**Exploring Noninvasive Matrices for Assessing Long-term Exposure to Phthalates: A Scoping Review**

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**Table S1. PECOS criteria used in the present review**

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| **Parameter** | **Description** |
| **Population** | Inclusion: human |
| Exclusion: animals, soil, air, water or other non-human participants |
| **Exposure** | Inclusion: all phthalates or phthalate metabolites exposure |
| Exclusion: not phthalate or its metabolite exposure |
| **Comparison** | Inclusion: concentrations of phthalates or their phthalate metabolites in blood or urine |
| Exclusion: other controls |
| **Outcome** | Inclusion: concentrations of phthalates or their phthalate metabolites in nail or hair  |
| Exclusion: no concentrations of phthalates and their metabolites in nails or hair |
| **Study design** | Inclusion: all observational studies, including cohort study, case–control study, cross-sectional survey, matched pair design |
| Exclusion: review, systematic review, meta-analysis, comment, meeting report, letter, etc. |