CODEBOOK

HONEST Aim 2

Patient Data

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Content

1. Overview

1.1 Information about the data

Type of data	Retrospective routine hospital data
Unit of analysis	Individual patients/cases
Time period	July 2023 – July 2024
Country	Switzerland
Geographic coverage	Whole of Switzerland
Ethics Committee	Not applicable according to article number 22 of the Swiss Federal Act on Data Protection (routine, de-identified data exempting from the scope of the Human Research Act)
Availability	The data was provided deidentified and anonymized by the Swiss Federal Office of Statistic (SFSO)
Other	• This codebook adds on the SFSO codebook of the raw data. Explanations on the variables are publicly available in the document "Medizinische Statistik der Krankenhäuser - Variablen der Medizinischen Statistik" over https://www.bfs.admin.ch/asset/de/12167417 • This codebook refers to the dataset of the year 2019, the data from 2018 and 2020 was handled in the same way • Information is provided only for variables used and modified • The usage and handling of the hospital data followed the procedure from Holzer (2023) (1) from the HONEST predecessor study. For that, please see the corresponding codebook from HONEST aim 1.
Variables	• Original variable = as set, named, and explained by the SFSO and their available documents • Adapted variable = renamed and modified SFSO original variable according to cleaning criteria • Newly created variables = based on adapted variables: grouped, combined, or based on computation

1.2 Research team

Principal Investigator	Dr. Jana Bartakova (jana.bartakova@unibas.ch)
Project leader, fellow	Dr. Jana Bartakova (jana.bartakova@unibas.ch)
Advisor	Prof. Dr. Michael Simon (m.simon@unibas.ch)
Research team member	Aleksandra Vasic (aleksandra.vasic@stud.unibas.ch)

1.3 Project

Title	The Effects of Wages on Patient Safety Outcomes
Akronym	HONEST
Financing	Received from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101029311
Status	Completed

2. Variables description

2.1 Hospital related variables

Original file name:

"DATA_BFS_MS_DRG_TYPO_2019CR/DATA_BFS_MS_DRG_TYPO_2019.DAT"

New file name: "New.Med.2019"

X_ID		
Position: 1		
Label: anonymized case number		
	Original variable	**Adapted variable**
Name	X_ID	X_ID
Varaible type	Integer	Integer
Missings	NA	NA
Answer options	Whole numbers from 26 – 31'460'788	Whole numbers from 53 – 31'460'788

Year		
Position: 2		
Label: year		
	Original variable	**Adapted variable**
Name	X_0_0_V01	Year
Variable type	integer	integer
Missings	NA	NA
Answer options	Whole numbers, answer option 2019 only	Whole numbers, answer option 2019 only

Hosp.Typo		
Position: 3		
Label: Hospital typology		
	Original variable	**Adapted variable**
Name	X_0_0_V02	Hosp.Typo
Variable type	Character	Character
Missings	NA	NA
Answer options	“K111”, “K112”, “K121”, “K122”, “K123”, “K211”, “K212”, K221”, “K231”, “K232”, “K233”, “K234”, “K235”	“K111”, “K112”, “K121”, “K122”

BUR.NR		
Position: 5		
Label: Annual hospital identification number		
	Original variable	**Adapted variable**
Name	X_0_1_V02a	BUR.NR
Variable type	Integer	Integer
Missings	NA	NA
Answer options	Whole numbers from 1 – 584	Whole numbers from 5 – 563

2.2 Patient related variables

Original file name:

"DATA_BFS_MS_DRG_TYPO_2019CR/DATA_BFS_MS_DRG_TYPO_2019.DAT"

New file name: "New.Med.2019"

LoS.DRG		
Position: 8		
Label: Length of stay in days		
	Original variable	**Adapted variable**
Name	X_0_0_V05_2	LoS.DRG
Variable type	Integer	Integer
Missings	NA	NA
Answer options	Whole numbers from 0 – 24'695	Whole numbers from 1 – 364

Gender		
Position: 19		
Label: Gender		
	Original variable	**Adapted variable**
Name	X_1_1_V01	Gender
Variable type	Integer	Integer
Missings	NA	NA
Answer options	1 (= male) 2 (= female)	1 (= male) 2 (= female)

Age.Gr.5yrs		
Position: 20		
Label: Age at admission, given in 5-year steps		
	Original variable	**Adapted variable**
Name	X_1_1_V01	Age.Gr.5yrs
Variable type	Character	Character
Missings	NA	NA
Answer options	“0-4”, “5-9”, “10-15”, “15-19”, “20-24”, “25-29”, “30-34”, “35-39”, “40-44”, “45-49”, “50-54”, “55-59”, “60-64”, “65-69”, “70-74”, “75-79”, “80-84”, “85-89”, “90-94”, “95+”	“20-24”, “25-29”, “30-34”, “35-39”, “40-44”, “45-49”, “50-54”, “55-59”, “60-64”, “65-69”, “70-74”, “75-79”, “80-84”, “85-89”, “90-94”, “95+”

ICU.stay		
Position: 27		
Label: Stay in intensive care units, in hours		
	Original variable	**Adapted variable**
Name	X_1_3_V03	ICU.stay
Variable type	Integer	Integer
Missings	NA	NA
Answer options	Whole numbers from 1 - 9999	Whole numbers from 1 – 6568

Decision.discharge		
Position: 31		
Label: Decision for discharge		
	Original variable	**Adapted variable**
Name	X_1_5_V02	Decision.discharge
Variable type	Integer	Integer
Missings	NA	NA
Answer options	Whole numbers: 1 – 5, 8, 9; 1 = initiative of healthcare/ practitioner 2 = patient initiative (against healthcare opinion) 3 = initiative of third party 4 = internal transfer 5 = deceased 8 = other 9 = unknown	Whole numbers: 1 – 5, 8, 9; 1 = initiative of healthcare/ practitioner 2 = patient initiative (against healthcare opinion) 3 = initiative of third party 4 = internal transfer 5 = deceased 8 = other 9 = unknown

TODESDATUM_30		
Position: 188		
Label: 30-day mortality follow-up data after discharge		
	Original variable	**Adapted variable**
Name	TODESDATUM_30	-
Variable type	integer	-
Missings	NA	-
Answer options	1	-

2.2.1 Further variables for creating the Swiss-weighted Elixhauser Comorbidity Index

main.diag		
Position: 37		
Label: Main diagnosis according to the "International Statistical Classification of Diseases and Related Health Problems" – 10th revision – German modification (ICD-10 GM) code		
	Original variable	**Adapted variable**
Name	X_4_2_V010	main.diag
Variable type	Character	Character
Missings	" "	" "
Answer options	A0000-Z9999	A0000-Z9999

X_4_2_V020		
Position: 38		
Label: Main diagnosis addition		
	Original variable	**Adapted variable**
Name	X_4_2_V020	-
Variable type	Character	-
Missings	" "	-
Answer options	A0000-Z9999	-

X_4_2_V030		
Position: 39		
Label: 1. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V030	-
Variable type	Character	-
Missings	" "	-
Answer options	A0000-Z9999	-

X_4_2_V040		
Position: 40		
Label: 2. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V040	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V050		
Position: 41		
Label: 3. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V050	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V060		
Position: 42		
Label: 4. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V060	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V070		
Position: 43		
Label: 5. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V070	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V080		
Position: 44		
Label: 6. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V080	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V090		
Position: 45		
Label: 7. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V090	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V100		
Position: 46		
Label: 8. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V100	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V110		
Position: 47		
Label: 9. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V110	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V120		
Position: 48		
Label: 10. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V120	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V130		
Position: 49		
Label: 11. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V130	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V140		
Position: 50		
Label: 12. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V140	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V150		
Position: 51		
Label: 13. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V150	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V160		
Position: 52		
Label: 14. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V160	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V170		
Position: 53		
Label: 15. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V170	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V180		
Position: 54		
Label: 16. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V180	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V190		
Position: 55		
Label: 17. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V190	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V200		
Position: 56		
Label: 18. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V200	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V210		
Position: 57		
Label: 19. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V210	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V220		
Position: 58		
Label: 20. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V220	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V230		
Position: 59		
Label: 21. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V230	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V240		
Position: 60		
Label: 22. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V240	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V250		
Position: 61		
Label: 23. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V250	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V260		
Position: 62		
Label: 24. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V260	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V270		
Position: 63		
Label: 25. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V270	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V280		
Position: 64		
Label: 26. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V280	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V290		
Position: 65		
Label: 27. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V290	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V300		
Position: 66		
Label: 28. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V300	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V310		
Position: 67		
Label: 29. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V310	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V320		
Position: 68		
Label: 30. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V320	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V330		
Position: 69		
Label: 31. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V330	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V340		
Position: 70		
Label: 32. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V340	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V350		
Position: 71		
Label: 33. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V350	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V360		
Position: 72		
Label: 34. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V360	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V370		
Position: 73		
Label: 35. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V370	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V380		
Position: 74		
Label: 36. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V380	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V390		
Position: 75		
Label: 37. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V390	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V400		
Position: 76		
Label: 38. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V400	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V410		
Position: 77		
Label: 39. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V410	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V420		
Position: 78		
Label: 40. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V420	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V430		
Position: 79		
Label: 41. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V430	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V440		
Position: 80		
Label: 42. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V440	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V450		
Position: 81		
Label: 43. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V450	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V460		
Position: 82		
Label: 44. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V460	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V470		
Position: 83		
Label: 45. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V470	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V480		
Position: 84		
Label: 46. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V480	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V490		
Position: 85		
Label: 47. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V490	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V500		
Position: 86		
Label: 48. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V500	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

X_4_2_V510		
Position: 87		
Label: 49. Subsidiary diagnosis		
	Original variable	**Adapted variable**
Name	X_4_2_V510	-
Variable type	Character	-
Missings	“ “	-
Answer options	A0000-Z9999	-

2.2.2 Newly created variables (1)

New file name: “New.M.E.Med.K1.Adult.2019.365”

Swiss_eci.19		
Position: 189		
Label: Swiss-weighted Elixhauser Comorbidity Index		
	Original variable	**Adapted variable**
Name	-	Swiss_eci.19
Variable type	-	Integer
Missings	-	NA
Answer options	-	-27 – 93

Swiss_eci.19.Gr		
Position: 189		
Label: Grouped Swiss-weighted Elixhauser Comorbidity Index		
	Original variable	**Adapted variable**
Name	Swiss_eci.19	Swiss_eci.19.Gr
Variable type	Integer	Character
Missings	NA	NA
Answer options	-27 – 93	“<0”, “0”, “1-5”, “>=5”

Mortality.di		
Position: 193		
Label: Dichotomous 30-day mortality		
	Original variables	**Adapted variable**
Name	Decision.dischrage, LoS.DRG, TODESDATUM_30	Mortality.di
Variable type	All integer	Character
Missings	NA	NA
Answer options	See corresponding variables	“alive”, “deceased”

2.2.3 Newly created variables (2)

New file name: “New.Sub1.2019.365”

Hosp.Level		
Position: 4		
Label: Hospital level		
	Original variable	**Adapted variable**
Name	Hosp.Typo	Hosp.Level
Variable type	Character	Character
Missings	NA	NA
Answer options	“K111”, “K112”, “K121”, “K122”	“Level 1”, “Level 2”, “Level 3”, “Level 4”

Sex		
Position: 9		
Label: Sex		
	Original variable	**Adapted variable**
Name	Gender	Sex
Variable type	Integer	Character
Missings	NA	NA
Answer options	1 (= male) 2 (= female)	“Female”, “Male”

Age.Gr.10yrs		
Position: 11		
Label: Age at admission, given in 10-year steps		
	Original variable	**Adapted variable**
Name	Age.Gr.5yrs	Age.Gr.10yrs
Variable type	Character	Character
Missings	NA	NA
Answer options	“20-24”, “25-29”, “30-34”, “35-39”, “40-44”, “45-49”, “50-54”, “55-59”, “60-64”, “65-69”, “70-74”, “75-79”, “80-84”, “85-89”, “90-94”, “95+”	“20-29”, “30-39”, “40-49”, “50-59”, “60-69”, “70-79”, “80-89”, “90+”,

Mort.numeric		
Position: 22		
Label: Dichotomous 30-day mortality, numeric version		
	Original variable	**Adapted variable**
Name	Mortality.di	Mort.numeric
Variable type	Character	Integer
Missings	NA	NA
Answer options	“alive”, “deceased”	0 (= alive) 1 (= deceased)

2.3 Hospital data

The usage and handling of the hospital data followed the procedure from Holzer (2023) (1) from the HONEST predecessor study. For that, please see the corresponding codebook from HONEST aim 1.

The following variables were modified for merging reasons and descriptive analyses:

New file name: “honest_DEF”

BUR.NR		
Position: 1		
Label: Annual hospital identification number		
	Original variable	**Adapted variable**
Name	BUR_ALEAT_T	BUR.NR
Variable type	Factor	Factor
Missings	NA	NA
Answer options	Whole numbers from 1 – 584, as factor	Whole numbers from 1 – 584, as factor

Hosp.Level2		
Position: 3		
Label: Hospital level with description		
	Original variable	**Adapted variable**
Name	typologie.f	Hosp.Level2
Variable type	Factor	Factor
Missings	NA	NA
Answer options	“University hospital”, “Cantonal hospital”, “Supply level 3 hospital”, “Supply level 4 hospital”, “Supply level 5 hospital”, “Special clinic”	“University hospital”, “Cantonal hospital”, “Supply level 3 hospital”, “Supply level 4 hospital”, “Supply level 5 hospital”, “Special clinic”

New file name: “New.Hosp.K1.2019”

wageFTE_nurses		
Position: 7		
Label: Nurse wages per FTE		
	Original variable	**Adapted variable**
Name	wageFTE_nurses	-
Variable type	Numeric	-
Missings	NA	-
Answer options	45’252 – 124’230	-

wageFTE_physicians		
Position: 8		
Label: Physician wages per FTE		
	Original variable	**Adapted variable**
Name	wageFTE_physicians	-
Variable type	Numeric	-
Missings	NA	-
Answer options	111’319 – 393’635	-

2.3.1 Newly created variables

New file name: "New.Hosp.K1.2019"

pct.female_nurse_100		
Position: 28		
Label: Percentage of female nurses * 100		
	Original variable	**Adapted variable**
Name	pct.female_nurse	pct.female_nurse_100
Variable type	Numeric	Numeric
Missings	NA	NA
Answer options	0.5752 – 0.9395	57.52 – 93.95

pct.female_physician_100		
Position: 29		
Label: Percentage of female physicians * 100		
	Original variable	**Adapted variable**
Name	pct.female_physician	pct.female_physician_100
Variable type	Numeric	Numeric
Missings	NA	NA
Answer options	0.1250 – 0.6752	12.50 – 67.52

pct.male_nurse_100		
Position: 30		
Label: Percentage of male nurses * 100		
	Original variable	**Adapted variable**
Name	pct.male_nurse	pct.male_nurse_100
Variable type	Numeric	Numeric
Missings	NA	NA
Answer options	0.06051 – 0.42484	6.051 – 42.484

pct.male_physician_100		
Position: 31		
Label: Percentage of male physicians * 100		
	Original variable	**Adapted variable**
Name	pct.male_physician	pct.male_physician_100
Variable type	Numeric	Numeric
Missings	NA	NA
Answer options	0.3248 – 0.8750	32.48 – 87.50

pct.chief_leading_100		
Position: 32		
Label: Percentage of chief and leading physicians * 100		
	Original variable	**Adapted variable**
Name	pct.chief_leading	pct.chief_leading_100
Variable type	Numeric	Numeric
Missings	NA	NA
Answer options	0.0000 – 0.4800	0.00 – 48.00

pct.attending_hospital_100		
Position: 33		
Label: Percentage of attending and hospital physicians * 100		
	Original variable	**Adapted variable**
Name	pct.attending_hospital	pct.attending_hospital_100
Variable type	Numeric	Numeric
Missings	NA	NA
Answer options	0.0000 – 1.0000	0.00 – 100.00

pct.residents_students_100		
Position: 34		
Label: Percentage of resident and student physicians * 100		
	Original variable	**Adapted variable**
Name	pct.residents_students	pct.residents_students_100
Variable type	Numeric	Numeric
Missings	NA	NA
Answer options	0.0000 – 1.0000	0.00 – 100.00

pct.RNs_etc_100		
Position: 35		
Label: Percentage of registered nurses and other * 100		
	Original variable	**Adapted variable**
Name	pct.RNs_etc	pct.RNs_etc_100
Variable type	Numeric	Numeric
Missings	NA	NA
Answer options	0.4106 – 0.8599	41.06 – 85.99

pct.LPNs_100		
Position: 36		
Label: Percentage of licensed practical nurses * 100		
	Original variable	**Adapted variable**
Name	pct.LPNs_100	pct.LPNs_100
Variable type	Numeric	Numeric
Missings	NA	NA
Answer options	0.00000 – 0.45652	0.000 – 45.652

pct.n_ass_100		
Position: 37		
Label: Percentage of nursing assistants * 100		
	Original variable	**Adapted variable**
Name	pct.n_ass	pct.n_ass_100
Variable type	Numeric	Numeric
Missings	NA	NA
Answer options	0.02381 – 0.31965	2.381– 31.965

2.4 Merged data

New file name: “New.Merged.2019”

w_n_FTE_10000		
Position: 50		
Label: Nurse wages per FTE divided by 10’000		
	Original variable	**Adapted variable**
Name	wageFTE_nurses	w_n_FTE_10000
Variable type	Numeric	Numeric
Missings	NA	NA
Answer options	45’252 – 124’230	4.525 – 12.423

w_p_FTE_10000		
Position: 51		
Label: Physician wages per FTE divided by 10’000		
	Original variable	**Adapted variable**
Name	wageFTE_physicians	w_p_FTE_10000
Variable type	Numeric	Numeric
Missings	NA	NA
Answer options	111’319 – 393’635	11.13 – 39.36

References

1. Holzer S. Nurses' and Physicians' Wage Drivers in Swiss Hospitals: A Retrospective Observational Time Series Cross Sectional Study. Basel, Switzerland; 2023.