

README METADATA FILE FACILITATING THE COMPREHENSIVE REUSE OF THE DIGITAL FILES TITLED:  
The role of health beliefs in HPV vaccine uptake among young men who were eligible for the free vaccine provided during the Dutch catch-up campaign in 2023.

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# 1 METADATA DESCRIBING THE DIGITAL FILES #  
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■ Study PID : <https://doi.org/10.25397/eur.25683942>

- Title  
The role of health beliefs in HPV vaccine uptake among young men who were eligible for the free vaccine provided during the Dutch catch-up campaign in 2023
- Universe : A total of 155 men between 19 and 26 years old living in the Netherlands
- Material Type : Digital Files
- Data Type : Survey Data
- Identifier : 10.25397/eur.25683942
- Spatial Coverage : The Netherlands
- Temporal Coverage : 2023
- Subject : Human Papillomavirus Vaccine (HPV)
- Analysis Unit : Man between 19 and 26 years old living in the Netherlands
- Cite  
Hilverda, Femke; Siebers, Linda; Vollmann, Manja (2024). The role of health beliefs in HPV vaccine uptake among young men during the Dutch catch-up campaign in 2023. Erasmus University Rotterdam (EUR). Dataset. <https://doi.org/10.25397/eur.25683942>
- Background  
Human papillomavirus (HPV) infection is associated with the development of various cancers. An effective way to prevent HPV-related cancer is vaccination. In 2023, the Dutch government started a vaccination catch-up campaign in which, particularly, young men between the ages of 19 and 26 were invited to receive the HPV vaccine free of charge. This study aimed at estimating the relevance of the determinants proposed by the Health Belief Model (HBM) regarding HPV vaccine uptake among young men.
- Method  
A cross-sectional survey was completed by 155 Dutch young men aged 19–26 years. The HBM determinants perceived susceptibility, perceived severity, perceived benefits, and perceived barriers were measured along with HPV vaccine uptake as outcome. The relevance of the HBM determinants for HPV vaccine uptake was determined by confidence interval-based estimation of relevance (CIBER).
- Results  
In total, 54 participants got vaccinated since the start of the campaign. Perceived benefits and barriers were strongly related to vaccine uptake, while most young men perceived many benefits and little barriers. Perceived severity showed a moderate association with vaccine uptake, while most young men perceived the consequences of HPV infections as moderately severe. Perceived susceptibility was not significantly related to vaccine uptake.
- Conclusion  
Public health interventions should focus on increasing the perceived severity, while simultaneously reinforcing beliefs about many benefits and few barriers.

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# 2. METADATA DESCRIBING THE INCLUDED DIGITAL OBJECTS #  
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■ Included Items

- The download of the research package includes 5 Files:
- 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
  - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
  - 3. HPV\_vaccination\_codebook.pdf
  - 4. README.txt
  - 5. README.pdf

■ Primary Digital Object : 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav

- Data Type : Structured Data
- Encoding Format : SAV
- Language : English
- File Size : 12 KB
- Number of Tables : 1
- Table Label (1)
  - Variable Count : 22
  - Observation Count : 155
- Condition Of Access : Open Access
- License : <https://creativecommons.org/licenses/by/4.0/>
- Folder : Health-beliefs-in-free-HPV-vaccine-uptake-among-eligible-Dutch-young-men
- Description  
The dataset contains data of 155 Dutch young men aged 19–26 years who completed a survey measuring the HBM-determinants perceived susceptibility, perceived severity, perceived benefits, and perceived barriers along with HPV vaccine uptake as outcome.

■ Digital Object : 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat

- Data Type : Structured Data
- Encoding Format : DAT
- Language : English
- File Size : 11 KB
- Table Label (1)
  - Variable Count : 22
  - Observation Count : 155
- Condition Of Access : Open Access
- License : <https://creativecommons.org/licenses/by/4.0/>

- Folder : Health-beliefs-in-free-HPV-vaccine-uptake-among-eligible-Dutch-young-men
- Description  
The dataset contains data of 155 Dutch young men aged 19–26 years who completed a survey measuring the HBM-determinants perceived susceptibility, perceived severity, perceived benefits, and perceived barriers along with HPV vaccine uptake as outcome.
- Comment  
This dataset is the same as "1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav", but it is encoded as DAT instead of SAV to provide an alternative encoding and ensure long-term preservation. As not all information about the variables are in this file, a codebook is also added to the research package.

■ Digital Object : 3. HPV\_vaccination\_codebook.pdf

- Data Type : Semi-Structured Data, Codebook
- Encoding Format : PDF
- Language : English
- File Size : 10 KB
- Condition Of Access : Open Access
- License : <https://creativecommons.org/licenses/by/4.0/>
- Folder : Health-beliefs-in-free-HPV-vaccine-uptake-among-eligible-Dutch-young-men
- Description  
The codebook entails information about the variables in the dataset: variable name, variable label, measurement level, variable values plus value labels.

■ Digital Object : 4. README.txt

- Data Type : Metadata
- Encoding Format : TXT
- Language : English
- File Size : 19.8 KB
- Condition Of Access : Open Access
- License : <https://creativecommons.org/licenses/by/4.0/>
- Folder : Health-beliefs-in-free-HPV-vaccine-uptake-among-eligible-Dutch-young-men
- Description  
Text document containing metadata pertaining to the study, the data and participants' data privacy.

■ Digital Object : 5. README.pdf

- Data Type : Metadata
- Encoding Format : PDF
- Language : English
- File Size : 31.9 KB
- Condition Of Access : Open Access
- License : <https://creativecommons.org/licenses/by/4.0/>
- Folder : Health-beliefs-in-free-HPV-vaccine-uptake-among-eligible-Dutch-young-men
- Description  
PDF version of the text document providing metadata regarding the study, the data and participants' data privacy.

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# 4. METADATA DESCRIBING THE DATASET'S VARIABLES                                     #
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■ consent

- Count : 001
- Related inquiry : informed consent
- Range : Numeric
- Unit Of Measure : Nominal
- Value Space : 1.0 : yes
- File Name
  - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
  - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
- Used in Table : HPV vaccination 155 young men

■ age

- Count : 002
- Related inquiry : age
- Range : Numeric
- Unit Of Measure : Scale
- File Name
  - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
  - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
- Used in Table : HPV vaccination 155 young men

■ gender

- Count : 003
- Related inquiry : gender
- Range : Numeric
- Unit Of Measure : Nominal
- Value Space
  - 1.0 : male
  - 2.0 : female
  - 3.0 : other
- File Name
  - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
  - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
- Used in Table : HPV vaccination 155 young men

■ education

- Count : 004
- Related inquiry : highest education
- Range : Numeric
- Unit Of Measure : Ordinal
- Value Space

- 1.0 : none
- 2.0 : primary education
- 3.0 : lower secondary education
- 4.0 : medium secondary education
- 5.0 : higher secondary education
- 6.0 : short-cycle tertiary education
- 7.0 : bachelor's or equivalent
- 8.0 : master's or equivalent
- File Name
  - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
  - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
- Used in Table : HPV vaccination 155 young men

■ previous

- Count : 005
- Related inquiry : vaccinated before start of the campaign in 2023?
- Range : Numeric
- Unit Of Measure : Nominal
- Value Space
  - 1.0 : yes, fully vaccinated before the start of the campaign
  - 2.0 : yes, partly vaccinated before the start of the campaign
  - 3.0 : no
  - 4.0 : I don't know
- File Name
  - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
  - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
- Used in Table : HPV vaccination 155 young men

■ suscept1

- Count : 006
- Related inquiry  
I am very likely to become ill from an HPV infection if I do not get vaccinated
- Range : Numeric
- Unit Of Measure : Scale
- Value Space
  - 1.0 : strongly disagree
  - 7.0 : strongly agree
- File Name
  - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
  - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
- Used in Table : HPV vaccination 155 young men

■ suscept2

- Count : 007
- Related inquiry  
The likelihood of getting penile or anal cancer is high if I am not vaccinated against HPV
- Range : Numeric
- Unit Of Measure : Scale
- Value Space
  - 1.0 : strongly disagree
  - 7.0 : strongly agree
- File Name
  - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
  - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
- Used in Table : HPV vaccination 155 young men

■ sever1

- Count : 008
- Related inquiry : HPV infection can cause a serious disease that can disturb my social life
- Range : Numeric
- Unit Of Measure : Scale
- Value Space
  - 1.0 : strongly disagree
  - 7.0 : strongly agree
- File Name
  - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
  - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
- Used in Table : HPV vaccination 155 young men

■ sever2

- Count : 009
- Related inquiry : HPV infection can cause death
- Range : Numeric
- Unit Of Measure : Scale
- Value Space
  - 1.0 : strongly disagree
  - 7.0 : strongly agree
- File Name
  - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
  - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
- Used in Table : HPV vaccination 155 young men

■ sever3

- Count : 010
- Related inquiry : HPV infection would threaten my (future) romantic relationship
- Range : Numeric
- Unit Of Measure : Scale
- Value Space
  - 1.0 : strongly disagree
  - 7.0 : strongly agree
- File Name
  - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
  - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat

- Used in Table : HPV vaccination 155 young men
- benefit1
  - Count : 011
  - Related inquiry : HPV vaccine can prevent cancer (such as penis or anal cancer)
  - Range : Numeric
  - Unit Of Measure : Scale
  - Value Space
    - 1.0 : strongly disagree
    - 7.0 : strongly agree
  - File Name
    - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
    - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
  - Used in Table : HPV vaccination 155 young men
- benefit2
  - Count : 012
  - Related inquiry : HPV vaccine can prevent (cervical) cancer in (future) sexual partners
  - Range : Numeric
  - Unit Of Measure : Scale
  - Value Space
    - 1.0 : strongly disagree
    - 7.0 : strongly agree
  - File Name
    - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
    - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
  - Used in Table : HPV vaccination 155 young men
- benefit3
  - Count : 013
  - Related inquiry : I trust the safety and efficacy of the HPV vaccine
  - Range : Numeric
  - Unit Of Measure : Scale
  - Value Space
    - 1.0 : strongly disagree
    - 7.0 : strongly agree
  - File Name
    - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
    - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
  - Used in Table : HPV vaccination 155 young men
- barrier1
  - Count : 014
  - Related inquiry : I doubt the safety and efficacy of the HPV vaccine
  - Range : Numeric
  - Unit Of Measure : Scale
  - Value Space
    - 1.0 : strongly disagree
    - 7.0 : strongly agree
  - File Name
    - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
    - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
  - Used in Table : HPV vaccination 155 young men
- barrier2
  - Count : 015
  - Related inquiry : I have difficulty deciding if this is the right age for HPV vaccination
  - Range : Numeric
  - Unit Of Measure : Scale
  - Value Space
    - 1.0 : strongly disagree
    - 7.0 : strongly agree
  - File Name
    - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
    - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
  - Used in Table : HPV vaccination 155 young men
- barrier3
  - Count : 016
  - Related inquiry  
If I get vaccinated against HPV, others assume that I have unprotected sexual contact
  - Range : Numeric
  - Unit Of Measure : Scale
  - Value Space
    - 1.0 : strongly disagree
    - 7.0 : strongly agree
  - File Name
    - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
    - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
  - Used in Table : HPV vaccination 155 young men
- barrier4
  - Count : 017
  - Related inquiry : Possible side effects of HPV vaccination make me worry
  - Range : Numeric
  - Unit Of Measure : Scale
  - Value Space
    - 1.0 : strongly disagree
    - 7.0 : strongly agree
  - File Name
    - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
    - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
  - Used in Table : HPV vaccination 155 young men

- mean\_susc
  - Count : 018
  - Related inquiry : mean susceptibility (suscept1 suscept2)
  - Range : Numeric
  - Unit Of Measure : Scale
  - File Name
    - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
    - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
  - Used in Table : HPV vaccination 155 young men
- mean\_sever
  - Count : 019
  - Related inquiry : mean severity (sever1 sever2 sever3)
  - Range : Numeric
  - Unit Of Measure : Scale
  - File Name
    - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
    - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
  - Used in Table : HPV vaccination 155 young men
- mean\_bene
  - Count : 020
  - Related inquiry : mean benefits (benefit1 benefit2 benefit3)
  - Range : Numeric
  - Unit Of Measure : Scale
  - File Name
    - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
    - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
  - Used in Table : HPV vaccination 155 young men
- mean\_barr
  - Count : 021
  - Related inquiry : mean barriers (barrier1 barrier2 barrier3 barrier4)
  - Range : Numeric
  - Unit Of Measure : Scale
  - File Name
    - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
    - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
  - Used in Table : HPV vaccination 155 young men
- vaccuptake
  - Count : 022
  - Related inquiry : HPV vaccine uptake during the campaign
  - Range : Numeric
  - Unit Of Measure : Ordinal
  - Value Space
    - 0.0 : no
    - 1.0 : yes
  - File Name
    - 1. HPV\_vaccination\_dataset\_N=155\_young\_men.sav
    - 2. HPV\_vaccination\_dataset\_N=155\_young\_men.dat
  - Used in Table : HPV vaccination 155 young men

#####  
 # 3. METADATA DESCRIBING AUTHORS & ACTORS #  
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Is Member Of : <https://ror.org/057w15z03>

- Notation : EUR
  - Name : Erasmus University Rotterdam
  - Type : Organization
  - Identifier : 057w15z03
  - Home Page : <http://www.eur.nl/english/>
- None

■ Creator PID : NOT PROVIDED

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  - Given Name : Linda
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- None

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- Notation : EUR
  - Name : Erasmus University Rotterdam
  - Type : Organization
  - Identifier : 057w15z03
  - Home Page : <http://www.eur.nl/english/>
- None