

# Demography of eldercare transfers in Latin America

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# Eldercare transfers

- Not accounted for if provided by family.
- Usually provided by women—sensitive gender issue.
- Demand will increase with population ageing.
- Future depicted in bleak terms especially for so called “sandwich generations” of women care providers.
- Need of new government transfers.

# Study objective

- To estimate levels and project trends of:
  - Demand for eldercare
  - The burden of eldercare in the population of
  - Latin American countries 1950-2050
- To find sandwich generations

# Data

- Help received in ADL from ageing surveys in LA in 2000-09, people aged 60+
  - 4 SABE (N=6,000) in the South Cone of LA (Bs Aires, Montevideo, Sao Paulo and Santiago)
  - MHAS (N=5,000) in Mexico
  - CRELES (N=3,000) in Costa Rica
  - SABE-Ecuador (N=5,000)
- UN population data for 20 LA countries 1950-2050.

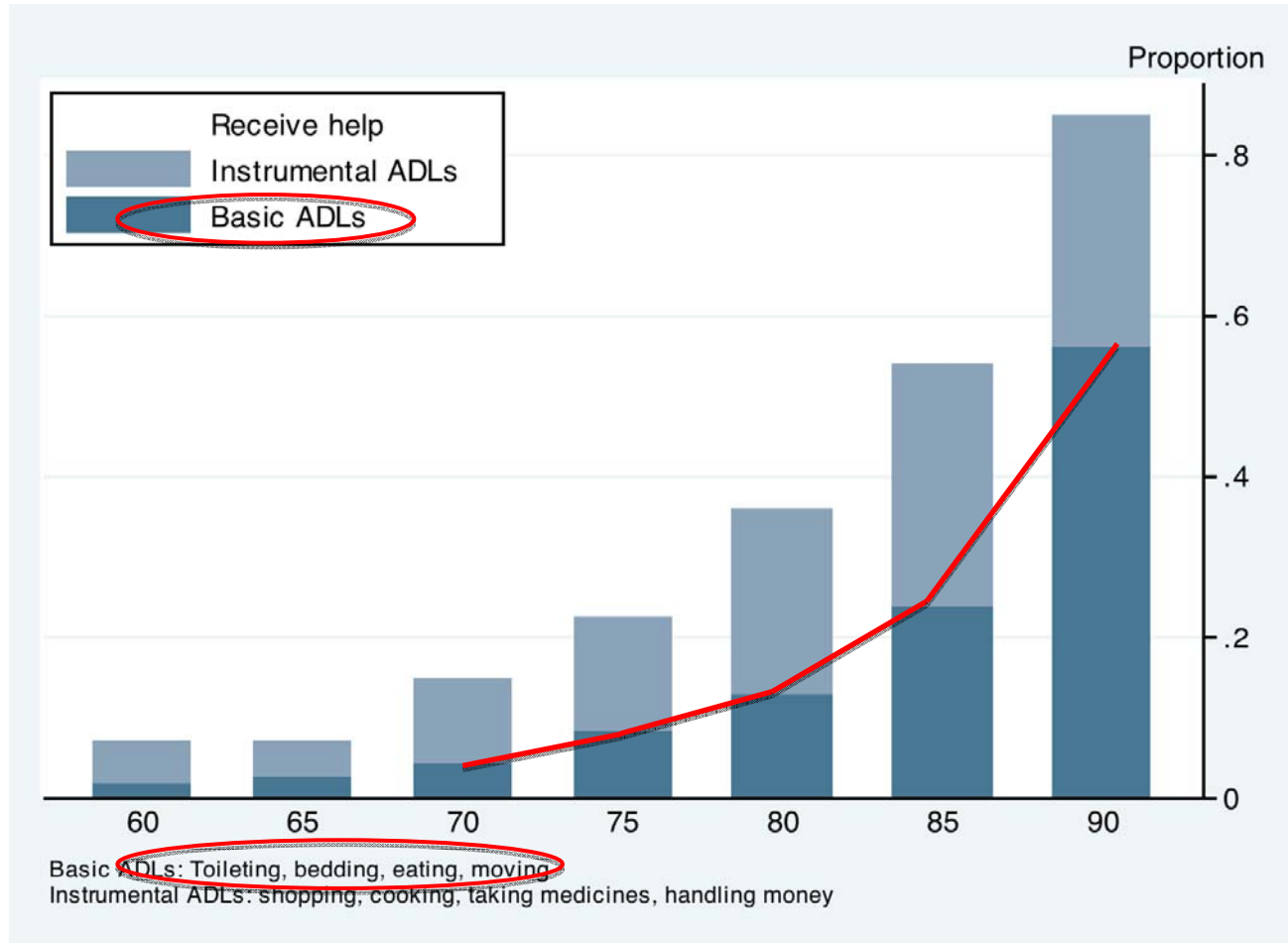
# Analytic approach



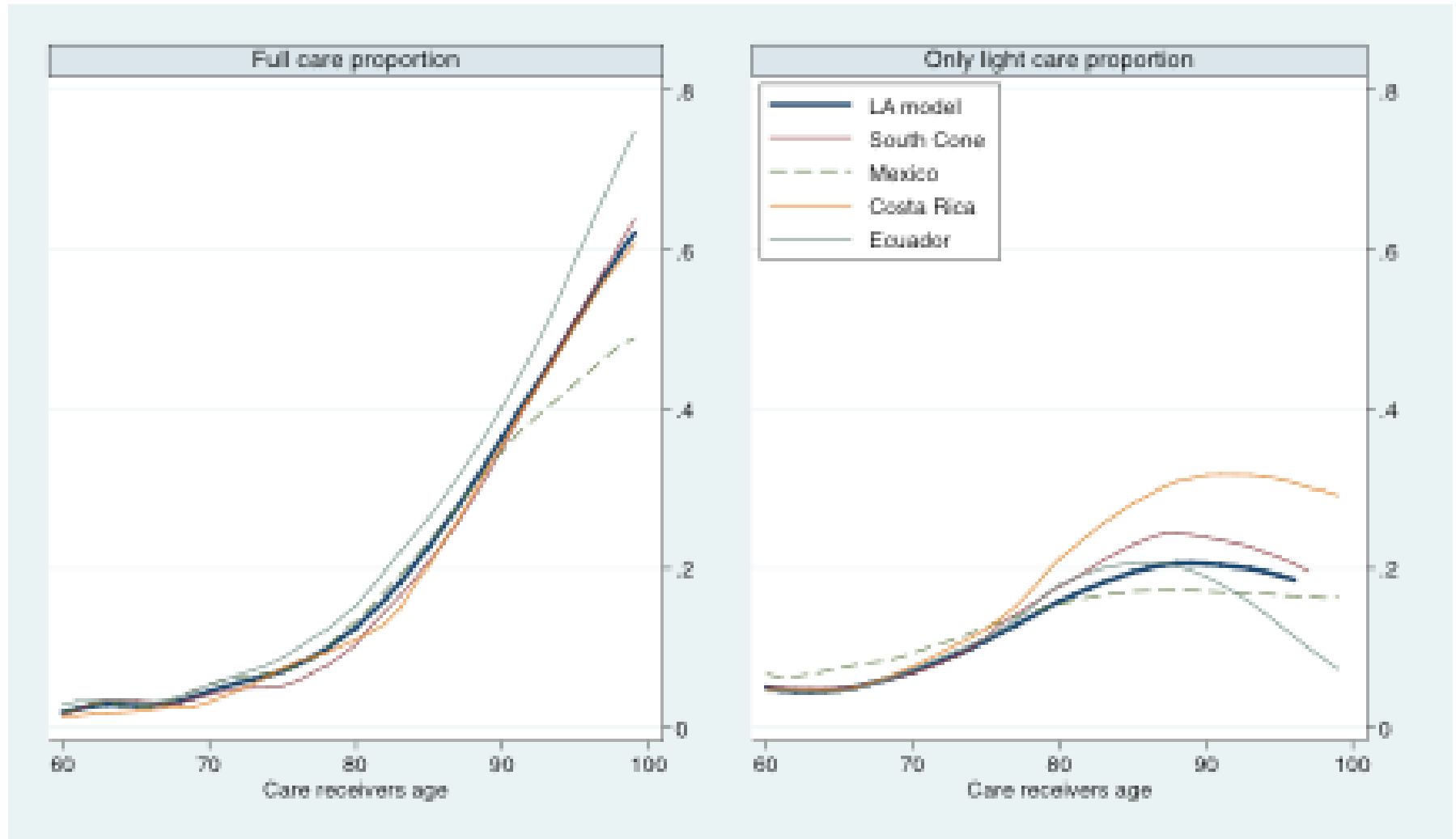
(Note that estimates based on use of time start with the care givers)

# Eldercare = help received in ADLs.

## Costa Rica



# Eldercare-receiving curves



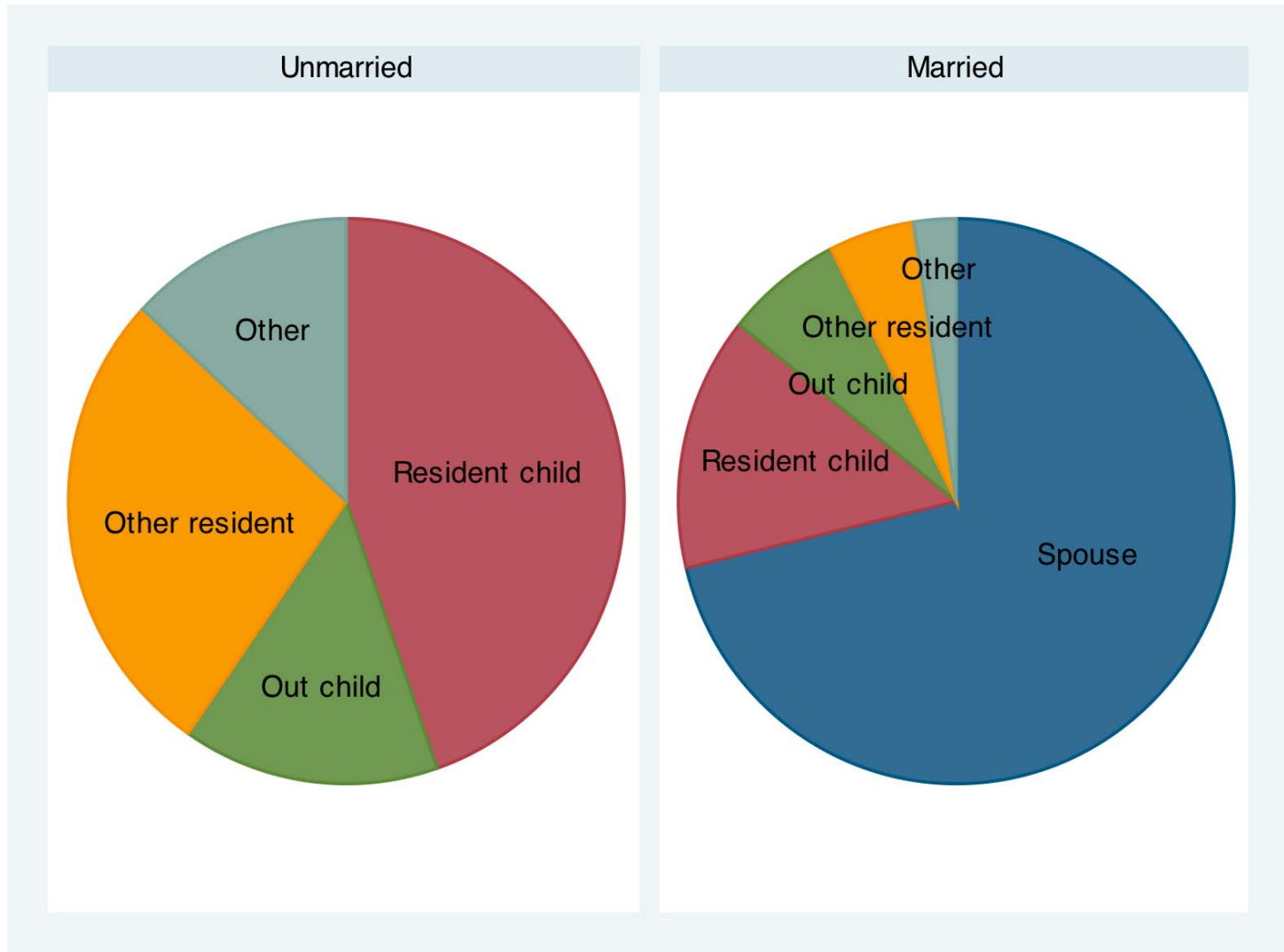
Logistic regression on the probability of being a full and mild care receiver

Variable	Full care OR	Mild care OR
Age	1.072 **	1.096 **
Age square	1.001 **	0.999 **
Male	1.086	0.533 **
Male * Age	0.970 **	1.019 **
Married	0.911	1.121 *
Education 6yrs +	0.718 **	0.416 **
No children	0.940	1.393 **
1-2children	1.000 Ref.	1.000 Ref.
3-4 children	1.113	1.097
5+ children	1.162	1.209 *
South cone	1.000 Ref.	1.000 Ref.
Mexico	1.074	1.111
Costa Rica	1.048	1.206 *
Ecuador	1.422 **	0.485 **

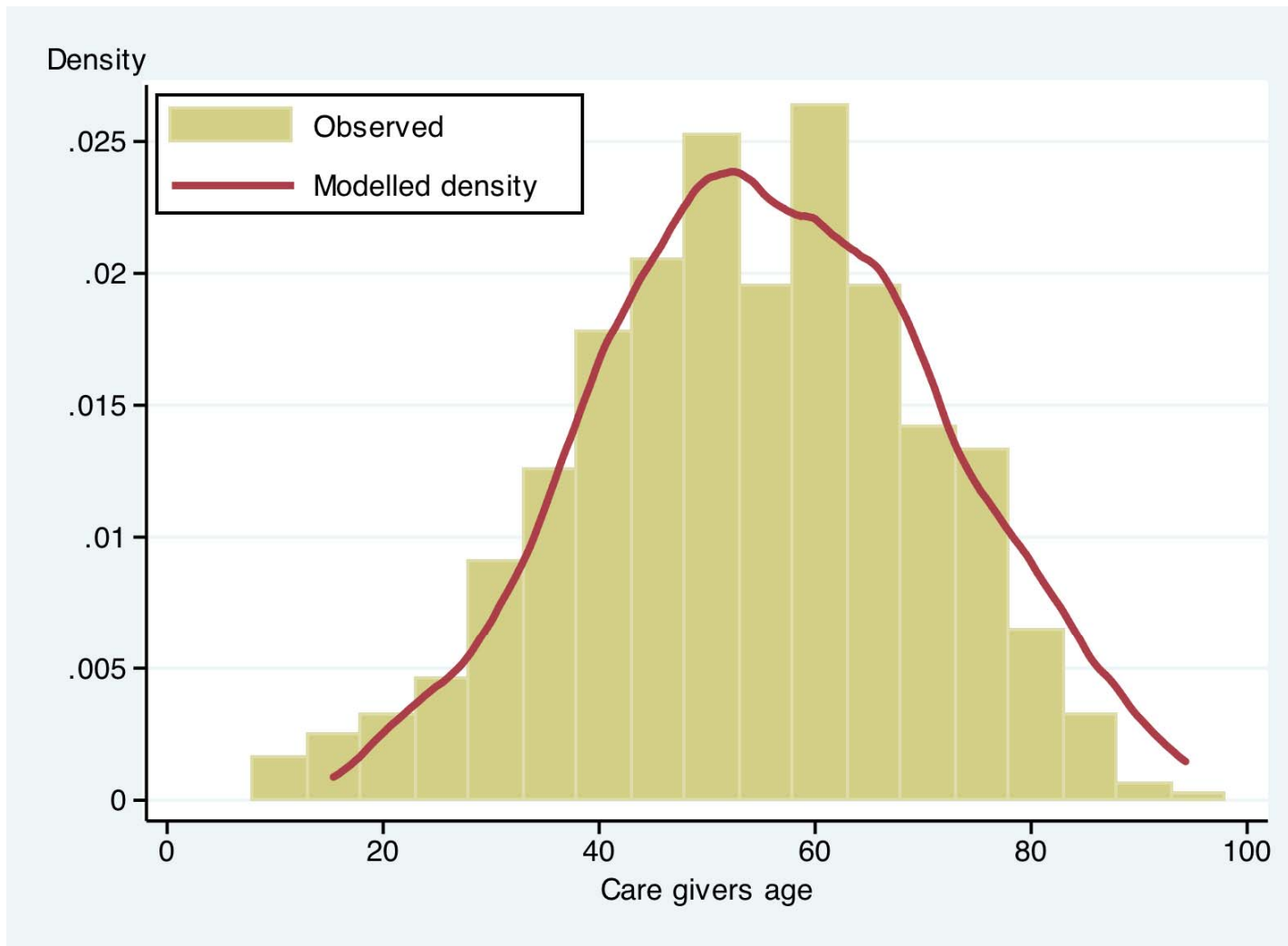
N ~ 18,900 OR=Odds Ratio \*Sig. P<5% \*\*P<1%



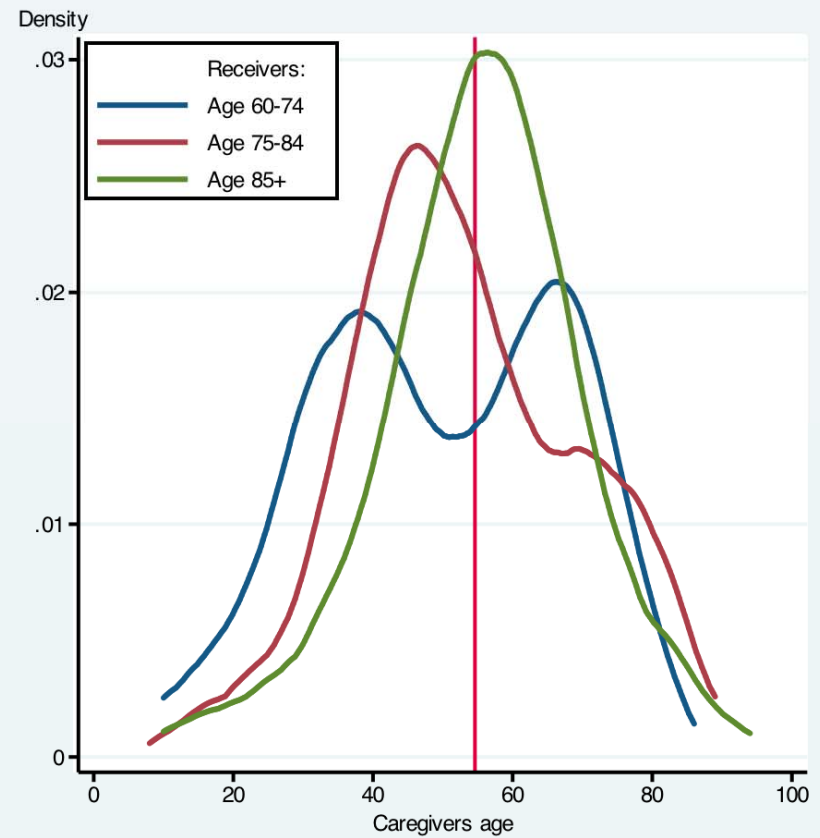
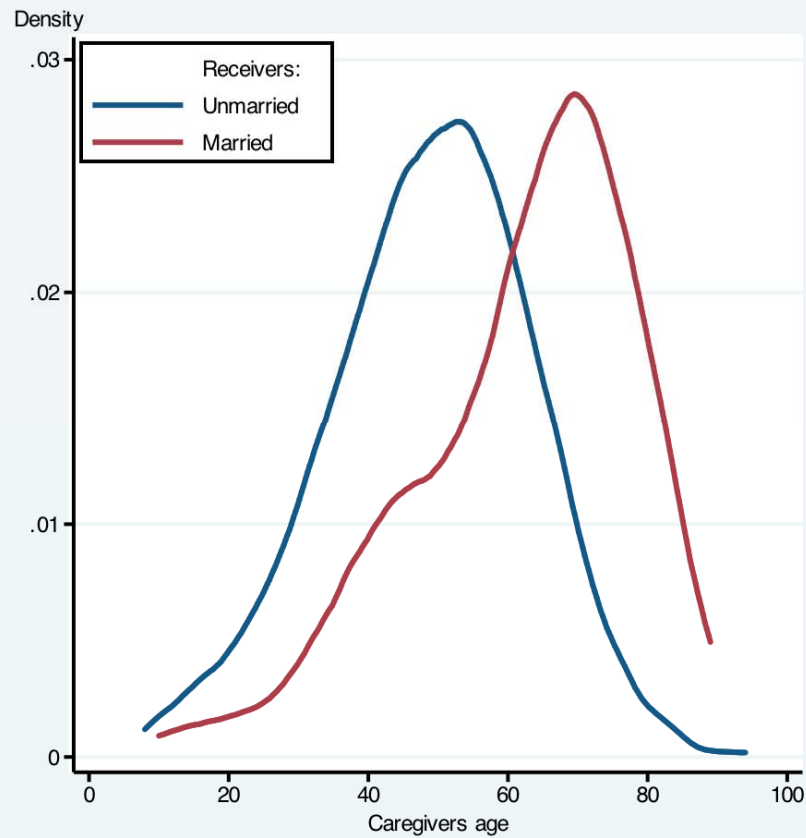
# Who are the caregivers? (80% women)



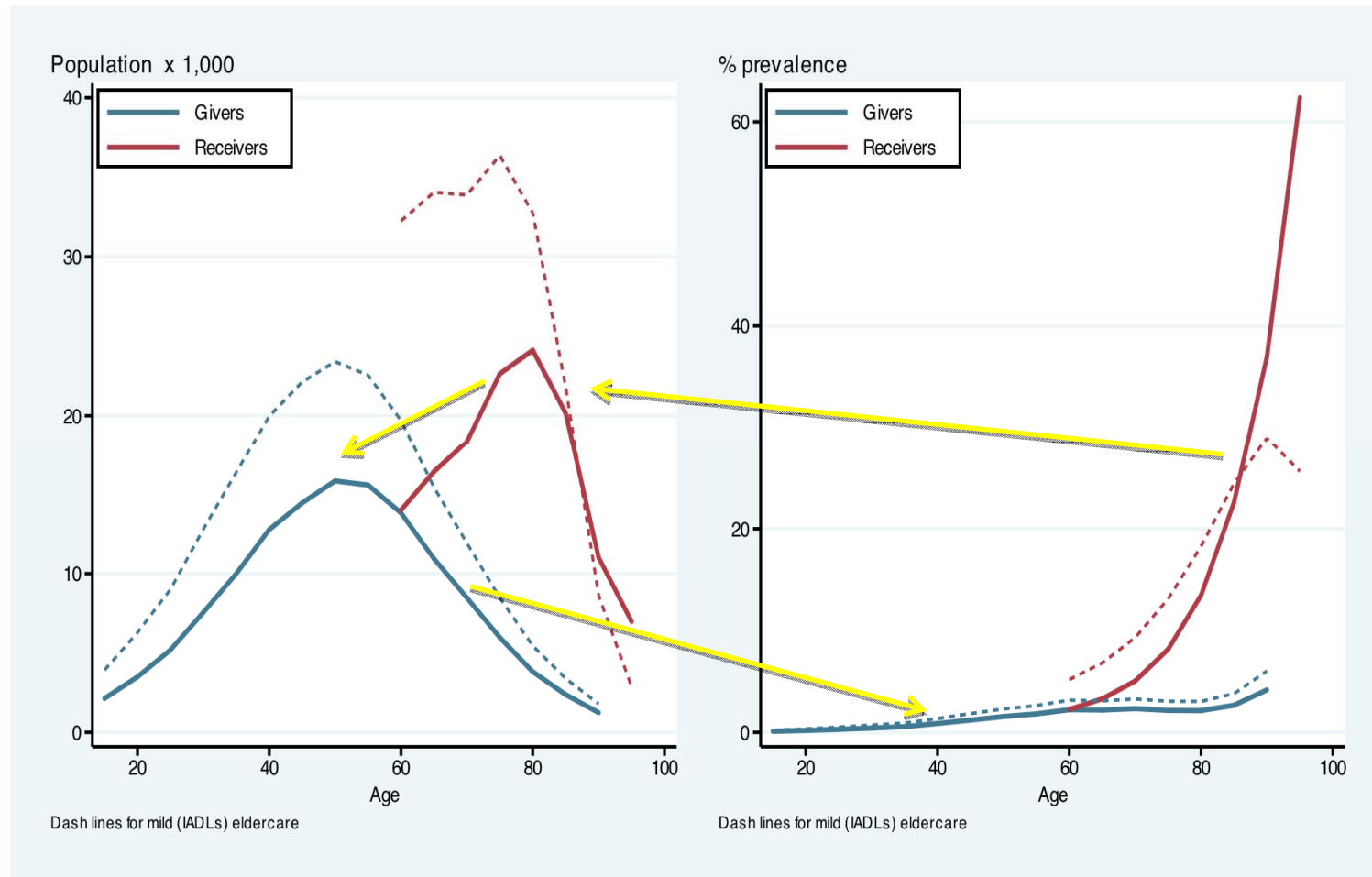
# Distribution of care givers ages



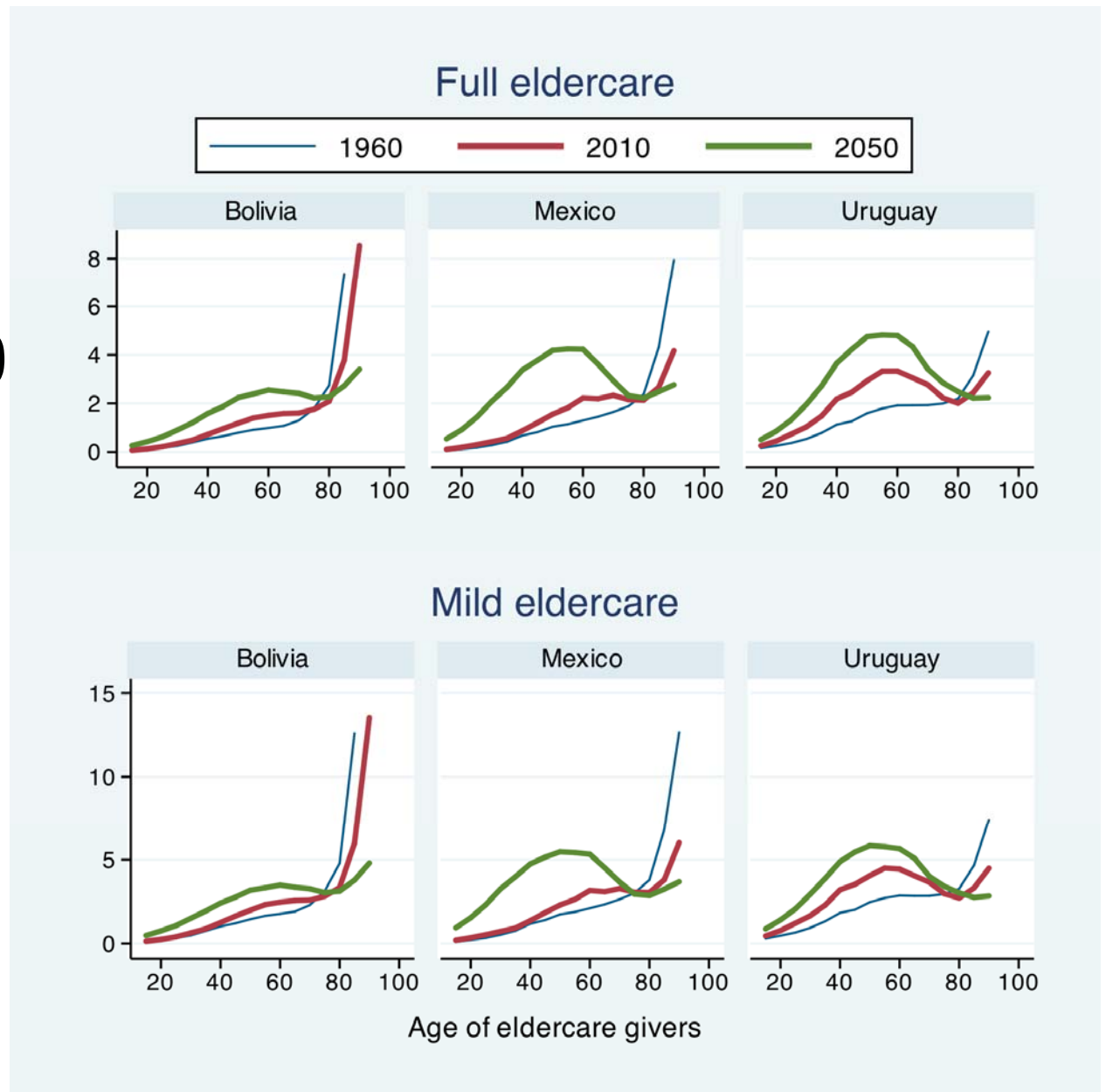
# Care-givers age-distribution variations by characteristics of the care-receivers



# Givers and receivers of eldercare—High inflows, small outflows. Mexico 2010



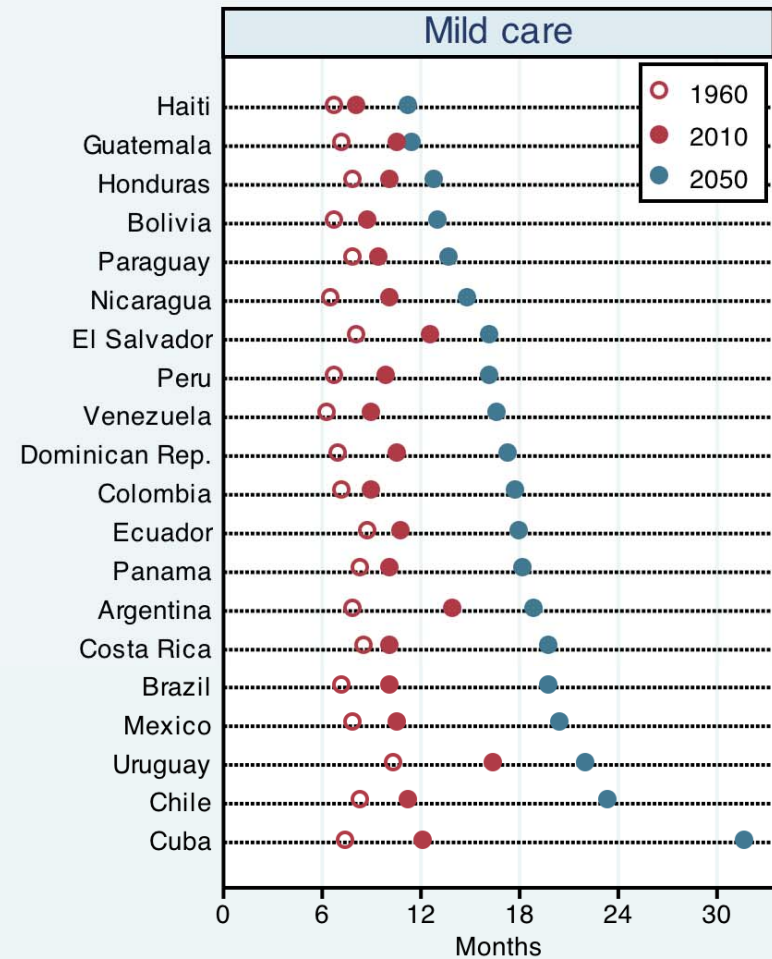
**Eldercare burden: 1960, 2010, and 2050 curves of eldercare giving (%)**



A summary indicator of burden:  
Eldercare Giving Life Expectancy  
or  
Total Care Giving Rate

$$TCGR = \sum_{a=40}^{69} PCG_a$$

# Eldercare giving life expectancy

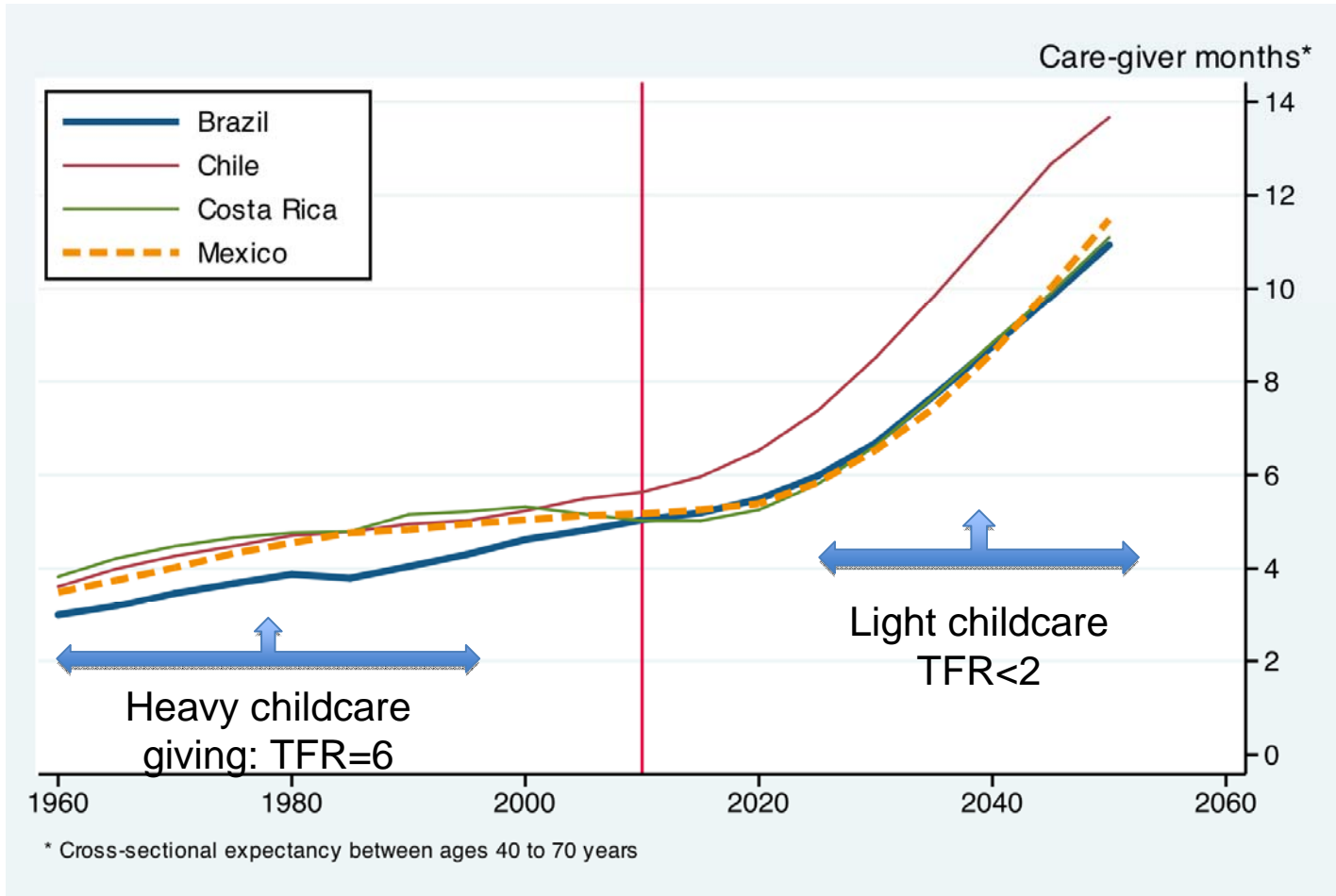


Key assumption: Eldercare will continue being provided unpaid by the family

- But elder care could move to the formal sector, private and public
- This projection may help to formulate policies (or to estimate the market)



# Sandwich generations?



**THANK YOU**

# Appendix: the LA care-receiving/giving matrix

Givers age	Receivers' age							
	60	65	70	75	80	85	90	95
Proportion receivers ->	0.0139	0.0253	0.0456	0.0819	0.1412	0.2346	0.3662	0.5778
<i>Total</i>	<i>1.0000</i>	<i>1.0000</i>	<i>1.0000</i>	<i>1.0000</i>	<i>1.0000</i>	<i>1.0000</i>	<i>1.0000</i>	<i>1.0000</i>
15	0.0288	0.0320	0.0228	0.0180	0.0111	0.0070	0.0021	0.0002
20	0.0391	0.0419	0.0376	0.0290	0.0180	0.0148	0.0055	0.0005
25	0.0579	0.0541	0.0476	0.0462	0.0337	0.0244	0.0134	0.0038
30	0.0751	0.0737	0.0665	0.0594	0.0499	0.0391	0.0270	0.0133
35	0.0909	0.0861	0.0848	0.0794	0.0712	0.0637	0.0457	0.0230
40	0.0965	0.0934	0.0944	0.0949	0.0963	0.0906	0.0824	0.0512
45	0.1076	0.0997	0.1047	0.1023	0.1088	0.1021	0.1015	0.0792
50	0.1108	0.1039	0.1056	0.1069	0.1205	0.1276	0.1320	0.1326
55	0.1061	0.0959	0.1017	0.1054	0.1188	0.1249	0.1439	0.1599
60	0.0914	0.0856	0.0898	0.0939	0.1053	0.1113	0.1354	0.1535
65	0.0711	0.0727	0.0788	0.0801	0.0848	0.0928	0.1067	0.1406
70	0.0527	0.0530	0.0598	0.0655	0.0668	0.0759	0.0864	0.1038
75	0.0329	0.0428	0.0443	0.0499	0.0497	0.0522	0.0554	0.0714
80	0.0234	0.0320	0.0289	0.0321	0.0317	0.0369	0.0342	0.0370
85	0.0095	0.0221	0.0214	0.0243	0.0225	0.0243	0.0190	0.0201
90	0.0062	0.0110	0.0114	0.0129	0.0110	0.0124	0.0093	0.0099