

Multidimensional Poverty among Different Age Cohorts in South Korea

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Income Mobility of Elderly Households in Korea

(International Journal of Consumer Studies 2015 ; 37: 316-323)

- **Data:** KLoSA (2005 and 2011)
- **Sample:** The study subjects **2601 responders** who were **more than 50 years old at the time of the 1st survey** provided information on household income in **both the 1st and 4th surveys**
- **Analysis:** **transition matrix, income quintile, equalized income**

Income quintile is a measure of neighborhood socioeconomic status that divides the population into **5 income groups** (from lowest income to highest income) so that approximately 20% of the population is in each group.

Equalized income is a measure of household income that takes account of the differences in a **household's size** and composition, and thus is equalised or made equivalent for all household sizes and compositions.

- **OECD equivalence scale.** This assigns a value of 1 to the first household member, of 0.7 to each additional adult and of 0.5 to each child.
- **Square root scale.** Recent OECD publications (e.g. OECD 2011, OECD 2008) comparing income inequality and poverty across countries use a scale which divides household income by the square root of household size. This implies that, for instance, a household of four persons has needs twice as large as one composed of a single person.

Table 1 Distribution of income

		Quintile in 2011				
		1	2	3	4	5
Quintile in 2005	1	1,467 (56.4%)	8 (0.3%)	1 (0.1%)	0 (0%)	0 (0%)
	2	221 (8.5%)	110 (4.2%)	13 (0.5%)	4 (0.2%)	0 (0%)
	3	13 (0.5%)	170 (6.5%)	31 (1.2%)	12 (0.5%)	0 (0%)
	4	4 (0.2%)	38 (1.5%)	129 (5.0%)	54 (2.1%)	10 (0.4%)
	5	1 (0.1%)	3 (0.1%)	11 (0.4%)	103 (4.0%)	198 (7.6%)

1,860 households (71.5%) showed no change: 1,467 households (56.4%) stayed in bottom quintile and 198 (7.6%) remained in top quintile. 693 households (26.6%) dropped in income status, with 221 households dropping from 2nd quintile to bottom quintile (the most frequent decline). 48 households (1.8%) showed a higher income status.

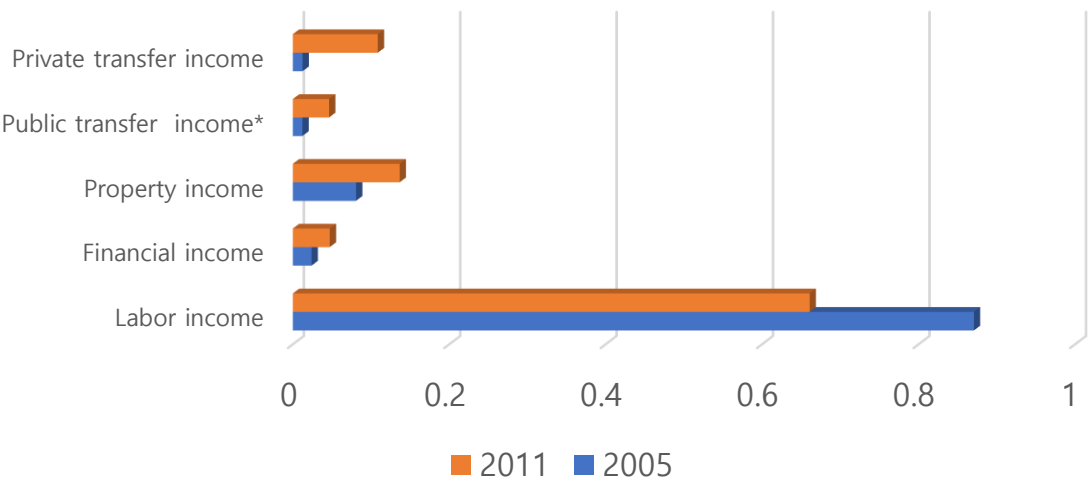
Table 2 Demographics according to income mobility

		Unchanged group	Upward group	Downward group	χ^2/F
Gender	Male	1149(61.8%)	37(77.1%)	589(85.0%)	127.358***
	Female	711(38.2%)	11(22.9%)	104(15.0%)	
Age in 2011		70.34(7.740)a	64.21(6.601)b	65.83(7.002)b	100.683***
Education	No education	420(22.6%)	3(0.1%)	26(3.8%)	253.069***
	Elementary	657(25.3%)	20(41.7%)	167(24.1%)	
	Middle School	304(16.3%)	16(33.3%)	148(21.4%)	
	High School	313(16.8%)	5(10.4%)	258(37.2%)	
	Over. College	160(8.6)	4(8.4%)	93(13.4%)	
Economic activity in 2011	Yes	558(46.7%)	15(50.0%)	203(47.1%)	.148
	No	638(53.3%)	15(50%)	228(52.9%)	
Marital state in 2011	Married	1214(65.3%)	43(89.6%)	588(84.8%)	102.128***
	Unmarried	646(34.7%)	5(10.4%)	105(15.2%)	
Number of employed family member in 2011	0	1116(60.0%)	28(58.3%)	442(63.8%)	3.899
	1	391(21.0%)	11(22.9%)	129(18.6%)	
	2	254(13.7%)	7(14.6%)	88(12.7%)	
	3	84(4.5%)	2(4.2%)	29(4.2%)	
	4	13(0.7%)	0(0%)	4(0.6%)	
	5	2(0.1%)	0(0%)	1(0.1%)	
Having one's own house in 2011	Yes	1351(72.6%)	38(79.2%)	590(85.1%)	43.631***
	No	509(27.4%)	10(20.8%)	103(14.9%)	
Metropolitan in 2011	Yes	1086(58.4%)	27(56.3%)	374(54.0%)	4.043
	No	774(41.6%)	21(43.8%)	319(46.0%)	

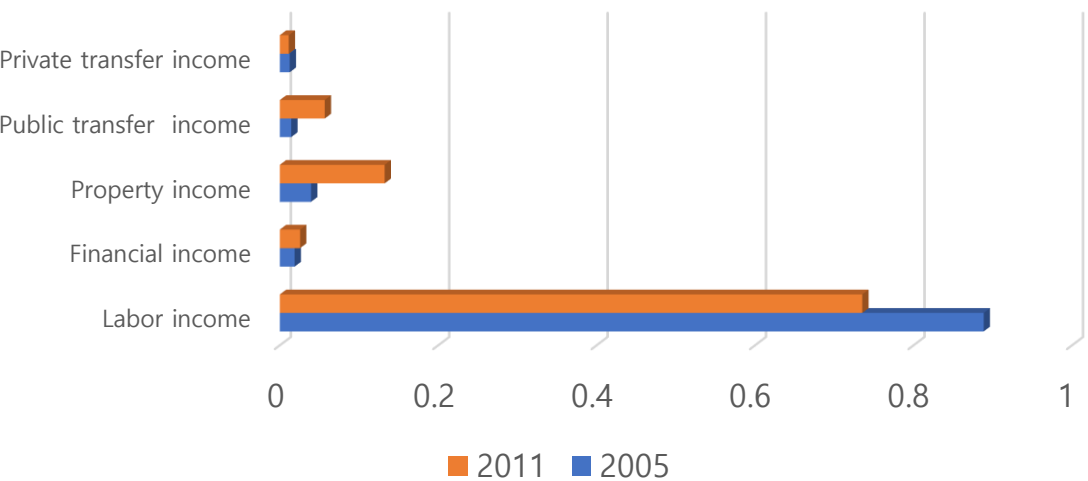
*** $P < 0.001$

Income Composition

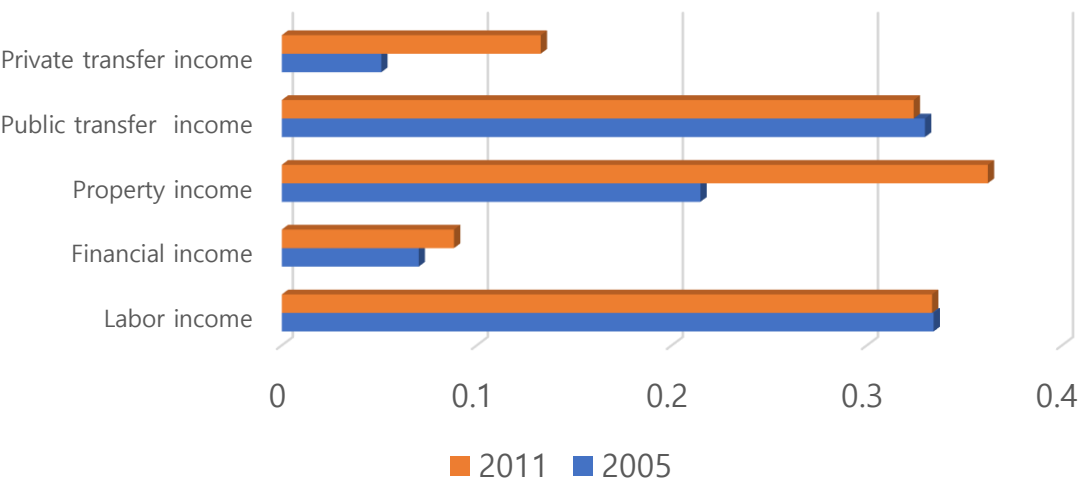
Unchanged group



Upward group

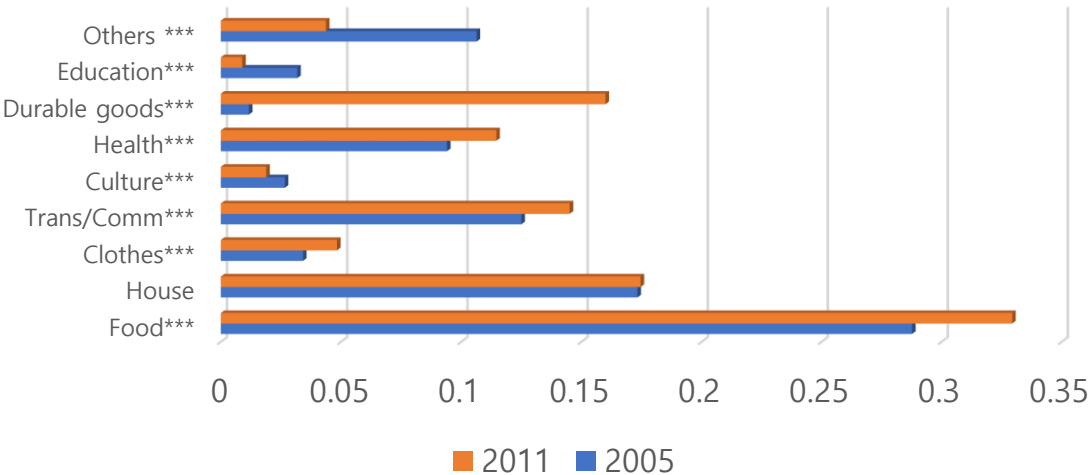


Downward group

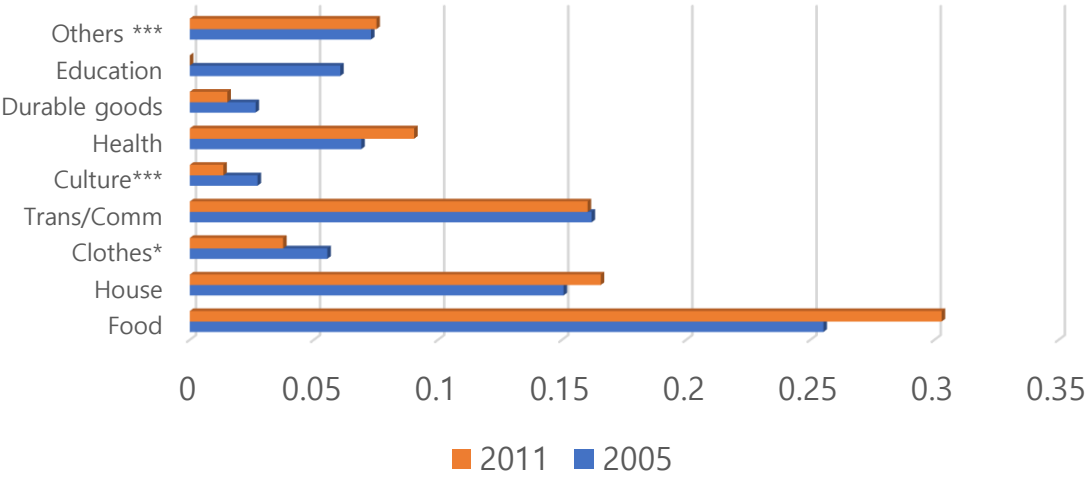


Consumption Pattern

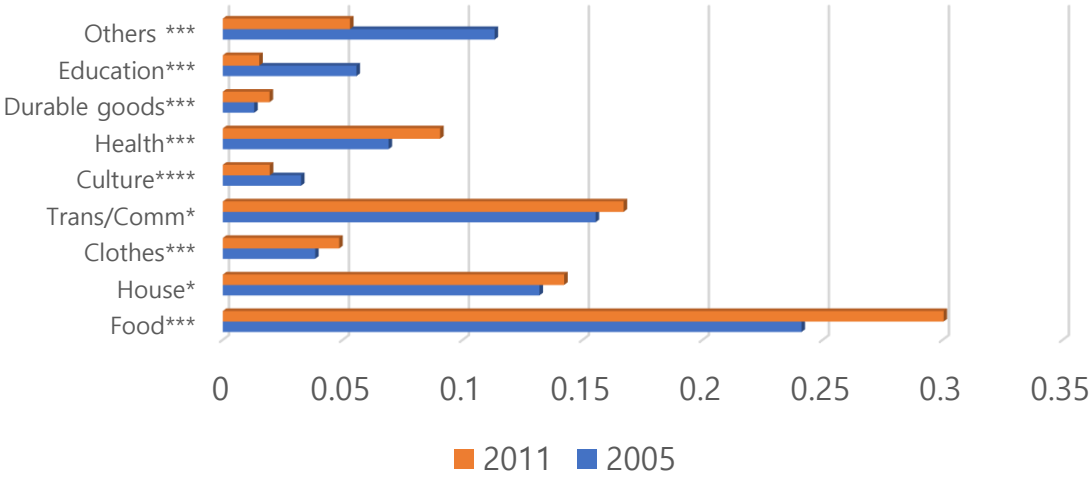
Unchanged group



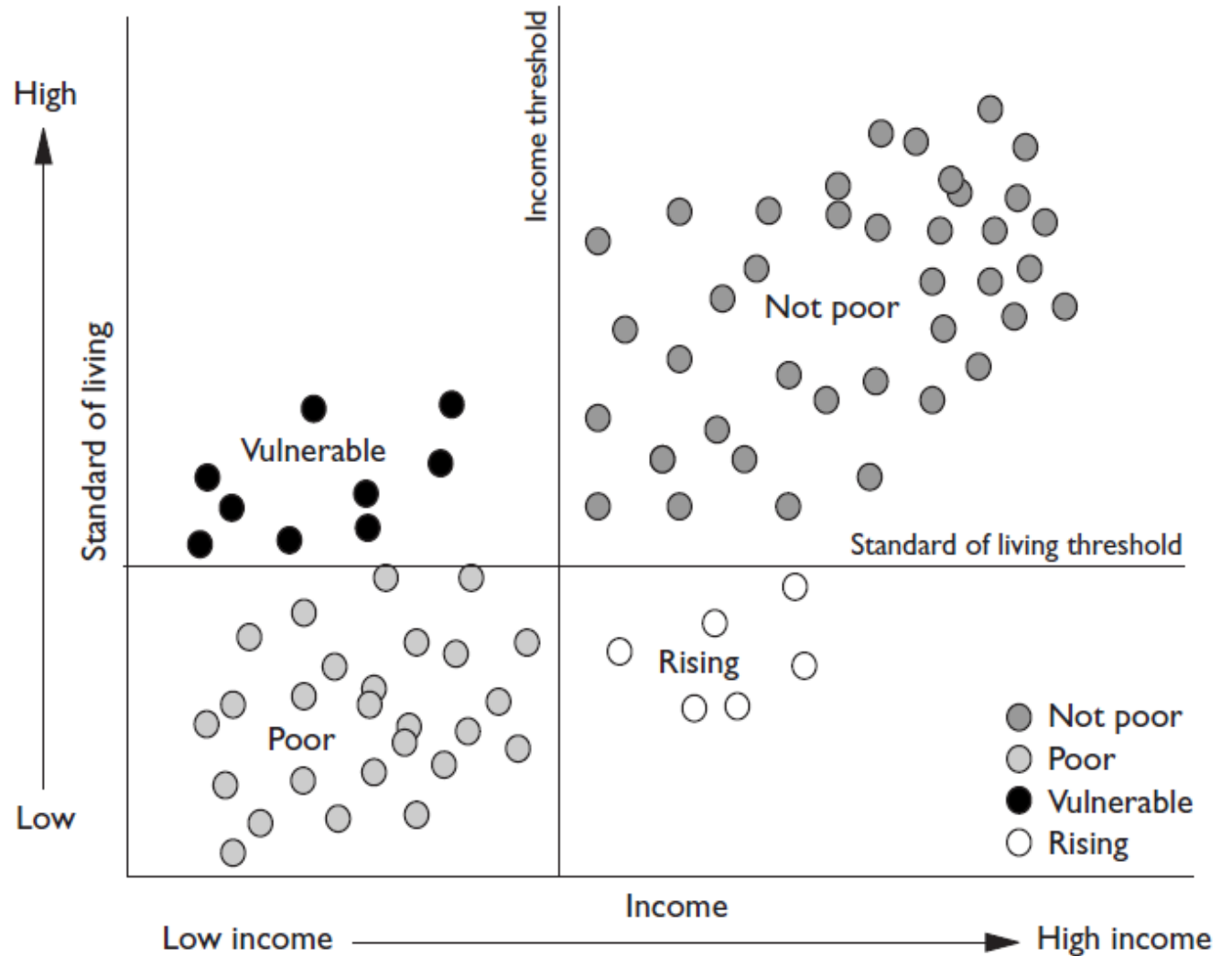
Upward group



Downward group



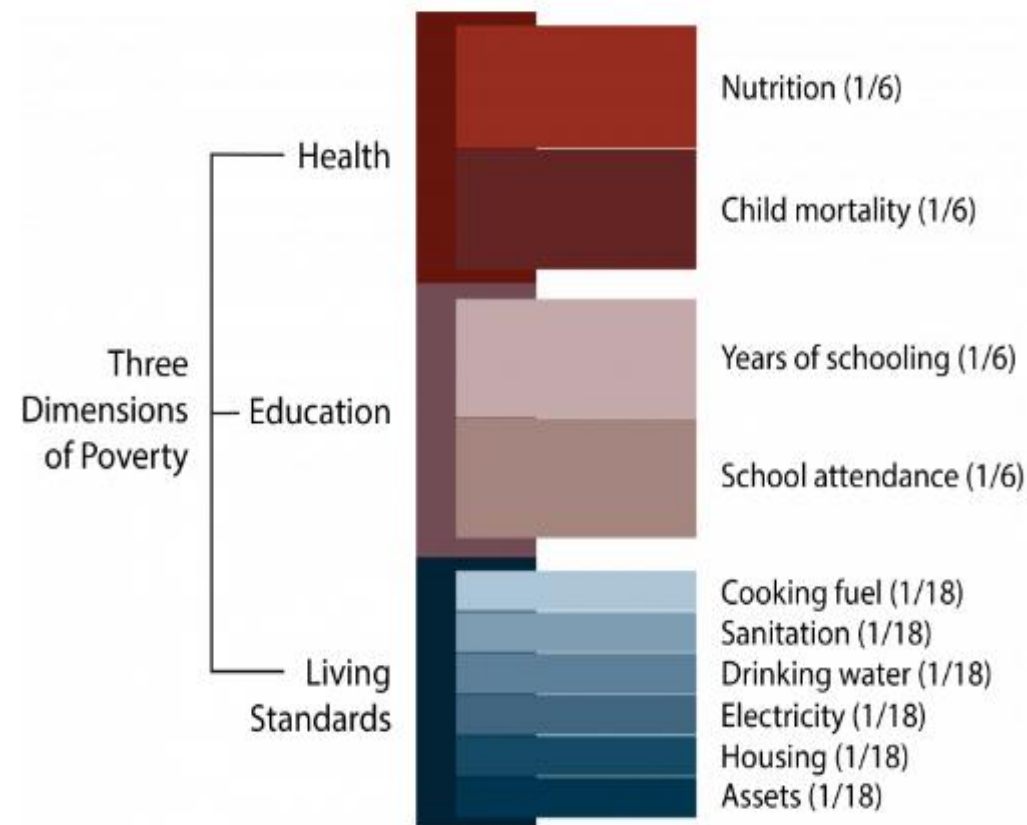
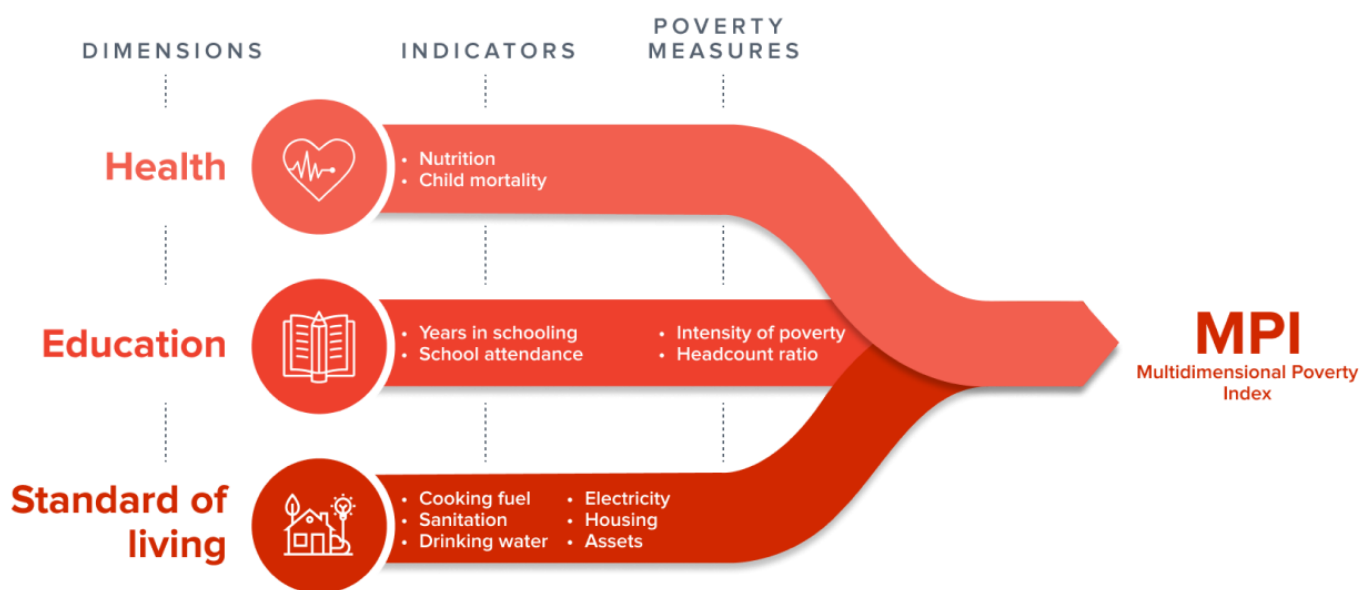
What is Poverty?



<Source: Pantazia, C., Gordon, D., Levitas, R. (2006). Poverty and Social Exclusion in Britain, Bristol: The Policy Press, page 39>

The **Global Multidimensional Poverty Index (MPI)** was developed in 2010 by the **Oxford Poverty & Human Development Initiative (OPHI)** and the **United Nations Development Programme** and uses health, education and standard of living indicators to determine the incidence and intensity of poverty experienced by a population.

MPI Dimensions and Indicators



Dimensions of Poverty	Indicator	Deprived if living in the household where...	Weight
Health	Nutrition	Any adult under 70 years of age or any child for whom there is nutritional information is undernourished. ¹	1/6
	Child mortality	Any child under the age of 18 years has died in the family in the five-year period preceding the survey. ^{2,3}	1/6
Education	Years of schooling	No household member aged 'school entrance age + six' ⁴ years or older has completed at least six years of schooling.	1/6
	School attendance	Any school-aged child is not attending school up to the age at which he/she would complete class eight. ⁵	1/6
Standard of living	Cooking Fuel	The household cooks with dung, wood, charcoal or coal.	1/18
	Sanitation	The household's sanitation facility is not improved (according to SDG guidelines) or it is improved but shared with other households. ⁶	1/18
	Drinking Water	The household does not have access to improved drinking water (according to SDG guidelines) or improved drinking water is at least a 30-minute walk from home, round trip. ⁷	1/18
	Electricity	The household has no electricity. ⁸	1/18
	Housing	At least one of the three housing materials for roof, walls and floor are inadequate: the floor is of natural materials and/or the roof and/or walls are of natural or rudimentary materials. ⁹	1/18
	Assets	The household does not own more than one of these assets: radio, television, telephone, computer, animal cart, bicycle, motorbike or refrigerator, and does not own a car or truck. ¹⁰	1/18

1. Adults 19 to 70 years of age (229 to 840 months) are considered undernourished if their **Body Mass Index (BMI)** is below 18.5 kg/m². Those 5 to 19 years (61 to 228 months) are identified as undernourished if their age-specific BMI values are below minus two standard deviations from the median of the reference population (<https://www.who.int/growthref/en/>).

2. All reported deaths are used if the date of child's death is not known.

3. Child mortality information is typically collected from women of reproductive ages 15-49 years.

4. This country-specific age cutoff was introduced in 2020.

5. Source for official entrance age to primary school

6. A household is considered to have access to improved sanitation if it has some type of flush

toilet or latrine, or ventilated improved pit or composting toilet, provided that they are not shared.

7. A household has access to improved drinking water if the water source is any of the following types: piped water, public tap, borehole or pump, protected well, protected spring or rainwater, and it is within 30 minutes' walk (round trip). If the survey report uses other definitions of

improved drinking water, we follow the survey report.

8. A few countries do not collect data on electricity because of 100% coverage. In such cases, we identify all households in the country as non-deprived in electricity.

9. A household is considered deprived if the dwelling's floor is made of mud/clay/earth, sand or dung; or if the dwelling has no roof or walls or if either the roof or walls are constructed using natural materials such as cane, palm/trunks, sod/mud, dirt, grass/reeds, thatch, bamboo, sticks or rudimentary materials such as carton, plastic/ polythene sheeting, bamboo with mud/stone with mud, loosely packed stones, uncovered adobe, raw/reused wood, plywood, cardboard, unburnt brick or canvas/tent.

10. Television (TV) includes smart TV and black and white TV, telephone includes cell phones, computer includes tablets and laptops, and refrigerator includes freezers.

Who is an Older Adult?

연령	사업 수	사업명	주요 정책 목적
75세	2개	단기 가사서비스(부부), 고령운전자 의무교육	돌봄, 교통안전
70세	1개	경로우대자 추가(세금) 공제	소득보장
66세	1개	의료급여 생애전환기 검진	의료보장
65세	24개	기초연금, 노인장기요양보험, 노인맞춤돌봄서비스, 노인여가복지시설(경로당), 경로우대제, 노인주거 복지시설, 노인건강진단, 노인일자리(공공형, 사회 서비스형), 독거노인 공동생활 홈서비스, 단기 가사 서비스(독거), 이동통신비 감면, 노인 치과 지원, 노인 틀니·임플란트 지원, 행복주택, 응급안전안심 서비스, 노인 외래 정액제, 여촌 가사도우미, 고령자 전세임대주택(전세금 지원), 고령자 복지주택, 예방접종, 노인 이동통신비 감면, 학대피해노인 상담지원, 학대피해노인 쉼터, 노인양로시설	경로우대, 소득보장, 일자리, 의료보장, 돌봄, 주거 서비스, 사회참여, 교통안전
62세	1개	국민연금	소득보장
60세	14개	치매검진사업, 치매치료관리비 지원, 노인여가복지 시설(노인복지관), 결식우려노인 무료급식지원, 노인실명 예방관리(안검진, 개안수술비 지원), 노인저시력예방교육·상담·재활사업, 무릎인공 관절수술 지원, 노인일자리(시장형), 노인여가복지 시설(노인교실), 농지연금, 예방접종(Covid-19), 국민연금 노후긴급자금 대부사업	소득보장, 일자리, 의료보장, 주거서비스, 사회참여
56세	1개	아름다운 이야기 할머니 사업(56~74세)	사회참여
55세	2개	국민연금(조기노령연금), 주택연금	소득보장
50세	3개	고령자 인재은행, 신중년 경력형일자리, 신중년 적합직무 고용장려금	일자리, 사회참여

Multidimensional poverty among different age cohorts in South Korea

(International Journal of Social Welfare 2022;31:433-448)

- **Data:** 10th panel of the 2015 Korea Welfare Panel Study (**KOWEPS, 2015**)
- **Sample:** a young group aged 54 years or less (n=2434), young-old group aged **55–64** years (n=1182), old-old group aged **65–74** years (n=1446), and oldest-old group aged **75** years and over (n=1852)
- **Analysis:** Count Approach, Latent Class Analysis

Table 2. Participant Characteristics: According to Age

	≤54 (n=2434) Frequency (%)	55-64 (n=1182) Frequency (%)	65-74 (n=1446) Frequency (%)	75≤ (n=1852) Frequency (%)	χ^2	<i>p</i>
Gender						
Male	2074 (85.2)	868 (73.4)	883 (61.1)	897 (48.4)	708.331	.000
Female	360 (14.8)	314 (26.6)	563 (38.9)	955 (51.6)		
Marital Status						
Yes	1768 (72.6)	761 (64.4)	815 (56.4)	778 (42.0)	427.429	.000
No	666 (27.4)	421 (35.6)	631 (43.6)	1074 (58.0)		
Education						
Uneducated	2 (.1)	30 (2.5)	180 (12.4)	578 (31.2)	3606.873	.000
Elementary School	56 (2.3)	287 (24.3)	547 (37.8)	718 (38.8)		
Middle School	128 (5.3)	275 (23.3)	295 (20.4)	231 (12.5)		
High School Diploma	984 (40.4)	413 (34.9)	302 (20.9)	204 (11.0)		
Undergraduate Degree and higher	1264 (51.9)	177 (15.0)	122 (8.4)	121 (6.5)		

Measure of Poverty....

Capability Approach

Based on the capability approach, poverty is explained according to the vectors of various dimensions of the standard of living. To examine multidimensional poverty, the dimensions that determine poverty should first be defined, and then it must be determined whether the “**minimally acceptable level**” of **each dimension** has been attained.

Analysis of Poverty

- Intersection vs. Union
- Counting Approach (by. Atkinson,2003)
- Foster-Grier-Thorbeke (FGT) (by. Alkire and Foster, 2007)

$$FGT(\alpha) = \frac{1}{N} \sum_{i=1}^H \left(1 - \frac{y_i}{z}\right)^{\alpha}$$

Z = poverty threshold, N = the number of people in the economy, H = the number of poor (those with incomes at or below z), y_i = the income of each individual i . If α is low then the FGT metric weights all the individuals with incomes below z roughly the same.

Measure of Poverty....

Constructing poverty measures

The headcount ratio (H) is calculated by counting the number of deprived individuals (q) to the whole (N) ($H = q/N$).

$$H = \frac{\text{Number of people below the poverty line (q)}}{\text{Total population (N)}}$$

The adjusted headcount ratio (M_0) was calculated to reflect the degree of poverty (Alkire & Foster, 2011).

This measure reflects both the *incidence* of poverty (the percentage of the population who are poor) and the *intensity* of poverty (the percentage of deprivations suffered by each person or household on average). M_0 is calculated by multiplying the incidence (H) by the intensity (A).

$$A = \frac{\sum_{i=1}^n c_i(k)}{dq}$$

•*Adjusted Poverty Gap (M_1):* This measure reflects the incidence, intensity and depth of poverty. The depth of poverty is the average 'gap' (G) between the level of deprivation poor people experience and the poverty cut-off line. $M_1 = H \times A \times G$.

•*Adjusted Squared Poverty Gap (M_2):* This measure reflects the incidence, intensity, and depth of poverty, as well as inequality among the poor (captured by the squared gap, S). $M_2 = H \times A \times S$.

Table 1. Dimensions and indicators of multidimensional poverty.

Dimension	Indicators	Cut-offs (Deprived if)
Money	Household income with equivalence scale	Less than 50% of median income
	Household net assets	Less than basic property based on Statistics Korea
Health	Subjective health condition	“inclined not to be healthy,”; “health condition is very bad”
	Financial approach to medical service	Cost of medical treatment to disposable income ratio exceeds 20%
Housing condition	Vulnerable housing location	Basement floor, Semi-basement floor, Rooftop
	Housing type	Temporary building, rental housing for disadvantaged class, vinyl greenhouse, mud hut, shack, temporary makeshift, housing in non-residential building (arcade, factory, etc.)
	Housing expenses	Housing cost to disposable income ratio (rent + maintenance cost) exceeds 30%
Human relations	Family relationship	Very unsatisfactory, inclined to be unsatisfactory
	Social relationship	Very unsatisfactory, inclined to be unsatisfactory
Employment	Work ability	Do not engage in economic activity because work ability is lacking
	Participation in economic activity	temporary job, dayworker, self-support worker, public works, senior citizen’s work, unpaid family worker, jobless, economically inactive population
Social security	Health insurance	Uninsured, insurance defaulter

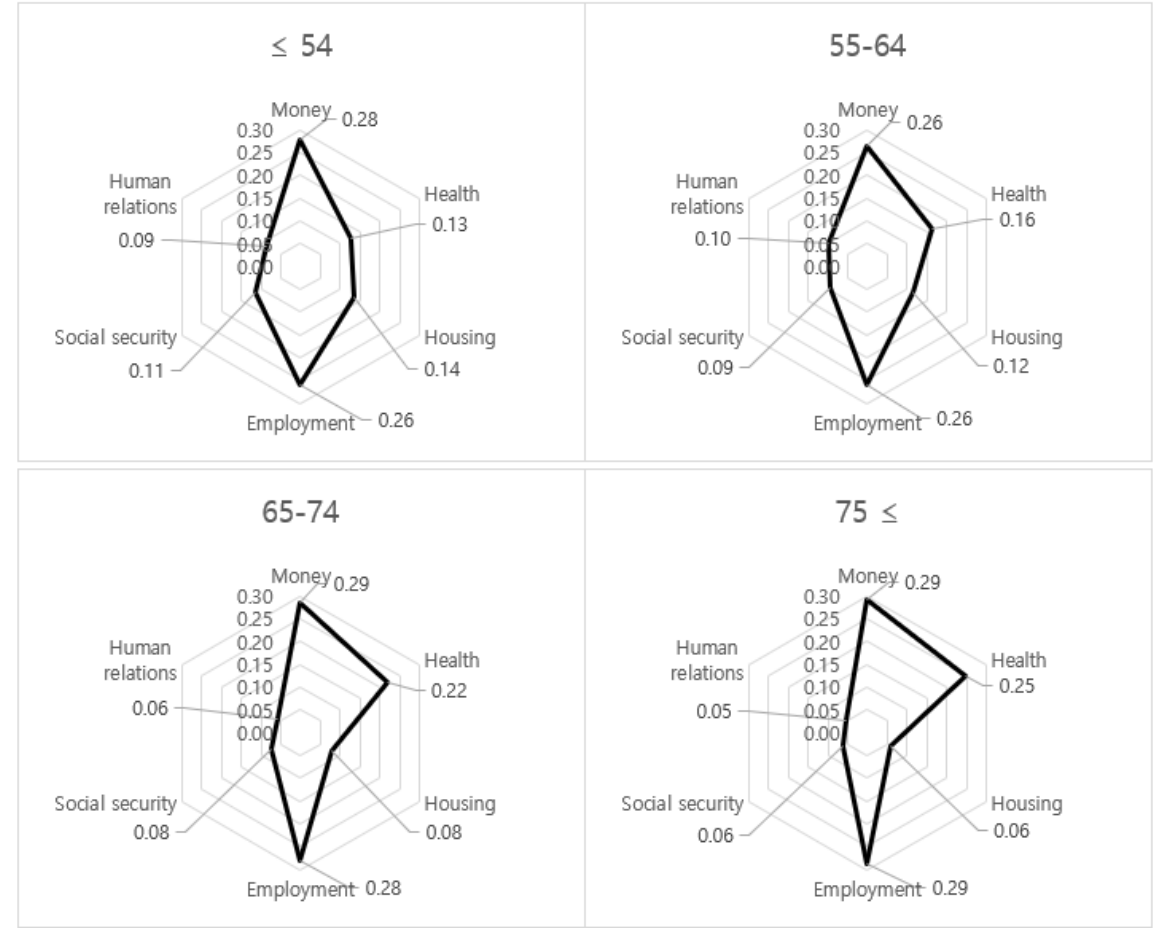
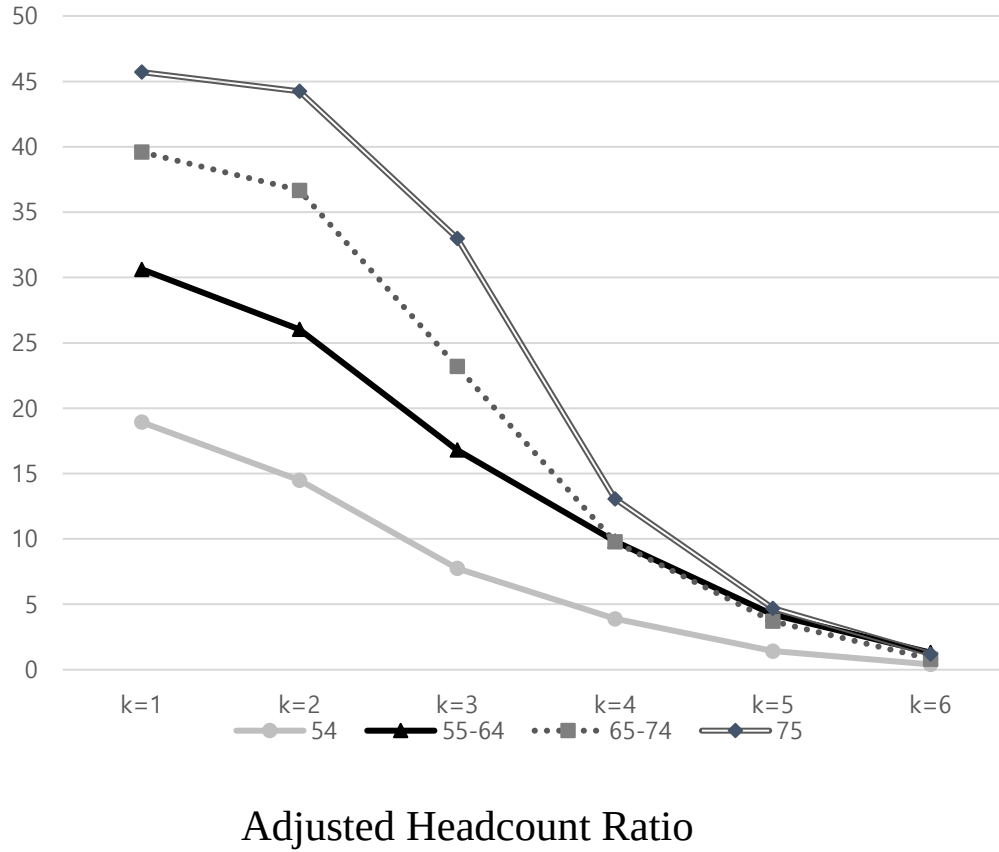
Table 3. Poverty Ratio: According to Age

	≤54	55-64	65-74	75≤
	Frequency (%)	Frequency (%)	Frequency (%)	Frequency (%)
Money	1705 (70.0)	841 (71.2)	1327 (91.8)	1808 (97.6)
Housing Condition	255 (10.5)	172 (14.6)	172 (11.9)	225 (12.1)
Health	167 (9.5)	261 (22.1)	551 (38.1)	1055 (57.0)
Employment	717 (29.5)	631 (53.4)	1044 (72.2)	1525 (82.3)
Human Relations	147 (6.0)	135 (11.4)	125 (8.6)	202 (10.9)
Social Security	126 (5.2)	113 (9.6)	151 (10.4)	224(12.1)

Table 4. Headcount Ratio and Adjusted Headcount Ratio: According to Age

	≤54			55–64			65–74			75≤		
	H ^a	A ^b	M ^c	H ^a	A ^b	M ^c	H ^a	A ^b	M ^c	H ^a	A ^b	M ^c
0	24.3	-	-	19.4	-	-	3.4	-	-	0.6	-	-
1 and more	75.7	0.28	18.93	80.6	0.38	30.63	96.6	0.41	39.60	99.4	0.46	45.72
2 and more	33.7	0.43	14.49	55.4	0.47	26.04	78.0	0.47	36.67	90.3	0.49	44.25
3 and more	12.5	0.62	7.75	27.1	0.62	16.80	40.0	0.58	23.20	57.9	0.57	33.00
4 and more	5.4	0.72	3.89	13.1	0.75	9.83	13.4	0.73	9.78	17.9	0.73	13.07
5 and more	1.6	0.88	1.41	4.8	0.88	4.22	4.3	0.86	3.70	5.4	0.87	4.70
6	0.4	1.0	0.40	1.3	1.0	1.30	0.8	1.0	0.80	1.2	1.0	1.20

Note. ^a Headcount ratio is the percentage of people identified as poor; ^b Average deprivation score is the percentage of people identified as poor (H) multiplied by the average share of weighted deprivations that the poor experience; ^c Adjusted headcount ratio= HA



The Contribution of Poverty Dimensions to Multidimensional Poverty ($k=3$)

$MPI = w_1CH_1 + w_2CH_2 + w_3CH_3$, Here w_1 is the weight of indicator 1 and CH_1 is the censored headcount ratio of indicator 1, and so on for the other two indicators, with $\sum_{i=1}^d w_i = 1$. The percentage contribution of each indicator to overall poverty is computed as follows:

$$\text{Contribution of Indicator } i \text{ to MPI} = \frac{w_iCH_i}{MPI} \times 100$$

TABLE 3 The difference in total number of poverty dimension

Young Mean (SD)	Young-old Mean (SD)	Old-old Mean (SD)	Oldest-old Mean (SD)	<i>F</i>	η_p^2	<i>p</i>
0.998 ^a (0.867)	1.288 ^b (1.126)	1.609 ^c (0.933)	1.897 ^d (0.886)	353.621	0.133	0.000

Note: In the Scheffé test, the significance of the mean difference of each group was verified at the 0.05 level, and the degree of the mean of each group was expressed as $a < b < c < d$.

TABLE 4 Headcount ratio and adjusted headcount ratio

Deprivation dimension	Young			Young-old			Old-old			Oldest-old		
	H ^a	A ^b	M ^c	H ^a	A ^b	M ^c	H ^a	A ^b	M ^c	H ^a	A ^b	M ^c
0	26.9	–	–	25.4	–	–	6.2	–	–	1.3	–	–
1 and more	73.1	0.27	19.97	74.6	0.35	25.75	93.8	0.34	32.18	98.7	0.38	37.97
2 and more	18.5	0.49	9.05	34.0	0.52	17.63	47.6	0.48	22.92	65.7	0.48	31.37
3 and more	6.2	0.67	4.13	13.8	0.69	9.55	14.2	0.67	9.55	18.8	0.67	12.61
4 and more	1.6	0.85	1.36	5.1	0.85	4.34	4.4	0.83	3.67	5.5	0.84	4.64
5	0.4	1.00	0.40	1.3	1.00	1.30	0.8	1.00	0.80	1.2	1.00	1.20

^aHeadcount ratio is the percentage of people identified as poor.

^bAverage deprivation score is the percentage of people identified as poor (H) multiplied by the average share of weighted deprivations that the poor experience.

^cAdjusted headcount ratio = $H \times A$.

TABLE 5 Fit indexes of latent class analysis

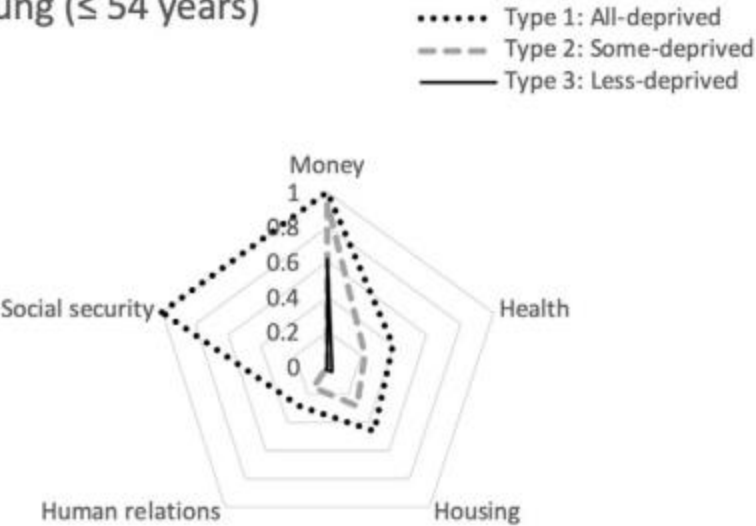
Number of groups (K)	Young			Young-old			Old-old			Oldest-old		
	2	3	4	2	3	4	2	3	4	2	3	4
LR χ^2 (<i>p</i> value)	21.940 (0.344)	9.972 (0.764)	6.321 (0.611)	41.254 (0.004)	14.864 (0.388)	4.066 (0.851)	24.206 (0.234)	4.667 (0.990)	1.726 (0.988)	27.520 (0.121)	8.000 (0.889)	2.537 (0.960)
<i>df</i>	20	14	8	20	14	8	20	14	8	20	14	8
AIC	7646.67	7646.70	7655.05	4867.53	4853.14	4854.34	5385.45	5377.91	5386.97	6759.38	6751.87	6758.40
BIC	7710.44	7745.26	7788.39	4923.36	4939.42	4971.07	5443.49	5467.61	5508.33	6820.15	6845.77	6885.45
Adjusted BIC	7675.49	7691.24	7715.31	4888.42	4885.42	4898.01	5408.55	5413.61	5435.27	6785.20	6791.76	6812.38
BLRT (<i>p</i> value)	−4037.19 (0.000)	−3812.34 (0.030)	−3806.35 (0.429)	−2617.10 (0.000)	−2422.77 (0.000)	−2409.57 (0.667)	−2809.11 (0.000)	−2681.73 (0.000)	−2671.96 (1.000)	−3479.92 (0.000)	−3368.69 (0.020)	−3358.93 (0.667)
Entropy	0.759	0.690	0.856	0.630	0.504	0.699	0.719	0.667	0.697	0.690	0.527	0.604

TABLE 6 Probability scale

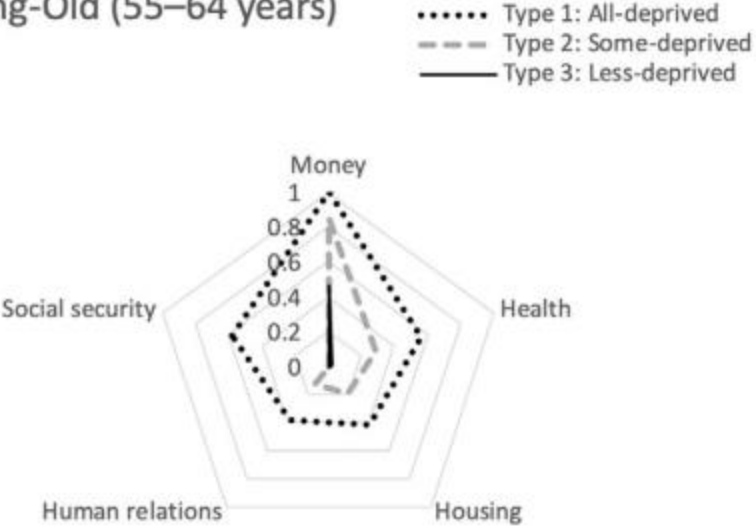
Dimension of poverty	Young			Young-old			Old-old			Oldest-old		
	Type 1: all (<i>n</i> = 126)	Type 2: some (<i>n</i> = 324)	Type 3: less (<i>n</i> = 1984)	Type 1: all (<i>n</i> = 124)	Type 2: some (<i>n</i> = 310)	Type 3: less (<i>n</i> = 748)	Type 1: all (<i>n</i> = 201)	Type 2: some (<i>n</i> = 403)	Type 3: less (<i>n</i> = 842)	Type 1: all (<i>n</i> = 243)	Type 2: Some (<i>n</i> = 825)	Type 3: Less (<i>n</i> = 784)
Money												
No	0.000	0.057	0.379	0.000	0.147	0.539	0.000	0.000	0.124	0.000	0.000	0.041
Yes	1.000	0.943	0.621	1.000	0.853	0.461	1.000	1.000	0.876	1.000	1.000	0.959
Health												
No	0.603	0.778	0.975	0.439	0.710	0.969	0.494	0.000	0.815	0.362	0.013	0.638
Yes	0.397	0.222	0.025	0.561	0.290	0.021	0.506	1.000	0.185	0.638	0.987	0.362
Housing												
No	0.540	0.716	0.963	0.591	0.810	1.000	0.510	0.958	0.946	0.539	0.952	0.935
Yes	0.460	0.284	0.037	0.409	0.190	0.000	0.490	0.042	0.054	0.461	0.048	0.065
Human relations												
No	0.722	0.853	0.975	0.620	0.875	1.000	0.671	0.942	0.962	0.691	0.866	0.955
Yes	0.278	0.147	0.025	0.380	0.125	0.000	0.329	0.058	0.037	0.309	0.134	0.045
Social security												
No	0.000	1.000	1.000	0.421	1.000	1.000	0.403	0.932	1.000	0.319	0.979	0.981
Yes	1.000	0.000	0.000	0.579	0.000	0.000	0.597	0.068	0.000	0.681	0.021	0.019

LCA Results

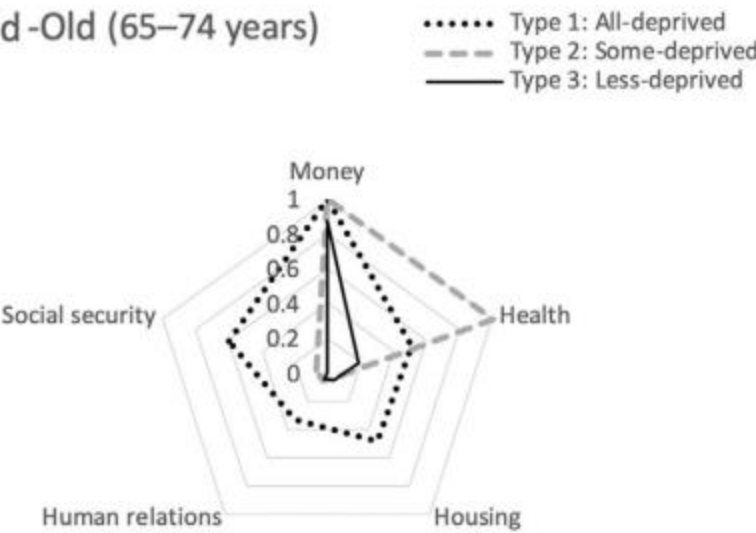
Young (≤ 54 years)



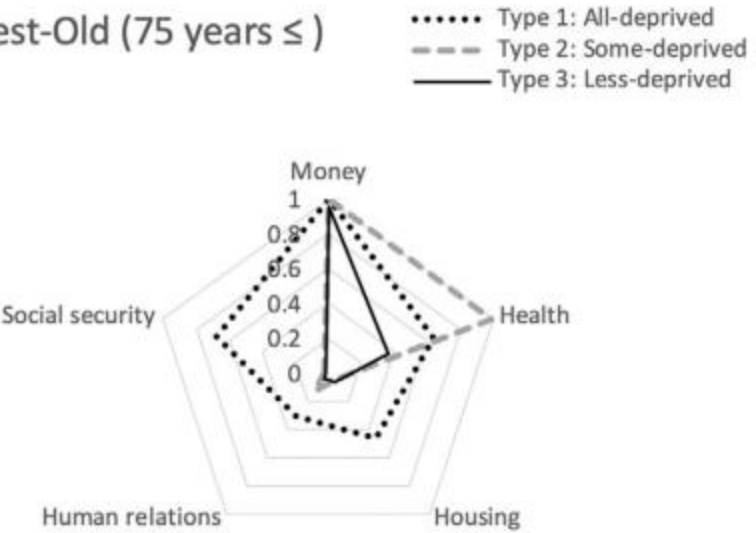
Young-Old (55–64 years)



Old -Old (65–74 years)



Oldest-Old (75 years ≤)



Multidimensional Poverty Status of Householders with Disabilities in South Korea

(International Journal of Social
Welfare 2020;29:41-50)

- **Data:** 10th panel of the 2015 Korea Welfare Panel Study (KOWEPS, 2015)
- **Sample:** The KOWEPS provides information on 949 householders with disabilities (HDs) and 5,965 general householders (NDHCs)

Table 1. Characteristics of participants.

Category	Non-disabled householders		Householders with disabilities		χ^2	<i>p</i>
	Frequency	%	Frequency	%		
Age						
~ 19	4	0.1	0	0	190.659	0.000
20 ~ 29	109	1.8	0	0		
30 ~ 39	664	11.1	24	2.5		
40 ~ 49	1072	18.0	77	8.1		
50 ~ 59	1050	17.6	165	17.4		
60~	3066	51.4	683	72.0		
Gender						
Male	4061	68.1	661	69.7	0.934	0.348
Female	1904	31.9	288	30.3		
Marital state						
Yes	3587	60.1	535	56.4	4.805	0.016
No	2378	39.9	414	43.6		
Education						
No education	650	10.9	140	14.8	180.375	0.000
Elementary school	1286	21.6	322	33.9		
Middle school	756	12.7	173	18.2		
High school	1688	28.3	215	22.7		
College	1585	26.6	99	10.4		
Degreed of disability						
Mild	-	-	655	69.0		
Severe	-	-	294	31.0		

Table 4. Ratio of poverty.

	Non-disabled householders		Householders with disabilities	
	Those aged 59 and below (<i>n</i> = 2899)	Those aged 60 and above (<i>n</i> = 3066)	Those aged 59 and below (<i>n</i> = 266)	Those aged 60 and above (<i>n</i> = 683)
	Frequency (%)	Frequency (%)	Frequency (%)	Frequency (%)
Money	1975 (68.1)	2835 (92.5)	224 (84.2)	647 (94.7)
Housing	293 (10.1)	340 (11.1)	69 (25.9)	122 (17.9)
Health	258 (8.9)	1326 (43.2)	81 (30.5)	399 (58.4)
Employment	902 (31.1)	2286 (74.6)	167 (62.8)	562 (82.3)
Human relationships	179 (6.2)	290 (9.5)	53 (19.9)	87 (12.7)
Social security	120 (4.1)	294 (9.6)	71 (26.7)	129 (18.9)

Table 5. Headcount ratio and adjusted headcount ratio.

Total number of deprivations	Non-disabled householders						Householders with disabilities					
	Those aged 59 and below			Those aged 60 and above			Those aged 59 and below			Those aged 60 and above		
	H ^a	A ^b	M ^c	H ^a	A ^b	M ^c	Ha	A ^b	M ^c	H ^a	A ^b	M ^c
0	25.35	–	–	3.52	–	–	9.40	–	–	1.90	–	–
1 and more	74.64	0.29	21.65	96.48	0.42	40.52	90.60	0.46	41.68	98.09	0.47	46.10
2 and more	34.70	0.43	14.92	80.59	0.46	37.07	69.92	0.55	38.46	89.60	0.50	44.53
3 and more	12.72	0.58	7.38	44.55	0.57	25.39	45.86	0.66	30.27	61.20	0.60	36.72
4 and more	4.82	0.72	3.47	13.63	0.73	9.95	28.57	0.75	21.43	25.91	0.73	18.91
5 and more	1.37	0.87	1.19	4.24	0.87	3.69	11.65	0.88	10.25	8.20	0.87	7.13
6	0.28	1.00	0.28	.09	1.00	.09	3.38	1.00	3.38	1.90	1.00	1.90

^aHeadcount ratio is the percentage of people who are identified as poor. ^bAverage deprivation score is the percentage of people who are identified as poor (H) multiple by the average share of weighted deprivations that poor experience. ^cAdjusted headcount ratio= H x A.

Limitation

- Self-reported items
- Monetary dimensions vs. Non-monetary dimensions
- Cross-sectional study