

International Long-term Care Policy Network

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Research on Innovation of Medical-Nursing Combined LTC insurance Mode in Urban China

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Outline





LTC mode in urban China

• Home-based & community care services

covered the vast majority old-age people lack of medical care services & financial support for individuals

• Nursing house

public → good service, not expensive; seldom, hard to get in
private → services not convinced, limited medical care services
somewhat expensive ,about CNY 100~200 per day (Yuan, 2013)

• **Hospital** → medical care insurance covered

over-medication, very expensive, not humanism

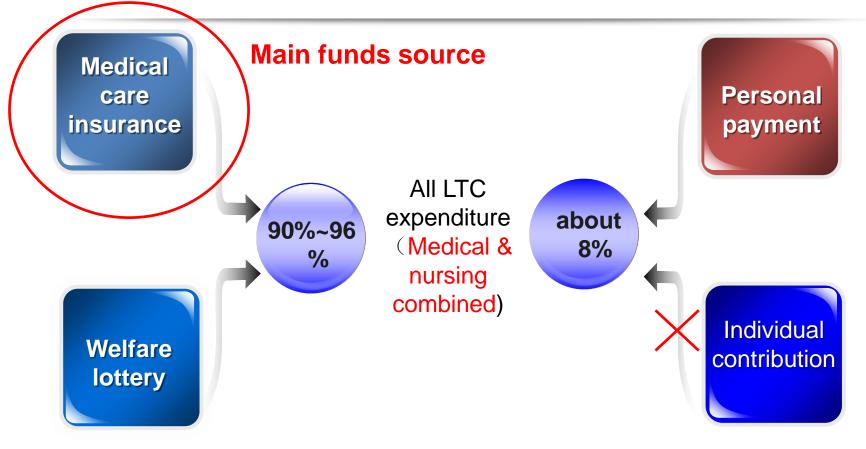
about CNY 450~1800 per day (Yang, 2014)

Call for a new care mode to:



- 1, reduce the individual payment burden
- 2 improve medical care efficiency and reduce wastes of medical resources

LTCI mode in the city of Qingdao



Innovation:

- 1、LTC insurance
- Combined aged care with medical care



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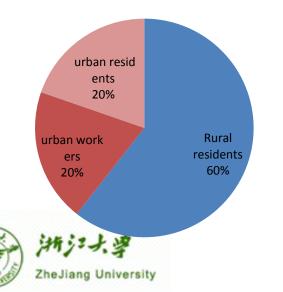
Benefits:

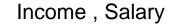
- 1、Personal payment burden↓
- 2、Efficiency of medical care insurance↑
- 3, Promote the private capital to the nursing house

Public medical insurance in China: 3 types

Rural residents:Those who are living in the rural area and don't have steady jobsUrban workers:Those who have steady jobs and have signed formal labor contactsUrban residents:Those who are living in the urban area and don't t have steady jobs

	Number of insured (billion)	Payment ratio of average income (%) (including the subsides)	Government subsidies proportion (%)	Payment age until
New rural cooperative medical care system	0.8	about 3	about 80	dead
Medical insurance system for urban workers	0.26	about 8.5	0	retire
Medical insurance system for urban residents	0.26	about 1~3	about 80	dead





	Average Wage or Income (CNY)			
Rural residents	660			
Urban workers	3897			
Urban residents	2732			

Date source: China civil affairs statistical yearbook 2013

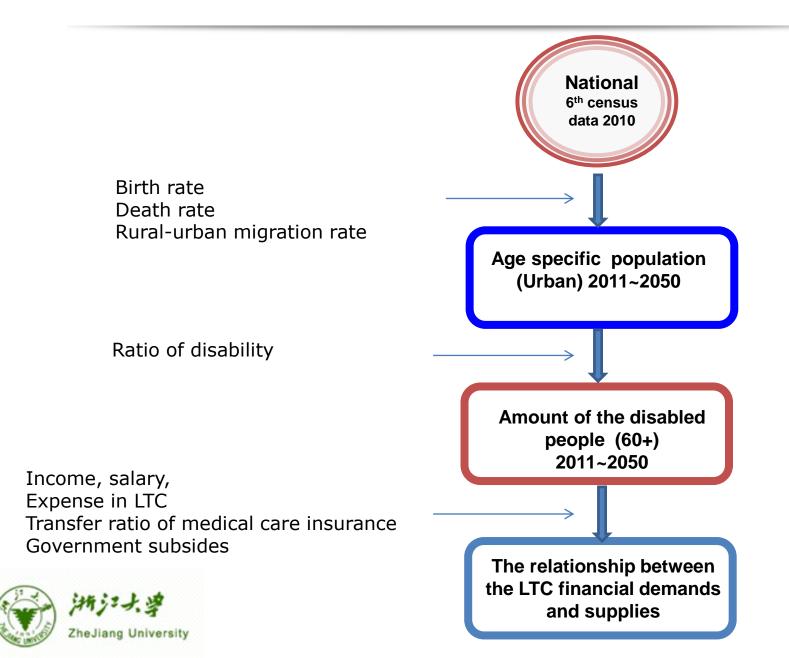
If the LTC insurance mode in Qingdao be extended to the whole urban China:

•How the total LTC costs change as the increasingly rapid aging process?

•Whether the LTCI funds raised from the medical care insurance ,by current transfer ratio , is enough for the LTC costs ?



Research route



Parameters in population projection 2011~2050

Birth: TFR 1.5

(Guo,2012) Sex ratio at birth 112

Life expectancy: Male 74~92

(Li,2009) Female 79~95

Urbanization ratio: (United Nation, 2012)

	2011	2020	2030	2040	2050
Urbanization rate(%)	49.2	61	68.7	73.4	77.3

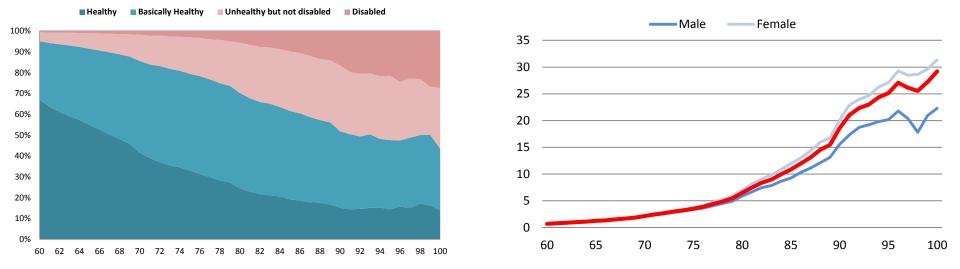


Parameter: ratio of disability& descend rate of disability

 60+:
 80+:

 Disabled:
 2.95%
 Disabled:
 10.45%

 Health state of 60+



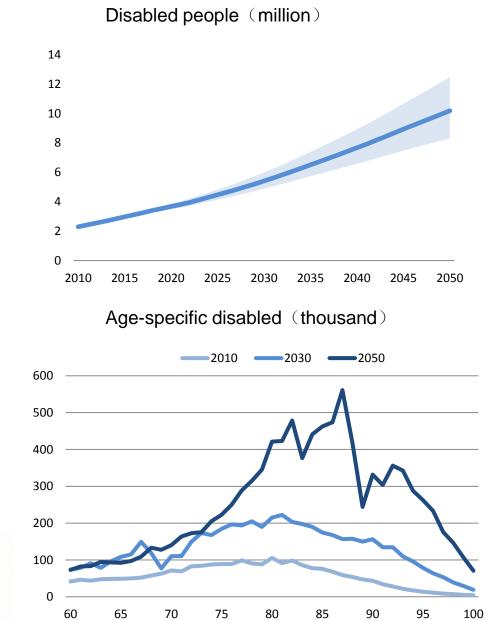
Age specific ratio of disability(%):

Descend rate of disability: 1.5% (Zeng yi ,2006, Manton, 2006, AWON, 2011)

Data source: National 6th census 2010



Population projection result





Costs & funds of LTC in urban china

- According to analysis of the actual data of 2013 in Qingdao:
 Cost per bed is CNY 65 per day(Yang, 2014) → CNY 1965 per month
- AWW is CNY 3557(2013 Qingdao, per month)

\rightarrow : LTC cost to AWW is 55.7%

 LTC funds sources in Qingdao: Urban workers → 0.4% of ASS (Medical insurance transfer ratio) Urban residents → 0.2% of PCDI Welfare lottery subsidies → CNY 20 million per year

$$Costs = PCDI \times exratio \times \sum_{i=60}^{100} P_i$$

RaisedFunds = PCDI \times Rpayratio \times \sum_{i=22}^{100} Pr_i + AWW \times Wpayratio \times \sum_{i=22}^{60} Pw_i

Per capita disposable income (PCDI) Average worker's wage (AWW)



Simulation ~ 2050

Assumptions:

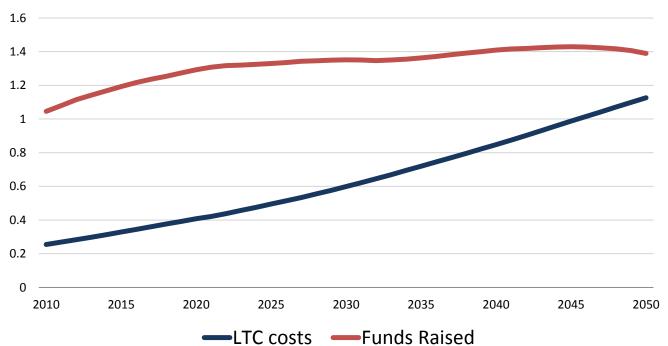
- 1. Cost per bed to AWW \rightarrow 55.7% (as the some as Qingdao)
- 2、 Urban workers payment ratio for medical care insurance →8.5% (by rules) Urban residents payment ratio for medical care insurance →3%
- 3. Population of urban workers to residents \rightarrow 3:4 (We estimate)
- 4 、 AWW to PCDI \rightarrow 5:3 (China civil affairs statistical yearbook 2013)

Scenario:

20% disabled people covered (20% is the current coverage ratio of Qingdao 2013)



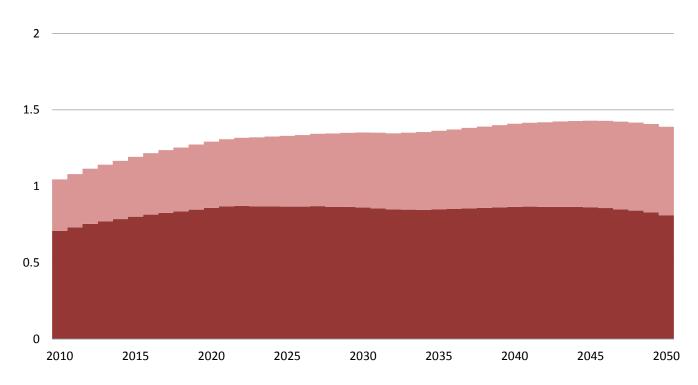
Total LTC costs and funds raised



The costs and the funds raised (Unit: Million*AWW)



Raised LTC funds from workers & residents

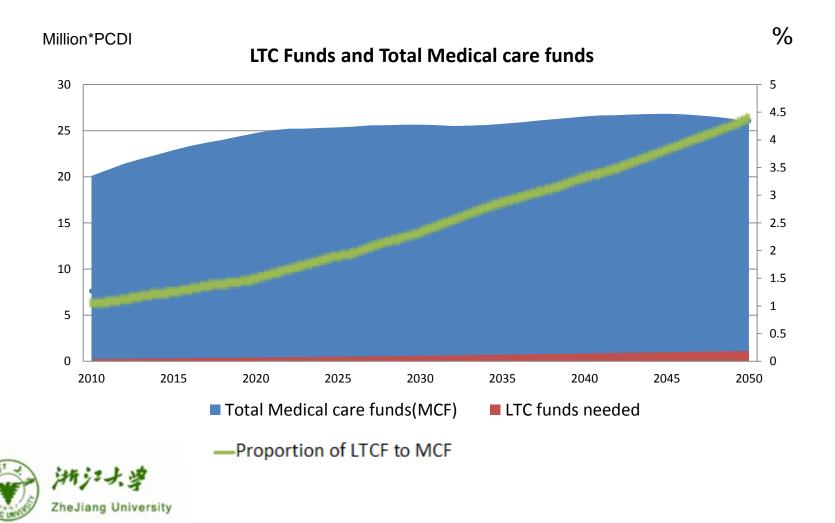


LTC Funds raised by individuals (Unit: Million*AWW)

Urban workers Urban residents



LTC costs and total medical care funds



Conclusion

- Between now to 2050, disabled people will increase by 0.2 million a year
- As the current transfer ratio, the funds from the medical care insurance is enough to cover 20% disabled and the burden of the MCF is less than 5%.
- Acknowledgement:

The coverage ratio 20% may be a little bit small, actually, if the ratio to 50%, the LTC funds will be not enough 20years later.

Parameters here are fixed , just a basically measurement.





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Thank you!

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