

## SEPLINE: Socioeconomic Position in Epidemiological Research—A National Guideline on Danish Registry Data [Corrigendum]

Hjorth CF, Kjærulff TM, Thomsen MK, Cronin-Fenton D, Dalton SO, Olsen MH. *Clin Epidemiol.* 2025;17:593–624. <https://doi.org/10.2147/CLEP.S520772>

The authors have advised that [Table 3](#) and [Table 6](#) on pages 600 and 604, respectively, of the published paper contained incomplete information.

It has come to the author's attention that readers find it difficult to apply the use of formats for Highest Attained Educational Level as presented in [Table 3](#). Further descriptions have been added to the "Categorization Variable: HFAUDD formatted to DISCED" section with the Notes section updated. The updated [Table 3](#) is shown below.

Some DREAM codes indicating individuals awaiting a flex job (740, 743–748) were missed from [Table 6](#). In addition, several subcategories have been corrected or clarified.

The authors have further clarified details regarding two specific retirement schemes; Senior Pension (PSOC\_STATUS\_KODE=416, y\_YYWW=785) and Early Pension (PSOC\_STATUS\_KODE=417, y\_YYWW=786). These codes are granted individuals with long-term labor market attachment. Senior Pension requires that the applicant has permanent reduced work capacity corresponding to a maximum of 15 hours per week in the most recent job. As such, the former D2 in the IDA and DREAM columns are now merged with C3, Disability Pension. Early Pension is not dependent on work capacity and therefore still included in the D section. Notably, Statistics Denmark has clarified that both schemes are included in the disability code in SOCIO13 (321). As such, the main groups are not fully comparable across the data sources. The correct [Table 6](#) is shown below.

The authors apologize for these oversights.

**Table 3** Categorization of Educational Level Using Danish Registry Data

Category	Categorization Variable: HFAUDD Formatted to DISCED <sup>a</sup>	ISCED Levels <sup>b</sup>
Short education	DISCED 10: Primary and lower secondary school (Grade 0–9 compulsory, grade 10 optional)	ISCED 1: Primary education ISCED 2: Lower secondary education
	DISCED 15: Preparatory basic education and training	ISCED 3: Upper secondary education
Medium education	Middle school (not covered by DISCED) <sup>c</sup>	ISCED 4: Post-secondary non-tertiary education
	DISCED 20: General upper secondary education	
	DISCED 30: Vocational education and training	
	DISCED 35: Programs qualifying for admission to further education	
	(not classified in Denmark)	
Long education	DISCED 40: Academy profession programs <sup>d</sup>	ISCED 5: Short-cycle tertiary education (partly also classified as ISCED 6)
	DISCED 50: Professional bachelor's programs	ISCED 6: Bachelor's or equivalent level
	DISCED 60: Bachelor's programs	
	DISCED 70: Master's programs	ISCED 7: Master's or equivalent level
	DISCED 80: PhD	ISCED 8: Doctoral or equivalent level
No completed or missing education	DISCED 90: Unknown + Missing information on education + Values not else classified + Individuals born ≤ 1920 (if not excluded from the study population) + Imputed values (HF_KILDE = 9, 10, 18)	

**Notes:** <sup>a</sup>Convert HFAUDD to DISCED by using the latest available format (eg. '\$AUDD2023\_HOVED\_L1L2\_KT'). The formats are located at the desktop shortcut "DST – Formater" under "Uddannelser (DISCED - Hovedområder med historik)". The values provided in the table refer to the first two digits of DISCED. <sup>b</sup>ISCED level can be applied using the format '\$AUDD\_LEVEL\_L1L4\_KT', but as eg. 15 (Preparatory basic education and training) is classified as ISCED 3, this format is not recommended. <sup>c</sup>Depending on the study population and research aim, researchers may consider assigning individuals attaining middle school (In Danish "Realskole") a medium instead of short education (HFAUDD (not formatted) = 1021, 1022, 1023, 1121, 1122, 1123, 1423, 1522, 1523, 1721, 1722, 1723). The same applies to individuals attaining grade 8–10 (HFAUDD (not formatted) = 10201011, 10201012, 10301010) prior to 1972, but be aware of a large increase in this proportion for citizens born in 1950 and onwards. <sup>d</sup>To increase international comparability 40: academy profession programs' (coherent with ISCED 5: short cycle tertiary) are considered as "long education".

**Table 6** Categorization of labor market affiliation using Danish registry data

Category	1: AKM Variable: SOCIO13	2: IDA Variables: PSTILL / PSOC_STATUS_KODE	3: DREAM Variables: y_YYWW (both current and past codes)
A: Working	A1: Working (110–114, 120, 131–135, 139)	A1: Working (1–5, 11–37, 71–77 / 110–138, 611)	A1: Working (empty, 121 <sup>a</sup> –123, 996 <sup>d</sup> )
	A1.1: Self-employed (110–114, 120)	A1.1: Self-employed (11, 12, 13, 14, 19 / 110, 111, 112, 120, 121)	
	A1.2: Manager or high-level employee (131, 132)	A1.2: Manager or high-level employee (31–33 / 131–132)	
	A1.3: Employee (133–135, 139)	A1.3: Employee (20, 34–37 / 133–138)	
		A1.4 Leave from employment (1–5, 71–77/611)	
	A2: Student (310)	A2: Student (46, 91 / 511, 516, 517)	A2: Student (521, 651, 652, 661, 662, 794)

(Continued)

Table 6 (Continued).

Category	1: AKM Variable: SOCIO13	2: IDA Variables: PSTILL / PSOC_STATUS_KODE	3: DREAM Variables: y_YYWW (both current and past codes)
B: Temporarily unemployed	B1: Unemployed (210 <sup>b</sup> , 410)	B1: Unemployed (40 <sup>c</sup> , 57 / 200, 312)	B1: Unemployed (111–115, 124–126, 211–219, 221, 222, 224, 225, 231, 232, 297–299, 511, 522, 541, 759)
		B1.1: Part-time unemployed (Only assessable using PSTILL 57)	B1.1: Part-time unemployed (112, 113, 115, 126)
			B1.2: Full-time unemployed (111, 114, 124, 125)
			B1.3: Unemployment benefits during job training, supervision, etc. (211–219, 221, 222, 224, 225, 231, 232, 297–299, 511, 522, 541, 759)
C: Outside workforce	C1: Social security (330) <sup>d</sup>	C1: Social security (45–49, 51, 52, 55, 56, 90, 95–97, 98 / 300, 311, 313, 314, 318–322, 351, 361, 413, 512–515)	C1: Social security (130–149, 151–153, 160, 163–169, 700, 703–748, 750–758, 760–769, 771–774, 779, 791, 792, 796, 810, 813–819, 870, 873–878 + 785 if registered in 2015–2016 <sup>h</sup> )
		C1.1: Flex job (52, 56 / 314, 351, 361, 413)	C1.1: Flex job (740, 743–748, 761–762, 769, 771–774, 779, 796)
	C2: Leave (220)	C2: Leave (41–43 / 315–317, 612)	C2: Leave (795, 881 <sup>f</sup> , 412 <sup>f</sup> –414, 890–899)
		C2.1: Sick leave <sup>e</sup> (43 / 317, 612)	C2.1: Sick leave <sup>e</sup> (890–899)
	C3: Disability pension (321) <sup>g</sup>	C3: Disability pension (93 / 411, 416)	C3: Disability pension (781–783, 784, 793, 797 + 785 if registered in 2020 or later <sup>h</sup> )
	D: Retired <sup>g</sup>	D1: Retirement (322, 323)	D1: Retirement (50, 92, 94 / 412, 414, 415, 417)
D1.1 Post-employment pension (323)		D1.1: Post-employment pension (50 / 412, 417)	D1.1: Post-employment pension (611, 621, 622, 786)
D1.2: Age retirement pension (322)		D1.2: Age retirement pension (92, 94 / 414, 415)	D1.2: Age retirement pension (998)
Missing/ other	Unknown, missing, 0, 420= Children under age 15	Missing	996= Reaching retirement age 997= Not resident in Denmark 999= Death

**Notes:** <sup>a</sup>Vacation that can occur during unemployment. Check the status in the weeks preceding. <sup>b</sup>At least half of the year. <sup>c</sup>Full-time unemployment in week 48. <sup>d</sup>Includes flex job. <sup>e</sup>Long-term sick leave (short-term is not available from registries, see Attention points). <sup>f</sup>Parental leave. <sup>g</sup>Disability pension can be moved here, if relevant. <sup>h</sup>The meaning of code 785 changes over time, indicating “Job clarification” in 2015–2016, and “Senior retirement pension” from 2020 onwards. <sup>i</sup>Includes both senior and early pension, which are categorized in separate groups in the IDA and DREAM categorizations. <sup>j</sup>If registered 2008 and onwards, this code refers to reaching retirement age without receiving public age retirement, and can be considered as employed. We recommend to read the DREAM manual for updates.

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