

Table S6: Patch and photopatch test result at 48 and 96 hours in patients with suspected hair dye dermatitis due to hair dye:

| Vegetable hair dye | | | | | | | |
|---------------------------|----------------------|-------------------|--|--|--|--|---|
| S. No. | Cosmetic used | Brand | Patch and Photopatch test | | | Diagnosis | Relevance |
| | | | At 48 hrs | At 96 hrs (NIR) | At 96 hrs (IR) | | |
| 1. | Hair dye | Neha Mehandi | Epoxy resin (2+) | Epoxy resin (2+) | Epoxy resin (2+) | ACD to Epoxy resin | Probable |
| 2. | Hair dye | Khaadi hair color | Cetrimide (1+) | Cetrimide (1+) | Cetrimide (1+) | ACD to Cetrimide | Possible |
| Permanent hair dye | | | | | | | |
| S. No. | Cosmetic used | Brand | Patch and Photopatch test | | | Diagnosis | Relevance |
| | | | At 48 hrs | At 96 hrs (NIR) | At 96 hrs (IR) | | |
| 1. | Hair dye | Godrej hair dye | - | Thiomersal (1+) | Thiomersal (2+) | ACD to Thiomersal with photoexacerbation | Possible |
| 2. | Hair dye | Garnier hair dye | PPD(1+) | PPD (1+) | PPD (2+) | ACD to PPD with photoexacerbation | Definite |
| 3. | Hair dye | Garnier hair dye | Thiomersal (1+) (Balsam of peru) BOP (1+) Colophony (1+) FM (1+) | Thiomersal (3+) BOP (2+) Colophony (2+) FM (2+) MBT (1+) | Thiomersal (3+) BOP (2+) Colophony (2+) FM (2+) MBT (1+) | ACD to Thiomersal BOP Colophony FM MBT | Definite with FM, Possible with Thiomersal, Colophony, BOP, MBT |
| 4. | Hair dye | Godrej hair dye | PPD (2+) Thiomersal (2+) | PPD (2+) Thiomersal (2+) | PPD (2+) Thiomersal (2+) | ACD to PPD & Thiomersal | Definite with PPD, Possible with Thiomersal |
| 5. | Hair dye | Godrej hair dye | PPD (1+) | PPD (2+) | PPD (2+) | ACD to PPD | Definite with PPD |
| 6. | Hair dye | Garnier hair dye | PPD (1+) | PPD (1+) | PPD (1+) | ACD to PPD | Definite with PPD |

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| 7. | Hair dye | Kesh kala | | | Thiomersal (1+) | PACD to Thiomersal | Possible with Thiomersal |
| 8. | Hair dye | Godrej hair dye | - | - | Hexamine (1+) Chlorhexidine (1+) Kathon CG (1+), Nickel (1+) | PACD to Hexamine Chlorhexidine Kathon CG Nickel | Probable with Kathon CG and Nickel, Possible with Chlorhexidine and Hexamine |
| 9. | Hair dye | Godrej hair dye | PPD (1+) Musk mix (1+) Sorbitan sesquilate (1+) | PPD (2+) Musk mix (1+) Sorbitan sesquilate (2+) Triclosan (2+) | PPD (2+) Musk mix (1+) Sorbitan sesquilate (2+) Triclosan (2+) | ACD to PPD Musk mix Sorbitan sesquilate & Triclosan(2+) | Definite with PPD, possible with Musk mix Sorbitan sesquilate & Triclosan |
| 10. | Hair dye | Garnier hair dye | PPD (2+) | PPD (2+) | PPD (2+) | ACD to PPD | Definite |
| 11. | Hair dye | Godrej hair dye | PPD (1+) | PPD (1+) | PPD (1+) | ACD to PPD | Definite |
| 12. | Hair dye | Garnier hair dye | PPD (1+) | PPD (1+) | PPD (1+) | ACD to PPD | Definite |
| 13. | Hair dye | Garnier hair dye | PPD (1+) | PPD (1+) | PPD (1+) | ACD to PPD | Definite |
| Mixed pattern of hair dye usage (Permanent/ Vegetable hair dye) | | | | | | | |
| 1. | Hair dye | Neha mehendi / Godrej hair dye | PPD (2+) | PPD (2+) | PPD (2+) | ACD to PPD | Definite |
| 2. | Hair dye | Khadi mehendi /Godrej/ Garnier hair dye | Black rubber mix (1+) | PPD(1+) Black rubber mix (1+) | PPD(1+) Black rubber mix (1+) Propylene glycol (1+) | ACD to PPD Black rubber mix & Photoallergic CD (PACD) to Propylene glycol | Definite with PPD, possible with Black rubber mix and propylene glycol |
| 3. | Hair dye | Nupur Mehendi / Godrej hair dye | Epoxy resin (2+) PPD (2+) | Epoxy resin (2+) PPD (2+) | Epoxy resin (2+) PPD (2+) | ACD to Epoxy resin & PPD | Definite to PPD, Probable to epoxy resin |

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| 4. | Hair dye | Neha mehandi /Garnier hair dye | PPD (1+) | PPD (1+) | PPD (1+) | ACD to PPD | Definite |
| 5. | Hair dye | Neha Mehandi / Godrej hair dye | PPD (2+) | PPD (2+) | PPD (2+) | ACD to PPD | Definite |