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| **Domain:** | Environmental Exposures |
| **Measure:** | Plastic Exposures at Work and Home |
| **Definition:** | Questions about recent renovations and the type of flooring and walls in the person's work environment and residence. |
| **Purpose:** | Plasticized materials are often found in many building materials, such as walls, flooring, tabletops, and furniture. Plasticized materials emit chemicals (phthalates) that may cause allergic reactions, respiratory problems, and may be associated with other adverse health outcomes. |
| **Essential PhenX Measures:** | Current Address |
| **Related PhenX Measures:** |  |
| **Collections:** |  |
| **Keywords:** | Environmental exposures in the home, plastic exposures, endocrine disruptors, indoor air quality, home renovations, phthalates, building materials, plasticized materials, Environmental Exposures |

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| **Protocol Release Date:** | February 26, 2010 |
| **PhenX Protocol Name:** | Plastic Exposures at Work and Home |
| **Protocol Name from Source:** | The Expert Review Panel has not reviewed this measure yet. |
| **Description:** | The respondent answers questions about the interior surfaces in his/her residence and workplace. |
| **Specific Instructions:** | With regard to question 6B, it would be valuable to know if new vinyl floors had been installed in the residence. Respondents are not likely to know if there is plastic in their walls (Question 10). Vinyl covered wall panels are common and many wallpapers are vinyl. |
| **Protocol:** | **WORK ENVIRONMENT**  1. Has there been renovation or repairs in your workspace because of moisture damage?  [ ] 1 no  [ ] 2 yes, during the past 12 months  [ ] 3 yes, 1-3 years ago  [ ] 4 yes, more than 3 years ago  [ ] 5 I don't know  2. What is the floor material in your workspace?  [ ] 1 concrete  [ ] 2 wood  [ ] 3 cork  [ ] 4 vinyl  [ ] 5 wall-to-wall carpet  [ ] 6 other, what? \_\_\_\_\_\_\_\_\_\_\_\_\_  [ ] 7 I don't know  3. Is the wall material of your work space textile (cloth, jute, etc.)  [ ] 1 no  [ ] 2 yes, less than half of the wall surfaces  [ ] 3 yes, at least half of the wall surfaces  4. Is the wall material of your work space plastic?  [ ] 1 no  [ ] 2 yes, less than half of the wall surfaces  [ ] 3 yes, at least half of the wall surfaces  **HOME ENVIRONMENT**  5. Has there been renovation or repairs in your home due to moisture damage?  [ ] 1 no  [ ] 2 yes, during the past 12 months  [ ] 3 yes, 1-3 years ago  [ ] 4 yes, more than 3 years ago  6. Has there been renovation in your home during the past 12 months?  [ ] 1 yes  [ ] 2 no  If you answered yes, answer also 6B, otherwise go straight to 7.  6B. Which of the following repairs was done in your home during the past 12 months? (You may circle more than one alternative):  [ ] 1 Painting, less than half of the wall area  [ ] 2 Painting, at least half of the wall area  [ ] 3 Wall-papering, less than half of the wall area  [ ] 4 Wall-papering, at least half of the wall area  [ ] 5 Lacquering of the floor  [ ] 6 Use of floor putty  [ ] 7 Other, what? \_\_\_\_\_\_\_\_\_\_\_\_\_\_  7. Do you have wall-to-wall carpeting in your home?  [ ] 1 no  [ ] 2 yes, less than half of the floor area  [ ] 3 yes, at least half of the floor area  8. Is the floor material in your home plastic/vinyl? (excluding the bathroom)  [ ] 1 no  [ ] 2 yes, less than half of the floor area  [ ] 3 yes, at least half of the floor area  9. Is the wall material in your home textile (cloth, jute, etc.)?  [ ] 1 no  [ ] 2 yes, less than half of the wall surface area  [ ] 3 yes, at least half of the wall surface area  10. Is the wall material in your home plastic? (excluding the bathroom)  [ ] 1 no  [ ] 2 yes, less than half of the wall surface area  [ ] 3 yes, at least half of the wall surface area  Obtained with permission from M.S. Jaakkola & J.J.K. Jaakkola. The original questionnaire was only available in Finnish and was translated to English by Dr. Jaakkola. |
| **Selection Rationale:** | A low burden method to assess human exposure to plasticized materials. |
| **Source:** | Finnish Institute of Occupational Health, The University of Helsinki, Department of Public Health. The Finnish Environment and Asthma Study. 1997-2000. Question numbers T22, T23, T24, T25, K15, K16, K16B, K20, K21, K22, K23 (questions 1 through 10).   Jaakkola, J.,J., leromnimon A., Jaakkola, M.S. Interior Surface Materials and Asthma in Adults: A Population-based Incident Case-Control Study. Am J of Epidemiology, 2006; 164: 742-749. |
| **Life Stage:** | Adult |
| **Language of source:** | Finnish, English |
| **Participant:** | Age 18+ |
| **Personnel and Training Required:** | None |
| **Equipment Needs:** | None |
| **Standards:** | |  |  |  |  | | --- | --- | --- | --- | | **Standard** | **Name** | **ID** | **Source** | | Common Data Element (CDE) | Person Plastic Exposure Text | 3005240 | [CDE Browser](https://cdebrowser.nci.nih.gov/CDEBrowser/search?elementDetails=9&FirstTimer=0&PageId=ElementDetailsGroup&publicId=3005240&version=1.0) | | Logical Observation Identifiers Names and Codes (LOINC) | Environ expo plastic work home proto | 62540-0 | [LOINC](http://s.details.loinc.org/LOINC/62540-0.html?sections=Web) | |
| **General references:** | Jaakkola, JJ; Oie, L; Nafstad, P; Botten, G; Samuelsen, SO; Magnus, P. (1999). Interior surface materials in the home and the development of bronchial obstruction in young children in Oslo, Norway. Am J Public Health. 89:188-192. |
| **Mode of Administration:** | Self-administered questionnaire |
| **Derived Variables:** | None |
| **Requirements:** | |  |  | | --- | --- | | **Requirement Category** | **Required** | | Major equipment | No | | Specialized training | No | | Licensing fee or cost to obtain and/or use measure | No | | Specialized requirements for biospecimen collection | No | |
| **Process and Review:** | The Expert Review Panel has not reviewed this measure yet. |