

# Package ‘CrossVA’

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**Type** Package

**Title** Verbal Autopsy Data Transformation for InSilicoVA and InterVA5 Algorithms

**Version** 0.9.9

**Description** Enables transformation of Verbal Autopsy data collected with the WHO 2016 questionnaire (versions 1.4.1 & 1.5.1) or the WHO 2014 questionnaire for automated coding of Cause of Death using the InSilicoVA (data.type = ``WHO2016'') and InterVA5 algorithms. Previous versions of this package supported user-supplied mappings (via the map\_records function), but this functionality has been removed. This package is made available by WHO and the Bloomberg Data for Health Initiative.

**License** GPL-3

**Depends** R (>= 3.2.0)

**LazyData** TRUE

**RoxygenNote** 6.1.1

**Imports** stringi

**Encoding** UTF-8

**Suggests** knitr, rmarkdown, testthat, openVA

**VignetteBuilder** knitr

**NeedsCompilation** no

**Author** Peter Byass [aut],  
Eungang Choi [aut],  
Sam Clark [aut],  
Zehang Li [aut],  
Nicolas Maire [aut],  
Tyler McCormick [aut],  
Jason Thomas [aut, cre]

**Maintainer** Jason Thomas <jarathomas@gmail.com>

**Repository** CRAN

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odk2openVA	<i>Map VA records to InterVA5 &amp; InSilico (with option data.type = "WHO2016").</i>
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### Description

odk2openVA transforms data collected with the 2016 WHO VA instrument or the 2014 WHO VA instrument into a format that can be used with the InterVA5 and InSilicoVA algorithms for coding cause of death. It is a wrapper for functions that handle specific versions of the 2016 WHO VA instrument – namely, 1.4.1 and 1.5.1 – as well as the 2014 WHO VA instrument.

### Usage

```
odk2openVA(odk)
```

### Arguments

odk	A dataframe, obtained from reading an ODK Briefcase export of records collected with the WHO questionnaire.
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### Details

This is a wrapper function that tries to determine the type of WHO VA instrument used to collect the data. If the input (i.e., the odk export) includes a column containing the string "ID1A110" (or "id1a110"), then this function assumes the data were collected using the 2014 WHO VA instrument. If the input (i.e., the odk export) contains the string "age\_neonate\_hours" and does not contain the string "ID1A110" (or "id1a110"), then the function assumes the questionnaire version is 1.4.1 from the 2016 instrument. If neither condition is met, then the function assumes the data were collected with version 1.5.1 of the 2016 WHO VA instrument.

### Examples

```
## Example with 2016 WHO VA instrument version 1.5.1
record_f_name151 <- system.file("sample", "who151_odk_export.csv", package = "CrossVA")
records151 <- read.csv(record_f_name151, stringsAsFactors = FALSE)
output151 <- odk2openVA(records151)
```

```
## Example with 2016 WHO VA instrument version 1.4.1
record_f_name141 <- system.file("sample", "who141_odk_export.csv", package = "CrossVA")
records141 <- read.csv(record_f_name141, stringsAsFactors = FALSE)
```

```
output141 <- odk2openVA(records141)
```

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odk2openVA_2014	<i>Map VA records to InterVA5 and InSilico (with option data.type = "WHO2016").</i>
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### Description

odk2openVA\_2014 transforms data collected with the 2014 WHO VA instrument (form id: va\_who\_2014\_final10) to serve as the input to the InterVA5 and InSilicoVA algorithms for coding cause of death.

### Usage

```
odk2openVA_2014(odk)
```

### Arguments

odk	A dataframe, obtained from reading an ODK Briefcase export of records collected with the WHO questionnaire.
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### Examples

```
## Not run:
record_f_name <- system.file("sample", "who2014_odk_export.csv", package = "CrossVA")
records <- read.csv(record_f_name, stringsAsFactors = FALSE)
output <- odk2openVA_2014(records)

## End(Not run)
```

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odk2openVA_v141	<i>Map VA records (version 1.4.1) to InterVA5 and InSilico (with option data.type = "WHO2016").</i>
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### Description

odk2openVA transforms data collected with the 2016 WHO VA instrument (version 1.4.1) to serve as the input to the InterVA5 and InSilicoVA algorithms for coding cause of death.

### Usage

```
odk2openVA_v141(odk)
```

### Arguments

odk	A dataframe, obtained from reading an ODK Briefcase export of records collected with the WHO questionnaire.
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## Examples

```
## Not run:
record_f_name <- system.file("sample", "who141_odk_export.csv", package = "CrossVA")
records <- read.csv(record_f_name, stringsAsFactors = FALSE)
output <- odk2openVA_v141(records)

## End(Not run)
```

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odk2openVA_v151	<i>Map VA records (version 1.5.1) to InterVA5 &amp; InSilico (with option data.type = "WHO2016").</i>
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## Description

odk2openVA\_v151 transforms data collected with the 2016 WHO VA instrument (version 1.5.1) to serve as the input for the InterVA5 and InSilicoVA algorithms for coding cause of death.

## Usage

```
odk2openVA_v151(odk)
```

## Arguments

odk	A dataframe, obtained from reading an ODK Briefcase export of records collected with the WHO questionnaire.
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## Examples

```
## Not run:
record_f_name <- system.file("sample", "who151_odk_export.csv", package = "CrossVA")
records <- read.csv(record_f_name, stringsAsFactors = FALSE)
output <- odk2openVA_v151(records)

## End(Not run)
```

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