#### ORIGINAL PAPER

Lisa A. Cameron · Deborah Cobb-Clark

## Do coresidency and financial transfers from the children reduce the need for elderly parents to works in developing countries?

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10~M_{\odot} 2005 / A _{\odot} : 11 J/ _{T} 2006 / _{\odot} : 3 N _{\odot} 1 , _{T} 2006 / _{\odot} 2006
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Abstract D property of the first property of

Keywords I  $_{\Gamma}$   $_{\Gamma$ 

#### 1 Introduction

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### 2 Existing literature and the Indonesian context

 $M_{\Gamma}$   $M_{\Gamma}$ 

 $(B \mid_{\Gamma} 1974, 1991), A \mid_{\Gamma} 1985) A \mid_{\Gamma} 174 \mid_{\Gamma} 17$ 

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## 3 The Indonesian family life survey

 $\mathbf{r}$  . I.  $\mathbf{r}$  .  $\mathbf{r}$  . The 2,625 control of the first the f 1,891  $\rightarrow$   $\Gamma$   $\rightarrow$   $\Gamma$ I Mas will a so was for the the form do a district the

r the stade of the state of the Ara Mr. Proper and a

1.507 were it is a factor of the day of the second Drug , The day to the termination of the second day 

 $\frac{1}{2} \left( \frac{1}{2} + \frac{1$  $A_1, \dots, A_{r-1}, \dots, A_{r-1},$  $\frac{\partial \mathbf{r}}{\partial \mathbf{r}} = \frac{\partial \mathbf{r}}{\partial \mathbf{r}} = \frac{\partial$ 

IFL  $A_1$ ,  $A_2$ ,  $A_3$ ,  $A_4$ ,  $A_4$ ,  $A_5$ ,  $A_5$ ,  $A_7$  $A_{\mathbf{r}}$  $\mathcal{L}_{\Gamma}$  20  $\mathcal{L}_{\Gamma}$   $\mathcal{L}_{\Gamma}$  . In  $\mathcal{L}_{\Gamma}$   $\mathcal{L}_{\Gamma}$  , if  $\mathcal{L}_{\Gamma}$  ,  $\mathcal{L}_{\Gamma}$  ,  $\mathcal{L}_{\Gamma}$ The last with the first water in the first water in the second of the se man set A is a set of the set of I have the state of the state o

An Ada Anton his a to the control of the control of the Also and the distriction of the plant of the plant of the same where so it was the last of the solution of th The second of th رُ مِنْ اللَّهِ مِن at appropriate of the open of a state of the The world of the form direction of the contract of the distance of the distanc As a factor of  $A_{r}$  ,  $A_{r}$ war and the state of the state  $I_{\Gamma}$  ...,  $I_{$ 

<sup>&</sup>lt;sup>16</sup>I ... 1993.

Table 1 L	1 <sub>11</sub> 1	, e <b>∮</b> = e	Ι	<b>4</b> ,	) · (I)
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L , I <sub>II</sub> I (N=2,625)	F <sub>1</sub> , (%)
Line was deline was	62.51
Line in the second (contract)	7.60
Liberton ( Contract of the con	9.02
$\mathbf{L}_{(i)}$ . From $i$	13.67
$\mathbf{L}_{\mathbf{L}_{\mathbf{L}_{\mathbf{L}_{\mathbf{L}}}}} = \mathbf{J}_{\mathbf{L}_{\mathbf{L}_{\mathbf{L}_{\mathbf{L}}}}}$	7.03

A  $r_r \sim r^d$ ,  $d \sim r_r \sim r^{-r}$ ,  $r \sim r^{$ 

A, 2 m 1 m 1 lar A, a reflection of the object of the obje

			$\mathbf{M}_{\mathbf{p}}$		
	Crw		Crv		
	N		Ŋ		
M4. 4	217.2	160.0	186.2	185.4	
restate to the total (%)	70.2	52.9	66.6	48.9	
M I = M I	35.6	6.8	28.2	9.9	
$MA = \sqrt{MA} =$	115.5	34.9	33.8	16.9	
[···[·································	55.6	39.0	83.4	72.0	
$M_{I_{r-1}}$	17.6	13.4	34.0	30.3	
$MA_{1}$ , $I$	31.6	34.4	40.1	42.1	

or segen was deeper I do do do indeed to be the segender.

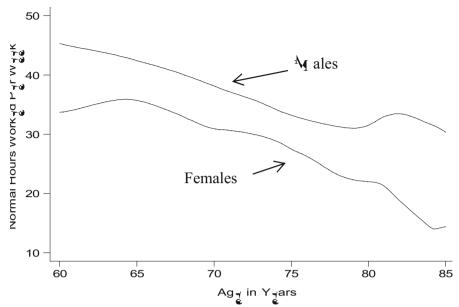


Fig. 1  $U_{\cdot,\cdot}$   $\uparrow_{\Gamma}$   $\uparrow_{\cdot,\cdot}$  , A A  $\downarrow_{\cdot}$   $\downarrow_{\Gamma}$ 

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## 4 The empirical framework

The state of the s

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$$LS_i^p = \max(\beta_{0n} + \beta_{1n} \mathbf{Z}_i^p + \gamma_{1n} TR_i + \varepsilon_{1i}, 0) \quad \text{if } C_i = 0$$
 (1)

$$LS_{i}^{p} = \max \left( \beta_{0n} + \beta_{1r} Z_{i}^{p} + \beta_{2r} Z_{i}^{CC} + \gamma_{1r} TR_{i} + \varepsilon_{2i}, 0 \right) \quad if \ C_{i} = 1, \tag{2}$$

 $\dots$   $_{r}$  E . 14.  $\dots$  24 $_{r}$   $\dots$  4.  $\dots$  5.  $\dots$  4.  $\dots$  5.  $\dots$  6.  $\dots$  7.  $\dots$ G. A. G. T. C. T. C. T. T. T. T. T. C. T.

of the form of the state of the

$$TR_i = \max(\pi_{on} + \pi_{in}Z_i^{NC} + \pi_{2n}Z_i^P + u_{1i}, 0)$$
 if  $C_i = 0$  (3)

$$TR_i = \max\left(\pi_{or} + \pi_{ir}Z_i^{NC} + \pi_{2r}Z_i^P + \pi_{3r}Z_i^{CC} + u_{2i}, 0\right) \quad \text{if } C_i = 1, \tag{4}$$

and a first of the second of the first of the first of the second of the

$$C_i^* = \eta_0 + \eta_1 Z_i^P + \eta_2 Z_i^C + \eta_3 H_i + \nu_i$$
 (5)

$$Ci = 1 \text{ if } C_i^* > 0$$
  
= 0 if  $C_i^* \le 0$ 

#### 4.3 L

The first property of the second of the seco

#### 4.4 E , A . .

$$\begin{pmatrix} \nu_i \\ u_i \\ \varepsilon_i \end{pmatrix} \sim N \begin{pmatrix} 0 & 1 & \sigma_{vu} & \sigma_{v\varepsilon} \\ 0 & \sigma_u^2 & \sigma_{u\varepsilon} \\ 0 & \sigma_\varepsilon^2 \end{pmatrix},$$

## 5 The effect of coresidency and transfers on labour supply

. The context of the property of the property

<sup>21</sup> Transport of the property o

## 5.1 . M. Ir I. M. V. I.

Table 3 D , r | A ,

	C <sub>r</sub>		N , -, r	11	C <sub>r</sub>		N r	17
	<u> </u>		- I		M (N=	407)	M . (N=	302)
	(N=418)	)	(N=302)	)				
$I_{\Gamma}$ $I_{\Gamma}$ $I_{\Gamma}$								
<b>r</b> 4 ₱- r ( 000)	-0.001	-0.19	-0.017	-1.94	-0.007	-0.80	-0.042	-0.54
c I had	1.592	1.47	0.733	0.26	0.024	0.02	9.365	0.49
( 000,000)								
A ( 000,000)	-0.002	-0.08	-0.005	-0.06	0.043	1.13	-4.722	-0.62
Ar Ar Ard are								
A	-0.653	-3.35	-0.447	-1.69	-1.413	-5.47	-1.468	-6.73
Et I a.								
$\mathbf{r}^{\mu} \mid \mathbf{A}_{\mathbf{r}}$	0.520	0.26	2.309	0.79	-4.046	-1.22	-5.065	-1.81
$\mathcal{A}_{\Gamma}$	4.481	0.96	-17.962	-2.32	-8.175	-1.38	-11.950	-2.14
M <sub>II</sub> ,	3.083	1.86	-1.306	-0.48	5.683	1.06	7.656	1.65
$\mathbf{D}_{\mathbf{A}}$	-6.748	-2.32	-13.560	-2.62	-20.819	-3.48	-6.074	-1.08
Tr.	-0.216	-0.12	5.866	1.93	5.307	1.70	0.889	0.29

## 6 The interdependencies between various forms of old-age support

## 6.1 C<sub>T</sub> ... 1 ... I ... 1 ... r

The state of the s

 $<sup>\</sup>frac{27}{10}$  in  $\frac{1}{10}$  is a  $\frac{1}{10}$  from  $\frac{1}{10}$  in  $\frac{1}{10}$ 

,  $|\mathcal{A}_{\mathbf{II}}|$  ,  $|\mathcal{A}_{\mathbf{I}}|$  ,  $|\mathcal{A}_{$ english at a solg on I a south the life of the 

And Art (r) a Few by restriction of the restriction The last of the state of the st were and a second of the secon man all har all a second a second as a  $\mathcal{A}_{\Gamma}$ ,  $\mathcal{A}_{\Gamma}$ The transfer of the Articles of the second of the second super day of the parties of a state of the first the total

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I wrate the recommendation of the little of the contraction of The board of the hours of the board of the second of the s The day is a decrease to be at the off the law of In The state of the state of the flower of the state of the

grant to distribute a large to the state of Fig. 1. Ad  $_{1}$   $_{2}$   $_{3}$   $_{4}$   $_{5}$   $_{7}$   $_{1}$   $_{2}$   $_{3}$   $_{4}$   $_{5}$   $_{5}$   $_{7}$   $_{7}$   $_{7}$   $_{7}$   $_{8}$   $_{7}$   $_{7}$   $_{8}$   $_{7}$   $_{8}$   $_{7}$   $_{8$ 

<sup>11</sup> r 1ron our has been

	N=7	720)	M = (N=709)	9)
	M <sub>r</sub> , A,	, t 1 a a	M <sub>r</sub> , A, #	, t 1 a a
1 <sub>r</sub> , , ', , ,				
( 000,000)	-0.096	-3.71	-0.022	-1.16
A ( 000,000)	-0.001	-1.91	0.001	1.39
Ar Ard . ris a				
A	-0.011	-3.41	-0.001	-0.16
M <sub>II</sub> ,	-0.067	-1.57	-0.005	-0.08
D. A.	0.083	1.24	-0.046	-0.50
Tilde of day.	-0.029	-0.58	-0.018	-0.42
Ar / rate of the	-0.074	-0.72	0.008	0.09
Tr.	-0.083	-1.73	-0.028	-0.54
r in the last				
<b>#</b>	-0.068	-1.57	-0.140	-2.17
$G \vdash_{\mathbf{I}}$	0.037	0.21	-0.109	-1.04
T <sup>3</sup>   <b>4</b> ,	-0.100	-1.40	-0.084	-1.14
Corr / Art or o				
M <sub>III</sub>	-0.002	-0.17	0.016	1.53
N . I Im	0.150	6.45	0.177	8.69
AT IT Am.	0.037	2.61	0.003	0.20
rodr of doc	-0.023	-0.93	-0.054	-2.16
$\mathbf{L}[A_{\mathbf{r}}] = \{A_{\mathbf{r}}\}$				
A rd ( 000,000	0.036	1.73	0.080	3.80

6.2 respectively.

1988), it does not be a second of the second

 $F_{i}A_{ij}$ ,  $F_{i}$ ,  $F_{i$ 

Table 5  $_{\mathbf{r}}$  /  $_{\mathbf{r}}$  ( .000)  $_{\mathbf{r}}$  | ...  $_{\mathbf{r}}$  ...  $_{\mathbf{r}}$  ...  $_{\mathbf{r}}$  /  $_{\mathbf{r}}$  | ...  $_{\mathbf{r}}$  ...  $_{\mathbf{r}}$ 

	$C_{\mathbf{r}}$		N r		$C^{\iota}$ .		N , -, r	12	
					M (N:	M = (N=407)		M (N=302)	
	(N=418)	3)	(N=30)	2)	`		`	ĺ	
$I_{\Gamma}$ , $I_{\Gamma}$ , $I_{\Gamma}$									
( 000,000)		1.95	105.4	2.49	51.8	2.56	37.6	0.91	
A ( 000,000)	1.9	3.51	2.6	1.82	-0.1	-0.12	2.4	1.32	
$A_{\mathbf{T}}$ , $A_{\mathbf{b}}$ , $A_{\mathbf{T}}A$ , $\mathbf{T}^{\mathbf{b}}$ , $a$									
A	0.8	0.23	3.1	0.69	-10.4	-1.94	-3.1	-0.66	
Er da.									
$r \mid A_{\Gamma}$	88.0	2.04	8.7	0.12	130.6	2.36	-146.8	-2.52	
$\mathcal{A}_{\mathbf{r}} / \mathcal{A}_{\mathbf{r}}$	313.3	2.92	-376.4	-2.41	6.4	0.05	-222.0	-1.77	
M <sub>rr</sub> ,	-108.7	-2.74	-175.7	-2.72	-2.0	-0.02	15.4	0.15	
D. 4.	-1.5	-0.03	-19.1	-0.18	-74.9	-0.56	7.2	0.06	
T4,	83.5	2.14	-46.0	-0.74	125.0	2.10	119.5	1.62	
Take of the late	-2.4	-0.14	22.1	0.89	28.8	1.09	13.1	0.56	
I I'r I'r I'r I'r I'r I'r I'r I'r I'r I'									
<b>#</b>	7.9	0.19	-71.1	-1.17	135.2	1.54	-8.2	-0.08	
$G \vdash_{\mathbf{r}} \vdash$	-310.5	-1.69	559.9	2.35	-86.5	-0.53	-43.6	-0.28	
	-41.4	-0.58	-204.2	-1.94	50.3	0.53	1.2	0.01	
Cr who was a state	L) -)								
M <sub>III</sub> ,	21.6	0.49			55.1	0.84			
N . I I	-5.9	-0.19			-213.8	-4.97			
AT IT A.	-13.6	-0.43			-27.2	-0.57			
rula - t l a.	79.9	1.80			179.3	1.86			
N T W. Mer.	/ <sub>r</sub> / , <sub>r</sub> , ,	1							
M <sub>rr</sub> ,		6.45	63.2	4.09	49.5	2.85	33.9	2.18	
$N = I_{II}$	52.0	1.71	164.3	3.84	-23.5	-0.65	-53.7	-0.97	
$\mathcal{A}_{\mathbf{r}} \longrightarrow \mathcal{A}_{\mathbf{r}}$	2.6	0.19	2.2	0.10	29.8	1.13	70.7	3.09	
rodr of doc.	42.1	1.43	62.2	1.69	98.6	1.81	52.6	1.29	
$\mathbf{C} = \mathbf{A} \mathbf{A}$	-59.4	-0.24	291.0	0.87	1,079.2	2.54	166.5	0.44	

#### 7 Conclusions

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Acknowledgements  $A \cap A_{r} \cap$ 

## Appendix 1

Table 6 1,1 1

	Br. i de .
D	
C <sub>r</sub> · · · ·	E (A) . If A <sub>I</sub>
$M_{r,r}$ $T_{r,h}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
6 I 1 2 1	the sound of and did some state
Α .	( or of the result )  A construction of the result ( or one or description of the result of the resu
A	$A_{i,k}(A_k, A_{i,k}) = \sum_{i \in A_i} A_{i,k} + \sum_{i \in A_i} A_{i,k$
M <sub>II</sub> , ,	$D: \left\{ \begin{array}{ccc} I_{\mathbf{r}} \mathcal{A}_{\mathbf{r}} & & & \\ & I_{\mathbf{r}} \mathcal{A}_{\mathbf{r}} & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ &$
D. A.	Edde & Received & Marine Asset in the first in the second of the second
Ext 1 de .	$\mathbf{D} \vdash \vdash \mathcal{A}_{\mathbf{p}} \mathcal{A}_{\mathcal{A}}  \mathbf{p} \not = \mathbf{A}_{\mathcal{A}}  \mathbf{p} \not= \mathbf{A}_{\mathcal{A}}$
1 r	$E_{\mathbf{r}} = A(x_1, x_2, \dots, x_n) A_{\mathbf{r}} = \mathbb{R}^n \times \mathbb{R}$
T/,	$E A_1 = A_1 A_2 A_3 A_4 A_4 A_5 A_6 A_6 A_6 A_6 A_6 A_6 A_6 A_6 A_6 A_6$

Table 6 ( , , , , ; , )

	B≱a, sab :
r in the series	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
t, was parts	e en et la gille en la grece en la mental de grece greche. De la competition de la grece
A rd t r	$A_{\mathbf{r}}$ $A_{\mathbf{r}}$ $A_{\mathbf{r}}$ $A_{\mathbf{r}}$ $A_{\mathbf{r}}$ $A_{\mathbf{r}}$ $A_{\mathbf{r}}$ $A_{\mathbf{r}}$ $A_{\mathbf{r}}$
$C_{i,i+1}  ,  '  \mathcal{A}_{\vec{l}}  ,  _{\vec{l}  i}  ,  \\$	
$\mathbf{M}_{\mathbf{II}}$	$N \longrightarrow I \longrightarrow I_{\Gamma} \longrightarrow I_{\Pi} \longrightarrow I_{\Pi$
N , I III ,	$N \cdot m_T \cdot $
$\mathbf{E}^{\pm} \mathbf{A}_{ab} = \mathbf{A}_{ab} \mathbf{F}^{b}$	$N \cdot m_{T} \cdot m \cdot d_{A} \cdot A_{A} \cdot p_{A} \cdot E_{F} \cdot A_{A} \cdot p_{A} \cdot A_{F} = \dots$ $m_{T} \cdot m_{T} \cdot m \cdot d_{A} \cdot p_{A} \cdot p_{A} \cdot A_{A} \cdot p_{A} \cdot p_{A$

Table 7 MA.  $A_{\Gamma}$  ,  $A_{\Lambda}A_{\Lambda}$  ,  $A_{\Lambda}A_{\Lambda}$  ,  $A_{\Lambda}A_{\Lambda}$  ,  $A_{\Gamma}A_{\Lambda}$  ,  $A_{\Gamma}A_{\Lambda}$  ,  $A_{\Gamma}A_{\Lambda}$  ,  $A_{\Gamma}A_{\Lambda}$  ,  $A_{\Gamma}A_{\Lambda}$  ,  $A_{\Gamma}A_{\Lambda}$ 

	٠, ١,		M ,			
	N r · · · · · · · · · · · · · · · · ·	C <sub>r</sub> (N=418)	-	C <sub>f</sub> (N=407)		
1, 1, 1, 1, 1 / 1, 1						
( . 00,000)	1.270	1.650	1.412	2.757		
A ( 000,000)	3.838	5.255	3.723	7.866		
Ar Ard . ris a						
$A (I_r)$	67.3	65.1	66.9	66.0		
TILL AT THE A SEC.	0.23	0.26	0.55	0.55		
$A_{\Gamma} / A_{\Gamma}$	0.05	0.04	0.07	0.12		
≥ † <b>4</b> de .						
M	0.42	0.46	0.91	0.91		
$\mathbf{D} \hat{\mathbf{I}}_{\mathbf{A}}$	0.09	0.10	0.05	0.05		
ī <sub>n</sub> d,	0.66	0.54	0.74	0.58		
The law law er						
# <u>_</u> =   .,,	0.42	0.31	0.65	0.53		
$G \vdash_{\mathbf{r}} \vdash$	0.01	0.01	0.06	0.10		
Trid.	0.10	0.08	0.19	0.23		
N . L .	0.47	0.60	0.10	0.14		
N r was war . '	(r/ · r · · ·					
M	3.3	2.7	3.3	2.8		
$N = I_{\Pi'}$	0.4	0.3	0.6	0.4		
rildr of do.	2.5	1.7	2.5	1.7		
Ar of Ass.	0.9	1.1	1.1	1.2		
rodr of do.	0.3	0.2	0.3	0.2		
T. P. (In	0.9	0.7	1.0	0.7		

<u>M</u> ,	
	_

Table 8	( - )	a. T	,)
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	Crw		N r		C <sub>T</sub> M (N=407)		N r		
	(N=418)						M (N=302)		
$N : A_{\Gamma\Gamma}$	3.626	0.22	102.731 4.522 22.629	0.17		1.21	77.383		
C	-9.780	-0.04	-408.573	-1.10	19.110	0.05	213.975	0.58	

Table 9 D  $\cdot_{\Gamma}$   $\cdot_$ 

	Cr		N 1		Cr		N r	
	(N=418)		(N=302)		M (N=407)		M (N=302)	
$I_{\Gamma}$ , $I_{\Gamma}$ , $I_{\Gamma}$								
r⁴ r ( ( 000)	-0.001	-0.80	-0.007	-3.37	0.001	0.47	0.003	0.78
e the	2.403	2.04	-0.606	-0.36	-0.300	-0.33	0.087	0.05
( 000,000)								
A ( 000,000)	0.004	0.10	-0.023	-0.45	0.039	1.02	-0.039	-0.68
Ar Ar Ar ar								
A	-0.690	-3.89	-0.462	-2.61	-1.317	-5.84	-1.601	-6.85
Et 1 a								
$r \mid I_{\Gamma}$	0.736	0.37	1.612	0.62	-4.771	-1.75	-4.926	-1.75
$\mathcal{A}_{\Gamma}$	5.687	1.37	-15.148	-2.21	-8.083	-1.64	-11.162	-1.88
$\mathbf{M}_{\mathbf{II}}$ ,	3.642	2.11	-0.440	-0.19	4.617	1.03	8.078	1.62
D. A.	-7.934	-2.46	-12.400	-2.67	-19.682	-3.12	-6.141	-1.02
Tr4)	-0.012	-0.01	5.285	2.10	5.066	1.83	-0.950	-0.29
1 12 1 11 11								
<b>g</b> . =   . , , , ,	18.068	9.29	13.545	5.63	13.342	3.48	18.713	3.75
$\mathbf{G} + \mathbf{r}$	3.624	0.48	16.414	1.56	-6.761	-1.19	-3.610	-0.47
r, 1,	13.131	4.57	19.355	5.24	10.849	2.59	12.535	2.27
Cr was and	11 . 11 . s							
M <sub>III</sub> ,	0.487	0.26			-1.086	-0.43		
$N = I_{\mathbf{II}}$	0.443	0.31			0.138	0.09		
. In the	-2.346	-1.70			-0.503	-0.29		
	-0.932	-0.37			-6.437	-2.04		
C , 1,	32.969	2.74	31.115	2.51	92.827	5.28	119.268	6.71

# Appendix 2 Joint maximum likelihood estimation of the coresidency, transfers and labour supply equations

The state of the s

$$C_{i} = 1 \left( \eta_{0} + \eta_{1} Z_{i}^{P} + \eta_{2} Z_{i}^{C} + \eta_{3} H_{i} + \nu_{i} > 0 \right)$$
  
= 1(\eta Z\_{i} + \nu\_{i} > 0) (7)

Er . . . . . . . . .

$$TR_{i} = \max \left( \pi_{0n} + \pi_{1n} Z_{i}^{P} + \pi_{2n} Z_{i}^{NC} + u_{1i}, 0 \right)$$
  
=  $\max \left( \pi X_{i} + u_{1i}, 0 \right)$  (8)

 $[1,Z_i^P,Z_i^{NC}]$ . F.A.,  $[1,Z_i^P,Z_i^{NC}]$ .

$$LS_i^P = \max \left( \beta_{0n} + \beta_{1n} Z_i^P + \gamma_{1n} T R_i + \varepsilon_{1i}, 0 \right)$$
  
= \text{max} \left( \beta W\_i + \gamma T R\_i + \varepsilon\_{1i}, 0 \right) (9)

 $\mathbf{r} = \mathbf{r} = i \mathbf{r}$  ,  $\mathbf{r} = \mathbf{r} = [1, Z_i^P]$ .

 $A = (1, \dots, A_{+n}, \dots, \prod_{\mathbf{T} \in \mathbf{T}} (1, \mathbf{T} - \mathbf{T}) - A_{\mathbf{T}} - (1, \dots, \mathbf{T}) - A_{\mathbf{T}} - (1, \dots, \mathbf{T}) + (1, \dots, \mathbf{T}) - (1, \dots, \mathbf{T}) + (1, \dots, \mathbf{T}) - (1, \dots, \mathbf{T}) -$ 

$$\begin{pmatrix} \nu_i \\ u_{1i} \\ \varepsilon_{1i} \end{pmatrix} \sim N \begin{pmatrix} 0 \ 1 & \rho_{\nu u_1} \sigma_{u_1} & \rho_{\nu \varepsilon_1} \sigma_{\varepsilon_1} \\ 0 & & \rho_{u_1 \varepsilon_1} \sigma_{u_1} \sigma_{\varepsilon_1} \\ 0, & & \sigma_{\varepsilon_1}^2 \end{pmatrix}$$

of According to the state of a discontinuous for the state of the stat

#### 2.1.1 Coresiding ( $C_i = 1$ )

 $L_{1i} = \Pr\left(C_i = 1\right)$   $= \Pr\left(\nu_i > -\eta z_i\right)$ 

 $=1-\Phi(-\eta z_i)$ 

2.1.2 Non-coresiding, receiving positive transfers and having positive labour supply

$$(C_i = 0, TR_i > 0, LS_i^P > 0)$$

$$L_{2i} = \Pr(C_i = 0, TR_i = tr_i, LS_i^P = ls_i)$$

$$= \Pr(TR_i = tr_i, LS_i^P = ls_i) \times \Pr(C_i = 0 | TR_i = tr_i, LS_i^P = ls_i)$$

$$= \Pr(u_{1i} = tr_i - \pi x_i, \varepsilon_{1i} = ls_i - \beta w_i - \gamma tr_i)$$

$$\times \Pr(\nu_i < -\eta z_i | u_{1i} = tr_i - \pi x_i, \varepsilon_{1i} = ls_i - \beta w_i - \gamma tr_i)$$

$$= \varphi_2(tr_i - \pi x_i, ls_i - \beta w_i - \gamma tr_i) \times \Phi(-\eta z_i | tr_i - \pi x_i, ls_i - \beta w_i - \gamma tr_i)$$

2.1.3 Non-coresiding, receiving positive transfers and not working

$$(C_i = 0, TR_i > 0, LS_i^P = 0)$$

$$L_{3i} = \Pr \left( C_i = 0, LS_i^P = 0, TR_i = tr_i \right)$$

$$= \Pr \left( TR_i = tr_i \right) \times \Pr \left( LS_i^P = 0, C_i = 0 | TR_i = tr_i \right)$$

$$= \Pr \left( u_{1i} = tr_i - \pi x_i \right) \times \Pr \left( \nu_i < -\eta z_i, \varepsilon_{1i} < -\beta w_i - \gamma tr | u_{1i} = tr_i - \pi x_i \right)$$

$$= \phi_2(tr_i - \pi x_i) \times \Phi_2(-\eta z_i, -\beta w_i - \gamma tr_i | tr_i - \pi x_i)$$

2.1.4 Non-coresiding, receiving no transfers and working

$$(C_i = 0, TR_i = 0, LS_i^P > 0)$$

$$L_{4i} = \Pr \left( C_i = 0, TR_i = 0, LS_i^P = ls_i \right)$$

$$= \Pr \left( LS_i^P = ls_i \right). \Pr \left( TR_i = 0, C_i = 0 \middle| LS_i^P = ls_i \right)$$

$$= \Pr \left( u_i = ls_i - \beta w_i - \gamma tr_i \right) \times \Pr \left( u_{1i} < -\pi x_i, \nu_i < -\eta z_i, |\varepsilon_{1i} = ls_i - \beta w_i - \gamma tr_i \right)$$

$$= \phi(ls_i - \beta w_i - \gamma tr_i) \times \Phi_B(-\pi x_i, -\eta z_i | ls_i - \beta w_i - \gamma tr_i)$$

2.1.5 Non-coresiding, receiving no transfers and not working

$$(C_i = 0, LS_i^P = 0, TR_i = 0)$$

$$L_{5i} = \Pr \left( C_i = 0, LS_i^P = 0, TR_i = 0 \right) \\ = \Pr \left( \nu_i < -\eta z_i, \varepsilon_{1i} < -\beta w_i - \gamma t r_i, u_{1i} < -\pi x_i \right) \\ = \Phi_3 \left( -\eta z_i, -\beta w_i - \gamma t r_i, -\pi x_i \right),$$

$$\log L_{i} = 1(C_{i} = 1) \times \log L_{1i} + 1(C_{i} = 0, TR_{i} > LS_{i} > 0) \times \log L_{2i}$$

$$+ 1(C_{i} = 0, TR_{i} > 0, LS_{i} = 0) \times \log L_{3i}$$

$$+ 1(C_{i} = 0, TR_{i} = 0, LS_{i} > 0) \times \log L_{4i}$$

$$+ 1(C_{i} = 0, TR_{i} = 0, LS_{i} = 0) \times \log L_{5i}.$$

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