

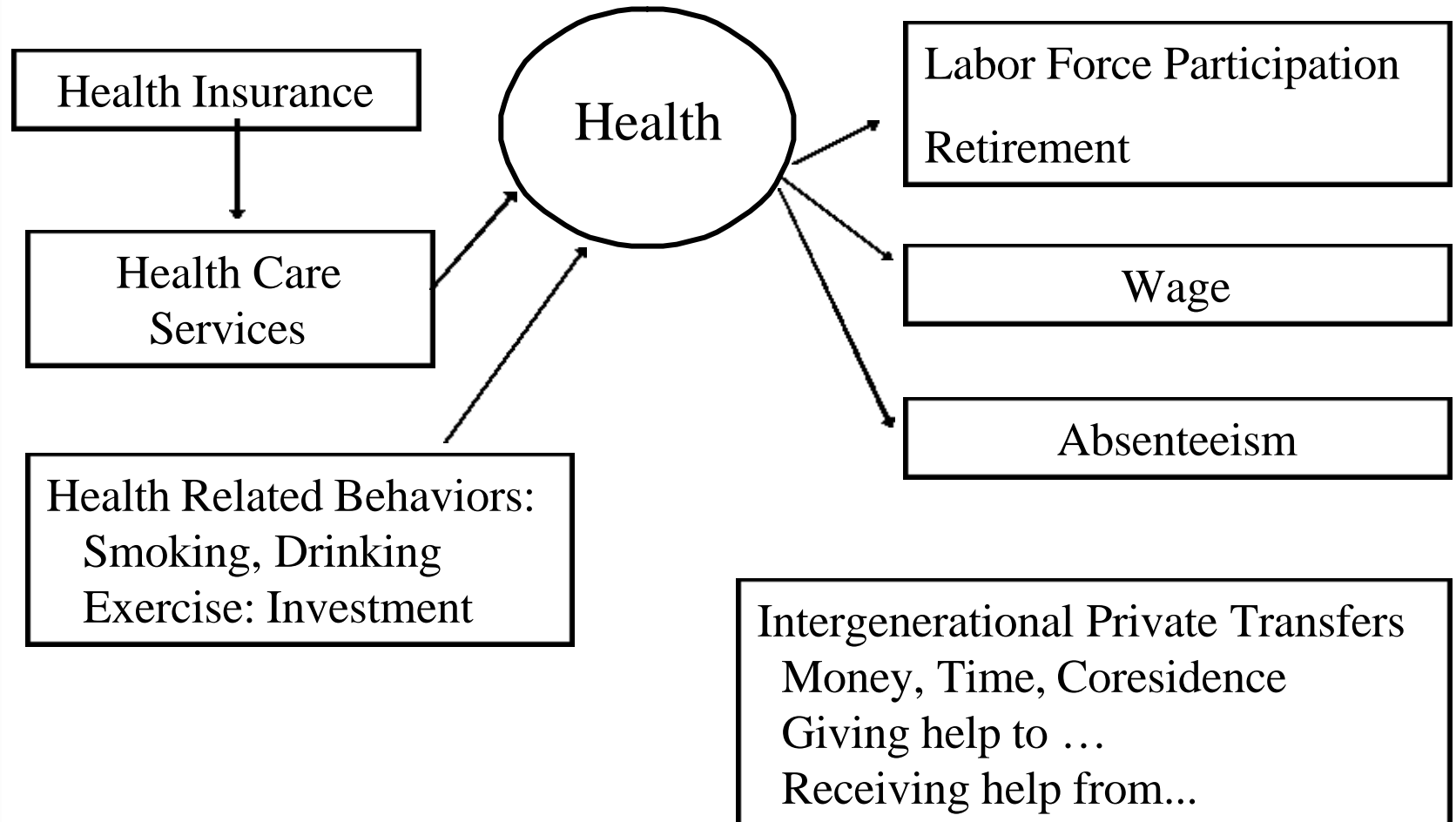
# **Health, Health Related Behaviors, and Labor Market Performances**

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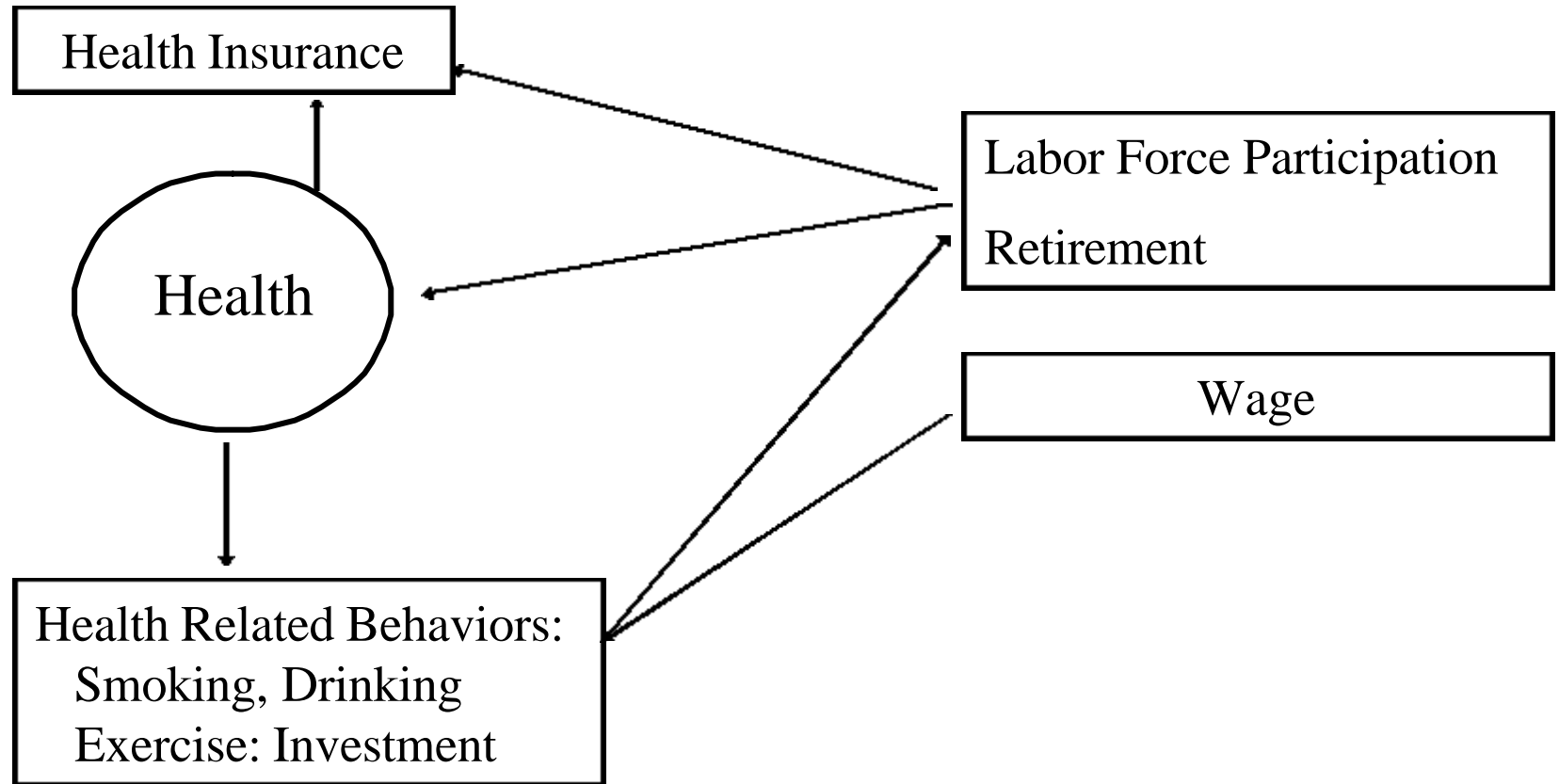
2003 2 21

# Health Economics

Physical, Mental, Emotional  
Subjective vs. Objective



# Health Economics



# KLIPS Wave 4

## 가

- 1 ( )
- ,
- 
- , ,
- 
- : , 가 , out-of-pocket costs
- : , ,
- Intergenerational Private Transfer

가  
가

- Absenteeism
- 20 ~ 64 , , 가 (357 )

# Health Status

- 2.5
- 61%가
- 18%
- 11%
- 20 2.13 vs. 60 3.23

			1	2	3	4	5
	8,299	2.50	4.9	56.5	24.1	12.8	1.6
	3,985	2.37	6.3	61.9	21.0	9.5	1.3
	4,314	2.61	3.6	51.6	26.9	15.9	2.0
30	2,030	2.13	10.0	71.3	15.2	3.3	0.2
30	2,189	2.30	6.0	65.5	21.7	6.3	0.5
40	2,105	2.56	2.5	55.0	27.6	13.8	1.2
50	1,372	2.94	1.3	37.2	32.2	25.2	4.1
60	603	3.23	1.2	23.5	32.5	36.5	6.3

# Health Status

- ( )  
 - ( ) (+)  
 (recent cohort)가

			1	2	3	4	5
	8,299	2.50	4.9	56.5	24.1	12.8	1.6
	1,876	2.14	10.0	70.5	15.2	4.0	0.3
	5,948	2.56	3.6	54.1	26.5	14.1	1.7
	475	3.07	2.1	31.4	29.1	32.2	5.3
	2,542	2.92	1.3	38.2	31.2	25.6	3.7
	4,472	2.33	6.2	64.2	21.1	7.7	0.8
	1,133	2.25	7.8	65.8	20.8	5.3	0.4
	152	2.22	8.6	67.1	18.4	5.3	0.7

# Health Status

가

- 가 ( 2202 ) (132 )  
 - 가  
 -

			1	2	3	4	5
	8,299	2.50	4.9	56.5	24.1	12.8	1.6
	555	2.74	4.3	45.4	26.7	19.6	4.0
700	734	2.89	3.5	41.1	23.2	27.5	4.6
1400	1,472	2.58	4.2	52.9	24.9	16.2	1.8
2800	3,368	2.44	4.9	58.3	25.5	10.1	1.2
2800	2,170	2.33	6.2	64.2	21.0	8.1	0.6
50	507	2.84	5.3	39.4	24.9	26.8	3.6
100	2,245	2.59	5.1	52.3	23.7	16.2	2.7
150	2,610	2.47	4.2	58.4	25.1	11.2	1.1
200	1,519	2.44	4.1	60.9	23.6	10.1	1.3
200	1,418	2.35	6.8	61.1	23.1	8.3	0.6

# Regression 1: Health Status

가

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가

Intercept	-1.135	(0.234)	***	-1.631	(0.329)	***	-1.297	(0.317)	***
Intercept2	2.731	(0.235)	***	2.182	(0.330)	***	2.636	(0.317)	***
Intercept3	4.299	(0.238)	***	3.674	(0.333)	***	4.265	(0.321)	***
Intercept4	6.815	(0.252)	***	6.006	(0.359)	***	6.884	(0.336)	***
Female	-0.575	(0.047)	***						***
Lage	-2.439	(0.114)	***	-2.141	(0.162)	***	-2.716	(0.161)	***
Never	-0.254	(0.077)	***	-0.057	(0.109)		-0.444	(0.110)	***
Ever	-0.260	(0.093)	***	-0.145	(0.168)		-0.298	(0.113)	***
hgc	0.081	(0.007)	***	0.081	(0.011)	***	0.080	(0.010)	***
Lt fi	0.070	(0.010)	***	0.083	(0.016)	***	0.060	(0.014)	***
-2 logL	17121			8018			9087		
Wald	1671	***		539	***		994	***	
Concordant	71.1			68.1			72		
Prop.Odd	45.8	***		26.6	**		23	*	



# Health Status and Health RB

- 1 가 , 가  
 - 가  
 - 가 가?

			1	2	3	4	5
	8,299	2.50	4.9	56.5	24.1	12.8	1.6
	5,563	2.56	4.5	53.5	25.6	14.6	1.9
1	1,650	2.33	6.2	64.4	20.2	8.1	1.0
1	1,086	2.43	5.4	60.0	22.3	11.0	1.3
	1,191	2.36	7.1	61.0	22.2	8.6	1.2
	3,371	2.36	5.5	62.7	22.9	8.2	0.7
	3,737	2.66	3.8	49.5	25.8	18.3	2.6

# Health Status and Health RB

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가  
가

			1	2	3	4	5
	8,299	2.50	4.9	56.5	24.1	12.8	1.6
	1,044	2.43	7.4	58.3	19.9	12.8	1.5
	889	2.45	6.1	55.5	26.8	11.0	0.7
	6,366	2.51	4.4	56.4	24.4	13.1	1.8
	1,825	2.43	6.8	57.0	23.6	11.3	1.2
	725	2.62	4.8	50.6	24.8	17.0	2.8
	221	2.47	6.8	57.0	19.0	16.7	0.5
	154	2.75	2.6	48.1	26.0	18.8	4.5
	176	2.36	9.1	55.7	25.6	9.1	0.6
	63	2.81	6.3	38.1	27.0	25.4	3.2
	5,135	2.50	4.1	57.6	24.2	12.4	1.6



# Health and Labor

- 가  
 - 가  
 - 가 / 가 가

			1	2	3	4	5
All	8,299	2.50	4.9	56.5	24.1	12.8	1.6
	2,757	2.65	4.5	49.5	25.5	17.4	3.0
	5,542	2.42	5.2	60.0	23.4	10.5	0.9
	268	2.39	10.4	54.9	22.4	9.7	2.6
	5,274	2.42	4.9	60.3	23.4	10.6	0.9
	3,550	2.35	5.8	63.0	22.7	7.9	0.6
	1,342	2.55	3.4	56.0	24.2	15.0	1.3
가	382	2.69	1.8	49.5	27.7	19.6	1.3







# LPF and Health RB

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- 가 heavy smoker
- 가 1

	All		1	1
	8299	67.0	19.9	13.1
	2757	84.1	11.3	4.6
	5542	58.5	24.2	17.3
	268	59.3	26.5	14.2
	5274	58.5	24.0	17.5
	3550	57.3	26.3	16.4
	1342	52.5	23.0	24.6
가	382	90.8	7.1	2.1



# LPF and Health RB

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- 가

	8299	14.4	40.6	45.0
	2757	5.4	32.7	61.9
	5542	18.8	44.6	36.6
	268	18.7	45.5	35.8
	5274	18.8	44.5	36.7
	3550	18.5	47.7	33.8
	1342	23.7	40.8	35.5
가	382	4.5	28.3	67.3

# LPF and Health RB

- 가 :
- 가
- 가
- 가? 가?

	8299	12.6	10.7	76.7
	2757	14.4	11.8	73.8
	5542	11.7	10.2	78.1
	268	11.9	14.9	73.1
	5274	11.6	10.0	78.4
	3550	12.0	10.8	77.2
	1342	12.1	8.8	79.1
가	382	6.8	6.3	86.9

# Health and Wage

- 가 ?  
 - ‘ , 가 7500  
 - 22% 5800  
 - ‘ , 4160 55%

	3,154	1,260	49.4	6,538	
1=	163	1,485	48.8	7,521	100.0
2=	1,976	1,330	49.2	6,884	91.5
3=	734	1,123	50.3	5,847	77.7
4=	260	1,009	49.5	5,438	72.3
5=	21	821	49.7	4,159	55.3

# Health and Wage

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	1,997	1,479	51.3	7,466	
1=	121	1,660	49.7	8,357	100.0
2=	1,316	1,534	51.1	7,726	92.5
3=	417	1,326	51.4	6,787	81.2
4=	134	1,267	54.1	6,380	76.3
5=	9	1,162	53.1	5,184	62.0
	1,157	882	46.2	4,936	
1=	42	979	46.3	5,114	61.2
2=	660	922	45.3	5,204	62.3
3=	317	857	48.8	4,610	55.2
4=	126	734	44.7	4,437	53.1
5=	12	564	47.1	3,390	40.6

# Health RB and Wage

- ?  
- (+)

	3,154	1,260	49.4	6,538	100.0
	1,732	1,141	47.6	6,126	93.7
1	868	1,397	51.2	6,977	106.7
1	554	1,417	52.5	7,139	109.2
	618	1,448	50.2	7,337	112.2
	1,497	1,345	50.1	6,897	105.5
	1,039	1,025	48.1	5,546	84.8
	391	1,721	47.6	9,209	140.9
	345	1,447	47.0	7,998	122.3
	2,418	1,158	50.1	5,898	90.2

# Health RB and Wage

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1                      가 1  
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	589	1,636	50.2	8,414	112.7
1	859	1,406	51.3	7,009	93.9
1	549	1,424	52.5	7,165	96.0
	1,143	885	46.3	4,947	66.3
1	9	584	41.1	3,904	52.3
1	5	692	45.2	4,290	57.5

## Health RB and Wage

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	586	1,466	50.6	7,353	98.5
	1,085	1,494	51.6	7,550	101.1
	326	1,450	51.8	7,391	99.0
	32	1,115	42.1	7,041	94.3
	412	952	46.1	5,176	69.3
	713	831	46.5	4,702	63.0

# Health RB and Wage

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- 46%
- 46%
- 가 ?
- ‘ ’ ?

	309	1,876	49.1	9,831	131.7
	267	1,586	48.3	8,583	115.0
	1,421	1,372	52.3	6,742	90.3
	82	1,138	42.1	6,867	92.0
	78	971	42.4	5,994	80.3
	997	854	46.9	4,694	62.9



## Health RB and Wage

	553	1,754	49.2	9,215	123.4
	110	1,569	53.0	8,014	107.3
	101	1,314	53.5	6,480	86.8
	41	1,829	50.3	9,249	123.9
	30	1,447	52.9	8,045	107.8
	14	1,486	51.1	7,561	101.3
	1,148	1,340	52.0	6,578	88.1
	155	1,032	42.7	6,132	82.1
	131	909	44.0	5,584	74.8
	6	947	41.5	6,850	91.7
	32	947	42.8	5,565	74.5
	36	1,017	45.4	5,441	72.9
	9	698	38.7	4,232	56.7
	788	841	47.6	4,537	60.8

# Regression 6: Wage

가

- 가 , , , , 가

- 1 2.8%, 1 3.0%

- 36%, 9.5%

Female	-0.3611	(.0187)	***						
Tenure	0.0278	(.0032)	***	0.0237	(.0038)	***	0.0262	(.0064)	***
TenureSq	-0.0054	(.0012)	***	-0.0047	(.0013)	***	-0.0019	(.0027)	
hgc	0.0300	(.0030)	***	0.0329	(.0038)	***	0.0233	(.0050)	***
Never	-0.1430	(.0203)	***	-0.2204	(.0250)	***	-0.0478	(.0364)	
Ever	-0.0350	(.0348)		-0.1407	(.0554)	*	0.0012	(.0463)	
HourGapP	-0.0208	(.0009)	***	-0.0218	(.0011)	***	-0.0180	(.0019)	***
WorkAtyp	-0.0952	(.0244)	***	-0.0569	(.0346)		-0.1038	(.0350)	**
PartTime	-0.0517	(.0322)		-0.0252	(.0555)		-0.0442	(.0416)	
	3154			1997			1157		
R2	0.5225			0.4935			0.4490		
	71.42	***		41.52	***		20.62	***	

# Regression 7: Health and Wage

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Health	-0.0180	(.0109)	+	-0.0322	(.0136)	*	-0.0015	(.0179)
Smoke	0.0036	(.0251)		-0.0134	(.0250)		0.0700	(.1971)
SmokeM	-0.0177	(.0226)		-0.0359	(.0226)		0.0500	(.1464)
Drink	0.0317	(.0245)		0.0107	(.0288)		0.1170	(.0792)
DrinkM	0.0322	(.0189)	+	0.0186	(.0263)		0.0327	(.0277)
Sport	0.0801	(.0242)	**	0.0849	(.0272)	**	0.0853	(.0512)
SportM	0.0271	(.0250)		0.0343	(.0282)		0.0198	(.0520)
Heal	0.0464	(.0162)	**	0.0545	(.0194)	**	0.0334	(.0284)

# Summary

( )

, 가

가 /

가 , ,

가

가 : (0) (+) (-) (0)

가

(+), (0), (0), (+)

# Research Directions

## Measure of Health Status

Is subjective health status a right measure?

Subjective vs. Objective health status

## Effects of Health Status

Not contemporaneous But Dynamic

$$H(t) = H(t-1)(1-d) + I(t-1)*r$$

$$I(t) = i(S, D, E; X(t)) \quad (S, D, E) = f(\text{money, time; } Z(t))$$

$$Ke(t) = K(t)H(t)$$

$$LFP(t) = l( \dots, Ke(t), (S, D, E))$$

$$W(t) = w( \dots, Ke(t))$$

## Effects of Labor Market Performances on Health Status

## Research Directions

Effects of Labor Market Performances on Health Status

$$H(t) = H(t-1)(1-d) + HI(t-1)*r + A(\text{LFP, Wage, ..})$$

$$I(t) = i(S, D, E, A( ..); X(t)) \quad (S, D, E) = f(\text{money, time; } A( ..), Z(t))$$

$$Ke(t) = K(t)H(t)$$

$$\text{LFP}(t) = l( .., Ke(t), (S, D, E))$$

$$W(t) = w( .., Ke(t))$$

Health, Health Related Behavior, Labor Market Performance and further

Health Insurance

Intergenerational Private Transfer

Long-term care system

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