Additional file 2- Variables included in the factor analyses

| Knowledge | Attitude | Practice |
|--|---|--|
| Recommendation Influenza- | Health consciousness | Any vaccination during previous |
| vaccination-time interval if asked | | five years |
| Activator for Influenza-vaccination | Perceived importance of Diphteria- vaccination | Tetanus-vaccination during previous five years |
| Recommendations by STIKO | Perceived importance of Pertussis-vaccination | Diphteria-vaccination during previous five years |
| Recommendation Pertussis- | Perceived importance of Polio-vaccination | Pneumococcal-vaccination during |
| vaccination if asked | · · | previous five years |
| Recommendation Influenza- | Perceived importance of Hepatitis B- | Pertussis-vaccination during |
| vaccination if asked | vaccination | previous five years |
| Recommendation Pneumococcal- | Perceived importance of Measles-vaccination | Polio-vaccination during |
| vaccination if asked | | previous five years |
| Recommendation Amarillic typhus- vaccination, spontaneous | Perceived importance of Mumps-vaccination | Hepatitis B-vaccination during previous five years |
| Recommendation Diphteria- | Perceived importance of Rubella-vaccination | Measles-vaccination during |
| vaccination, spontaneous | | previous five years |
| Recommendation Hepatitis-A/B- | Perceived importance of Varicella-vaccination | Mumps-vaccination during |
| vaccination, spontaneous | | previous five years |
| Recommendation Influenza- | Perceived importance of Meningococci- | Rubella-vaccination during |
| vaccination, spontaneous | vaccination | previous five years |
| Recommendation Pertussis- | Perceived importance of Influenza-vaccination | Varicella-vaccination during |
| vaccination, spontaneous | Developed in a restaurage of Decourses | previous five years |
| Recommendation Pneumococcal- vaccinations, spontaneous | Perceived importance of Pneumococcal-vaccination | Meningococcal-vaccination during previous five years |
| Recommendation Tetanus- | Vaccination due to physician | Influenza-vaccination during |
| vaccination, spontaneous | recommendation | previous five years |
| Recommendation Influenza- vaccination-time interval | Vaccination due to recommendation byHealth insurance company | Influenza-vaccination ever |
| Recommended Diphteria-vaccination time interval | Vaccination due to family member recommendation | Influenza-vaccination annually |
| Recommended Tetanus-vaccination time interval | Vaccination due to friends recommendation | intention to receive influenza- vaccination |
| Perceived information level | Vaccination due to recommendationby others | Visited website |
| Awareness of official influenza- campaign by BZgA/RKI | Vaccination due to media information | How many times visited website |
| Awareness of brochure by BZgA/RKI | Vaccination to protect others | Possession vaccination record |
| Awareness of official measles- campaign by BZgA | Vaccination due to occupational exposure | Knowing where vaccination record is |
| 54pa.627 526. | Vaccination due to travel | Vaccination consultation |
| | Barrier to influenza vaccine uptake: disease | Vaccination consultation by |
| | perceived as harmless | Physician |
| | Barrier to influenza vaccine uptake: fear of side effects | Vaccination consultation by Pharmacist |
| | Barrier to influenza vaccine uptake: fear of needles | Vaccination consultation by physician's assistant |
| | Barrier to influenza vaccine uptake: forgot | Vaccination consultation by |
| | appointment | Travel medicine clinic |
| | Barrier to influenza vaccine uptake: belief that | Vaccination consultation by |
| | vaccine offers no protection | Health office |
| | Barrier to influenza vaccine uptake: | Vaccination consultation by |
| | contraindication | Health insurance company |
| | Barrier to influenza vaccine uptake: discouraged by physician opinion | Refused vaccination |
| | Barrier to influenza vaccine uptake: received | |
| | no information | |
| | Barrier to influenza vaccine uptake: does not | |
| | belong to target group | |
| | Preference of activator influenza vaccine | |

| | Trust in official recommendations | |
|---|---|----------|
| | Barrier to vaccine uptake: disease perceived | |
| | as harmless | |
| | Barrier to vaccine uptake: fear of side effects | |
| | Barrier to vaccine uptake: fear of needles | |
| | Barrier to vaccine uptake: forgot appointment | |
| | Barrier to vaccine uptake: belief that vaccine | |
| | offers no protection | |
| | Barrier to vaccine uptake: discouraged by | |
| | physician opinion | |
| | Barrier to vaccine uptake: discouraged by | |
| | family/friends opinion | |
| | Barrier to vaccine uptake: critical reports in | |
| | media | |
| | Barrier to vaccine uptake: too much effort | |
| | Barrier to vaccine uptake: general objection | |
| | Interest in further information | |
| | Interest in further information about side | |
| | effects | |
| | Interest in further information about mode of | |
| | functioning | |
| | Interest in further information about period of | |
| | effect | |
| | Interest in further information about | |
| | recommendations | |
| | Interest in further information about new | |
| | developments | |
| | Interest in further information about | |
| | assumption of costs | |
| | Internet appropriate | |
| | Physician appropriate | |
| | Physician's assistant appropriate | |
| | Brochure appropriate | |
| | Newspaper/magazine appropriate | |
| | TV appropriate | |
| | Informations in schools appropriate | |
| | Friends appropriate | |
| | Family appropriate | |
| | Federal and national state authorities | |
| | appropriate | |
| | Pharmaceutical enterprises appropriate | |
| | Health office appropriate | |
| | Health insurance company appropriate | |
| | Social networks appropriate | |
| - | Attitude towards vaccinations | |
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