# 厚生労働科学研究費補助金 (政策科学総合研究事業(統計情報総合研究事業)) 分担研究報告書 R6 年度

ICD-11 の適用を通じて我が国の死因・疾病統計の向上を目指すための研究 「我が国の長期的死因分析に適した死因分類提案に関する基礎研究」

#### 研究分担者 石井 太 (慶應義塾大学)

#### 研究要旨

我が国の死亡動向を人口学的に分析するに当たっては、長期的な死因別死亡に関する測定を行うことが必須である。このためには、長期連続的に観察可能な死因系列の構築が必要となるが、我が国の死因統計は ICD の改定に伴って連続性が保たれないことがあり、長期的死因分析に適した死因系列を作成することが求められる。

本研究は、このような問題に対して、我が国の長期的死因分析に適した死因分類の提案に向けた基礎的な研究を行うことを目的とし、死因分析に利用可能な死因分類の現状と長期死因系列の構築に関して行われた人口学的な先行研究に関するレビューについて、直近の状況を踏まえたアップデートを行うとともに、長期の死因変遷が観察可能でかつ死因年次推移分類で「その他」が多いという問題点を改善した short list としての死因分類を提案し、これに基づく年齢調整死亡率の長期推移を評価した。

研究の結果から、長期死因系列の構築に関して行われた人口学的な国際的プロジェクトである HCD が提案した新たな分類の intermediate list は旧 intermediate list から作成することができることから、JMD 死因分類自体をすぐに変更する必要性はないことが明らかとなった。また、新たに長期推移観察のために提案した分類に基づく年齢調整死亡率は、「その他」の割合が全期間でも 3%程度以下に留まるとともに、長期的な死因の変遷を観察することも可能であり、当該分類の妥当性を確認することができた。

### A. 研究目的

我が国の死亡動向を人口学的に分析するに当たっては、長期的な死因別死亡に関する測定を行うことが必須である。このためには、長期連続的に観察可能な死因系列の構築が必要となるが、我が国の死因統計はICDの改定に伴って連続性が保たれないことがあり、長期的死因分析に適した死因系列を作成することが求められる。

本研究は、このような問題に対して、我 が国の長期的死因分析に適した死因分類 の提案に向けた基礎的な研究を行うこと を目的とするものである。

## B. 研究方法

本研究は初年度に行った、死因分析に利用可能な死因分類の現状と長期死因系列の構築に関して行われた人口学的な先行研究

に関するレビューについて、直近の状況を踏まえたアップデートを行うとともに、長期の死因変遷が観察可能でかつ死因年次推移分類で「その他」が多いという問題点を改善した short list としての死因分類を提案し、これに基づく年齢調整死亡率の長期推移を評価する。

#### (倫理面への配慮)

本研究においては、公表されている統計 を用い分析を行った。

### C. 研究結果

初年度のレビューにおいて、長期死因系 列の構築に関して行われた人口学的な国際 的プロジェクトの一つとして 2016 年に開 始 さ れ た Human Cause-of Death Database(HCD)プロジェクトを挙げたが、 その後、HCD プロジェクトが HMD に統 合され、死因分類が変更となった。従来は、 16 分類からなる short list と、103 分類から なる intermediate list の2種類の分類が提 案されていたが、新しい分類では、short list は16分類で変更がないが、intermediate list は 56 分類となり、新たに 206 分類からな る long list という分類が提案された。新し い intermediate list を示したものが表 1 で あるが、これは基本的に旧 intermediate list をまとめたものとなっている。そこで、新 旧の対応表を作成したものが表 2 である。

また、現在、人口動態統計においては、 死因年次推移分類が長期の死因観察に用いられているが、これは主要な死因を観察することが目的であり、挙げられていない「その他」の割合が大きく、特に近年では年齢調整死亡率で全体の3割に近づいているという問題点がある。そこで、本研究では、死因簡単分類をまとめることによりICD-9、 10 の範囲で 18 分類となる新たな分類を提案し、さらに、これを遡って ICD6~8 にも適用できるような short list としての分類を作成した。この新たな分類が表 3 である。

この分類に基づいて、年齢調整死亡率を 計算して年次推移として示したものが図 1 であり、特に年齢調整死亡率が低い部分の みを示したものが図 2 である。

#### D. 考察

現在、日本版死亡データベース(JMD)では、死因簡単分類と HCD の旧 intermediate list のどちらの分類をも構成可能なレベルまで細分化した分類を作成し、これを JMD 死因分類(JMDC)として、年齢調整死亡率を提供している。今般、HCD の分類が変更となったが、表 2 において示した通り、新intermediate list は旧 intermediate list から作成することができるため、JMD 死因分類自体をすぐに変更する必要性はないと考えられる。ただし、現在、JMD で提供している HCD分類の年齢調整死亡率については、今後、新 intermediate list のものに修正していくことが適切であるといえよう。

一方、新たに長期推移観察のために提案した表3の分類に基づいて年齢調整死亡率を算定したところ、「その他」の分類の割合は全期間を通じて3%程度以下に留まることが明らかとなった。また、図1、2に見る通り、提案された分類に基づいて、長期的な死因の変遷を観察することが可能であることがわかり、当該分類の妥当性が確認できる。

### E. 結論

本研究では、我が国の長期連続的に観察 可能な死因系列の構築に用いるための死因 分類の提案に関する検討を行う観点から基 礎的な検討を行った。

長期死因系列の構築に関して行われた人 口学的な国際的プロジェクトである HCD が提案した新たな分類の intermediate list は旧 intermediate list から作成することが できることから、JMD 死因分類自体をすぐ に変更する必要性はないことが明らかとな った。また、新たに長期推移観察のために 提案した分類に基づく年齢調整死亡率は、 「その他」の割合が全期間を通じて 3%程 度以下に留まるとともに、長期的な死因の 変遷を観察することも可能であり、当該分 類の妥当性を確認することができたことか ら、今後、JMD において、この分類を JMDC に加えて JMD short list(JMDS)とし、この 分類に基づく年齢調整死亡率を長期観察の 観点から提供することが望ましいと考えら れる。

- G. 研究発表
- 1. 論文発表なし
- 2. 学会発表なし
- H. 知的財産権の出願・登録状況 (予定を含む。)
- 1. 特許取得なし
- 2. 実用新案登録なし
- 3.その他 なし

# 表 1 新 HCD 分類(intermediate)

Nο	Title	Category codes according to ICD10
	Intestinal infectious diseases	A00-A09
-	Tuberculosis	A15-A19, B90
-		
-	Septicaemia	A40-A41
-	Viral hepatitis	B15-B19
-	HIV disease	B20-B24
-	Other and unspecified infectious and parasitic diseases	A20-A39, A42-A99,B00-B09, B25-B89,B91-B99
	Malignant neoplasms of lip, oral cavity and pharynx	C00-C14
-	Malignant neoplasm of esophagus	C15
	Malignant neoplasm of stomach	C16
-	Malignant neoplasm of colon, rectum and anus	C18-C21
-	Malignant neoplasm of pancreas	C25
-	Other malignant neoplasm of digestive system	C17, C22-C24, C26
-	Malignant neoplasm of larynx, trachea, bronchus and lung	C32-C34
	Malignant neoplasm of skin	C43-C44
-	Malignant neoplasm of breast	C50
	Malignant neoplasm of uterus	C53-C55
-	Malignant neoplasm of ovary	C56
18	Malignant neoplasm of prostate	C61
-	Malignant neoplasm of other genital organs	C51-C52, C57-C60, C62, C63
-	Malignant neoplasm of bladder	C67
21	Malignant neoplasms of kidney and other urinary organ	C64-C66, C68
22	Leukemia	C91-C95
	Other cancer, including in situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behaviour	C30-C31,C37-C41,C45-C49, C69-C90,C96, D00-D48
24	Blood diseases	D50-D89
25	Diabetes mellitus	E10-E14
26	Other endocrinologic and metabolic diseases	E00-E07, E15-E88
27	Alcohol abuse	F10
28	Drug abuse	F11-F19
29	Other mental disorders	F01-F09, F20-F99
30	Other diseases of nervous system	G00-G25, G30-G44, G47-G98, H00-H93
31	Rheumatic heart diseases	100-109
32	Hypertensive disease	110-113
	Ischaemic heart diseases	120-125
-	Other heart diseases	126-151
	Cerebrovascular diseases	160-169, G45
-	Other circulatory diseases	170-199, K64
	Influenza	J09-J11
38	COVID-19	U07
39	Pneumonia	J12-J18
-	Other acute respiratory infections	J00-J06, J20-J22,U04
-	Other chronic obstructive pulmonary disease	J40-J47
	Other diseases of the respiratory system	J30-J39, J60-J98
	Gastric and duodenal ulcer	K25-K28
_	Liver diseases	K70-K76
_	Other digestive diseases	K00-K22, K29-K63, K65-K66, K80-K92
	Diseases of skin and subcutaneous tissue	L00-L98
47	Diseases of skir and subcutations tissue  Diseases of the musculoskeletal systeme and connective tissue	M00-M99
-	Diseases of genitourinary system	N00-N98
	Complications of pregnancy, childbirth and puerperium	000-099
-	Certain conditions originating in the perinatal period	P00-P96, R95
51	Congenital malformations, deformations, and chromosomal abnormalities	Q00-Q99
52	Transport accidents	V01-V99
-	Other accidents	W00-W99, X00-X59, Y40-Y89
-	Suicide and self-inflicted injury	X60-X84
	Assault	
		X85-Y09, Y35, Y36
-	Event of undetermined intent	Y10-Y34
5/	Senility	R54
58	Other ill-defined, unspecified and unknown causes of death	R00-R53, R55-R94, R96- R99
59	Other codes for special purposes	U00-U03, U05-U99

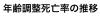
# 表 2 HCD 旧分類と新分類の対応表

No.	Title	<b>日分類</b>	朝分質
0	All causes	A00-198	
2	Other specified intestinal infections  Diarrhoea and gastroenteritis of presumed	A00-A08 A09	
_	Infectious origin TBC	A15-A19, B90	
1	Septicaemia	A40-A41	
5	Other bacterial diseases	A20-A28, A30-A39 A42- A44, A46, A48-A49	
7	HIV disease Viral hepatitis	B20-B24 B15-B19	-
В	Other viral diseases	A80-A89, B00-B09, B25- B34	
9	Other and unspecified infectious and parasitic diseases	ASO-A75, A77-A79, A90-A99, B35-B60, B64-B89, B91, B92, B94-B97, B99	
10	Malignant neoplasms of lip, oral cavity and	C00-C14	
11	pharynx Malignant neoplasm of esophagus	C15	
12	Malignant neoplasm of stomach	C16	
13 14	Malignant neoplasms of colon	C18 C19-C21	
14	Malignant neoplasm of rectum and anus Malignant neoplasms of liver and intrahepatic bile	C19-C21	
16	ducts Malignant neoplasm of pancreas	C25	
17	Other malignant neoplasm of digestive system	C17, C23-C24, C26	
18	Malignant neoplasm of larynx	C32	
19	Malignant neoplasms of trachea, bronchus and lung	C33-C34	
20	Malignant neoplasm of skin	C43, C44	
21	Malignant neoplasm of breast Malignant neoplasm of cervix uteri	C50 C53	-
23	Malignant neoplasms of uterus	C54-C55	
24	Malignant neoplasm of ovary	C56	
25 26	Malignant neoplasm of prostate  Malignant neoplasm of other genital organs	C61 C51, C52, C57, C58, C60,	-
		C62, C63	
27 28	Malignant neoplasm of bladder Malignant neoplasms of kidney and other urinary	C67 C64-C66, C68	1
29	Malignant neoplasms of meninges, brain and other	C70-C72	
30	parts of central nervous system Leukemia	C91-C95	-
31	Other malignant neoplasms of lymphoid,	C81-C90, C96	-
	hematopoietic and related tissue		
32	Malignant neoplasms of independent (primary) multiple sites	C97	
33	Other cancer	C30-C31,C37-C41, C45- C49, C69, C73-C80	
34	In situ neoplasms, benign neoplasms and neoplasms of uncertain or	D00-D48	
35	unknown behavior	E10-E14	
35 36	Diabetes mellitus Malnutrition	E10-E14 E40-E46	+:
37	Other endocrinologic and metabolic diseases	E00-E07, E15-E16, E20- E35, E50-E68, E70-E90	
38	Blood diseases	D50-D89	
39 40	Dementia, vascular, senile or unspecified  Alcohol abuse	F01, F03 F10	-
41	Drug abuse	F11-F19	
42	Other mental disorders	F04-F09, F20-F99	
43	Systemic atrophies and demyelinating diseases of the central nervous system	G10-G12, G35-G37	
44	Parkinson's disease and other extrapyramidal and movement	G20-G25	
45	disorders		
45	Alzheimer's disease and other degenerative diseases of the nervous	G30, G31	
46	system Epilepsy	G40-G41	1
47	Other diseases of nervous system	G00-G09, G43-G44, G47- G83, G90-G99, H00-H95	
48	Rheumatic heart diseases	100-109	
49 50	Essential hypertension Hypertensive disease (heart, kidney and	110  111- 115	-
51	secondary) Acute myocardial infarction	121-123	-
52	Other IHD	120, 124, 125	
53	Pulmonary heart diseases	126-128	
54 56	Non rheumatic valve disorders Cardiac arrest	134-138	
56	Heart failure	150	- 1
57	Other heart diseases	130-133, 140-145, 147-149, 151	
58	Intracranial haemorrhage	160-162	
59 60	Cerebral infarction, occlusion, and stenosis  Other cerebrovascular diseases	163, 165, 166 G45, 164, 167	
61 61	Sequelae of cerebrovascular disease	169	
62	Diseases of arteries, arterioles and capillaries	170-178	
63 64	Other circulatory diseases Influenza	180-199 109-111	
65	Pneumonia	109-111 112-118	
66			
	Other acute respiratory infections	J00-J06, J20-J22, U04	- 1
	Asthma	MS-M6	
68			- 1
68 69 70	Asthma Other chronic obstructive pulmonary disease Pneumonitis due to solids and liquids Pneumoconioses and chemical effects	M5-146 M0-144,147 I69 I60-168,170	4
68 69 70	Asthma Other chroeic obstructive pulmonary disease Pneumonitis due to solids and liquids Pneumonitis due to solids and liquids Pneumoconioses and chemical effects Other respiratory diseases, principally affecting	145-146 140-144,147 169	4
68 69 70 71	Asthma Other chronic obstructive pulmonary disease Presumonitis due to solids and liquids Presumoconi osces and chemical effects Other respiratory diseases, principally affecting the interstitum Other diseases of the respiratory system	345-346 340-344,347 349 360-368,170 380-384 330-339,385-198	4
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68 69 70 71 72 73	Asthma Other chronic obstructive pulmonary disease Presumonitis due to solids and liquids Presumoconi osces and chemical effects Other respiratory diseases, principally affecting the interstitum Other diseases of the respiratory system	345-346 340-344,347 349 360-368,170 380-384 330-339,385-198	
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68 69 70 71 72 73 74 75 76 77 78 79 80 81 82	Administration of the control of the	145-546 50-544, 147 50-56 50-564, 147 50-564	
68 69 70 71 72 73 74 75 76 77 77 80 81 82 83 84 85 86 87 88 89 90	Albama  Order chronic districtive pulmonary disease Preventeristic data to said and liquids Preventeristic data to said and liquids Preventeristic data to said and liquids Diver representative data and liquid data and liquids Record Control and Diversification of the record data and other intentional diseases Records controls and lighther intentional diseases Records controls and lighther intentional diseases Records controls and lighther intentional diseases Records controls and other intentional diseases Records controls and other disorders of bilary tracts. Stassass of planorses Observed of the musicionalestesis systems and Record diseases Diseases of share disorders diseases Record factors. Scanning and prepares Completions of pregnancy, colidaters, and properties controls one organization of the periorisal provided pregnancy, colidaters, and prepared according and pulsary colorisations of pregnancy, colidaters, and properties and providence (200).	145-346 149-149 149 149-149 14	
68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 90 90 91 92 93	Admina   Manna    Manna    Manna    Manna    Manna    Manna    Manna    Manna    Manna    Manna    Man	##5-986 ##5-0448_#77 ##5-0468_#70 ##5-0468_#70 ##5-0468_#70 ##5-0468_#70 ##5-0468_#70 ##5-0468_#70 ##5-0468_#70 ##5-0468_#70 ##5-0468_#70 ##5-0468_#70 ##5-0468 ##5-0	
68 69 70 71 72 73 74 75 76 77 78 79 80 81 83 88 88 88 88 89 90 91 92 93	Admina Control	145-346 149-149, 147 159 159 159 159 159 159 159 159 159 159	
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559 559 559 559 559 559 559 559 559 559	Administration of the control of the	##5-986 ##5-0448_#77 ##5-0448_#77 ##5-0448_#77 ##5-0448_#77 ##5-0448_#77 ##5-0448_#77 ##5-0448_#77 ##5-0448_#77 ##5-0448_#77 ##5-0448_#77 ##5-0448_#77 ##5-0448 ##5-0448_#77 ##5-0448 #	
588	Albama  Order chronic distructive pulmonary disease Presumentials due to said and legals Presumentials due to said and legals Presumentials due to said and legals Diver registratory diseases, principally affecting the interestiman Other diseases of the respiratory system General Control of the Control of the Interestinal Other diseases of the respiratory system General Control of the Interestinal diseases Richards diseases Diseases of the Interestinal diseases Richards diseases Diseases of Binard substituted diseases Richards diseases Ric	145-346 149-149 149-14	
58	Administration of the control of the	145-346 145-347 145-348 145-34	
588	Albama  Orac reforms of structure pathenously disease Prosumentals due to solid a net liquids Prosumentals and due to solid a net liquids Prosumentals and due to solid a net liquids Other reprinted placesars, proceptly affecting the international placesars of the respiratory system Gardine and deben reprinted placesars Record and deben referented diseases Record and deben	145-346 145-347 145-348 145-34	
58	Albama  Order (France distructive pulmonary disease) Prevenested due to solid and legals Prevenested and to solid and legals Prevenested and the solid and legals Differ representation of the solid and legals Differ representation of the solid and legals Differ representation of the rep	145-346 145-347 145-348 145-34	
588 58 58 58 58 58 58 58 58 58 58 58 58	Albama  Order chronic distructive pulmonary disease Preventerists due to suidia and liquido Differ representative diseases, princepully affecting the sterestistum Other diseases, princepully affecting the sterestistum Other diseases of their respiratory system Global Controls and Electronic and Stere Renota Global Controls and Electronic and Stere Renota Controls and Electronic and Stere Controls and Electronic and Stere Controls and Electronic and Stere Renota Stere Controls and Electronic and Electro	145-346 145-347 145-348 145-34	
588 888 888 888 888 888 888 888 888 888	Administrative palmonary disease.  Procurrentin districtive palmonary disease.  Procurrentin da to cridit and legists.  Procurrent da to cridit and legists.  Diver representative places are procured in decidence of the requirement of the requirement of the requirement of the representative places.  Books and data	145-346  569  569  560 568, 707  560 568, 707  560 568, 707  560 568, 707  560 568, 707  560 568, 707  560 568, 707  560 568, 707  560 568, 707  560 568, 707  560 568, 707  560 568, 707  560 568, 707  560 568, 707  560 568, 707  560 568, 707  560 568, 707  560 568, 707  560 568, 707  560 569, 70	
68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 90 90 91 92 93	Albama  Order chronic distructive pulmonary disease Preventerists due to suidia and liquido Differ representative diseases, princepully affecting the sterestistum Other diseases, princepully affecting the sterestistum Other diseases of their respiratory system Global Controls and Electronic and Stere Renota Global Controls and Electronic and Stere Renota Controls and Electronic and Stere Controls and Electronic and Stere Controls and Electronic and Stere Renota Stere Controls and Electronic and Electro	145-346 145-347 145-348 145-34	

# 表 3

分類番号	死因	ICD-6 code(s)	ICD-7 code(s)	ICD-8 code(s)	ICD-9 code(s)	ICD-10 code(s)	ICD-10(2013) code(s)
1		020-021, 023-138, 480-483, 571, 696,	020-021, 023-138, 480-483, 571, 696,	000-009, 020-134, 136, 470-474	001-009, 019-139 (excl. 135 and	A00-A14, A20-B99, J10-J11	A00-A14, A20-B99, J09-J11
		697, 764, 767, 768, 785B	697, 764, 767, 768, 785B		136.1), 487		
2	結核	001B-019	001B-019	011-019	010-018 (excl. 011.9A)	A15-A19	A15-A19
3	新生物	140-219, 222-239, 294	140-219, 222-239, 294	140-239	140-239	C00-D48	C00-D48
4	栄養・血液・内分泌系	250-287, 289-293, 295-299, 468	250-287, 289-293, 295-299, 468	135, 240-273, 275-289	135, 240-273, 275-289	D50-D89, E00-E90	D50-D89, E00-E90
	神経·精神	300-326, 340-369, 780B	300-326, 340-369, 780B	290-358, 733.0	290-359	F01-G99	F01-G99
€	脳血管疾患	330-334	330-334	430-438	430-438	160-169	160-169
- 7	心疾患	410-434	410-434	393-398, 410-429	393-398, 410-429 (excl.415.1)	101-102.0, 105-109, 120-125, 127, 130-151	101-102.0, 105-109, 120-125, 127, 130-151
8	その他の循環器系	022, 400-402, 440-467	022, 400-402, 440-467	390-392, 400-404, 440-458	390-392, 399-409, 415.1, 439-459	100, 102.1-104, 110-119, 126, 128-129, 153-	100, 102.1-104, 110-119, 126, 128-129, 153-
	での他の領域番糸				(excl. 446.0)	159, 170-199	159, 170-199
9	呼吸器系	001A, 240, 241, 470-475, 490-493, 500-	001A, 240, 241, 470-475, 490-493, 500-	010, 460-466, 480-486, 490-519	011.9A, 460-486, 488-519	J00-J09, J12-J99	J00-J08, J12-J99, U07, U10
		527, 763	527, 763				
10	消化器系	530-570, 572-587	530-570, 572-587	520-577	520-579	K00-K93	K00-K93
11	腎尿路生殖器系	590-637	590-637	580-629	580-629	N00-N99	N00-N99
12	出産・産褥	640-678	640-678	630-678	630-676	O00-O99	O00-O99
13	先天性·乳児関連	220, 750-776	220, 750-776	740-779	740-779	P00-Q99	P00-Q99
14	老衰	794	794	794	797	R54	R54
15	外因(自殺を除く)	E800-E965, E980-E999	E800-E962, E964-E965, E980-E999	E800-E949, E960-E999	E800-E949, E960-E999	V01-X59, X85-Y89	V01-X59, X85-Y89
16	自殺	E970-E979	E963, E970-E979	E950-E959	E950-E959	X60-X84	X60-X84
17	不明	795	795	795-796	798-799	R95-R99	R95-R99
18	その他	上記以外	上記以外	上記以外	上記以外	上記以外	上記以外

図 1



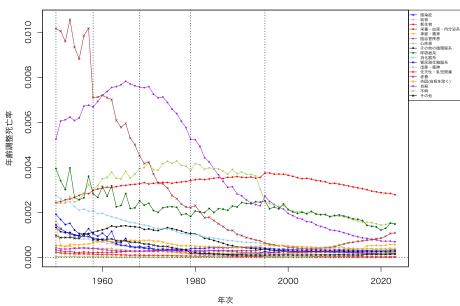


図 2

### 年齢調整死亡率の推移

