

Mughal Avad (Orcid ID: 0000-0002-8164-1226)  
 Bhoyrul Bevin (Orcid ID: 0000-0002-1123-6882)  
 Holden Catherine (Orcid ID: 0000-0003-0137-5245)

Title:

**Ideal proportion of the population to be patch tested: How many should we be doing?**

Running title:

**Proportion patch test UK**

Key words:

**Contact dermatitis; cutaneous allergy; service evaluation; population; patch testing**

Authors:

**Avad A Mughal<sup>1\*</sup>, Ashima Lowe<sup>2</sup>, Sofia Hadjieconomou<sup>2</sup>, Bevin Bhoyrul<sup>3</sup>, Anthony Chu<sup>4</sup>, Sue M Cooper<sup>5</sup>, Preshita Divekar<sup>6</sup>, Glenda Hill<sup>7</sup>, Catherine R Holden<sup>8</sup>, Graham A Johnston<sup>9</sup>, Ruth A Sabroe<sup>8</sup>, K Scharrer<sup>10</sup>, Natalie Stone<sup>11</sup>, N Usmani<sup>12</sup>, S Mark Wilkinson.<sup>13</sup>**

Author Affiliations:

1. Neath and Port Talbot Hospital, Port Talbot \*Corresponding Author
2. University Hospital of Wales, Cardiff
3. Sinclair Dermatology, Melbourne
4. Hammersmith Hospital, London
5. Oxford University NHS Trust
6. Royal Cornwall Hospital, Truro
7. Wrexham Maelor Hospital, Wrexham
8. Sheffield Teaching Hospitals NHS Foundation Trust
9. Leicester Royal Infirmary, Leicester
10. Lincoln County Hospital, Lincoln
11. St. Woolos Hospital, Newport
12. Mid Yorkshire NHS Trust
13. Chapel Allerton Hospital, Leeds

**Conflicts of Interest:** None declared

## Summary

### Background

How many patients should we be patch testing? A previous study suggested that the minimum proportion of a population to be patch tested for allergic contact dermatitis was 1:700 annually.

### Objectives

To evaluate if the current minimum rate for patch testing has changed over the 20 years since the previous study in order to maximise the value.

### Methods

In cooperation with the British Society for Cutaneous Allergy, a proforma for collation of retrospective data between January 2015 and December 2017 was sent to patch test centres in the United Kingdom (UK) and Republic of Ireland (ROI). The number of positive tests was analysed against the proportion of population tested to see what proportion of the population would yield the greatest number of positive results.

### Results

Responses from 11 centres showed that the minimum number needed to patch test had increased to 1:550 per head of population per year using the current criteria.

### Conclusions

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In agreement with previous studies, we should be patch testing more people than we are. We could reduce the threshold for referral of patients we patch test to derive the most benefit from this investigation.

## INTRODUCTION

Contact dermatitis accounts for 4-7% of dermatology consultations<sup>1</sup>. In 2017, the point prevalence of dermatitis in the UK was estimated to be approximately 20% with the majority accounted for by atopic eczema<sup>2</sup>. The prevalence of contact sensitisation to a specific hapten in the European Baseline Series (EBS) has been estimated to be between 10% and 27% with nickel the most common hapten<sup>3, 4</sup>. Other common haptens include fragrances, cobalt and black hair dye (paraphenylenediamine). However, these studies did not necessarily state if positive patch test results were relevant.

In recent years, the EBS has evolved and expanded to take into account changing patterns of allergy of the European population<sup>17</sup>. For example, the methylisothiazolinone epidemic resulted in a change in concentration of the patch test reagent from 0.01% aq to 0.2% aq in the European Standard Battery (ESB), with the change subsequently recommended for the American Baseline Series<sup>5</sup>. Patch testing is the standard investigation for allergic contact dermatitis<sup>6</sup>. However, should we be testing 10%-27% of the population in accordance with prevalence to maximise diagnostic yield? In the occupational setting, contact dermatitis accounts for 70-90% of skin disease, suggesting that its prevalence may vary depending on the risk of sensitisation. Allergic contact dermatitis caused by one hapten may indicate the presence of unknown and potentially relevant contact dermatitis to other haptens either by simultaneous exposure or molecular similarities such as contact allergy to a local anaesthetic as a result of exposure to a foam dressing<sup>7</sup>.

The likelihood of relevance of positive patch test results in the general population is difficult to predict and can only be inferred by extrapolation. In their 1999 article, Bhushan and Beck audited the positivity rates of patch test referrals against the proportion of the population tested<sup>8</sup>. They suggested that the minimum patch test referral rate for urban parts of a developed country is 1 per 700 (1416 per million inhabitants) of the total population of the area per year. The proportion of 1:700 of the population to be patch tested which they recommended has remained the reference standard for UK guidelines since. In 2018, a national audit of 91 patch test centres in the UK and Republic of Ireland revealed only a small minority met this target, with the actual proportion of their population being tested ranging between 1:1400 and 1:1600 per year<sup>9</sup>. Our objective was to determine if 1:700 per year was still an ideal proportion 20 years on from Bhushan and Beck's original study.

## MATERIALS AND METHODS

A list of patch test centres across the UK and ROI was available to the authors from the national survey conducted in 2018.<sup>9</sup> The following information was requested from each centre: (1) the size of the population serviced, also referred to as the catchment population; (2) the number of patients patch tested; and (3) the number of positive results (with relevance) between January 2015 and December 2017. All centres tested to the British Standard Series of patch test haptens in the form that was present at the time of testing. All centres applied patches on day 0 and performed readings on day 2 and day 4 as per the national guidelines. Additional patch test batteries varied among centres. A list of the patch test batteries can be found in supplemental data (S1-S6) as well as methodology for patch testing (S7).

The above data was recorded in electronic databases by individual centres as part of annual data collection requirements stipulated in patch testing standards<sup>2</sup>. The completed proformas were analysed using pivot table and chart with Microsoft Excel<sup>TM</sup>. Exemption from ethics approval was granted by the Abertawe Bro Morgannwg University Health Board research and development committee who deemed that the study was a service evaluation.

## RESULTS

Of the 80 centres which were still contactable (many had changed from the previous study due to retirement, mergers and replacements), 11 responded with usable data (13.75%). This represented a large geographical area including North, South East and South West Wales, and North East, Central, South East and South West England. A total of 12,242 patients were tested in that period (3842 male and 8550 female). The mean age of patients tested in each centre ranged from 38 to 67 years, with an overall mean age of 47 years. 4974 (40.6%) were atopic. Affected areas included the hands, legs and face in 3596 (29.4%), 1467 (12.0%) and 3746 (30.6%) cases respectively (where recorded). Figure 1 shows the number of patients tested in each centre against the number of relevant positive results for that centre.

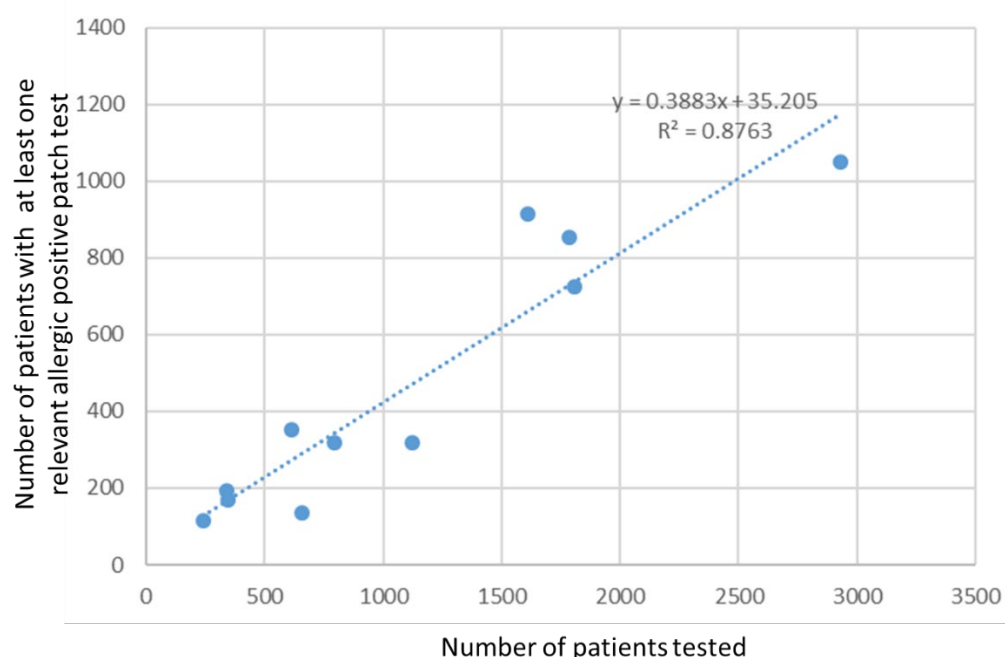


Figure 1. Number of patients tested (x-axis) against number of relevant positive results (y-axis). The line of best fit is shown and labelled with formula and  $R^2$  value.

There is a clear linear correlation between the number of patients tested and the number of relevant positive results. It is possible that the proportion of positive tests plateaus between 2000 and 3000 although in the absence of more data sets between these values, we cannot be certain. The correlation to the line of best fit is given by Pearson's R as 0.936 with a corresponding  $p < 0.0001$ .

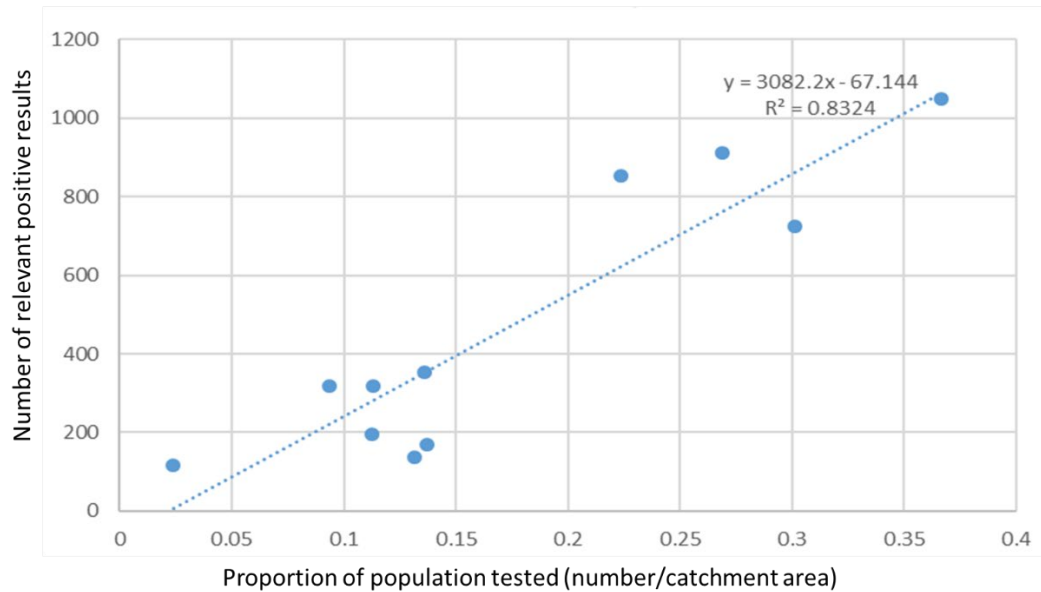


Figure 2a. Proportion of population patch tested (number of patients patch tested divided by catchment population, x-axis) against number of positive tests (y-axis). The line of best fit is shown and labelled with formula and  $R^2$  value.

Figure 2a shows the proportion of the population of each patch test centre that was tested during that time period against the number of relevant positive results. Once again there is a clear linear relationship showing that the greater the proportion of the population tested, the greater number of positive, relevant results, this time without reaching a plateau. The Pearson's R here is 0.912 with a corresponding  $p < 0.0001$ .

The highest figure is 0.366% of a population of 800,000 head over a period of two years which equates to 1:546 patients to be tested per annum.

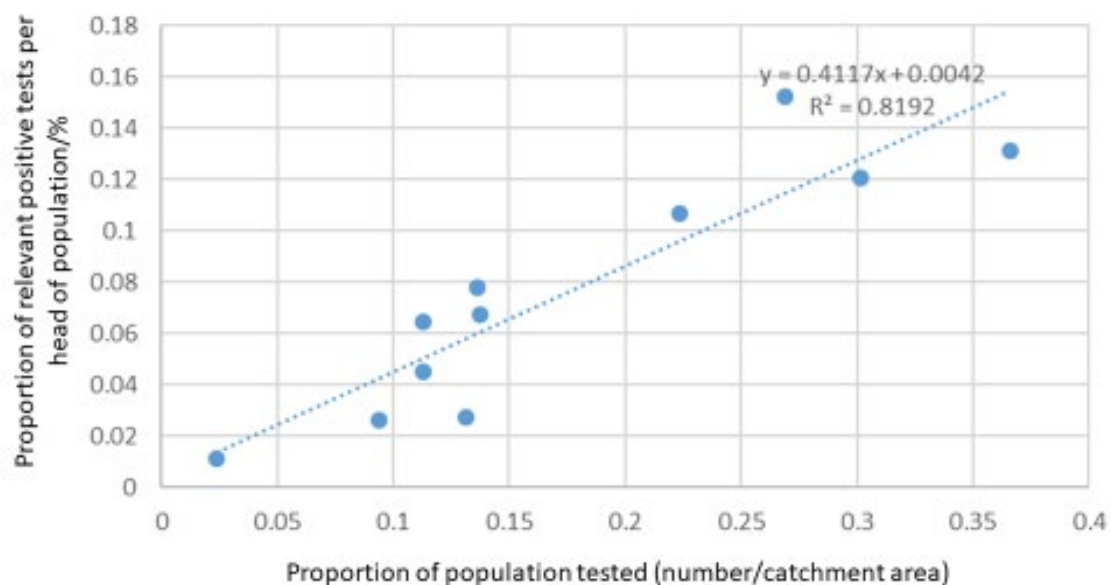


Figure 2b. Proportion of positive patch tests (number of positive relevant tests divided by catchment population, y-axis) against proportion of catchment population tested (x-axis) the

Figure 2b shows the proportion of positive patch tests against the proportion of the catchment population tested. This also has a high correlation to the trend line with  $p < 0.001$ . The highest yield of positive results here is 0.269% of 600,000 inhabitants with 913 relevant positive tests (0.152% of the population) over two years which equates to 1:807 patients to be tested per annum. This figure is a different analysis to current criteria used.

## DISCUSSION

Our results demonstrate a strong linear correlation between the number of positive patch test results and the total number of patients tested ( $p < 0.0001$ ). There is an equal strong correlation between the number of positive patch test results and the proportion of the total population tested ( $p < 0.0001$ ). The conclusions of the 1999 study were based on the patch test results carried out in one centre and read by a single dermatologist. Ours took advantage of a wider geographical area and different consultant perspectives. However, the numbers of data sets were similar, with 10 in the original study and 11 in ours. The relatively low numbers of respondents in the current study as opposed to the national audit we conducted in 2018 confirms, as we found then, that data recording remains one of the poorest performing aspects of patch testing, both regionally and nationally<sup>9,10</sup>.

Using the same criteria as Bhushan and Beck in 1999, the number of positive tests did not plateau or decrease at the highest rate of testing. Therefore, our data suggest that we do not reach a point where we are patch testing too many patients. Over the 20 years since the last study was performed, the proportion of 1:700 has increased to 1:546 (according to our results).

In addition, this study contradicts a previous study by Statham *et al* (2011) which demonstrated that the proportion of positive relevant patch test results in UK test centres decreased as the proportion of the population tested increased<sup>11</sup>. Our study shows this is not the case with an equal number of centres analysed but over two years rather than four. There does not appear to be a reduction in positive reactions as patch testing increases. However, the proportion of positive patch test results in our study (median 47.8%, mean 43.8%) was similar to Statham *et al*'s (mean 46.7%). Koh and Walton (1994) suggested a higher rate of positive patch tests (64.6%) but their sample included only one centre and a smaller number of patch tests. Additionally, this would not be directly comparable as the ESB at the time of their study was less extensive<sup>12</sup>.

The original study by Bhushan and Beck did not suggest a maximum number of patients to be patch tested. Based on their criteria, 1:700 (0.0014%) was the minimum proportion of the population who should be patch tested. Using the same criteria, we have demonstrated that 1:546 (0.0018%) now represents a more accurate minimum figure for the proportion of the population to be patch tested. The estimated prevalence of allergic contact sensitisation is between 10% and 27% of the population, although data on associated clinical findings and relevance is lacking in most studies. The question arises as to whether or not this is the right method to examine what proportion should be patch tested as it is derived from the number of patients referred for patch testing but does suggest that our current threshold for referral is too high.

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As every centre has a different catchment population and is testing different proportions, it was suggested that a more accurate representation of positivity would be to measure the proportion of positive tests against proportion of population tested (see figure 2b). In this analysis, the proportion of positive results reduced after 0.269% of the 600,000 inhabitants tested over two years. This equated to 1:807 patients to be tested per annum. This figure is less than the current criterion of 1:700 used in UK guidelines but still one that is not currently being reached<sup>9</sup>.

At present, our UK guidelines restrict patch testing indications to those who have a chronic or persistent dermatitis or atopic/endogenous dermatitis previously controlled with topical therapy which subsequently becomes refractory to the same treatment<sup>2</sup>. However, we know that allergic contact dermatitis may manifest in other unusual forms from sinusitis to blistering<sup>13, 14</sup>. There may be many more non-eczematous manifestations which remain undiagnosed and therefore never result in patch testing. Whilst both UK and European guidelines acknowledge that other types of dermatitis/dermatoses (including mucosal conditions) may be a manifestation of contact allergy and recommend patch testing, failure to recognise this may result in fewer referrals<sup>18</sup>.

Applying models from existing screening programmes may be a more accurate way to tell how many people and which demographic groups need to be patch tested. For this we would need to evaluate the condition, the test and the intervention<sup>15</sup>. The condition itself is certainly an important health issue which has a high prevalence and results in work absences if the cause is not identified. Many cost-effective primary prevention measures are already in place such as restriction to exposure of common haptens and personal protective measures. The above analysis only covers those who had a clinical indication to be referred for patch testing, thus numbers tested are likely to be much higher.

Patch testing is a low cost, efficient and relatively harmless test with active sensitisation being rare<sup>2</sup>. Finally, the intervention of avoiding the hapten is not only immediately helpful to the patient but in the case of highly sensitising haptens, beneficial for the population as a whole as it results in policy change to restrict exposure to such haptens (e.g. nickel) resulting in measurable positive outcomes<sup>16</sup>. However, this would need to be balanced against overall cost and risk to those with no clinical indication.

In summary, our study shows that, in the UK, we are probably not patch testing enough patients and that our criteria for patch testing may need to be expanded to the general population as a screening tool rather than being limited to those with resistant dermatoses. Only by increasing numbers of patch tests to that level will we be able to demonstrate the point at which the rate of relevant positive tests begins to plateau.

### Acknowledgements

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**Supplementary Files**

- S1 Swansea Bay Patch Test Series
- S2- Leeds Patch Test Series
- S3- Leicester Patch Test Series
- S4- Oxford Patch Test Series
- S5- University Hospital London Patch Test Series
- S6- Wrexham Maelor Patch Test Series
- S7- Patch Test Methodology
- S8- Additional tests by centres

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## PATCH TEST SERIES

|                        |                             |
|------------------------|-----------------------------|
| BASELINE               | 1 - 70                      |
| ACRYLATE ADHESIVE/NAIL | 1 - 23                      |
| ACRYLATE PRINTING      | 1 - 25                      |
| ANTI-INFECTIVE         | 1-8; 9-15; 16-23; 24-27; 28 |
| BAKERY                 | 1 - 19                      |
| COSMETIC               | 1-14                        |
| DENTAL                 | 1 - 35                      |
| DRESSINGS              | 1 - 12                      |
| EAR                    | see notes                   |
| EPOXY                  | 1 - 17                      |
| EXCIPIENT              | 1-12                        |
| EYE                    | 1 - 8                       |
| FINGER                 | 1 - 6                       |
| FORMALDEHYDE RESIN     | 1 - 7                       |
| FRAGRANCE & FLAVOUR    | 1-15, 16-31, 41-50, 51-65   |
| HAIRDRESSING           | 1 - 15                      |
| ISOCYANATE             | 1 - 6                       |
| LEG ULCER              | see notes                   |
| LIP                    | see notes                   |
| MEDICAMENT             | 1 - 5                       |
| METALS                 | 1 - 17, 18-34               |
| MIXES                  | see individual mix          |
| OIL AND COOLANT        | 1 - 26                      |
| PERIANAL               | 1 - 8                       |
| PHOTO PATCH TEST       | 1 - 27                      |
| PLANT                  | 1 - 14                      |
| PLASTIC ADDITIVES      | 1 - 22                      |
| RUBBER CHEMICAL        | 1-3, 4-6, 7-9, 10-30        |
| SEX STEROID            | 1-4                         |
| SHOE                   | 1 - 27                      |
| STEROID pure           | 1-11                        |
| STEROID CREAM          | 1-11                        |
| TEXTILE                | 1-25, 26-35                 |

# BASELINE SERIES

|    | <b>allergen</b>                             | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |
|----|---------------------------------------------|-------------------------------|---------------------------|-----------------------|
| 1  | N-isopropyl-N-phenylphenylenediamine (IPPD) | 0.1% pet                      | A ST168                   | EBS 11                |
| 2  | nickel sulphate                             | 5% pet                        | A ST167                   | EBS 7                 |
| 3  | Evernia furfuracea                          | 1% pet                        | C E026                    | F 37                  |
| 4  | colophonium                                 | 20% pet                       | A NA24                    | EBS 9                 |
| 5  | parabens mix                                | 16% pet                       | A ST169                   | EBS 10                |
| 6  | mercaptobenzothiazole                       | 2% pet                        | A ST160                   | EBS 17                |
| 7  | quaternium 15                               | 1% pet                        | A AP106                   | BBS 18                |
| 8  | lanolin (and derivatives) - wool alcohols   | 30% pet                       | A NA64                    | BBS 12                |
| 9  | epoxy resins                                | 1% pet                        | A NA33                    | EBS 14                |
| 10 | neomycin                                    | 20% pet                       | A NA51                    | EBS 4                 |
| 11 | potassium dichromate                        | 0.5% pet                      | A ST170                   | EBS 1                 |
| 12 | PTBP resin                                  | 1% pet                        | A NA08                    | EBS 16                |
| 13 | fragrance mix I                             | 8% pet                        | A NA38                    | EBS 19                |
| 14 | chlorocresol                                | 1% pet                        | A EE367                   | AP 30                 |
| 15 | carba mix                                   | 3% pet                        | C MX06                    | BBS 35                |
| 16 | parthenolide                                | 0.1pet                        | C P029                    | PL 13                 |
| 17 | thiuram mix                                 | 1% pet                        | A NA60                    | EBS 3                 |
| 18 | formaldehyde                                | 2% aq                         | C F002B                   | BBS 7                 |
| 19 | p-phenylenediamine (PPD)                    | 1% pet                        | A NA07                    | EBS 2                 |
| 20 | <i>Myroxylon pereirae</i> (balsam of Peru)  | 25% pet                       | A NA12                    | IBS 22                |
| 21 | parachlorometaxylenol (PCMX)                | 1% pet                        | A NA06                    | AP 21                 |
| 22 | cobalt chloride                             | 1% pet                        | A NA21                    | EBS 5                 |
| 23 | caine mix III                               | 10% pet                       | C MX19                    | BBS 6                 |
| 24 | mercapto mix                                | 2% pet                        | C MX05A                   | BBS 13                |
| 25 | methyldibromoglutaronitrile                 | 0.3% pet                      | C D049A                   | BBS 32                |
| 26 | imidazolidinyl urea                         | 2% pet                        | A NA43                    | IBS 17                |
| 27 | black rubber mix                            | 0.6% pet                      | C Mx04                    |                       |
| 28 | bromo-2-nitropropane-1,3-diol               | 0.5% pet                      | A NA03                    | AP 10                 |
| 29 | cetyl alcohol, stearyl alcohol              | 20% pet                       | C C033                    | BBS 26                |
| 30 | methylchloro- & methyl-isothiazolinone      | 0.02% aq                      | C C009B                   | BBS 20                |
| 31 | sesquiterpene lactone mix                   | 0.1% pet                      | A NA57                    | EBS 20                |
| 32 | tixocortol pivalate                         | 1% pet                        | C T031A                   | EBS 28                |
| 33 | betamethasone valerate                      | 1% EtOH                       | own (pharmacy sheet)      |                       |
| 34 | budesonide                                  | 0.01% pet                     | C B033A                   | IBS 45                |
| 35 | clobetasol propionate                       | 1% EtOH                       | own (pharmacy sheet)      |                       |
| 36 | lidocaine hydrochloride                     | 15% pet                       | A NA47                    | LA 8                  |
| 37 | decyl glucoside                             | 5% pet                        | A NA74                    | EE 8                  |
| 38 | Compositae mix                              | 2.5% pet                      | C MX29B                   | BBS 39                |
| 39 | diazolidinyl urea                           | 2% pet                        | C D044A                   | BBS 31                |
| 40 | hydroxy isohexyl cyclohexene carboxaldehyde | 5% pet                        | A ST161                   | BBS 38                |

|    |                                  |          |                      |     |    |
|----|----------------------------------|----------|----------------------|-----|----|
| 41 | disperse blue (106/124) mix      | 1% pet   | C MX26               | BBS | 37 |
| 42 | fragrance mix II                 | 14% pet  | C MX25               | BBS | 36 |
| 43 | propolis                         | 10% pet  | C P022               | PL  | 6  |
| 44 | sodium metabisulphite            | 1% pet   | A EM408              | C   | 51 |
| 45 | amerchol                         | 50%      | C A004               | C   | 2  |
| 46 | dialkyl thiourea mix             | 1% pet   | C MX24               | IBS | 24 |
| 47 | phenoxyethanol                   | 1% pet   | A CL438              | C   | 43 |
| 48 | methylothiazolinone              | 0.2% aq  | C M035B              | BBS | 40 |
| 49 | linalool hydroperoxide           | 1% pet   | C H031               | F   | 43 |
| 50 | limonene hydroperoxide           | 0.3% pet | C H032               | F   | 44 |
| 51 | linalool hydroperoxide           | 0.5% pet | C H031B              | F   | 46 |
| 52 | limonene hydroperoxide           | 0.2% pet | C H032B              | F   | 47 |
| 53 | potassium sorbate                | 5% pet   | own (pharmacy sheet) |     |    |
| 54 | DMDM hydantoin                   | 2% aq    | C D047A              | C   | 44 |
| 55 | sodium benzoate                  | 5% pet   | C S001               | B   | 4  |
| 56 | benzisothiazolinone              | 0.1% pet | A CL431              | CL  | 4  |
| 57 | iodopropynyl butylcarbamate      | 0.2% pet | A AP98               | AP  | 38 |
| 58 | <i>Cananga odorata</i>           | 2% pet   | A NA65               | PF  | 13 |
| 59 | <i>Jasminum officinale</i>       | 2% pet   | A NA76               | PF  | 31 |
| 60 | <i>Mentha piperita</i>           | 2% pet   | A NA82               | PF  | 38 |
| 61 | octylisothiazolinone             | 0.1% pet | C 0004               | O   | 33 |
| 62 | <i>Melaleuca alternifolia</i>    | 5% pet   | C T035B              | C   | 46 |
| 63 | <i>Santalum album</i>            | 2% pet   | C S009               | F   | 24 |
| 64 | majantole                        | 5% pet   | C M033               | F   | 42 |
| 65 | turpentine oil                   | 10% pet  | A ST172              | C   | 40 |
| 66 | formaldehyde                     | 3% aq    | own (pharmacy sheet) |     |    |
| 67 | phenol formaldehyde resin [PFR2] | 1% pet   | C P005               | PG  | 12 |
| 68 | 2-hydroxyethyl methacrylate      | 2% pet   | C H010               | A   | 3  |
| 69 | lauryl glucoside                 | 3% pet   | C L004               | C   | 49 |
| 70 | methylene-bis-oxazolidine        | 1% pet   | A CL435              | CL  | 27 |

## ACRYLATE ADHESIVE & NAIL

|    | <b>allergen</b>                     | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|----|-------------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1  | methyl methacrylate                 | 2% pet                        | C M013                    | MA                    | 1  |
| 2  | n-butyl methacrylate                | 2% pet                        | C B021                    | MA                    | 2  |
| 3  | 2-hydroxypropyl methacrylate        | 2% pet                        | C H018                    | MA                    | 4  |
| 4  | ethyleneglycol dimethacrylate       | 2% pet                        | C E007                    | MA                    | 5  |
| 5  | triethyleneglycol dimethacrylate    | 2% pet                        | C T018                    | MA                    | 6  |
| 6  | 1,4-butanediol dimethacrylate       | 2% pet                        | C B017                    | MA                    | 7  |
| 7  | urethane dimethacrylate             | 2% pet                        | C U004                    | MA                    | 8  |
| 8  | BIS-MA                              | 2% pet                        | C M007                    | MA                    | 9  |
| 9  | BIS-GMA                             | 2% pet                        | C H013                    | MA                    | 10 |
| 10 | 1,6-hexanediol diacrylate           | 0.1% pet                      | C H004                    | MA                    | 11 |
| 11 | tetrahydrofurfuryl methacrylate     | 2% pet                        | C T027                    | MA                    | 12 |
| 12 | tetraethyleneglycol dimethacrylate  | 2% pet                        | C T029                    | MA                    | 13 |
| 13 | N,N-dimethylaminoethyl methacrylate | 0.2% pet                      | C D045                    | MA                    | 14 |
| 14 | N,N-dimethyl-p-toluidine            | 2% pet                        | A DM225                   | PG                    | 52 |
| 15 | butyl acrylate                      | 0.1% pet                      | C B018                    | MN                    | 1  |
| 16 | ethyl methacrylate                  | 2% pet                        | C E012                    | MN                    | 2  |
| 17 | trimethylolpropane triacrylate      | 0.1% pet                      | C T021                    | MN                    | 9  |
| 18 | ethyl acrylate                      | 0.1% pet                      | C E004                    | MN                    | 11 |
| 19 | 2-hydroxyethyl acrylate             | 0.1% pet                      | C H009                    | MN                    | 12 |
| 20 | triethyleneglycol diacrylate        | 0.1% pet                      | C T017                    | MN                    | 13 |
| 21 | ethyl cyanoacrylate                 | 10% pet                       | C E023                    | MA                    | 15 |
| 22 | benzoyl peroxide                    | 1% pet                        | A DM218                   | B                     | 4  |
| 23 | isobornyl acrylate                  | 0.1% pet                      | C I 019                   |                       |    |

## ACRYLATE PRINTING

|    | <b>allergen</b>                  | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|----|----------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1  | ethyl acrylate                   | 0.1% pet                      | C E004                    | MP                    | 1  |
| 2  | 2-ethylhexyl acrylate            | 0.1% pet                      | C E009                    | MP                    | 2  |
| 3  | 2-hydroxyethyl acrylate          | 0.1% pet                      | C H009                    | MP                    | 3  |
| 4  | 2-hydroxypropyl acrylate         | 0.1% pet                      | C H017                    | MP                    | 4  |
| 5  | methyl methacrylate              | 2% pet                        | C M013                    | MP                    | 5  |
| 6  | ethyl methacrylate               | 2% pet                        | C E012                    | MP                    | 6  |
| 7  | n-butyl methacrylate             | 2% pet                        | C B021                    | MP                    | 7  |
| 8  | 2-hydroxypropyl methacrylate     | 2% pet                        | C H018                    | MP                    | 9  |
| 9  | ethyleneglycol dimethacrylate    | 2% pet                        | CE007                     | MP                    | 10 |
| 10 | triethyleneglycol dimethacrylate | 2% pet                        | C T018                    | MP                    | 11 |
| 11 | BIS-EMA                          | 2% pet                        | C M006B                   | MP                    | 12 |
| 12 | 1,4-butanediol diacrylate        | 0.1% pet                      | C B016                    | MP                    | 13 |
| 13 | 1,6-hexanediol diacrylate        | 0.1% pet                      | CH004                     | MP                    | 14 |
| 14 | diethyleneglycol diacrylate      | 0.1% pet                      | C D009                    | MP                    | 15 |
| 15 | tripropyleneglycol diacrylate    | 0.1% pet                      | C T023                    | MP                    | 16 |
| 16 | trimethylolpropane triacrylate   | 0.1% pet                      | C T021                    | MP                    | 17 |
| 17 | pentaerythritol triacrylate      | 0.1% pet                      | C P002                    | MP                    | 18 |
| 18 | oligotriacrylate 480             | 0.1% pet                      | C 0003                    | MP                    | 19 |
| 19 | epoxy acrylate                   | 0.5% pet                      | C E001                    | MP                    | 20 |
| 20 | urethane diacrylate-aliphatic    | 0.1% pet                      | C U002                    | MP                    | 21 |
| 21 | urethane diacrylate-aromatic     | 0.05% pet                     | CU003                     | MP                    | 22 |
| 22 | triethyleneglycol diacrylate     | 0.1% pet                      | C T017                    | MP                    | 23 |
| 23 | N,N-methylenebisacrylamid        | 1% pet                        | C M023                    | MP                    | 24 |
| 24 | N,N-dimethyl-p-toluidine         | 2% pet                        | A DM225                   | D                     | 7  |
| 25 | benzoyl peroxide                 | 1% pet                        | A DM218                   | D                     | 1  |

## ANTI-INFECTIVE SERIES

|                        | allergen                  | vehicle & dilution | company & code | series & # |    |
|------------------------|---------------------------|--------------------|----------------|------------|----|
| <i>antiseptic</i>      |                           |                    |                |            |    |
| 1                      | thiomersal                | 0.1% pet           | A EM409        | AP         | 73 |
| 2.                     | betadine aqueous          | as is              | own (stores)   |            |    |
| 3                      | phenylmercuric acetate    | 0.01% aq           | A AP101        | AP         | 60 |
| 4.                     | chlorhexidine diacetate   | 0.5% aq            | C C004         | V          | 11 |
| 5                      | chloracetamide            | 0.2% pet           | A AP85         | AP         | 22 |
| 6.                     | chlorhexidine digluconate | 0.5% aq            | A AP84         | AP         | 18 |
| 7                      | benzalkonium chloride     | 0.1% pet           | A AP77         | AP         | 1  |
| 8.                     | triclosan                 | 2% pet             | A AP110        | AP         | 76 |
| 9.                     | clioquinol                | 5% pet             | A AP86         | EBS        | 8  |
| 10.                    | chlorquinaldol            | 5% pet             | A MS372        | AA         | 5  |
| 11                     | framycetin                | 10% pet            | A AA428        | AA         | 10 |
| 12.                    | polymixin                 | 3% pet             | A EM405        | AA         | 21 |
| 13.                    | bacitracin                | 20% pet            | A NA11         | AA         | 2  |
| 14                     | chloramphenicol           | 5% pet             | C C032         | M          | 1  |
| 15                     | sodium fusidate           | 2% pet             | A AA418        | BBS        | 27 |
| <i>oral antibiotic</i> |                           |                    |                |            |    |
| 16.                    | gentamicin sulphate       | 20% pet            | A AA419        | AA         | 12 |
| 17                     | clarithromycin            | 10% pet            | CC041          | CAD        | 9  |
| 18                     | amoxicillin               | 10% pet            | C A030         | CAD        | 2  |
| 19                     | cotrimoxazole             | 10% pet            | C C042         | CAD        | 11 |
| 20                     | erythromycin              | 10% pet            | C E024         | CAD        | 7  |
| 21.                    | oxytetracycline           | 3% pet             | A AA422        | AA         | 20 |
| 22                     | ciprofloxacin             | 10% pet            | C C043         | CAD        | 13 |
| 23                     | norfloxacin               | 10% pet            | C N007         | CAD        | 12 |
| <i>Antifungal</i>      |                           |                    |                |            |    |
| 24                     | clotrimazole              | 1% pet             | A AA426        | AA         | 7  |
| 25                     | miconazole                | 1% EtOH            | C M027         | M          | 10 |
| 26                     | econazole nitrate         | 1% EtOH            | C E021         | M          | 11 |
| 27                     | nystatin                  | 2% pet             | A AA421        | AA         | 18 |
| <i>Antiviral</i>       |                           |                    |                |            |    |
| 28                     | aciclovir                 | 10% pet            | C A033         | CAD        | 23 |

## BAKERY SERIES

|    | <b>allergen</b>      | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|----|----------------------|-------------------------------|---------------------------|-----------------------|----|
| 1  | vanillin             | 10% pet                       | C V001                    | B                     | 1  |
| 2  | eugenol              | 2% pet                        | C E016                    | B                     | 2  |
| 3  | isoeugenol           | 2% pet                        | C I002                    | B                     | 3  |
| 4  | sodium benzoate      | 5% pet                        | C S001                    | B                     | 4  |
| 5  | BHT                  | 2% pet                        | C D006                    | B                     | 5  |
| 6  | menthol              | 2% pet                        | C M002                    | B                     | 6  |
| 7  | cinnamic alcohol     | 2% pet                        | C C013                    | B                     | 7  |
| 8  | cinnamic aldehyde    | 1% pet                        | C C014                    | B                     | 8  |
| 9  | BHA                  | 2% pet                        | C B022                    | B                     | 9  |
| 10 | anethole             | 5% pet                        | C A015                    | B                     | 10 |
| 11 | sorbic acid          | 2% pet                        | C S003                    | B                     | 11 |
| 12 | benzoic acid         | 5% pet                        | C B005                    | B                     | 12 |
| 13 | propionic acid       | 3% pet                        | C P018                    | B                     | 13 |
| 14 | octyl gallate        | 0.25% pet                     | C O002                    | B                     | 14 |
| 15 | dipentene            | 2% pet                        | A NA92                    | BA                    | 12 |
| 16 | ammonium persulphate | 2.5% pet                      | C A011                    | B                     | 16 |
| 17 | benzoyl peroxide     | 1% pet                        | C B007                    | B                     | 17 |
| 18 | propyl gallate       | 1% pet                        | C P021                    | B                     | 18 |
| 19 | dodecyl gallate      | 0.25% pet                     | C D042                    | B                     | 19 |

## COSMETIC SERIES

|    | <b>allergen</b>               | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|----|-------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1  | tosylamide/formaldehyde resin | 10% pet                       | A NA62                    | C                     | 61 |
| 2  | cocamide DEA                  | 0.5% pet                      | A NA23                    | C                     | 19 |
| 3  | ditertiary butyl hydroquinone | 1% pet                        | C B028                    | C                     | 36 |
| 4  | tocopheryl acetate            | 10% pet                       | C T037B                   | C                     | 52 |
| 5  | monoethanolamine              | 2% pet                        | A CL436                   | CL                    | 29 |
| 6  | dimethylaminopropylamine      | 1% pet                        | C D053                    | C                     | 48 |
| 7  | cocamidopropyl betaine        | 1% aq                         | C C018                    | C                     | 33 |
| 8  | retinyl palmitate (vitamin A) | 0.5% pet                      | own                       |                       |    |
| 9  | d-panthenol                   | 5% pet                        | A MS373                   | EM                    | 9  |
| 10 | oleamidopropyl dimethylamine  | 0.1% aq                       | C O005                    | C                     | 56 |
| 11 | triethanolamine               | 2% pet                        | C T016                    | C                     | 3  |
| 12 | shellac                       | 20% EtOH                      | C S015                    | C                     | 51 |
| 13 | aluminium hydroxide           | 10% pet                       | A MC262                   | MC                    | 1  |
| 14 | cetearyl glucoside            | 5% pet                        | C 056                     |                       |    |

**excipient series 1 - 12**

**photo-patch test series 1 - 20**

**anti-infective series 1 - 16**

**plus:**

products

patient's own

## DENTAL

|     | <b>allergen</b>                  | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|-----|----------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1.  | methyl methacrylate              | 2% pet                        | C MO13                    | DS                    | 1  |
| 2.  | triethyleneglycol dimethacrylate | 2% pet                        | C TO18                    | DS                    | 2  |
| 3.  | urethane dimethacrylate          | 2% pet                        | C U004                    | DS                    | 3  |
| 4.  | ethyleneglycol dimethacrylate    | 2% pet                        | C E007                    | DS                    | 4  |
| 5.  | BIS-GMA                          | 2% pet                        | C H013                    | DS                    | 5  |
| 6.  | N,N-dimethyl-4-toluidine         | 5% pet                        | C D016                    | DS                    | 6  |
| 7.  | 2-hydroxy-4-methoxybenzophenone  | 10% pet                       | C H014C                   | DS                    | 7  |
| 8.  | 1,4-butanediol dimethacrylate    | 2% pet                        | C B017                    | DS                    | 8  |
| 9.  | BIS-MA                           | 2% pet                        | C M007                    | DS                    | 9  |
| 10. | mercury                          | 0.5% pet                      | C M005                    | DS                    | 11 |
| 11. | 2-hydroxyethyl methacrylate      | 2% pet                        | C H010                    | DS                    | 13 |
| 12. | gold sodium thiosulphate         | 2% pet                        | C G005B                   | DS                    | 14 |
| 13. | eugenol                          | 2% pet                        | C E016                    | DS                    | 16 |
| 14. | N-ethyl-4-toluenesulphonamide    | 0.1% pet                      | C E015                    | DS                    | 18 |
| 15. | 4-tolyldiethanolamine            | 2% pet                        | C T011                    | DS                    | 20 |
| 16. | copper sulphate                  | 2% pet                        | C C022                    | DS                    | 21 |
| 17. | methylhydroquinone               | 1% pet                        | C M025                    | DS                    | 22 |
| 18. | palladium hydrochloride          | 2% pet                        | C P001                    | DS                    | 23 |
| 19. | aluminium chloride               | 2% pet                        | C AO22                    | DS                    | 24 |
| 20. | camphoroquinone                  | 1% pet                        | C C026                    | DS                    | 25 |
| 21. | dimethylaminoethyl methacrylate  | 0.2% pet                      | C D045                    | DS                    | 26 |
| 22. | 1,6-hexanediol diacrylate        | 0.1% pet                      | C H004                    | DS                    | 27 |
| 23. | hydroxymethylphenylbenzotriazole | 1% pet                        | C H016                    | DS                    | 28 |
| 24. | tetrahydrofurfuryl methacrylate  | 2% pet                        | C T027                    | DS                    | 29 |
| 25. | tin                              | 50% pet                       | C T008                    | DS                    | 30 |
| 26. | benzoyl peroxide                 | 1% pet                        | A DM218                   | DP                    | 6  |
| 27. | tetracaine hydrochloride         | 1% pet                        | A DM229                   | EM                    | 25 |
| 28. | potassium dicyanoaurate          | 0.002% aq                     | A DM227                   | MC                    | 37 |
| 29. | hydroquinone                     | 1% pet                        | A PC626                   | DP                    | 19 |
| 30. | bisphenol A                      | 1% pet                        | A DM220                   | PG                    | 44 |
| 31. | ammonium tetrachloroplatinate    | 0.25% pet                     | A DM217                   | DP                    | 4  |
| 32. | ammoniated mercury               | 1% pet                        | A DM216                   | DP                    | 3  |
| 33. | diurethane dimethacrylate        | 2% pet                        | A DM223                   | DT                    | 26 |
| 34. | amalgam                          | 5%                            | A DM232                   | DP                    | 1  |
| 35. | amalgam alloying metals          | 20%                           | A DM 233                  | DP                    | 2  |

DRESSINGS order at pharmacy/stores

*hydrogel*

|   |                                                      |       |                         |
|---|------------------------------------------------------|-------|-------------------------|
| 1 | GranuGel <sup>®</sup> (carboxymethylcellulose &PG)   | as is | own ref 5129 Cat ELM054 |
| 2 | Intrasite Gel <sup>®</sup> (carmellose polymer & PG) | as is | own ref 7311 Cat ELG000 |

*vapour permeable film*

|   |                                  |       |                             |
|---|----------------------------------|-------|-----------------------------|
| 3 | Hypafix <sup>®</sup> Transparent | as is | own ref 72378-01 Cat ELW287 |
| 4 | Mepore <sup>®</sup>              | as is | own                         |
| 5 | Tegaderm <sup>®</sup>            | as is | own                         |

*soft polymer*

|   |                      |       |     |
|---|----------------------|-------|-----|
| 6 | Mepitel <sup>®</sup> | as is | own |
|---|----------------------|-------|-----|

Ref 289170 catalogue code EXH037

*hydrocolloid*

|    |                                 |         |     |
|----|---------------------------------|---------|-----|
| 7  | ester gum rosin                 | 20% pet | own |
| 8  | Aquacel <sup>®</sup>            | as is   | own |
| 9. | Duoderm <sup>®</sup> extra thin | as is   | own |

*foam*

|    |                                     |       |     |             |
|----|-------------------------------------|-------|-----|-------------|
| 10 | Biatain non adhesive (Polyurethane) | as is | own | ELA039 3410 |
|----|-------------------------------------|-------|-----|-------------|

*alginate*

|    |                        |        |     |
|----|------------------------|--------|-----|
| 11 | Kaltostat <sup>®</sup> | as is  | own |
| 12 | carboxymethylcellulose | 2% pet | own |

PG = propylene glycol

## EAR

|                              |             |
|------------------------------|-------------|
| <b>excipient series</b>      | <b>1-12</b> |
| <b>cosmetic series</b>       | <b>1-14</b> |
| <b>hairdressing series</b>   | <b>1-15</b> |
| <b>anti-infective series</b> | <b>1-16</b> |
| <b>caine series</b>          | <b>1-8</b>  |

**plus:**

|              |               |
|--------------|---------------|
| nail varnish | patient's own |
| hair dyes    | patient's own |
| hair spray   | patient's own |
| ear drops    | patient's own |

If patient has hearing aid:-

|                          |        |
|--------------------------|--------|
| acrylate adhesive series |        |
| plastic additive series  |        |
| hearing aid              | scrape |

## EPOXY SERIES

|    | <b>allergen</b>                     | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|----|-------------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1  | hexamethylenetetramine              | 2% pet                        | C H003                    | E                     | 1  |
| 2  | diaminodiphenylmethane              | 0.5% pet                      | C D001                    | E                     | 2  |
| 3  | triethylenetetramine                | 0.5% pet                      | C T019                    | E                     | 3  |
| 4  | phenylglycidylether                 | 0.25% pet                     | C P023                    | E                     | 4  |
| 5  | diethylenetriamine                  | 1% pet                        | C D010                    | E                     | 5  |
| 6  | isophorone diamine                  | 0.1% pet                      | C I006                    | E                     | 6  |
| 7  | epoxy resin, cycloaliphatic         | 0.5% pet                      | C E020                    | E                     | 7  |
| 8  | ethylenediamine dihydrochloride     | 1% pet                        | C E005                    | E                     | 8  |
| 9  | cresylglycidylether                 | 0.25% pet                     | A PG305                   | PG                    | 4  |
| 10 | resorcinol monobenzoate             | 1% pet                        | C R002                    | PG                    | 16 |
| 11 | bisphenol A                         | 1% pet                        | ADM220                    | PG                    | 44 |
| 12 | dimethylaminopropylamine            | 1% pet                        | C D053                    | E                     | 9  |
| 13 | epoxy resin, bisphenol F            | 0.25% pet                     | C B035                    | E                     | 10 |
| 14 | 1,6 hexanediol diglycidylether      | 0.25% pet                     | C H026                    | E                     | 11 |
| 15 | 1,4 butanediol diglycidylether      | 0.25% pet                     | C B036                    | E                     | 12 |
| 16 | m-xylylenediamine                   | 0.1% pet                      | C X001                    | E                     | 13 |
| 17 | trimethylolpropane triglycidylether | 0.25% pet                     | C T038                    | E                     | 14 |

## EXCIPIENT SERIES

|     | <b>allergen</b>                            | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|-----|--------------------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1   | lanolin                                    | as is                         | own (pharmacy sheet)      |                       |    |
| 2   | amerchol                                   | 50%                           | C A004                    | C                     | 2  |
| 3   | 2-tert-butylhydroquinone methylether (BHA) | 2% pet                        | A EE346                   | CG                    | 9  |
| 4   | BHT                                        | 2% pet                        | A EE347                   | CG                    | 10 |
| 5   | sorbic acid                                | 2% pet                        | A AP108                   | CG                    | 53 |
| 6   | sorbitan sesquioleate                      | 20% pet                       | A EE357                   | CG                    | 55 |
| 7   | propyl gallate                             | 1% pet                        | C P021                    | C                     | 38 |
| 8   | disodium EDTA                              | 1% pet                        | C E006                    | V                     | 6  |
| 9   | propylene glycol                           | 20% aq                        | own (pharmacy sheet)      |                       |    |
| 10. | abitol                                     | 10% pet                       | C A002                    | C                     | 23 |
| 11  | benzyl alcohol                             | 10% pet                       | C B008B                   | C                     | 11 |
| 12  | ethylhexylglycerin                         | 5% pet                        | C E027                    | C                     | 58 |

## EYE SERIES

|    | <b>allergen</b>             | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|----|-----------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1. | timolol                     | 0.5% unit dose                | own (pharmacy)            |                       |    |
| 2. | levobunolol                 | 0.5% unit dose                | own(pharmacy)             |                       |    |
| 3. | Otrivine-Antistin           | as is                         | own (pharmacy)            |                       |    |
| 4. | phenylephrine hydrochloride | 10% aq                        | A EM410                   | EM                    | 19 |
| 5. | otrivine                    | as is                         | own (pharmacy)            |                       |    |
| 6. | adrenaline                  | 1% aq                         | own (pharmacy)            |                       |    |
| 7. | pilocarpine hydrochloride   | 1% aq                         | A EM411                   | EM                    | 20 |
| 8. | atropine sulphate           | 1% aq                         | A EM396                   | EM                    | 1  |

**excipient**                      **1-12**

**cosmetic**                      **1-14**

**anti-infective series**        **1-16**

**caine mix**                      **1-8**

**plus:**

eye preparations

patient's own

-

FINGER TIP SERIES

|    | <b>allergen</b>                  | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|----|----------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1. | tosylamide/formaldehyde resin    | 10% pet                       | A NA62                    | CG                    | 61 |
| 2. | diallyldisulfide                 | 1% pet                        | C D048                    | P                     | 2  |
| 3. | Onion                            | 50% aq                        | own                       |                       |    |
| 4. | lanolin                          | as is                         | own (pharmacy)            |                       |    |
| 5. | amerchol                         | 100%                          | C A004                    | C                     | 2  |
| 6. | lauryl gallate (dodecyl gallate) | 0.25% pet                     | C D042                    | C                     | 39 |

other relevant foods

patient's own

## FORMALDEHYDE RESIN

|    | <b>allergen</b>                     | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|----|-------------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1. | phenol formaldehyde resin - Novolac | 5%                            | A PG306                   | PG                    | 38 |
| 2. | tosylamide/formaldehyde resin       | 10% pet                       | A NA62                    | CG                    | 61 |
| 3. | urea formaldehyde resin             | 10% pet                       | C U001                    | TF                    | 13 |
| 4. | melamine formaldehyde resin         | 7% pet                        | C M001                    | TF                    | 14 |
| 5. | resorcinol monobenzoate             | 1% pet                        | C R002                    | PG                    | 16 |
| 6. | bisphenol A                         | 1% pet                        | A DM220                   | PG                    | 44 |
| 7. | monomethylol phenol                 | 1% pet                        | C M015                    | PG                    | 21 |

## FRAGRANCE & FLAVOUR

|    | <b>allergen</b>                              | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|----|----------------------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1  | cinnamyl alcohol                             | 2% pet                        | C C014                    | F                     | 1  |
| 2  | cinnamal                                     | 1% pet                        | A NA19                    | PF                    | 16 |
| 3  | eugenol                                      | 2% pet                        | C E016                    | F                     | 4  |
| 4  | amyl cinnamal                                | 2% pet                        | C A014                    | F                     | 3  |
| 5  | hydroxycitronellal                           | 2% pet                        | C H008                    | F                     | 8  |
| 6  | geraniol                                     | 2% pet                        | C G001                    | F                     | 6  |
| 7  | isoeugenol                                   | 2% pet                        | C I002                    | F                     | 5  |
| 8  | Evernia prunastri (oak moss)                 | 2% pet                        | C O001                    | F                     | 7  |
| 9  | citral                                       | 2% pet                        | C C036                    | F                     | 26 |
| 10 | citronellol                                  | 1% pet                        | A PF161                   | PF                    | 19 |
| 11 | farnesol                                     | 5% pet                        | A PF163                   | PF                    | 22 |
| 12 | coumarin                                     | 5% pet                        | A PF162                   | PF                    | 20 |
| 13 | hexyl cinnamic aldehyde                      | 10% pet                       | A PF164                   | PF                    | 2  |
| 14 | hydroxymethylpentylcyclohexenecarboxaldehyde | 5% pet                        | A ST161                   | PF                    | 39 |
| 15 | sorbitan sesquioleate                        | 20% pet                       | A EE357                   | EE                    | 29 |
| 16 | Evernia furfuracea (tree moss)               | 1% pet                        | C E026                    | F                     | 37 |
| 17 | d-limonene                                   | 10% pet                       | C L006C                   | F                     | 39 |
| 18 | linalool                                     | 10% pet                       | C L005B                   | F                     | 40 |
| 19 | anise alcohol                                | 10% pet                       | C A037                    | F                     | 33 |
| 20 | benzyl benzoate                              | 10% pet                       | C B038                    | F                     | 34 |
| 21 | butyl phenyl methylpropional                 | 10% pet                       | C B040                    | F                     | 36 |
| 22 | $\alpha$ -isomethyl ionone                   | 10% pet                       | C I017                    | F                     | 38 |
| 23 | methyl-2-octynoate                           | 0.2% pet                      | C M034                    | F                     | 41 |
| 24 | benzyl salicylate                            | 1% pet                        | A PF128                   | PF                    | 10 |
| 25 | vanillin                                     | 10% pet                       | A PF153                   | PF                    | 61 |
| 26 | benzaldehyde                                 | 5% pet                        | A PF126                   | PF                    | 6  |
| 27 | benzylcinnamate                              | 5% pet                        | A PF127                   | PF                    | 9  |
| 28 | salicylaldehyde                              | 2% pet                        | A PF152                   | PF                    | 59 |
| 29 | benzyl salicylate                            | 10% pet                       | CB010B                    | F                     | 15 |
| 30 | benzyl alcohol                               | 10% pet                       | C B008B                   | F                     | 16 |
| 31 | majanthole                                   | 5% pet                        | C M033                    | F                     | 42 |

**flavour**

|    |                                      |         |         |    |    |
|----|--------------------------------------|---------|---------|----|----|
| 41 | Eugenia caryophyllus - clove oil     | 2% pet  | A PF143 | PF | 49 |
| 42 | Citrus dulcis - orange oil           | 2% pet  | A PF165 | PF | 57 |
| 43 | Cedrus atlantica - cedar wood oil    | 10% pet | A PF139 | PF | 14 |
| 44 | Eucalyptus globulus - eucalyptus oil | 2% pet  | A PF144 | PF | 50 |
| 45 | Laurus nobilis - laurel oil          | 2% pet  | A PF996 | PF | 32 |
| 46 | Cymbopogon - lemon grass oil         | 2% pet  | A PF147 | PF | 52 |
| 47 | Citrus limonum - lemon oil           | 2% pet  | A PF146 | PF | 51 |
| 48 | Citrus aurantium dulcis - neroli oil | 2% pet  | A PF140 | PF | 44 |
| 49 | peppermint oil                       | 2% pet  | A NA82  | PF | 41 |
| 50 | carvone                              | 5% pet  | A NA73  | PF | 13 |

**plant oils**

|    |                                                  |         |         |    |    |
|----|--------------------------------------------------|---------|---------|----|----|
| 51 | narcissus absolute                               | 2% pet  | C N006  | F  | 9  |
| 52 | musk xylene                                      | 1% pet  | C M021  | F  | 10 |
| 53 | methyl anthranilate                              | 5% pet  | C M028  | F  | 11 |
| 54 | musk moskene                                     | 1% pet  | C M019  | F  | 12 |
| 55 | musk ketone                                      | 1% pet  | C M018  | F  | 13 |
| 56 | jasmine (synthetic)                              | 2% pet  | C J001  | F  | 14 |
| 57 | Lavandula angustifolia - lavender absolute       | 2% pet  | C L001  | F  | 18 |
| 58 | Cananga odorata - cananga oil                    | 2% pet  | C C002  | F  | 19 |
| 59 | rose oil - Bulgarian                             | 2% pet  | C R003  | F  | 20 |
| 60 | Cananga odorata - ylang-ylang oil                | 2% pet  | C Y001  | F  | 21 |
| 61 | geranium oil Bourbon                             | 2% pet  | C G002  | F  | 22 |
| 62 | jasmine absolute - Egyptian                      | 2% pet  | C J002  | F  | 23 |
| 63 | Santalum album - sandalwood oil                  | 2% pet  | C S009  | F  | 24 |
| 64 | Melaleuca alternifolia (tea tree oil - oxidized) | 5% pet  | C T035B | C  | 46 |
| 65 | turpentine oil                                   | 10% pet | A ST172 | PF | 56 |

## HAIRDRESSING SERIES

|     | <b>allergen</b>                          | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|-----|------------------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1   | p-methylaminophenol                      | 1% pet                        | C M040                    | P                     | 4  |
| 2.  | resorcinol                               | 1% pet                        | C R001                    | H                     | 9  |
| 3.  | p-toluenediamine                         | 1% pet                        | A HD483                   | DC                    | 25 |
| 4.  | glyceryl monothioglycolate               | 1% pet                        | A NA40                    | HD                    | 19 |
| 5.  | ammonium thioglycolate                   | 2.5% aq                       | C A012                    | H                     | 4  |
| 6.  | ammonium persulphate                     | 2.5% pet                      | A HD476                   | HD                    | 5  |
| 7   | 3-aminophenol                            | 1% pet                        | C A008                    | H                     | 10 |
| 8   | 4-aminophenol                            | 1% pet                        | C A009                    | H                     | 11 |
| 9   | chloracetamide                           | 0.2% pet                      | A AP85                    | HD                    | 11 |
| 10. | cocamidopropyl betaine                   | 1% aq                         | CC018                     | H                     | 17 |
| 11  | zinc pyrithione                          | 1% pet                        | CZ006                     | H                     | 25 |
| 12  | cysteamine hydrochloride                 | 0.5% pet                      | C H32                     | H                     | 32 |
| 13  | 4-amino-2-hydroxytoluene                 | 1% pet                        | C A039                    | H                     | 31 |
| 14  | hydroxyethyl-p-phenylenediamine sulphate | 2% pet                        | C H34                     | H                     | 34 |
| 15  | 2-methylresorcinol                       | 1% pet                        | C H35                     | H                     | 33 |

Patch testing with hair cosmetic series in Europe: a critical review and recommendation

Uter W et al

Contact Dermatitis 2015

## ISOCYANATE SERIES

|   | <b>allergen</b>                  | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |   |
|---|----------------------------------|-------------------------------|---------------------------|-----------------------|---|
| 1 | toluene diisocyanate             | 2% pet                        | C T009                    | I                     | 1 |
| 2 | diphenylmethane-4,4-diisocyanate | 0.5% pet                      | C D023B                   | I                     | 2 |
| 3 | diaminodiphenylmethane           | 0.5% pet                      | C D001                    | I                     | 3 |
| 4 | isophoronediiisocyanate          | 1% pet                        | C I007                    | I                     | 4 |
| 5 | isophorone diamine               | 0.1% pet                      | C I006                    | I                     | 5 |
| 6 | 1,6-hexamethylenediisocyanate    | 0.1% pet                      | C H022                    | I                     | 6 |

NB to be stored in freezer

## LEG ULCER

**excipient series      1-12**

**anti-infective series 1-16**

**dressing series      1-12**

**consider:**

**rubber series - for elasticated bandages**

**textile series - for clothing/tights**

**plus:**

patients own medicaments/products

## LIP

**excipient series      1-12**  
**bakery series        1-19**  
**flavour series        41-50**  
**cosmetic series       1-14**  
**photopatch           1-20**  
**anti-infective series 1-16**  
**plus:**

lip products    patients' own

## MEDICAMENT SERIES

|    | <b>allergen</b>              | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |
|----|------------------------------|-------------------------------|---------------------------|-----------------------|
| 1. | pix lithanthracis (coal tar) | 5% pet                        | C C016                    | V 16                  |
| 2  | protopic 0.1%                | as is                         | own                       |                       |
| 3. | dovonex                      | as is                         | own                       |                       |
| 4  | diclofenac                   | 1% pet                        | C D061                    | CAD 19                |
| 5  | pimecrolimus                 | as is                         | own                       |                       |

### **excipient series 1 - 12**

### **anti-infective series 1 - 16**

#### **plus:**

other relevant anti-infective allergens

steroid cream series (if relevant)

dressings series (if relevant)

other relevant medication

patient's own

## METAL SERIES

|    | <b>allergen</b>                   | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|----|-----------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1  | ammoniated mercury                | 1% pet                        | A DM216                   | MC                    | 2  |
| 2  | mercury                           | 0.5% pet                      | C M005                    | MET                   | 2  |
| 3  | copper sulphate                   | 2% pet                        | C C022                    | MET                   | 9  |
| 4  | potassium dicyanoaurate           | 0.002% aq                     | A DM227                   | MC                    | 37 |
| 5  | gold sodium thiosulphate          | 2% pet                        | C G005B                   | MET                   | 8  |
| 6  | ammonium tetrachloroplatinate     | 0.25% pet                     | A DM217                   | MC                    | 5  |
| 7  | palladium chloride                | 1% pet                        | A DM226                   | MC                    | 33 |
| 8  | ammonium hexachloroplatinate      | 0.1% aq                       | C A010                    | MET                   | 41 |
| 9  | cadmium chloride                  | 1% aq                         | C C001                    | MET                   | 33 |
| 10 | zinc                              | 2.5% pet                      | C Z001                    | MET                   | 1  |
| 11 | copper oxide                      | 5% pet                        | C C021                    | MET                   | 11 |
| 12 | mercuric chloride                 | 0.1% pet                      | C M004                    | MET                   | 3  |
| 13 | silver nitrate                    | 1% aq                         | C S007                    | MET                   | 32 |
| 14 | aluminium hydroxide               | 10% pet                       | A MC262                   | MC                    | 1  |
| 15 | aluminium chloride hexahydrate    | 2% pet                        | C A022                    | MET                   | 4  |
| 16 | amalgam                           | 5%                            | A DM232                   | DP                    | 1  |
| 17 | amalgam alloying metals           | 20%                           | A DM 233                  | DP                    | 2  |
|    |                                   |                               |                           |                       |    |
| 18 | iridium (III) chloride trihydrate | 1% pet                        | C I1012                   | MET                   | 13 |
| 19 | iridium                           | 1% pet                        | C I1014                   | MET                   | 14 |
| 20 | indium                            | 1% pet                        | C I1015                   | MET                   | 15 |
| 21 | titanium nitride                  | 5% pet                        | C T039                    | MET                   | 16 |
| 22 | titanium dioxide                  | 10% pet                       | C T040                    | MET                   | 17 |
| 23 | titanium oxalate                  | 5% pet                        | C T041                    | MET                   | 19 |
| 24 | titanium                          | 10% pet                       | C T042                    | MET                   | 21 |
| 25 | vanadium                          | 5% pet                        | C V002                    | MET                   | 22 |
| 26 | molybdenum                        | 5% pet                        | C M030                    | MET                   | 23 |
| 27 | vanadium (III) chloride           | 1% pet                        | C V003                    | MET                   | 24 |
| 28 | manganese (II) chloride           | 2% pet                        | C M031                    | MET                   | 25 |
| 29 | stannous oxalate                  | 1% pet                        | C S014                    | MET                   | 26 |
| 30 | zirconium chloride                | 1% pet                        | C Z008                    | MET                   | 27 |
| 31 | tungsten                          | 5% pet                        | C T043                    | MET                   | 28 |
| 32 | iron (III) chloride               | 2% pet                        | C I016                    | MET                   | 29 |
| 33 | ammonium molybdate tetrahydrate   | 1% pet                        | C A035                    | MET                   | 38 |
| 34 | stannous chloride                 | 1% pet                        | C S013                    | MET                   | 39 |

### CAINE MIX

| <b>allergen</b>                          | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|------------------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1 procaine hydrochloride                 | 1% pet                        | C P016                    | V                     | 29 |
| 2 cinchocaine hydrochloride              | 5% pet                        | A LA520                   | LA                    | 6  |
| 3 tetracaine (amethocaine) hydrochloride | 1% pet                        | A DM229                   | LA                    | 13 |
| 4 lidocaine hydrochloride                | 15% pet                       | A NA47                    | LA                    | 8  |
| 5 benzocaine                             | 5% pet                        | A NA13                    | LA                    | 2  |
| 6 prilocaine                             | 5% pet                        | C P027A                   | V                     | 1  |
| 7 amylocaine                             | 5% pet                        | C A020                    | V                     | 45 |
| 8 pramoxine                              | 2% pet                        | C P039                    | ME                    | 18 |

### PARABENS MIX

|                              |        |         |    |    |
|------------------------------|--------|---------|----|----|
| 1 methyl parahydroxybenzoate | 3% pet | A AP100 | AP | 42 |
| 2 ethyl parahydroxybenzoate  | 3% pet | A AP92  | AP | 29 |
| 3 propyl parahydroxybenzoate | 3% pet | A AP105 | AP | 64 |
| 4 butyl parahydroxybenzoate  | 3% pet | A AP81  | AP | 11 |

## OIL AND COOLANT

|     | <b>allergen</b>                             | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|-----|---------------------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1.  | abietic acid                                | 10% pet                       | C A001                    | O                     | 1  |
| 2.  | benzoyl peroxide                            | 1% pet                        | A DM218                   | BA                    | 4  |
| 3.  | dichlorophene                               | 1% pet                        | C D008                    | O                     | 4  |
| 4.  | 2-phenylphenol                              | 1% pet                        | C P010                    | O                     | 5  |
| 5.  | propyleneglycol                             | 5% pet                        | C P019A                   | O                     | 6  |
| 6.  | triethanolamine                             | 2% pet                        | C T016                    | O                     | 7  |
| 7.  | 4-tert-butylbenzoic acid                    | 1% pet                        | C B019                    | O                     | 8  |
| 8.  | hexahydro-1,3,5-tris [hydroxyethyl] triazin | 1% aq                         | C H002                    | O                     | 10 |
| 9.  | bioban P1487                                | 0.5% pet                      | C E014                    | O                     | 11 |
| 10. | chloroacetamide                             | 0.2% pet                      | C C006                    | O                     | 12 |
| 11. | N-methylol chloroacetamide                  | 0.1% pet                      | C M014                    | O                     | 13 |
| 12. | IH-benzotriazol                             | 1% pet                        | C B006                    | O                     | 14 |
| 13. | mercaptobenzothiazole                       | 2% pet                        | C M003A                   | O                     | 16 |
| 14. | zinc ethylenebis [dithiocarbamate]          | 1% pet                        | C Z005                    | O                     | 17 |
| 15. | triclosan [Irgasan DP 300]                  | 2% pet                        | C T014                    | O                     | 18 |
| 16. | bioban CS 1246                              | 1% pet                        | C A017                    | O                     | 19 |
| 17. | bioban CS 1135                              | 1% pet                        | C D015                    | O                     | 20 |
| 18. | tris nitro                                  | 1% pet                        | C H015                    | O                     | 21 |
| 19. | thimerosal merthiolatel                     | 0.1% pet                      | C T007                    | O                     | 22 |
| 20. | hydrazine sulfate                           | 1% pet                        | C H005                    | O                     | 23 |
| 21. | trichlorocarbanilide [TCC]                  | 1% pet                        | C T013                    | O                     | 24 |
| 22. | paratertiary butylcatechol                  | 0.25% pet                     | C B030B                   | PG                    | 8  |
| 23. | amerchol L101                               |                               | C A004                    | O                     | 26 |
| 24. | sodium-2-pyridinethiol-1-oxide              | 0.1% aq                       | C S002                    | O                     | 28 |
| 25. | coconut diethanolamide                      | 0.5% pet                      | C C019                    | O                     | 30 |
| 26. | diethanolamine                              | 2% pet                        | A EE350                   | CL                    | 14 |

PERIANAL SERIES

|    | <b>allergen</b>               | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|----|-------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1. | amino azobenzene              | 0.25% pet                     | C A005                    | SH                    | 21 |
| 2. | disperse orange 3             | 1% pet                        | A DC325                   | DC                    | 13 |
| 3. | disperse yellow 3             | 1% pet                        | A DC329                   | DC                    | 17 |
| 4. | disperse red 1                | 1% pet                        | A DC326                   | DC                    | 14 |
| 5. | disperse red 17               | 1% pet                        | A DC328                   | DC                    | 16 |
| 6. | disperse blue 3               | 1% pet                        | A DC 324                  | DC                    | 9  |
| 7. | tosylamide/formaldehyde resin | 10% pet                       | A NA62                    | CG                    | 61 |
| 8. | phenylephrine hydrochloride   | 10% aq                        | A EM410                   | EM                    | 19 |

**test the following series in addition to the above:**

|                       |             |
|-----------------------|-------------|
| <b>excipient</b>      | <b>1-12</b> |
| <b>anti-infective</b> | <b>1-16</b> |
| <b>fragrance mix</b>  | <b>1-15</b> |
| <b>caine mix</b>      | <b>1-8</b>  |

medications  
contraceptive creams  
condoms

patient's own  
patient's own  
patient's own

## PHOTO PATCH TEST SERIES

|     | <b>allergen</b>                                     | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|-----|-----------------------------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1.  | octocrylene                                         | 10% pet                       | C O009                    | SU                    | 12 |
| 2.  | ethylhexyl methoxycinnamate                         | 10% pet                       | A SS501                   | PA                    | 10 |
| 3.  | benzophenone-3                                      | 10% pet                       | A NA85                    | PA                    | 13 |
| 4.  | terephthalylidene dicamphor sulfonic acid           | 10% aq                        | -----                     |                       |    |
| 5.  | PABA (p-aminobenzoic acid)                          | 10% pet                       | A MS390                   | PA                    | 1  |
| 6.  | butyl methoxydibenzoylmethane                       | 10% pet                       | A SS505                   | PA                    | 6  |
| 7.  | methylbenzylidenecamphor                            | 10% pet                       | A SS503                   | PA                    | 18 |
| 8.  | ethylhexyl salicylate                               | 10% pet                       | C O007A                   | SU                    | 13 |
| 9.  | benzophenone-4                                      | 2% pet                        | CH023C                    | SU                    | 10 |
| 10. | isoamyl p-methoxycinnamate                          | 10% pet                       | A SS507                   | PA                    | 14 |
| 11. | phenylbenzimidazolsulphonic acid                    | 10% pet                       | A PA466                   | PA                    | 21 |
| 12. | ethylhexyl triazone                                 | 10% pet                       | C O010                    | SU                    | 14 |
| 13. | drometrizole trisloxane`                            | 10% pet                       | C D055                    | SU                    | 11 |
| 14. | benzophenone-10                                     | 10% pet                       | C H020B                   | SU                    | 8  |
| 15. | homosalate                                          | 5% pet                        | C H024                    | SU                    | 3  |
| 16. | bis-ethylhexyloxyphenol methoxyphenyl triazine      | 10% pet                       | C B037                    | SU                    | 16 |
| 17. | methylene bis-benzotriazolyl tetramethylbutylphenol | 10% pet                       | C M037                    | SU                    | 17 |
| 18. | diethylamino hydroxybenzoyl hexyl benzoate          | 10% pet                       | C D062                    | SU                    | 18 |
| 19. | diethylhexyl butamido triazone                      | 10% pet                       | C D063                    | SU                    | 19 |
| 20. | disodium phenyl dibenzimidazole tetrasulphonate     | 10% pet                       | C D064                    | SU                    | 20 |
|     |                                                     |                               |                           |                       |    |
| 21. | ketoprofen                                          | 1% pet                        | C K002B                   | EP                    | 11 |
| 22. | etofenamate                                         | 2% pet                        | C E025                    | EP                    | 15 |
| 23. | piroxicam                                           | 1% pet                        | C P033                    | EP                    | 17 |
| 24. | benzydamine                                         | 2% pet                        | C B041                    | EP                    | 18 |
| 25. | promethazine                                        | 0.1% pet                      | C P017                    | EP                    | 19 |
| 26. | ibuprofen                                           | 10% pet                       | C I010                    | CAD                   | 29 |
| 27. | diclofenac                                          | 1% pet                        | C D061                    | CAD                   | 19 |

Irradiate with 5J UVA

(unless known to be photosensitive - in which case be guided by known UVA MED)

## PLANT SERIES

|    | <b>allergen</b>                              | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|----|----------------------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1  | C romana (chamomile)                         | 1% pet                        | C C029                    | PL                    | 1  |
| 2  | diallylsulphide                              | 1% pet                        | C D048                    | PL                    | 2  |
| 3  | A montana (mountain tobacco)                 | 0.5% pet                      | C A024                    | PL                    | 3  |
| 4  | T officinale (dandelion)                     | 2.5% pet                      | C T032                    | PL                    | 4  |
| 5  | A millefolium (yarrow)                       | 1% pet                        | C A025                    | PL                    | 5  |
| 6  | propolis                                     | 10% pet                       | C P022                    | PL                    | 6  |
| 7  | C cinerariaefolium (pyrethrum)               | 1% pet                        | C C031                    | PL                    | 7  |
| 8  | $\alpha$ -methylene- $\gamma$ -butyrolactone | 0.01% pet                     | C M026                    | PL                    | 9  |
| 9  | T vulgare (tansy)                            | 1% pet                        | C T033                    | PL                    | 10 |
| 10 | alantolactone                                | 0.33% pet                     | C A003B                   | PL                    | 11 |
| 11 | lichen acid mix                              | 0.3% pet                      | C MX15                    | PL                    | 12 |
| 12 | dipentene                                    | 2% pet                        | A NA92                    | NP                    | 10 |
| 13 | parthenolide                                 | 0.1% pet                      | C P029                    | PL                    | 13 |
| 14 | primin                                       | 0.01% pet                     | A NH451                   | NP                    | 13 |

PLASTIC ADDITIVES

|     | <b>allergen</b>                  | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|-----|----------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1.  | tricresyl phosphate              | 5% pet                        | C T015                    | P                     | 16 |
| 2.  | triphenyl phosphate              | 5% pet                        | A PG314                   | PG                    | 55 |
| 3.  | dibutyl phthalate                | 5% pet                        | A RC271                   | PG                    | 48 |
| 4.  | abitol                           | 10% pet                       | A EE364                   | NP                    | 2  |
| 5.  | turpentine oil                   | 10% pet                       | A ST172                   | CG                    | 40 |
| 6.  | abietic acid                     | 10% pet                       | A PG298                   | NP                    | 1  |
| 7.  | phenyl salicylate                | 1% pet                        | C P011                    | PG                    | 3  |
| 8.  | hydroxymethylphenylbenzotriazole | 1% pet                        | C H016                    | PG                    | 6  |
| 9.  | paratertiary butylcatechol       | 0.25% pet                     | C B030B                   | PG                    | 8  |
| 10. | paratertiary butylphenol         | 1% pet                        | A PG308                   | PG                    | 47 |
| 11. | hydroquinone                     | 1% pet                        | A PC626                   | DT                    | 14 |
| 12. | butylated hydroxytoluene (BHT)   | 2% pet                        | A EE347                   | BA                    | 6  |
| 13. | butylated hydroxyanisole (BHA)   | 2% pet                        | A EE346                   | BA                    | 5  |
| 14. | benzoyl peroxide                 | 1% pet                        | A DM218                   | BA                    | 4  |
| 15. | azodiisobutyrodinitrile          | 1% pet                        | C A018                    | PG                    | 9  |
| 16. | 2-phenylindole                   | 2% pet                        | C P007                    | PG                    | 17 |
| 17. | N,N-diphenyl thiourea            | 1% pet                        | C D025                    | PG                    | 22 |
| 18. | triglycidyl isocyanurate         | 0.5% pet                      | C T028                    | PG                    | 22 |
| 19. | cyclohexanone resin              | 1% pet                        | C C027                    | PG                    | 24 |
| 20. | diethylhexyl phthalate           | 2% pet                        | C D018                    | PG                    | 4  |
| 21. | 2-N-octyl-4-isothiazolin-3-one   | 0.1% pet                      | C O004                    | PG                    | 23 |
| 22. | resorcinol monobenzoate          | 1% pet                        | C R002                    | PG                    | 16 |

## RUBBER CHEMICALS

|                     | allergen                                 | vehicle & dilution | company & code | series & # |    |
|---------------------|------------------------------------------|--------------------|----------------|------------|----|
| <u>Carba mix</u>    |                                          |                    |                |            |    |
| 1                   | 1,3-diphenylguanidine                    | 1% pet             | A RC265        | RC         | 13 |
| 2                   | bis(diethyldithiocarbamato) zinc         | 1% pet             | A ST162        | RC         | 36 |
| 3                   | bis(dibutyldithiocarbamato) zinc         | 1% pet             | A RC268        | RC         | 35 |
| <u>Mercapto mix</u> |                                          |                    |                |            |    |
| 4                   | N-cyclohexylbenzothiazyl sulphenamide    | 1% pet             | A RC281        | RC         | 3  |
| 5                   | dibenzothiazyl disulphide                | 1% pet             | A RC270        | RC         | 5  |
| 6                   | morpholinyl mercaptobenzothiazole        | 0.5% pet           | A RC294        | RC         | 27 |
| <u>Thiuram mix</u>  |                                          |                    |                |            |    |
| 7                   | tetramethylthiuram monosulphide          | 0.25% pet          | A RC285        | RC         | 30 |
| 8                   | tetramethylthiuram disulphide            | 0.25% pet          | A RC284        | RC         | 31 |
| 9                   | tetraethylthiuram disulphide             | 0.25% pet          | A RC283        | RC         | 29 |
| 10                  | dipentamethylenethiuram disulphide       | 0.25% pet          | A RC276        | RC         | 10 |
| <u>Others</u>       |                                          |                    |                |            |    |
| 11                  | hexamethylenetetramine                   | 1% pet             | A RC278        | RC         | 18 |
| 12                  | diphenylthiourea                         | 1% pet             | A RC275        | RC         | 14 |
| 13                  | dibutylthiourea                          | 1% pet             | A RC272        | RC         | 7  |
| 14                  | N,N-diphenyl paraphenylenediamine        | 0.25% pet          | A RC274        | RC         | 12 |
| 15                  | cyclohexyl thiophthalimide               | 0.5% pet           | A RC293        | RC         | 4  |
| 16                  | phenyl-beta-naphthylamine                | 1% pet             | C P009         | R          | 16 |
| 17.                 | N-Cyclohexyl-N-phenyl-4-phenylenediamine | 1% pet             | C C024         | R          | 5  |
| 18.                 | zinc dimethyldithiocarbamate (Ziram)     | 1% pet             | C Z004         | R          | 20 |
| 19.                 | N,N-Dibeta-naphtyl-4-phenylenediamine    | 1% pet             | C D017         | R          | 15 |
| 20.                 | 4,4-Diaminodiphenylmethane               | 0.5% pet           | A PG296        | PG         | 5  |
| 21.                 | dodecyl mercaptan                        | 0.1% pet           | C D043         | R          | 24 |
| 22.                 | diethyl thiourea                         | 1% pet             | C D039         | R          | 22 |
| 23.                 | dibutyl phthalate                        | 5% pet             | A RC271        | PG         | 48 |
| 24.                 | diethylhexyl phthalate                   | 2% pet             | C D018         | PG         | 4  |
| 25                  | ethylenediamine dihydrochloride          | 1% pet             | C E005         |            |    |
| 26                  | 4-tert-butyl catechol                    | 0.25% pet          | C B030B        | PG         | 8  |
| 27                  | cetylpyridinium chloride                 | 0.1% pet           | A AP83         |            |    |
| 28.                 | rubber glove                             | as is              | own            |            |    |
| 29.                 | PVC glove                                | as is              | own            |            |    |
| 30.                 | Nitrile glove                            | as is              | own            |            |    |

## SHOE SERIES

|     | <b>allergen</b>                        | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|-----|----------------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1.  | glutaraldehyde                         | 0.2% pet                      | C G003A                   | SH                    | 2  |
| 2.  | hydroquinone monobenzylether           | 1% pet                        | C H019                    | SH                    | 5  |
| 3.  | diphenyl thiourea                      | 1% pet                        | C D025                    | SH                    | 13 |
| 4.  | diethyl thiourea                       | 1% pet                        | C D039                    | SH                    | 15 |
| 5.  | dibutylthiourea                        | 1% pet                        | C D038                    | SH                    | 17 |
| 6.  | dodecylmercapton                       | 0.1% pet                      | C D043                    | SH                    | 19 |
| 7.  | 2-octyl-4-isothiazolin-3-one           | 0.1% pet                      | C O004                    | SH                    | 22 |
| 8.  | toluenesulphonamide formaldehyde resin | 10% pet                       | A NA62                    | FW                    | 29 |
| 9.  | diaminodiphenylmethane                 | 0.5% pet                      | A PG296                   | FW                    | 6  |
| 10. | IH-benzotriazole                       | 1% pet                        | A AP79                    | AP                    | 5  |
| 11. | dioctyl phthalate                      | 2% pet                        | C D018                    | PG                    | 5  |
| 12. | urea formaldehyde resin                | 10% pet                       | C U001                    | TF                    | 13 |
| 13. | aminoazobenzene                        | 0.25% pet                     | C A005                    | SH                    | 21 |
| 14. | disperse orange 3                      | 1% pet                        | A DC325                   | DC                    | 13 |
| 15. | disperse yellow 3                      | 1% pet                        | A DC329                   | DC                    | 17 |
| 16. | disperse red 1                         | 1% pet                        | A DC326                   | DC                    | 14 |
| 17. | disperse red 17                        | 1% pet                        | A DC328                   | DC                    | 16 |
| 18. | disperse blue 106                      | 1% pet                        | C D040                    | TF                    | 11 |
| 19. | acid yellow 36                         | 1% pet                        | C A019                    | SH                    | 4  |
| 20. | disperse blue 124                      | 1% pet                        | C D041                    | TF                    | 20 |
| 21. | basic red 46                           | 1% pet                        | C B026                    | TF                    | 21 |
| 22. | direct orange 34                       | 5% pet                        | C D051                    | TF                    | 31 |
| 23. | diphenylguanidine                      | 1% pet                        | C D022                    | SH                    | 16 |
| 24. | ester gum rosin                        | 20% pet                       | own                       |                       |    |
| 25. | isophorone diisocyanate                | 1% pet                        | C I007                    | I                     | 4  |
| 26. | dithiodimorpholine                     | 1% pet                        | C D054                    | SH                    | 23 |
| 27. | dimethyl fumarate                      | 0.01% pet                     | C D066B                   | V                     | 61 |
|     | dimethylaminoethyl ether               | 1% pet                        |                           |                       |    |

### STEROID SERIES

|     | <b>allergen</b>                   | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|-----|-----------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1.  | betamethasone-17-valerate         | 0.1% EtOH Betnovate           | A CS999                   | CS                    | 2  |
| 2.  | betamethasone-17, 21-dipropionate | 0.1% EtOH Diprosone           | A CS997                   | CS                    | 6  |
| 3.  | alclometasone dipropionate        | 1% pet Modrasone              | C AO23                    | CS                    | 5  |
| 4.  | mometasone furoate                | 0.1% EtOH Elocon              | ACS995                    | CS                    | 6  |
| 5.  | hydrocortisone butyrate           | 1% EtOH Locoid                | ANA69                     | CS                    | 2  |
| 6.  | hydrocortisone                    | 1% pet                        | ACS496                    | CS                    | 16 |
| 7.  | prednisolone                      | 1% pet                        | A CS503                   | CS                    | 18 |
| 8.  | methylprednisolone aceponate      | 0.1% EtOH                     | A CS996                   | CS                    | 5  |
| 9.  | triamcinolone acetonide           | 1% pet Adcortyl               | A CS499                   | CS                    | 12 |
| 10. | dexamethasone                     | 0.5% pet                      | A CS493                   | CS                    | 14 |
| 11. | betamethasone sodium phosphate    |                               | Pharmacy (Own sheet)      |                       |    |

### SEX STEROID

|   |                     |            |
|---|---------------------|------------|
| 1 | hydroxyprogesterone | 1% EtOH    |
| 2 | medroxyprogesterone | 1% acetone |
| 3 | progesterone        | 1% EtOH    |
| 4 | oestradiol          | 1% EtOH    |

STEROID CREAM SERIES (pharmacy)

|     | <b>allergen</b>            | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |
|-----|----------------------------|-------------------------------|---------------------------|-----------------------|
| 1.  | betamethasone valerate     | Betnovate as is               |                           |                       |
| 2.  | clobetasol propionate      | Dermovate as is               |                           |                       |
| 3.  | clobetasone butyrate       | Eumovate as is                |                           |                       |
| 4.  | fluticasone propionate     | Cutivate as is                |                           |                       |
| 5.  | betamethasone dipropionate | Diprosone as is               |                           |                       |
| 6.  | diflucortolone valerate    | Nerisone as is                |                           |                       |
| 7.  | fluocinolone acetonide     | Synalar as is                 |                           |                       |
| 8.  | fluocinonide               | Metosyn as is                 |                           |                       |
| 9.  | flurandrenolone            | Haelan as is                  |                           |                       |
| 10. | mometasone furoate         | Elocon as is                  |                           |                       |
| 11. | hydrocortisone             | Hydrocortisone as is          |                           |                       |

## TEXTILE SERIES

|     | <b>allergen</b>                              | <b>vehicle &amp; dilution</b> | <b>company &amp; code</b> | <b>series &amp; #</b> |    |
|-----|----------------------------------------------|-------------------------------|---------------------------|-----------------------|----|
| 1.  | aminoazobenzene                              | 0.25% pet                     | C A005                    | SH                    | 21 |
| 2.  | disperse orange 3                            | 1% pet                        | A DC325                   | DC                    | 13 |
| 3.  | disperse yellow 3                            | 1% pet                        | A DC329                   | DC                    | 17 |
| 4.  | disperse red 1                               | 1% pet                        | A DC326                   | DC                    | 14 |
| 5.  | disperse red 17                              | 1% pet                        | A DC328                   | DC                    | 16 |
| 6.  | disperse blue 3                              | 1% pet                        | A DC324                   | DC                    | 9  |
| 7.  | disperse blue 35                             | 1% pet                        | C D027                    | TF                    | 7  |
| 8.  | disperse blue 124                            | 1% pet                        | C D041                    | TF                    | 20 |
| 9.  | disperse yellow 9                            | 1% pet                        | C D037                    | TF                    | 19 |
| 10. | disperse red 11                              | 1% pet                        | A DC327                   | DC                    | 15 |
| 11. | disperse blue 153                            | 1% pet                        | C D029                    | TF                    | 5  |
| 12. | disperse blue 85                             | 1% pet                        | C D028                    | TF                    | 15 |
| 13. | disperse orange 1                            | 1% pet                        | C D031                    | TF                    | 16 |
| 14. | disperse brown 1                             | 1% pet                        | C D030                    | TF                    | 18 |
| 15. | disperse blue 106                            | 1% pet                        | C D040                    | TF                    | 11 |
| 16. | basic red 46                                 | 1% pet                        | C B026                    | TF                    | 21 |
| 17. | direct orange 34                             | 5% pet                        | C D051                    | TF                    | 31 |
| 18. | naphthol AS                                  | 1% pet                        | A DC335                   | DC                    | 22 |
| 19. | 4-aminophenol                                | 1% pet                        | A DC321                   | DC                    | 4  |
| 20. | dimethylol dihydroxyethylene urea (fix CPN)  | 4.5% aq                       | C D012                    | TF                    | 8  |
| 21. | dimethyl dihydroxyethylene urea (fix NF)     | 5% aq                         | C D052                    | TF                    | 9  |
| 22. | dimethylol dihydroxyethylene urea (fix ECO)  | 5% aq                         | C D050                    | TF                    | 10 |
| 23. | ethylene urea melamine formaldehyde (fix AC) | 5% pet                        | C MX16                    | TF                    | 11 |
| 24. | urea formaldehyde (kaurit S)                 | 10% pet                       | C U001                    | TF                    | 13 |
| 25. | melamine formaldehyde (kaurit M70)           | 7% pet                        | C M001                    | TF                    | 14 |

### in textile workers

|     |                     |        |         |    |    |
|-----|---------------------|--------|---------|----|----|
| 26. | acid red 118        | 5% pet | C A027  | TF | 30 |
| 27. | acid red 359        | 5% pet | C A028  | TF | 32 |
| 28. | acid yellow 61      | 5% pet | C A026  | TF | 17 |
| 29. | benzotriazole       | 1% pet | C H016  | DS | 28 |
| 30. | reactive black 5    | 1% pet | C R004B | TF | 22 |
| 31. | reactive blue 21    | 1% pet | C R005B | TF | 23 |
| 32. | reactive orange 107 | 1% pet | C R007B | TF | 25 |
| 33. | reactive red 123    | 1% pet | C R008B | TF | 26 |
| 34. | reactive red 228    | 1% pet | C R010B | TF | 28 |
| 35. | reactive violet 5   | 1% pet | C R011B | TF | 29 |

**in textile workers only**

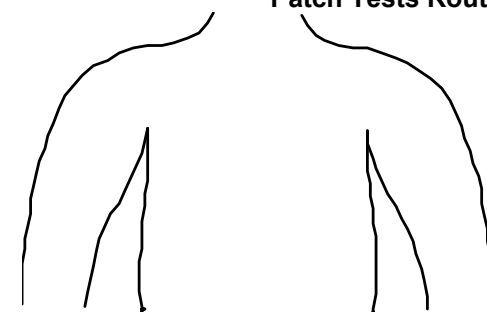
add isocyanate series

|    | Test Substance                           | D2 | D4 | Rel |    | Tes |
|----|------------------------------------------|----|----|-----|----|-----|
| 1  | Potassium dichromate 0.5%                |    |    |     | 51 |     |
| 2  | Neomycin sulphate 20%                    |    |    |     | 52 |     |
| 3  | Thiuram mix 1%                           |    |    |     | 53 |     |
| 4  | p-Phenylenediamine 1%                    |    |    |     | 54 |     |
| 5  | Cobalt chloride hexahydrate 1%           |    |    |     | 55 |     |
| 6  | Caine mix III 10%                        |    |    |     | 56 |     |
| 7  | Formaldehyde 2%                          |    |    |     | 57 |     |
| 8  | Colophony 20%                            |    |    |     | 58 |     |
| 9  | Quinoline mix 6%                         |    |    |     | 59 |     |
| 10 | Balsam of Peru 25%                       |    | +  | C   | 60 |     |
| 11 | NIPPD 0.1%                               |    |    |     | 61 |     |
| 12 | Lanolin alcohol 30%                      |    |    |     | 62 |     |
| 13 | Mercapto mix 1%                          |    |    |     | 63 |     |
| 14 | Epoxy resin 1%                           |    |    |     | 64 |     |
| 15 | Parabens mix 16%                         |    |    |     | 65 |     |
| 16 | 4-tert-Butylphenol formaldehyde resin 1% |    |    |     | 66 |     |
| 17 | Fragrance mix I 8%                       |    |    |     | 67 |     |
| 18 | Quaternium-15 1%                         |    |    |     | 68 |     |
| 19 | Nickel sulphate 5%                       |    |    |     | 69 |     |
| 20 | CH-Me-isothiazolinone 0.01%              |    |    |     | 70 |     |
| 21 | Mercaptobenzothiazole 2%                 |    |    |     | 71 |     |
| 22 | Amerchol L101 50.00%                     |    |    |     | 72 |     |
| 23 | Sesquiterpenelactone mix 0.1%            |    |    |     | 73 |     |
| 24 | p-Chloro-m-Cresol 1%                     |    |    |     | 74 |     |
| 25 | 2-Bromo-2-nitropropane-1,3-diol 0.5%     |    |    |     | 75 |     |
| 26 | Cetearyl alcohol 20%                     |    |    |     | 76 |     |
| 27 | Sodium fusidate 2%                       |    |    |     | 77 |     |
| 28 | Tixocortol-21- pivalate 1%               |    |    |     | 78 |     |
| 29 | Budesonide 0.1%                          |    |    |     | 79 |     |
| 30 | Imidazolidinyl urea (Germall 115) 2%     |    |    |     | 80 |     |
| 31 | Diazolidinyl urea (Germall 11) 2%        |    |    |     | 81 |     |
| 32 | Methyldibromomglutaronitrile 0.3%        |    |    |     | 82 |     |
| 33 | Ethylenediamine dihydrochloride 1%       |    |    |     | 83 |     |
| 34 | 4-chloro-3,5-xyleneol (PCMX) 0.5%        |    |    |     | 84 |     |
| 35 | Carba mix 3%                             |    |    |     | 85 |     |
| 36 | Fragrance mix II 14%                     |    |    |     | 86 |     |
| 37 | Disperse blue mix 106/124 1%             |    |    |     | 87 |     |
| 38 | Lyrat 5%                                 |    |    |     | 88 |     |
| 39 | Compositae mix 2.5%                      |    |    |     | 89 |     |
| 40 | Methylisothiazolinone 0.20%              |    |    |     | 90 |     |
| 41 | Sodium metabisulphite 1%                 |    |    |     | 91 |     |
| 42 | Limonene 0.2%                            |    | +  | C   | 92 |     |
| 43 | Linalool 0.5%                            |    |    |     | 93 |     |
| 44 | Phthalic anhydride 1.0%                  |    |    |     | 94 |     |
| 45 | Aspiric Acid 1.42%                       |    | +  | D   | 95 |     |
| 46 |                                          |    |    |     | 96 |     |
| 47 |                                          |    |    |     | 97 |     |
| 48 |                                          |    |    |     | 98 |     |
| 49 |                                          |    |    |     | 99 |     |

## Patch Tests Routine Series (as from Feb 2018),

Date

Patient label



| BCSA | No.   | Reagent name                               | Conc. | Base | Day 2 | Day 4 | Relevance |
|------|-------|--------------------------------------------|-------|------|-------|-------|-----------|
| 1    | P014  | Potassium dichromate                       | 0.5%  | pet. |       |       |           |
| 2    | N001  | Neomycin sulphate                          | 20%   | pet. |       |       |           |
| 3    | Mx01  | Thiuram mix                                | 1%    | pet. |       |       |           |
| 4    | P006  | p-Phenylenediamine                         | 1%    | pet. |       |       |           |
| 5    | C017A | Cobalt chloride                            | 1%    | pet. |       |       |           |
| 6    | MX19  | Caine Mix III                              | 10%   | pet. |       |       |           |
| 7    | F002  | Formaldehyde                               | 2%    | aq.  |       |       |           |
| 8    | C020  | Colophony                                  | 20%   | pet. |       |       |           |
| 9    | MX02  | Quinoline mix                              | 6%    | pet. |       |       |           |
| 10   | B001  | Myroxylon Pereirae (Balsam of Peru)        | 25%   | pet. |       |       |           |
| 11   | I004  | N-Isopropyl-N-phenyl-4-phenylenediamine    | 0.1%  | pet. |       |       |           |
| 12   | W001  | Lanolin alcohol                            | 30%   | pet. |       |       |           |
| 13   | Mx05A | Mercapto mix                               | 2%    | pet. |       |       |           |
| 14   | E002  | Epoxy resin                                | 1%    | pet. |       |       |           |
| 15   | Mx03c | Parabens mix                               | 16%   | pet. |       |       |           |
| 16   | B024  | 4-Tert-Butylphenol formaldehyde resin      | 1%    | pet. |       |       |           |
| 17   | Mx07  | Fragrance mix I                            | 8%    | pet. |       |       |           |
| 18   | C007A | Quaternium 15 (Dowicil 200)                | 1%    | pet. |       |       |           |
| 19   | N002A | Nickel Sulphate                            | 5%    | pet. |       |       |           |
| 20   | C009B | Cl+Me-isothiazolinone                      | 0.02% | aq.  |       |       |           |
| 21   | M003A | Mercaptobenzothiazole                      | 2%    | pet. |       |       |           |
| 22   | A004  | Amerchol L101                              | 50%   | pet. |       |       |           |
| 23   | Mx18  | Sesquiterpene lactone mix                  | 0.1%  | pet. |       |       |           |
| 24   | C008  | p-Chloro-m-Cresol                          | 1%    | pet. |       |       |           |
| 25   | B015b | 2-Bromo-2-nitropropane-1,3-diol [Bronopol] | 0.5%  | pet. |       |       |           |
| 26   | C033  | Cetearyl alcohol                           | 20%   | pet. |       |       |           |
| 27   | F003  | Sodium fusidate                            | 2%    | pet. |       |       |           |
| 28   | T031a | Tixocortol-21-pivalate                     | 1%    | pet. |       |       |           |
| 29   | B033a | Budesonide                                 | 0.1%  | pet. |       |       |           |
| 30   | I001A | Imidazolidinyl urea (Germal115)            | 2%    | pet. |       |       |           |
| 31   | D044  | Diazolidinyl urea [Germal 11]              | 2%    | pet. |       |       |           |
| 32   | D049A | MethylDibromoGlutaronitrile                | 0.3%  | pet. |       |       |           |
| 33   | H010  | 2-Hydroxymethacrylate                      | 2.0%  | pet. |       |       |           |
| 34   | C010A | 4-Chloro-3,5-xyleneol (PCMX)               | 0.5%  | pet. |       |       |           |
| 35   | Mx-06 | Carba mix                                  | 3%    | pet. |       |       |           |
| 36   | Mx-25 | Fragrance mix II                           | 14%   | pet. |       |       |           |
| 37   | Mx-26 | Disperse Blue Mix 106/124                  | 1%    | pet. |       |       |           |
| 38   | L003  | Lyril                                      | 5%    | pet. |       |       |           |
| 39   | Mx22B | Compositae mix                             | 2.5%  | pet. |       |       |           |
| 40   | M035b | Methylisothiazolinone                      | 2%    | pet. |       |       |           |
| 41   | E2412 | Sodium metabisulphite                      | 1%    | pet. |       |       |           |
| 42   | H031  | Hydroperoxide of Linalool                  | 1%    | pet. |       |       |           |
| 43   | H032  | Hydroperoxide of Limonene                  | 0.3%  | pet. |       |       |           |
| 44   | O001  | Evernia Prunastri (Oak moss absolute)      | 2.0%  | pet. |       |       |           |
| 46   | E-027 | Ethylhexerin                               | 5.0%  | pet. |       |       |           |

## Medicament series (Feb 2018)

| No  | Article Chemo | No. | Reagent name                       | Conc.  | Base | Day 2 | Day 4 | Relevance |
|-----|---------------|-----|------------------------------------|--------|------|-------|-------|-----------|
| 1   | M027          |     | Miconazole                         | 1.00%  | alc  |       |       |           |
| 2   | B032          |     | Bacitracin                         | 5.00%  | pet. |       |       |           |
| 3   | C032          |     | Chloramphenicol                    | 5.00%  | pet. |       |       |           |
| 4   | E2389         |     | Clotrimazole                       | 5.00%  | pet. |       |       |           |
| 5   | G006          |     | Gentamicin sulphate                | 20.00% | pet. |       |       |           |
| 6   | B027          |     | Benzalkonium chloride              | 0.10%  | pet. |       |       |           |
| 7   | EO121         |     | Econazole nitrate                  | 1.00%  | alc  |       |       |           |
| 8   | C005          |     | Chlorhexidine digluconate          | 0.50%  | pet. |       |       |           |
| 9   | E2437         |     | Polymyxin B                        | 3.00%  | pet. |       |       |           |
| 10  | C016          |     | Coal Tar (Pix lithrancis)          | 5.00%  | pet. |       |       |           |
| 11  | E2491         |     | Nystatin                           | 2.00%  | pet. |       |       |           |
| 12  | P019A         |     | Propylene glycol                   | 5.00%  | pet. |       |       |           |
| 13  | Spec          |     | Granuflex dressing                 | as is  |      |       |       |           |
| 14  | E2311         |     | Framycetin sulphate                | 10.00% | pet. |       |       |           |
| 15* | S005          |     | Sorbitan sesquioleate (Arlacel 83) | 20.00% | pet  |       |       |           |
| 16* | T014          |     | Triclosan (Irgasan DP 300)         | 2.00%  | pet  |       |       |           |
| 17* | D006          |     | 2,6-Ditert-butyl-4-cresol (BHT)    | 2.00%  | pet  |       |       |           |
| 18* | B022          |     | 2-tert-Butyl-4-methoxyphenol (BHA) | 2.00%  | pet  |       |       |           |
| 19* | S003          |     | Sorbic acid                        | 2.00%  | pet. |       |       |           |
| 20  | E005          |     | Ethylenediamine                    | 1.00%  | pet  |       |       |           |

| No | Article No. | Reagent name                                        | Conc. | Base | Day 2 | Day 4 | Relevance |
|----|-------------|-----------------------------------------------------|-------|------|-------|-------|-----------|
| 1  | B031        | Betamethasone-17-valerate                           | 1.00% | pet  |       |       |           |
| 2  | T031        | Triamcinolone acetonide                             | 1.00% | pet  |       |       |           |
| 3  | A023        | Alclometasone-17,21-dipropionate                    | 1.00% | pet  |       |       |           |
| 4  | C028        | Clobetasol-17-propionate                            | 1.00% | pet. |       |       |           |
| 5  | D046        | Dexamethasone-21-phosphatedisodium salt             | 1.00% | pet  |       |       |           |
| 6  | H021A       | Hydrocortisone-17-butyrate                          | 1.00% | alc. |       |       |           |
| 7  | E2505       | Prednisolone                                        | 1.00% | pet  |       |       |           |
| 8  | T031B       | Tixocortol pivalate                                 | 0.1%  | pet  |       |       |           |
| 9  | ##          | Beconase nasal spray** (Beclometasone dipropionate) | as is |      |       |       |           |
| 10 | ##          | Eumovate ointment^^ (Clobetasone butyrate)          | as is |      |       |       |           |
| 11 | ##          | Elocon ointment^ (Mometasone furoate)               | as is |      |       |       |           |
| 12 | ##          | Trimovate*                                          | as is |      |       |       |           |
| 13 |             | Protopic ointment 0.1%                              | as is |      |       |       |           |
| 14 |             | Elidel cream                                        | as is |      |       |       |           |
| 15 |             |                                                     |       |      |       |       |           |

## Corticosteroid series (Sep 2011, reviewed May 2015)

Test to other steroids if indicated

\*Contains Clobetasone butyrate, oxytetracycline, nystatin, cetostearyl alcohol, chlorocresol, sodium metabisulphite

^ Contains Mometasone furoate, hexylene glycol, propylene glycolstearate, white soft paraffin

^^Contains Clobetasone butyrate, white soft paraffin, \*\* Contains Beclometasone dipropionate and propylene glycol

\*\*Contains benzalkonium chloride, polysorbate 80





|                                                              |              |       |
|--------------------------------------------------------------|--------------|-------|
| 33. Ethylenediamine dihydrochloride                          | 1%           | E005  |
| 34. Chloroxyleneol                                           | 0.5% ( PCMX) | C010A |
| 35. Carba Mix                                                | 3%           | Mx06  |
| 36. Fragrance Mix (II)                                       | 14%          | Mx25  |
| 37.( Lyril ) Hydroxyisohexyl 3-cyclohexene<br>carboxaldehyde | 5%           | L003  |
| 38. Compositae Mix (II)                                      | 2.5%         | Mx29B |
| 39. Disperse Blue Mix 106/124                                | 1%           | MX26  |
| 40 Methylisothiazoline                                       | 0.2%         | M035B |
| 41. Sodium Metabisulphate                                    | 1%           | S011  |
| 42. Linalool                                                 | 1.0%         | H-031 |
| 43. Limonene                                                 | 0.3%         | H-32  |
| 44. Dexpanthenol 5%<br>(E2387)                               | TROLAB       |       |
| 45. Textile dye mix Conc:6.6%                                |              | MX30  |
| - DiperseBlue 35                                             | 1.0% (D-027) |       |
| -Diperse Orange 1                                            | 1.0% (D-031) |       |
| -Disperse Orange 3                                           | 1.0% (D-031) |       |
| - Disperse Red 1                                             | 1.0% (D-034) |       |
| -Disperse Red 17                                             | 1.0% (D-035) |       |
| -DisperseYellow 3                                            | 1.0% (D-036) |       |
| -Disperse Blue 106                                           | 0.3% (D-040) |       |
| -Disperse Blue 124                                           | 0.3% (D-041) |       |

# PATCH TEST RECORD FORM

Date:

NAME:

NUMBER

AGE

TEST SUBSTANCES-BCDS & MEDICS. & ST. & AS IS

Provisional Diagnosis

Duration

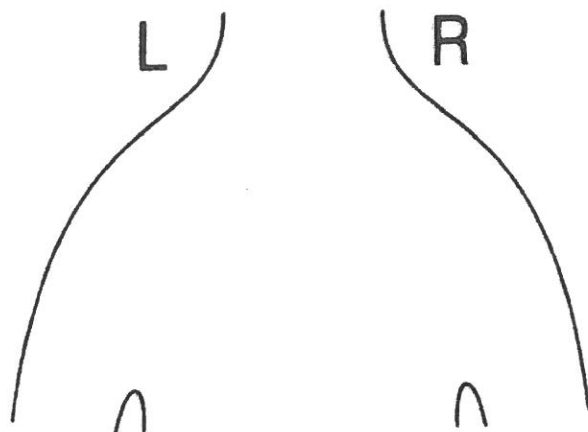
Occupation

Hobbies

Atopic-Y/N

Relevance of results:

Current / Past / D/n / Irritant



|    | BCDG<br>STANDARD<br>SERIES                         | 2 DAY | 4 DAY |    | BCDG<br>STANDARD<br>SERIES            | 2 DAY | 4 DAY |
|----|----------------------------------------------------|-------|-------|----|---------------------------------------|-------|-------|
| 1  | POT. DICHROMATE 0.5%                               |       |       | 26 | CETEARYL ALCOHOL 20%                  |       |       |
| 2  | NEOMYCIN 20%                                       |       |       | 27 | FUCIDIC ACID 2%                       |       |       |
| 3  | THIURAM MIX 1%                                     |       |       | 28 | TIXOCORTOL PIVALATE 1%                |       |       |
| 4  | PPD P-PHENYLENEDIAMINE 1%                          |       |       | 29 | BUDESONIDE 0.1%                       |       |       |
| 5  | COBALT 1%                                          |       |       | 30 | IMIDAZOLIDINYL UREA 2%                |       |       |
| 6  | CAINE MIX* 10%                                     |       |       | 31 | DIAZOLIDINYL UREA 2%                  |       |       |
| 7  | FORMALDEHYDE 2%                                    |       |       | 32 | METHYLIDIBROMO<br>GLUTARONITRILE 0.3% |       |       |
| 8  | COLOPHONY 20%                                      |       |       | 33 | ETHYLENEDIAMINE 1%                    |       |       |
| 9  | QUINOLINE MIX* 6%                                  |       |       | 34 | PCMX 1%                               |       |       |
| 10 | BALSAM OF PERU<br>(Myroxylon pereirae resin) 25%   |       |       | 35 | CARBA MIX 3%                          |       |       |
| 11 | IPPD 0.1%                                          |       |       | 36 | FRAGRANCE MIX 2 14%                   |       |       |
| 12 | WOOL ALCOHOLS 30%                                  |       |       | 37 | DISPERSE BLUE MIX 106/124<br>1%       |       |       |
| 13 | MERCAPTO MIX 2% (new 2013)                         |       |       | 38 | LYRAL 5%                              |       |       |
| 14 | EPOXY RESIN 1%                                     |       |       | 39 | COMPOSITAE MIX II 2.5%                |       |       |
| 15 | PARABEN MIX 16%                                    |       |       | 40 | SODIUM METABISULPHATE 1%              |       |       |
| 16 | PTBPF RESIN 1%                                     |       |       | 41 | METHYLISOTHIAZOLINONE<br>0.2%         |       |       |
| 17 | FRAGRANCE MIX 8%                                   |       |       | 42 | AMERCHOL 50%                          |       |       |
| 18 | QUATERNIUM 15 1%                                   |       |       | 43 | CONTROL 100%                          |       |       |
| 19 | NICKEL 5%                                          |       |       | 44 | LINALOOL 1%                           |       |       |
| 20 | KATHON 0.02%                                       |       |       | 45 | LIMONENE 0.3%                         |       |       |
| 21 | MBT 2%                                             |       |       | 46 | MICONAZOLE 1%                         |       |       |
| 22 | YLANG-YLANG OIL 2%                                 |       |       | 47 | BACITRACIN 5%                         |       |       |
| 23 | SLT 0.1%                                           |       |       | 48 | CHORAMPHENICOL 5%                     |       |       |
| 24 | CHLOROCRESOL 1%                                    |       |       | 49 | CLOTRIMZOLE 5%                        |       |       |
| 25 | 2 BROMO-2-NITROPROPANE-1,3-DIOL<br>0.5% (new 2012) |       |       | 50 | GENTAMICIN SULPHATE 20%               |       |       |

## PATCH TEST RECORD FORM

DATE:

NAME:

Provisional Diagnosis

NUMBER

Duration

AGE

Occupation

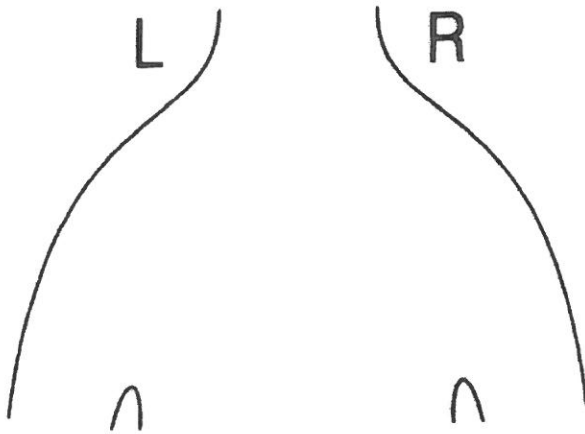
TEST SUBSTANCES-BCDS & MEDICS. & ST. & AS IS

Hobbies

Atopic-Y/N

Relevance of results:

Current / Past / D/n / Irritant



|    | BCDG<br>STANDARD<br>SERIES     | 2 DAY | 4 DAY |    | BCDG<br>STANDARD<br>SERIES | 2 DAY | 4 DAY |
|----|--------------------------------|-------|-------|----|----------------------------|-------|-------|
| 51 | BENZALKONIUM CHLORIDE 0.1%     |       |       | 74 | BETNOVATE N OINTMENT       |       |       |
| 52 | ECONAZOLE 1%                   |       |       | 75 | HYDROCORTISONE CREAM       |       |       |
| 53 | CHLORHEXIDINE DIGLUCONATE 0.5% |       |       | 76 | SYNALAR CREAM              |       |       |
| 54 | SORBIC ACID 2%                 |       |       | 77 | TRIMOVATE CREAM            |       |       |
| 55 | COAL TAR 5%                    |       |       | 78 | ELOCON CREAM               |       |       |
| 56 | NYSTATIN 2%                    |       |       |    |                            |       |       |
| 57 | PROPYLENE GLYCOL 5%            |       |       |    |                            |       |       |
| 58 | SORBITAN SESQUIOLATE 20%       |       |       |    |                            |       |       |
| 59 | TRICLOSAN 2%                   |       |       |    |                            |       |       |
| 60 | BHT 2%                         |       |       |    |                            |       |       |
| 61 | BHA 2%                         |       |       |    |                            |       |       |
| 62 | GRANUFLEX                      |       |       |    |                            |       |       |
| 63 | FRAMYCETIN 10%                 |       |       |    |                            |       |       |
| 64 | BETAMETHASONE -17-VALERATE 1%  |       |       |    |                            |       |       |
| 65 | TRAMCINOLONE ACETONITEDE 1%    |       |       |    |                            |       |       |
| 66 | ALCOMETHASONE DIPROPIONATE 1%  |       |       |    |                            |       |       |
| 67 | CLOBETASOL-17-PROPRIONATE 1%   |       |       |    |                            |       |       |
| 68 | DEXAMETHASONE PHOSPHATE 1%     |       |       |    |                            |       |       |
| 69 | HYDROCORTISONE -17-BUTYRATE 1% |       |       |    |                            |       |       |
| 70 | PREDNISOLONE 1%                |       |       |    |                            |       |       |
| 71 | DERMOVATE CREAM                |       |       |    |                            |       |       |
| 72 | BETNOVATE CREAM                |       |       |    |                            |       |       |
| 73 | BETNOVATE C CREAM              |       |       |    |                            |       |       |

| NUMBER. | ACRYLIC SERIES.                            | DAY 2. | DAY 4. |
|---------|--------------------------------------------|--------|--------|
|         | METHYL METHACRYLATE 2%<br>(Dental & metal) |        |        |
|         | BUTYL ACRYLATE 0.1%                        |        |        |
|         | EPOXY ACRYLATE 0.5%                        |        |        |
|         | EPOXY RESIN 1% (Bcdg)                      |        |        |
|         | 2-HYDROXYETHYL<br>METHACRYLATE 1% (Dental) |        |        |
|         | ETHYL ACRYLATE 0.1%                        |        |        |
|         | EYTHLCYNOACRYLATE 10%                      |        |        |

| NUMBER. | ANAL / VULVAL.                                                                  | DAY2. | DAY4. |
|---------|---------------------------------------------------------------------------------|-------|-------|
|         | RESORCINOL 1%. (Leg ulcer & hairdressing).                                      |       |       |
|         | BENZOCAINE 5%. (Dental).                                                        |       |       |
|         | PROCAINE 1%.                                                                    |       |       |
|         | CINCHOCAINE 5% (DIBUCAINE ). (Dental).                                          |       |       |
|         | TETRACAINE 1% (AMETHOCAINE). (Dental).                                          |       |       |
|         | LIDOCAINE 5%. (Dental).                                                         |       |       |
|         | CINNAMYL ALDEHYDE 1%.<br>(Perfume & bakery).                                    |       |       |
|         | CINNAMIC ALCOHOL 1%.<br>(Perfume & bakery).                                     |       |       |
|         | AMYL CINNAMALDEHYDE 2%. (Perfume).                                              |       |       |
|         | SORBITAN SESQUIOLEATE 20%. (Medicaments & facial & leg ulcer & perfumes).       |       |       |
|         | EUGENOL 1%.<br>(Bakery & dental & perfume).                                     |       |       |
|         | ISOEUGENOL 2%. (Bakery).                                                        |       |       |
|         | GERANIOL 1%. (Perfume).                                                         |       |       |
|         | OAK MOSS ABSOLUTE 1%. (Perfumes).                                               |       |       |
|         | HYDROXYCITRONELLAL 1%. (Perfumes).                                              |       |       |
|         | CHLORQUINADOL 5%. (Leg ulcer).                                                  |       |       |
|         | CHORHEXIDINE DICLUCONATE 0.5%.<br>(leg ulcer & contact lens & medicaments).     |       |       |
|         | BENZALKONIUM CHLORIDE 0.1%.<br>(Contact lens & medicaments & leg ulcer).        |       |       |
|         | 4 - AMINOAZOBENZENE 1%.<br>(Textile & shoe).                                    |       |       |
|         | DISPERSE ORANGE 3 1%.<br>(Textile & shoe).                                      |       |       |
|         | DISPERSE YELLOW 3 1%.<br>(Textile & shoe).                                      |       |       |
|         | DISPERSE RED 1 1%.<br>(Textile & shoe).                                         |       |       |
|         | DISPERSE RED 17 1%.<br>(Textile).                                               |       |       |
|         | DISPERSE BLUE 3 1%.<br>(Textile).                                               |       |       |
|         | TOLUENE SULPHONAMIDE FORMALDEHYDE 10%.<br>(Plastic+ glues & shoe & facial).     |       |       |
|         | MICONAZOLE 1%. (Medicaments).                                                   |       |       |
|         | ECONAZOLE 1%. (Medicaments).                                                    |       |       |
|         | OXYTETRACYCLINE 3%.                                                             |       |       |
|         | SODIUM METABISULPHATE 1%.<br>(Medicaments, Bcdg).                               |       |       |
|         | TRICLOSAN 2%.<br>(Medicaments & facial & oil+ coolants, leg ulcer, lip eczema). |       |       |

| Number.                  | Bakery Series.                                                                              | Day2. | Day 4. |
|--------------------------|---------------------------------------------------------------------------------------------|-------|--------|
|                          | VANILLIN 10% ( <b>Fragrance</b> ).                                                          |       |        |
|                          | EUGENOL 1%<br>( <b>Fragrance</b> , Anal/vulval & Dental).                                   |       |        |
|                          | ISOEUGENOL 2% ( <b>Anal/vulval</b> ).                                                       |       |        |
|                          | SODIUM BENZOATE 5%.                                                                         |       |        |
|                          | BHT OR BUTYL HYDROXYTOLUENE 2%<br>( <b>Medicament</b> , facial, Leg ulcer & Plastic&glues). |       |        |
|                          | MENTHOL 2%.                                                                                 |       |        |
|                          | CINNAMYL ALCOHOL 1%.<br>( <b>Fragrance</b> & Anal/vulval).                                  |       |        |
|                          | CINNAMYL ALDEHYDE 1%.<br>( <b>Fragrance</b> & Anal/vulval).                                 |       |        |
|                          | BHA OR BUTYL HYDROXYANISOLE 2%.<br>( <b>Medicament</b> , facial, & Plastic&glues)           |       |        |
|                          | ANETHOLE 5%                                                                                 |       |        |
|                          | SORBIC ACID 2%<br>(Leg ulcer, facial & <b>medicaments</b> ).                                |       |        |
|                          | BENZOIC ACID 5%                                                                             |       |        |
|                          | OCTYL GALLATE 0.3%.                                                                         |       |        |
|                          | LEMON OIL 2%.                                                                               |       |        |
|                          | AMMONIUM PERSULPHATE 2.5% ( <b>hairstressing</b> ).                                         |       |        |
|                          | BENZOYL PEROXIDE 1%.<br>( <b>Plastics + glues</b> & Leg ulcer & metals).                    |       |        |
|                          | PROPYL GALLATE 0.5%.                                                                        |       |        |
|                          | DODECYL GALLATE 0.25%.                                                                      |       |        |
| Discontinued<br>JAN 2014 | DIPENTENE (LIMONENE) 1%.<br>(Oil & coolants, <b>fragrance</b> & facial).                    |       |        |

| NUMBER | CONTACT LENS SERIES                                                        | DAY 2 | DAY 4 |
|--------|----------------------------------------------------------------------------|-------|-------|
|        | BENZALKONIUM CHLORIDE 0.1%<br>(Medicament & anal+vulval & leg ulcer).      |       |       |
|        | CHLORAHXIDINE DICLUCONATE 0.5%.<br>(Leg ulcer & medicament & anal+vulval). |       |       |
|        | EDETIC ACID DISODIUM SALT 1% (Facial).                                     |       |       |
|        | PHENYLMERCURIC ACETATE 0.01% (Leg<br>ulcer).                               |       |       |
|        | THIMEROSAL OR MERTHIDATE 0.1%<br>(Oil+coolant & leg ulcer).                |       |       |
|        |                                                                            |       |       |
|        |                                                                            |       |       |

| NUMBER                          | COSMETIC/ FACIAL                                                                                | DAY 2 | DAY 4 |
|---------------------------------|-------------------------------------------------------------------------------------------------|-------|-------|
|                                 | BHT OR BUTYL HYDROXYTOLUENE 2%<br>( <b>Medicaments</b> & Plastics+ Glues, & Leg ulcer & bakery) |       |       |
|                                 | BHA OR BUTYL HYDROXYANISOLE 2%<br>( <b>Medicaments</b> & Plastics+Glues & Bakery)               |       |       |
|                                 | SANTOLITE (TOLUENESULPHONAMINDE) 10%<br>(Plastics+ Glues & Shoes & Anal+vulval).                |       |       |
|                                 | AMERCHOL 50%<br>( <b>BCDG</b> & Leg ulcer & medicaments & oil+ coolants).                       |       |       |
|                                 | COCAMIDOPROPYL BETAIN 1%.                                                                       |       |       |
|                                 | SORBIC ACID 2%<br>(Leg Ulcer & <b>Medicaments</b> & bakery).                                    |       |       |
|                                 | TERT-BUTYLHYDROQUINONE 1%.                                                                      |       |       |
|                                 | TRICLOSAN 2% (Leg Ulcer & <b>Medicaments</b> & Oil+coolants & Anal+vulval & Lip eczema).        |       |       |
|                                 | PROPYL GALLATE 1.00%                                                                            |       |       |
|                                 | ABITOL 10%.                                                                                     |       |       |
|                                 | BENZYL ALCOHOL 10%.                                                                             |       |       |
|                                 | METHOXYBENZOPHONE 10%.                                                                          |       |       |
|                                 | TRIETHANOLAMINE 2%<br>( <b>Oil+Coolants</b> & Leg ulcer)                                        |       |       |
|                                 | DMDM HYDANTOIN 2%.                                                                              |       |       |
|                                 | EDTA 1% ( <b>Contact Lens</b> )                                                                 |       |       |
|                                 | PROPOLIS 10% (leg ulcer & <b>plants</b> )                                                       |       |       |
|                                 | TEA TREE OIL 5%.                                                                                |       |       |
|                                 | CHLORACETAMIDE 2%<br>( <b>Oil+Coolant</b> & Leg ulcer)                                          |       |       |
|                                 | IODOPROPYNYL BUTYLCARBAMATE 0.2%                                                                |       |       |
|                                 | OLEAMIDOPROPYL DIAETHYLAMINE 0.1%                                                               |       |       |
|                                 | SORBITAN SESQUIOLEATE 20%<br>( <b>Medicament</b> , Anal+vulval, Leg ulcer & Perfumes)           |       |       |
|                                 | COCONUT DIETHANOLAMIDE 0.5%                                                                     |       |       |
|                                 | GLYCERYL MONOTHIOGLYCOLATE 1%<br>(Hairdressing).                                                |       |       |
|                                 | PARSOL 1789 METHOXY-DIBENZYMETHANE<br>10% (Sun Screen).                                         |       |       |
|                                 | 2, 5-DIAMINOTOLENE<br>(TOLUENE-2,5-DIAMINE SULFATE) 1%<br>( <b>Hairdressing</b> ).              |       |       |
| <b>Discontinued<br/>Jan 14.</b> | DIPENTENE (LIMONENE) 1%<br>(Oil+Coolant & bakery & <b>perfume</b> ).                            |       |       |
|                                 | ALUMINUMCHLORIDEHEXAHYDRATE 2%<br>(Textiles)                                                    |       |       |
|                                 | METHYLISOTHIAZOLINONE 0.2% ( <b>Bcdg</b> ).                                                     |       |       |
|                                 | DEXAPATHENOL 5%                                                                                 |       |       |

| NUMBER | DENTAL SERIES                                               | DAY 2 | DAY 4 |
|--------|-------------------------------------------------------------|-------|-------|
|        | METHYL METHACRYLATE 2%<br>(Acrylic & Metals).               |       |       |
|        | TRIETHYLENEGLYCOL DIMETH-<br>ACRYLATE 2%                    |       |       |
|        | DIURETHANE DIAMETHACRYLATE 2%                               |       |       |
|        | ETHYLENEGLYCOL DIMETH-ACRYLATE<br>2%                        |       |       |
|        | BIS-GMA 2%                                                  |       |       |
|        | N:N-DIMETHYL-4-TOLUIDINE 2% (Metals)                        |       |       |
|        | 2-HYDROXY-4-METHOXY-<br>BENZOPHENON 10%                     |       |       |
|        | BIS-MA 2%                                                   |       |       |
|        | POTASSIUM DICHROMATE 0.5% (Bcdg &<br>metals).               |       |       |
|        | AMMONIATED MERCURY 1%                                       |       |       |
|        | COBALT CHLORIDE 1%<br>(Bcdg & metals).                      |       |       |
|        | 2-HYDROXYETHYL METHACRYLATE 1%<br>(Acrylic).                |       |       |
|        | GOLD SODIUM THIOSULPHATE 2%                                 |       |       |
|        | NICKEL SULPHATE 5%<br>(Bcdg & metals).                      |       |       |
|        | EUGENOL 1%<br>(Perfumes & anal+vulval, & bakery)            |       |       |
|        | AMETHOCAINE HYDROCHLORIDE<br>1% (TETRACAINE) (Anal+vulval). |       |       |
|        | CHINCHOCAINE 5%<br>HYDROCHLORIDE (Anal+vulval).             |       |       |
|        | LIDOCAINE 5% (Anal+vulval).                                 |       |       |
|        | BENZOCAINE 5% (Anal+vulval).                                |       |       |

| NUMBER | HAIRDRESSING SERIES.                                       | DAY 2 | DAY 4 |
|--------|------------------------------------------------------------|-------|-------|
|        | 2.5-DIAMINOTOLUENE TOLUENE-2.5-DIAMINE SULFATE 1% (Facial) |       |       |
|        | 2-NITRO-P-PHENYLEN DIAMINE 1%                              |       |       |
|        | AMMONIUM THIOGLYCOLATE 2.5%                                |       |       |
|        | RESORCINOL 1% (anal+vulval & Leg ulcer)                    |       |       |
|        | 3-AMINOPHENOL 1% (textiles)                                |       |       |
|        | HYDROQUINONE 1% (plastics+glues & metals)                  |       |       |
|        | GLYCERL MONOTHIOGLYCOLATE 1% (facial)                      |       |       |
|        | AMMONIUM PERSULPHATE 2.5% (bakery)                         |       |       |
|        | 4 AMINOPHENOL 1% (textiles)                                |       |       |
|        | CAPTAN 0.5%                                                |       |       |
|        | HYDROGEN PEROXIDE 3%                                       |       |       |

| NUMBER              | LEG ULCER SERIES                                                                         | DAY 2 | DAY4  |
|---------------------|------------------------------------------------------------------------------------------|-------|-------|
| <b>Discontinued</b> | LANOLIN                                                                                  | ----- | ----- |
|                     | UNG EMULSIFICANS                                                                         |       |       |
|                     | SORBITAN MONO-OLEATE (SPAN 80) 5%                                                        |       |       |
|                     | CHLORHEXIDINE DIGLUTONATE 0.5%<br>(anal+vulval & contact lens & <b>medicament</b> ).     |       |       |
|                     | METHYL PARABENS 3%                                                                       |       |       |
|                     | GENTAMYCIN 20% ( <b>Medicament</b> & metals).                                            |       |       |
|                     | POVIDONE IODINE                                                                          |       |       |
|                     | PROPYL PARABENS 3%                                                                       |       |       |
|                     | SORBIC ACID 2%<br>( <b>Medicament</b> & facial & bakery).                                |       |       |
|                     | COAL TAR 5% ( <b>Medicament</b> )                                                        |       |       |
|                     | CHLORQUINALDOL 5% (Anal+vulval)                                                          |       |       |
|                     | METROGEL                                                                                 |       |       |
|                     | WOOD TAR 12%                                                                             |       |       |
|                     | AMERCHOL 50% ( <b>BCDG</b> & facial & medicaments & oil +<br>coolants)                   |       |       |
|                     | TRICLOSAN 2% ( <b>Medicament</b> & Facial & oil +coolants<br>& anal+vulval & lip eczema) |       |       |
|                     | FLAMAZINE                                                                                |       |       |
|                     | GRANUFLEX ( <b>Medicament</b> & shoe)                                                    |       |       |
|                     | NITROFURAZONE 1%                                                                         |       |       |
|                     | EOSIN 5%                                                                                 |       |       |
|                     | CHLORHEXIDINE DIACETATE 0.5%                                                             |       |       |
|                     | PHENOXYETHANOL 1%                                                                        |       |       |
|                     | RESORCINOL 1% ( <b>Anal+ vulval</b> & hairdressing)                                      |       |       |
|                     | BENZALKONIUM CHLORIDE 0.1%<br>( <b>Medicament</b> / anal+vulval & contact lens)          |       |       |
|                     | BACITRACIN 5% ( <b>Medicaments</b> )                                                     |       |       |
|                     | BHT 2% ( <b>Medicament</b> , facial, plastics+glues & bakery)                            |       |       |
|                     | CHLORAMPHENICOL 5% ( <b>Medicaments</b> )                                                |       |       |
|                     | BENZOYL PEROXIDE 1% ( <b>Plastic +glues</b> & bakery &<br>metals)                        |       |       |
|                     | PROPOLIS 10% (Facial & <b>plants</b> )                                                   |       |       |
|                     | THIMEROSAL 0.1%<br>(Contact lens / & <b>oil +coolant</b> )                               |       |       |
|                     | TRIETHANOLAMINE 2%<br>( <b>Oil+coolant</b> , & facial)                                   |       |       |
|                     | FRAMYCETIN 10% ( <b>Medicaments</b> )                                                    |       |       |
|                     | SORBITAN SESQUIOLEATE 20% ( <b>Medicaments</b> &<br>facial & anal+ vulval & perfumes)    |       |       |
|                     | PHENYLMERCURIC ACETATE 0.01%<br>( <b>Contact lens</b> )                                  |       |       |
|                     | CHOLACETAMIDE 2%<br>( <b>Oil +coolant</b> & facial)                                      |       |       |

| NUMBER       | LIP ECZEMA                                                                    | DAY 2 | DAY 4 |
|--------------|-------------------------------------------------------------------------------|-------|-------|
|              | BAKERY SERIES                                                                 |       |       |
|              | TRICLOSAN 2%<br>(Anal+vulval & oil+coolant & leg ulcer & facial & medicament) |       |       |
|              | TOOTHPASTE & DENTIFRICES<br>(PATIENTS OWN)                                    |       |       |
|              | LIPSTICK & BALM (PATIENTS OWN)                                                |       |       |
|              | PROPYLENE GLYCOL 5%<br>(Medicaments & oil+coolant)                            |       |       |
| Discontinued | EUXYL K400<br>(Oil&coolants)                                                  |       |       |
|              | DICHLOROPHENE 1%<br>(Oil +coolant)                                            |       |       |

| NUMBER | MEDICAMENT SERIES                                                             | DAY 2 | DAY 4 |
|--------|-------------------------------------------------------------------------------|-------|-------|
|        | MICONAZOLE 1% (Anal+vulval)                                                   |       |       |
|        | BACITRACIN 5% (Leg ulcer)                                                     |       |       |
|        | CHLORAMPHENICOL 5% (Leg ulcer)                                                |       |       |
|        | CLOTRIMAZOLE 5%                                                               |       |       |
|        | GENTAMICIN SULPHATE 20%<br>(Leg ulcer & metal)                                |       |       |
|        | AMERCHOL 50% ( <b>BCDG</b> & facial & leg ulcer &<br>oil+coolants)            |       |       |
|        | BENZALKONIUM CHLORIDE 0.1%<br>(Contact lens & anal + vulval & leg ulcer)      |       |       |
|        | ECONAZOLE NITRATE 1%(Anal+vulval)                                             |       |       |
|        | CHLORHEXIDINE DIGLUCONATE 0.5%<br>(Leg ulcer & contact lens & anal+vulval)    |       |       |
|        | SODIUM METABISULPHATE 1%<br>(Anal+vulval & <b>BCDG</b> )                      |       |       |
|        | SORBIC ACID 2% (Leg ulcer & facial & bakery)                                  |       |       |
|        | COAL TAR 5% (Leg ulcer)                                                       |       |       |
|        | NYSTATIN 2%                                                                   |       |       |
|        | PROPYLENE GLYCOL 5% (Oil+coolant & lip ecema)                                 |       |       |
|        | SORBITAN SESQUIOLEATE 20%<br>(Facial & leg ulcer & anal+vulval & perfumes)    |       |       |
|        | TRICLOSAN 2% (Leg ulcer & facial & oil+coolant &<br>anal+vulval & lip eczema) |       |       |
|        | BHT 2% (Facial & plastics+glues & leg ulcer & bakery)                         |       |       |
|        | BHA 2% (facial & plastics+glues & bakery )                                    |       |       |
|        | GRANUFLEX (leg ulcer & shoe)                                                  |       |       |
|        | FRAMYCETIN 10% (leg ulcer)                                                    |       |       |

| NUMBER | METAL SERIES                                                 | DAY 2 | DAY 4 |
|--------|--------------------------------------------------------------|-------|-------|
|        | POTASSIUM DICHROMATE 0.5%<br>(BCDG & dentals).               |       |       |
|        | COBALT CHLORIDE 1% (BCDG).                                   |       |       |
|        | NICKEL SULPHATE 5% (BCDG & dental).                          |       |       |
|        | IRIDIUM (III) CHLORIDE 1%                                    |       |       |
|        | TITANIUM OXIDE 10%                                           |       |       |
|        | VANADIUM (III) CHLORIDE 1%.                                  |       |       |
|        | COPPER SULPHATE 2%.                                          |       |       |
|        | N, N, DIMETHYL-P-TOLUIDINE 2%<br>(Dentals).                  |       |       |
|        | BENZOYL PEROXIDE 1%<br>(Plastic+glues & bakery & leg ulcer). |       |       |
|        | N-BUTYL METHACRYLATE 2% .                                    |       |       |
|        | HYDROQUINONE 1% (Plastic +glues<br>& haidressing).           |       |       |
|        | METHYLMETHACRYLATE 2%<br>(Acrylates & dentals).              |       |       |
|        | GENTAMICIN 20% (Medicaments &<br>leg ulcer).                 |       |       |
|        |                                                              |       |       |

| NUMBER                  | OIL & COOLANTS                                                                    | DAY 2 | DAY4 |
|-------------------------|-----------------------------------------------------------------------------------|-------|------|
|                         | ABIETIC ACID 10%                                                                  |       |      |
|                         | PCMC P-CHORO-M-CRESCOL 1% (BCDG)                                                  |       |      |
|                         | PCMX CHLOROXYLENOL 0.5% (BCDG)                                                    |       |      |
|                         | DICHLOROPHENE 1%<br>(LIP ECZEMA)                                                  |       |      |
|                         | 2-PHENYLPHENOL 1%                                                                 |       |      |
|                         | PROPYLENEGLYCOL 5%<br>(Medicament & lip eczema)                                   |       |      |
|                         | TRIETHANOLAMINE 2%<br>(Facial & leg ulcer)                                        |       |      |
|                         | 4-BUTYLBENZOIC ACID 1%                                                            |       |      |
|                         | BIT(1,2-BENZIOTHIAZOLIN-3-ONE 0.05%                                               |       |      |
|                         | GROTAN BK 1%                                                                      |       |      |
|                         | BIOBAN P 1487 1%                                                                  |       |      |
|                         | CHOLACETAMIDE 2%<br>(Facial & leg ulcer)                                          |       |      |
|                         | GROTAN HD 1%<br>(N-METHYLCHLOROACETAMIDE)                                         |       |      |
|                         | IH -BENZOTRIAZOLE 1%                                                              |       |      |
|                         | ZINC ETHYLENEBIS 1%<br>(DIYHIOCARBAMATE)                                          |       |      |
|                         | TRICLOSAN 2%<br>(Facial & lip eczema & leg ulcer &<br>medicament & anal + vulval) |       |      |
|                         | BIOBAN CS 1246 1%<br>(7- ETHYLICYCLOOXAOLIDINE)                                   |       |      |
| Discontinued<br>Feb 08  | BIOBAN CS 1135<br>(4,4DIMETHYLOXAZOLIDINE/3,4,4<br>ETHYAXAZOLIDINE)               |       |      |
| Discontinued<br>June 07 | TRIS NITRO                                                                        |       |      |
|                         | THIMEROSAL 0.1% (Contact lens & leg ulcer)                                        |       |      |
|                         | HYDRAZINE SULPHATE 1%                                                             |       |      |
|                         | AMERCOL 50% (BCDG & medicament &<br>facial & leg ulcer)                           |       |      |
| Discontinued<br>Jan 14  | DIPENTENE 1%<br>(Perfume & bakery & facial)                                       |       |      |
|                         | BRONOPOL 0.5% (BCDG)                                                              |       |      |
|                         | KATHON CG 0.02% (BCDG)                                                            |       |      |
| Discontinued<br>11      | EUXYL K (Lip eczema)                                                              |       |      |
|                         | SKANE M-8 1% OCTYL-ISOTHIAZOLIN-3-<br>ONE) (Plastics + glues & shoe)              |       |      |

| NUMBER                    | PERFUMES FLAVOURS & COLOURS                                                  | DAY 2 | DAY 4 |
|---------------------------|------------------------------------------------------------------------------|-------|-------|
|                           | BENZYL SALICYLATE 1%                                                         |       |       |
|                           | CINNAMYL ALCOHOL 1%<br>(Bakery & anal+vulval)                                |       |       |
|                           | CINNAMALDEHYDE 1%<br>(Bakery & anal+vulval)                                  |       |       |
|                           | HYDROXYCITRONELLAL 1% (Anal+vulval)                                          |       |       |
|                           | VANILLIN 10% (Bakery)                                                        |       |       |
|                           | OAK MOSS ABSOLUTE 1% (Anal+vulval)                                           |       |       |
|                           | ISOEUGENOL IN SORBITAN SESQUIOLEATE 1%                                       |       |       |
|                           | GERANOL 1% (Anal+vulval)                                                     |       |       |
|                           | EUGENOL 1% (Bakery & dental & anal+vulval)                                   |       |       |
|                           | BENZYL ALCOHOL 1%                                                            |       |       |
|                           | MUSK XYLENE 1%                                                               |       |       |
| Discontinued<br>Jan 2014. | DIPENETENE 1%<br>(Oil+ Coolant & bakery & facial)                            |       |       |
|                           | HYDROXYMETHYLPHENYLCYCLOHEXENE-<br>CARBOXALDEHYDE (LYRAL) 5% (BCDG)          |       |       |
|                           | CITRAL 2%                                                                    |       |       |
|                           | CITRONELLOL 1%                                                               |       |       |
|                           | FARNESOL 5%                                                                  |       |       |
|                           | COUMARIN 5%                                                                  |       |       |
|                           | HEXYL CINNAMIC ALDEHYDE 10%                                                  |       |       |
|                           | AMYL CINNAMIDE 2% (Anal+vulval)                                              |       |       |
|                           | SORBITAN SEQUIOLEATE 20%<br>(Medicaments & facial & leg ulcer & anal+vulval) |       |       |
|                           | ALPHA-METHYLENE-GAMMA-BUTYROLACTONE<br>0.01% (Plants)                        |       |       |

Fragrance mix II contains 6 individual fragrances:

- Citral
- Citronellol
- Farnesol
- Coumarin
- Alpha-Hexyl-Cinnamal
- Hydroxyisohexyl- $\beta$ -cylcohexene carboxaldehyde (Lyr<sup>al</sup><sup>TM</sup>)

| NUMBER | PLANT SERIES                                               | DAY 2 | DAY 4 |
|--------|------------------------------------------------------------|-------|-------|
|        | CHAMOMILLA ROMANA 1%<br>(ANTHEMIS NOBILIS)                 |       |       |
|        | DIALLYDISULFIDE 1% (GARLIC)                                |       |       |
|        | ARNICA MONTANA 0.5%<br>(MOUNTAIN TOBACCO)                  |       |       |
|        | TARAXACUM OFFICINALE 2.5%<br>(DANDELION)                   |       |       |
|        | ACHILLEA MILLE FOLIUM 1%<br>(YARROW)                       |       |       |
|        | PROPOLIS 10%<br>(Facial & leg ulcer)                       |       |       |
|        | CHRYSANTHEMUM<br>CINERARIAE FOLIUM<br>(PYRETHRUM) 1%       |       |       |
|        | SESQUITERPENE LACTONE<br>MIX 1% (BCDG)                     |       |       |
|        | ALPHA-ETHYLENE-GAMMA-<br>BUTYROLACTONE 0.01%<br>(Perfumes) |       |       |
|        | TANACETUM VALGARE (TANSY)<br>1%                            |       |       |
|        | ALANTOLACTONE 0.033%                                       |       |       |
|        | LICHEN ACID MIX 0.3%                                       |       |       |
|        | PARTHENOLIDE 0.1%                                          |       |       |
|        | COMPOSITAE MIX 2.5%<br>(BCDG)                              |       |       |

| NUMBER       | PLASTICS AND GLUES                                                       | DAY 2 | DAY 4 |
|--------------|--------------------------------------------------------------------------|-------|-------|
|              | PHENOL FORMALDEHYDE RESIN 5%<br>(Novalock)                               |       |       |
|              | TRIETHYLENETETRAMINE 0.5%                                                |       |       |
|              | 4-4 DIAMINODIPHENYL METHANE 0.5%<br>(Shoe)                               |       |       |
| Discontinued | PHENOL FORMALDEHYDE (RESOL)                                              |       |       |
|              | DI-N-BUTYLPHALATE 5%                                                     |       |       |
|              | TRIPHENYL PHOSPHATE 5%                                                   |       |       |
|              | TRICRESYL PHOSPHATE (ISOMER BLEND)<br>5%                                 |       |       |
|              | P.T. BUTYLPHENOL FORMALD 1%                                              |       |       |
|              | BHT 2% (Facial & Medicament & Leg ulcer &<br>Bakery)                     |       |       |
|              | HYDROQUINONE 1%<br>( Hairdressing & Metals)                              |       |       |
|              | SANTOLITE (TOLUENSULFONAMIDE) 10%<br>(Facial & Shoe & Anal+vulval)       |       |       |
|              | BENZOYL PEROXIDE 1%<br>(Bakery & Leg ulcer & Metals)                     |       |       |
|              | BHA 2% (Facial & Medicament & Bakery)                                    |       |       |
|              | RESORCINOL MONOBENZOATE 1%                                               |       |       |
|              | HEXAMETHYLENE TETRAMINE 1%                                               |       |       |
|              | PHENYLGLYCIDYLETHER 0.25%                                                |       |       |
|              | DIETHYLENETRIAMINE 1%                                                    |       |       |
|              | ISOPHORONE DIAMINE 0.1%                                                  |       |       |
|              | EPOXY RESIN CYCLOALIPHATIC 0.5%                                          |       |       |
|              | ETHYLENEDIAMINE DIHYDROCHLORIDE 1%<br>(BCDG)                             |       |       |
|              | DIMETHYLAMINOPROPYLAMINE 1%                                              |       |       |
|              | TRIGYCIDYL ISOCYNUATE 0.5%                                               |       |       |
|              | SKANE M-8 1% (OCTYL-ISOTHIAZZAZOLIN-<br>3-ONE)<br>(Oil +Coolants & Shoe) |       |       |

| NUMBER | SHOE SERIES                                                                             | DAY 2 | DAY 4 |
|--------|-----------------------------------------------------------------------------------------|-------|-------|
|        | DIPHENYL THIOUREA 1%                                                                    |       |       |
|        | OCTYLISOTHIAZOLINONE 0.025%                                                             |       |       |
|        | YELLOW ACID 36 1%<br>(Textiles)                                                         |       |       |
|        | DIPHENYL GUANIDINE 1%                                                                   |       |       |
|        | DISPERSE ORANGE 3 1%<br>(Textiles & Anal+vulval)                                        |       |       |
|        | HYDROQUINO-MONOBENZYLETHER<br>1%                                                        |       |       |
|        | 4-AMINOAZOBENZENE 1%<br>(Textiles & Anal+vulval)                                        |       |       |
|        | KAURIT S 10% (Textiles)                                                                 |       |       |
|        | DISPERSE RED 1 1%<br>(Textiles & Anal+vulval)                                           |       |       |
|        | TOLUENESULFONAMIDE<br>FORMALDEHYDE 10%<br>(Facial & plastic+glues & anal+vulval)        |       |       |
|        | DISPERSE YELLOW 3 1%<br>(Textiles & anal+vulval)                                        |       |       |
|        | 4-4 DIAMINOPHENYL METHANE 0.5%<br>(Plastic+Glues)                                       |       |       |
|        | GLUTARDIALDEHYDE 0.3%                                                                   |       |       |
|        | DIETHYLTHIOUREA 1%                                                                      |       |       |
|        | DIRECT ORANGE 34 5%                                                                     |       |       |
|        | GRANUFLEX (Medicaments & leg ulcer)                                                     |       |       |
|        | BASIC RED 46 1% (Textile)                                                               |       |       |
|        | 2-N- OCTLY-4-ISOTHIA-ZOLIN-3-ONE<br>(SKANE M-8) 1%<br>(Oil +coolants & plastics+ glues) |       |       |
|        | 2 HYDROXY-5-METHY-PHENYL<br>BENZOTRIAZOL 1%                                             |       |       |
|        | DI-THIODIAMORPHOLINE 1%                                                                 |       |       |
|        | DIMETHYLFUMARATE 0.01% (textiles)                                                       |       |       |
|        | IF -VE ON DAY 2 THEN ADD                                                                |       |       |
|        | DIMETHYLFUMARATE 0.1% (textiles)                                                        |       |       |

| NUMBER | SUN SCREEN SERIES                                                  | DAY 2 | DAY 4 |
|--------|--------------------------------------------------------------------|-------|-------|
|        | PARASOL 1789 (4-TERT-BUTYL-4-METHOXY-DIBENZOYLMETHANE)10% (Facial) |       |       |
|        | P.A.B.A (4,AMINOBENZOIC ACID) 10%                                  |       |       |
|        | ESCALOL 507 (2-ETHYLEXYL-4-DIMETHYL-AMINOBENZOATE) 10%             |       |       |
|        | ISOAMYL-4-METHOXYCINNAMETE 10%                                     |       |       |
|        | BENZOPHENONE 4 10%                                                 |       |       |
|        | 2-HYDROXY-METHOXY-METHYLBENZOPHENONE (MEXENONE) 10%                |       |       |

| NUMBER | TEXTILE RESINS AND DYES                        | DAY 2 | DAY 4 |
|--------|------------------------------------------------|-------|-------|
|        | DISPERSE YELLOW 3 1%<br>(Shoe & Anal+vulval)   |       |       |
|        | DISPERSE ORANGE 3 1%<br>(Shoe & Anal+vulval)   |       |       |
|        | DISPERSE RED 1 1%<br>(Shoe & Anal+vulval)      |       |       |
|        | DISPERSE RED 17 1% (Anal+vulval)               |       |       |
|        | DISPERSE BLUE 153 1%                           |       |       |
|        | DISPERSE BLUE 3 1% (Anal+vulval)               |       |       |
|        | FIXAPRET CPN 4.5%                              |       |       |
|        | FIXAPRET NF 4.5%                               |       |       |
|        | DISPERSE BLUE 106 1%                           |       |       |
|        | FIXAPRET AC 5%                                 |       |       |
|        | KAURIT M 70 7%                                 |       |       |
|        | DISPERSE BLUE 85 1%                            |       |       |
|        | DISPERSE ORANGE 1 1%                           |       |       |
|        | DISPERSE BROWN 1 1%                            |       |       |
|        | DISPERSE YELLOW 9 1%                           |       |       |
|        | KAURIT S 10% (Shoe)                            |       |       |
|        | BASIC RED 46 1% (Shoe)                         |       |       |
|        | BISMARK BROWN R 0.5%                           |       |       |
|        | DISPERSE BLUE MIX 1% (BCDG)                    |       |       |
|        | 4 AMINOAZOBENZENE 1%<br>(Shoe & Anal+vulval)   |       |       |
|        | ACID YELLOW 36 1% (Shoe)                       |       |       |
|        | FIX ECO 5%                                     |       |       |
|        | 4 AMINOPHENOL 1% (Hairdressing)                |       |       |
|        | 3 AMINOPHENOL 1% (Hairdressing)                |       |       |
|        | NAPTHOL AS 1%                                  |       |       |
|        | REACTIVE BLACK 5 1%                            |       |       |
|        | ALUMINUMCHLORIDE<br>HEXAHYDRATE 2% (Cosmetics) |       |       |
|        | DIMETHYLFUMARATE 0.01% (Shoe)                  |       |       |
|        | <b>IF -VE ON DAY 2 THEN ADD</b>                |       |       |
|        | DIMETHYLFUMARATE 0.1% (Shoe)                   |       |       |

|    | Centre                    | Name of contact    | BSDS copy Y/<br>N | Occlusion period | Number of readings        |
|----|---------------------------|--------------------|-------------------|------------------|---------------------------|
| 1  | Mid Yorkshire             | Naila Usmani       | N                 | 48h              | Day 2, Day 4, Day 7 (occ) |
| 2  | Leeds                     | Mark Wilson        | Y                 | 48h              | Day 2, Day 4, Day 7 (occ) |
| 3  | Wrexham                   | Glenda Hill        | Y                 | 48h              | Day 2, Day 4, Day 7 (occ) |
| 4  | Newport                   | Natalie Stone      | N                 | 48h              | Day 2, Day 4, Day 7 (occ) |
| 5  | Leicester Royal Infirmary | Johnston Graham    | N – see additions | 48h              | Day 2, Day 4, Day 7 (occ) |
| 6  | ULH                       | Krisztina Scharrer | Y                 | 48h              | Day 2, Day 4, Day 7 (occ) |
| 7  | Truro                     | Preshita Divekar   | N                 | 48h              | Day 2, Day 4, Day 7 (occ) |
| 8  | Oxford                    | Sue Cooper         | N                 | 48h              | Day 2, Day 4, Day 7 (occ) |
| 9  | Swansea                   | Avad Mughal        | Y                 | 48h              | Day 2, Day 4, Day 7 (occ) |
| 10 | Merged with Oxford        | Antony Chu         | As Oxford         | As Oxford        | As Oxford                 |
|    |                           |                    |                   |                  |                           |

## Additions to BSCA standard

### Leicester Royal Infirmary

To make things simple:

here in Leicester we had been using the full BSCA recommended standard series with additions of

- Limonene & Linalool for Deirdre Buckley's fragrance study in approx. 2017
- Adipic acid/Phthalic anhydride for my nail allergen study in approx. 2018
- Glucosides for the cosmetic study in approx. 2019

We offer all the extended series from Chemotechnique with no alterations

We follow the BSCA/ESSCA/ICDRG protocol of application on Monday & readings on day 2 (Wed) and day 4 (Fri)

### ULH

We used the Chemotechnique cosmetics, fragrances, meth acrylates, textile dye, rubber batteries the most often ( the list is available in the Chemotechnique handbooks or on the website), always together with selected individual haptens depending on the history and patients own materials when these were available either under closed , semi open or open patch tests. We used the Trolab steroid series when the history suggested steroid allergy.

We use IQ chamber, not Finn chambers.