% vas	7 Compound mix 5% vas
8 Linalool hydroperoxide 0.5% vas	8 Linalool hydroperoxide 0.5% vas
9 Limonene hydroperoxide 0.2% vas	9 Limonene hydroperoxide 0.2% vas
10 Benzisothiazolinone 0.1% vas	10 Benzisothiazolinone 0.1% vas
11 Octyl isothiazolinone 0.1% vas	11 Octyl isothiazolinone 0.1% vas
12 Decyl glucoside 5% vas	12 Decyl glucoside 5% vas
13 Lauril polyglucoside 3% vas	13 Sorbitan sesquioleate 20% vas
14 Ethylenediamine dihydrochloride 1% vas	14 Sorbitan monooleate 5% vas
15 Clobetasol propionate 0.1% ethanol	
16 Clobetasol propionate 1% vaseline	
17 Propylene glycol 100%	
18 Propylene glycol 30% water	
19 Shellac 20% ethanol	
20 Galate mix 1% vas	
21 Octyl gallate 0.25% vas	
22 Dodecyl gallate 0.25% vas	
23 Propyl gallate 1% vas	

Table 5 Allergens that need to be added to the TRUE-Test® to complete the 2022 Spanish Standard Series (SSS).

MCI/MI ^a 0.02% aq
Formaldehyde 2% ^a 2.0% aq
Methylisothiazolinone 0.2% aq
Fragrance mix II 14.0% vas
Hydroxyethyl methacrylate 2.0% vas
Textile dye mix 6.6% vas
Linalool hydroperoxide 1.0% vas
Limonene hydroperoxide 0.3% vas

^a Inadequate concentrations in TRUE-Test®. The remaining allergens are not present.

and the possibility of co-sensitization due to common exposure in the workplace, jewelry, or tattoos.^{27,28} Potassium dichromate has undergone some nonsignificant variation in its frequency, possibly due to legislative changes in its main contact source, cement.^{24,29}

Biocides

Due to exposure risk, biocides form one of the most important groups since they are present in both industrial and cosmetic products. The latest sensitization data to MI from 2022 provide sensitization rates of 7.08% vs 4.49% for the MCI/MI mixture.²⁴ In 2018, MI showed a sensitization rate of up to 8.55%, indicating that, although high, there is a downward trend in sensitization rates.²⁴

There are two other 2-isothiazolinones under study: benzothiazolinone (BIT) and octylisothiazolinone (OIT). Both are prohibited in cosmetics. The main exposure source is

industrial products, detergents, and paints.^{29,30-33} BIT sensitization data in 2022 was 3.5%,⁸ which justifies its possible inclusion in the SSB. Due to the low relevance of positive tests, it was decided to keep it in the ESB. The OIT sensitization rate was very low, remaining in the ESB for consistency with the European battery only⁸ (tables 3 and 4).

Formaldehyde and formaldehyde releasers represent the second most important group of biocides.³¹ After changing patch concentration to 2% formaldehyde in water in 2014, many more cases of ACD can be established.^{12,32,33} Recent positivity data to formaldehyde reached 2.9% in the latest REIDAC analysis. Compared with the TRUE-Test, the latter detects only one-third of sensitization cases.³⁴ Of note that formaldehyde is not a good marker for sensitization to formaldehyde releasers.³⁵ Although quaternium-15 (formaldehyde releaser) has been removed from the European series, it is still in the SSB with a positivity rate of 1%.³⁶ More for historical reasons than justified by its sensitization rates, the SSB still lists imidazolidinyl urea (0.4% positivity) and diazolidinyl urea (0.5% positivity), while bronopol can be found in the ESB⁸ even though the prevalence of positives is similar vs the other 2 above-mentioned formaldehyde releasers.³⁷

Parabens are esters of p-hydroxybenzoic acid used as preservatives in cosmetic products and drugs. Although they have been identified as responsible for certain carcinogenic risk,³⁸ they are still unrestrictedly being used. The mixture consists of 4 parabens (methyl p-hydroxybenzoate 4%, propyl p-hydroxybenzoate 4%, butyl p-hydroxybenzoate 4%, and ethyl p-hydroxybenzoate 4%). One of the SSB suppliers only lists ethylparaben. Although positivity rate is only 0.5%, parabens are being kept in the SSB.

During the study period, the sensitization rate of sodium metabisulfite was monitored. In Europe, a 3.75% sensitization rate has been reported,⁶ while in Spain it has dropped down to 2.1%.³⁹ The percentage of present relevance according to European data is 50% (25% in the Spanish series), indicating the need to better understand the sources of sensitization, remaining in the ESB.⁴⁰⁻⁴²

Fragrances

Sensitization rates to the main fragrance markers (fragrance mix I and II), and Peru balsam (*Myroxylon pereirae* resin), continue to be high. Sensitization rates to fragrance mix I, fragrance mix II, and Peru balsam were 4.1%, 3.41%, and 3.22%, respectively.²⁴ In 2021, the sensitization rate to specific allergens in the fragrance series was published, with geraniol, isoeugenol, and *Evernia prunastri* being the most common allergens of all.⁴³ Citral and lylal were more common in cases of professional origin.⁴³

None of the 3 above-mentioned fragrance markers lists the terpenoids linalool and limonene or their hydroperoxides (considered responsible for sensitization).⁴⁴ Given the high positivity rate (4.6% for linalool and 3.3% for limonene) and the established positive relevance to both allergens (61.4% for linalool and 61.7% for limonene), they have been added to the SSB.⁸ Interpreting the reactions to these 2 allergens can be difficult as they can be considered irritants,^{45,46} which is why the 0.5% concentration for linalool hydroperoxide and the 0.2% for limonene hydroperoxide in the ESB is still under consideration.

Dyes/paraphenylenediamine

Nationwide, paraphenylenediamine (PPD) continues to be the go-to sensitizer in dyes.²⁴ The cause of sensitization mainly depends on the patient's age.⁴⁷ In children, it is associated with contact with adulterated henna tattoos,⁴⁸ while middle-aged individuals, it has been associated with the hairdressing career, and subsequently with hair dye users.⁴⁶

The textile mixture was listed as a candidate allergen back in the 2019 ESB with a sensitization rate in 2022 of up to 3.1%,^{8,24} which justifies its addition to the SSB8. This mix allows for the study of generalized or flexural ACD of clothing origin, which should be taken into consideration in the differential diagnosis with atopic dermatitis.^{32,49}

Plants

This is a very heterogeneous and difficult group to manage. The mix of sesquiterpene lactones and composite mixture are internationally recognized markers. For consistency with the European series, the two mixtures have been included in the ESB. The composite mixture (*Tanacetum vulgare*, *Arnica montana*, *Parthenolide*, *Chamomilla romana*, *Chamomilla recutita*, and *Tanacetum millefolium*) has a 2.31% sensitization rate in Europe²⁶ and a 0.43% sensitization rate in Spain.⁸ In the last European review, it was decided to increase its concentration from 2.5% up to 5%.^{7,50,51}

Other allergens in the SSB, such as colophony, propolis, or fragrances, could be less specific markers of plant sensitization.

Adhesives/glues

Epoxy resin continues to be considered an occupational sensitization marker,⁵² although there has been an increase in recreational cases,⁵³⁻⁵⁵ remaining in the SSB. The 4-tert-butylphenol formaldehyde resin is a good marker,⁵⁶ especially for foot dermatitis.⁵⁷ In recent years, and in relation to the sensitization epidemic to acrylates in users and professionals of nail cosmetics, hydroxyethyl methacrylate (HEMA) has been added to both the European standard series and the SSB. Other sources of sensitization are inks, lacquers, adhesives, and dental and medical materials. The sensitization rate for HEMA was 3.66%, which justifies its inclusion in the SSB, although the most recent data reveal a higher sensitization rate.²⁴

Vulcanization accelerators

Considering chronic hand eczema as the main reason for patient referral to Contact Dermatitis units, this group of allergens is a must in the SSB to rule out sensitization to gloves used as a protective measure. The thiuram mixture remains in the European series, but unlike these, in Spain, carbamate mixture remains (relevant sensitization rate at 1.9%).²⁴ The positivity rate for the mercapto mixture is 0.4%, and for mercaptobenzothiazole, 0.5%. The important thing is that the two of them associate a positive relevance > 60%, which keeps them in the SSB.

Vehicles and emulsifiers

Glucosides are non-ionic surfactants that show high sensitization in studies conducted in the United States.⁵⁸ This rate is lower in Europe and even lower in the Spanish population.⁵⁹ Decyl glucoside remains in the ESB for consistency with the European battery.

The rise of biocosmetics has justified interest in propolis. This hapten remains listed in the European standard series since 2019.⁶⁰ The sensitization rate in Central Europe from 2015 through 2018 was 3.94%,⁶¹ while in Spain it stands at 1.38%.⁸ Due to geographical heterogeneity in its sensitization,⁶² and its low—though non-negligible—sensitization rate in Spain, its presence in the ESB is justified to determine the areas where it is truly relevant.

Propylene glycol is an aliphatic alcohol, which is widely used in the industrial, agri-food, health care, and cosmetic fields. It presents both irritative and allergic reactions, with the optimal concentration for use in patches still to be elucidated. Due to its ubiquity, it was listed as a candidate allergen back in the 2022 ESB at concentrations of 30% and 100%.

The use of shellac, or shellac gum, has increased in the context of "natural" molecules. It is the purified form of the resin produced by the female bug of the *kerria lacca*. It is used in the wood industry, advanced technology, printing,

cosmetics, food, and pharmaceuticals. The publication of cases in Spain related to the food industry and the use of cosmetics suggested its study in the 2023 ESB.⁶³⁻⁶⁵

Sorbitan oleate and sorbitan sesquioleate were listed in the expanded European series in July 2023.⁷ These haptens are part of the vehicles used in other allergens, such as fragrances, Peru balsam, HEMA, and sunscreens at wholesale purchasing level.⁶⁶ The need for discriminating allergen sensitization or their vehicle has motivated their addition to the 2024 ESB.

Drugs

In drug-induced contact dermatitis, the first diagnostic suspicion should be directed towards excipients, including fragrances and Peru balsam. As active ingredients, neomycin stands out, which, although with low sensitization rates, is still considered an allergen used in creams for the management of wounds, ulcers, and burns.

Within the European and Spanish Standard Series, topical corticosteroids are represented by tixocortol pivalate and budesonide. At the meeting, the need for a marker of Group III corticosteroids, from Baeck's classification, was reported, so clobetasol propionate was proposed to be listed in the 2022 ESB.⁶⁷

Hand dermatitis and intolerance to cosmetics are the 2 most important reasons to seek medical attention in Contact Dermatitis unit, and without detriment to the need for specific batteries, the SSB must cover the higher number of patients treated.⁵ Since both the hands and the facial region are the main affected areas, the SSB must include the main allergens involved in these locations. Considering the above-mentioned premise, metals, biocides, fragrances, and vulcanization accelerators lead the SSB list.

Conclusions

The SSB is updated and should be used in all patients undergoing contact patch testing nationwide from January 2022 (Table 3).

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