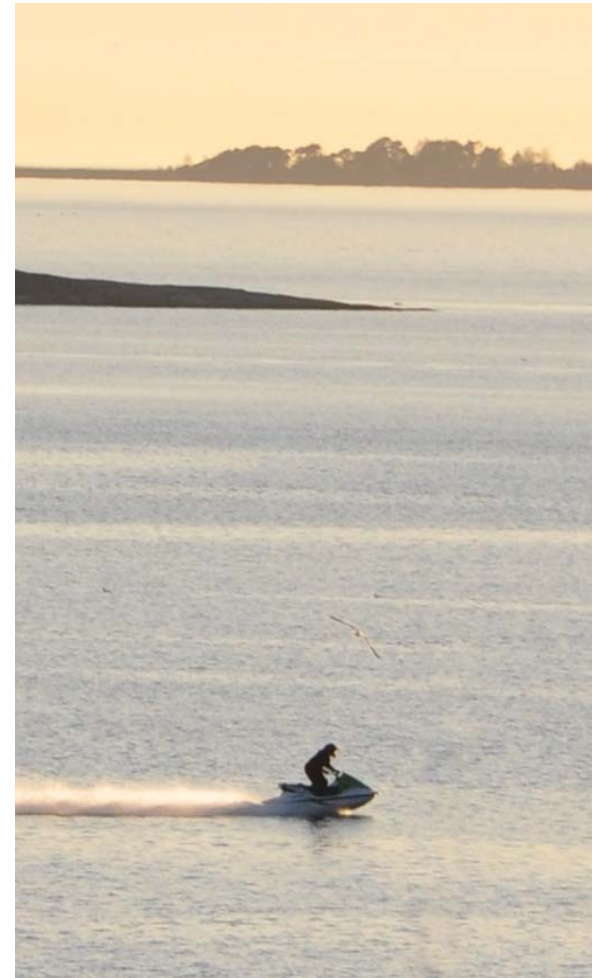
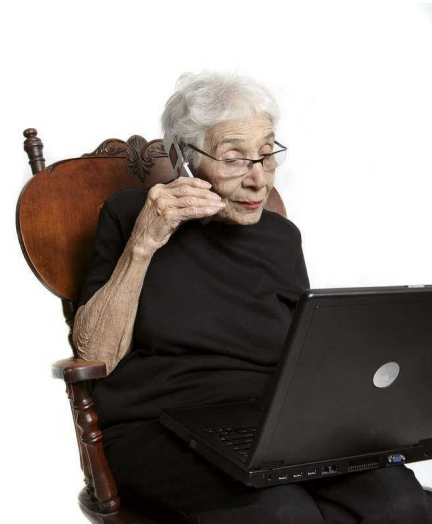


# Impact of co-morbidity on patient's choice of primary health care provider.



Professor Anders Halling  
Research Unit of General Practice,  
University of Southern Denmark





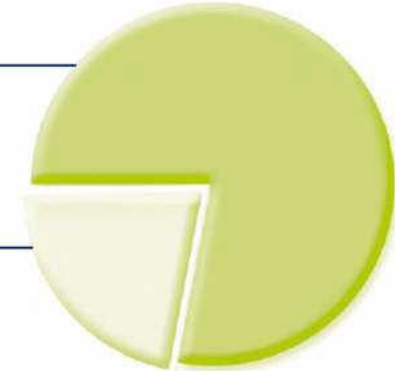


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## People with Chronic Conditions Account for 78 Percent of All Health Care Spending

78%  
Health Care Spending  
for People with Chronic  
Conditions

22%  
Health Care Spending  
for People without  
Chronic Conditions



Source: Medical Expenditure Panel Survey, 1998.

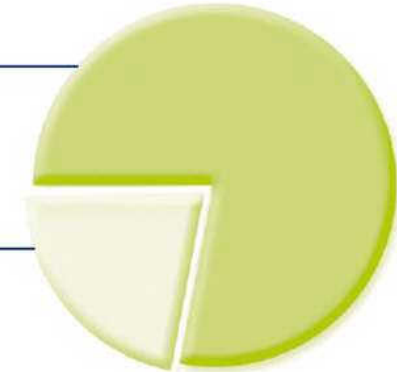




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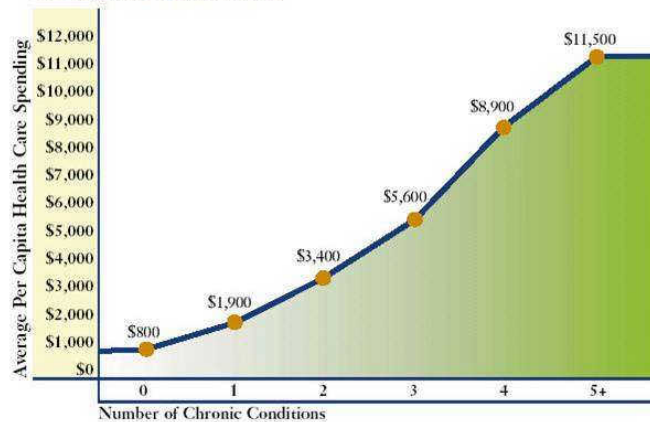
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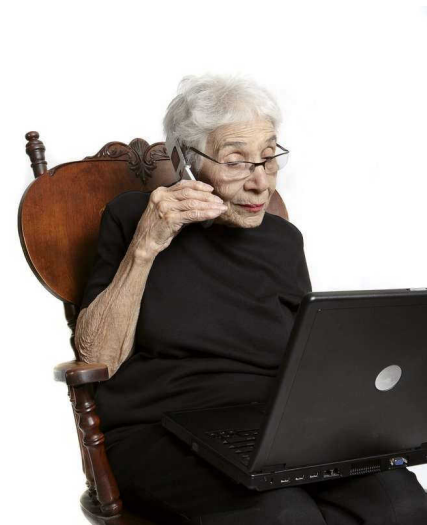


Source: Medical Expenditure Panel Survey, 1998.

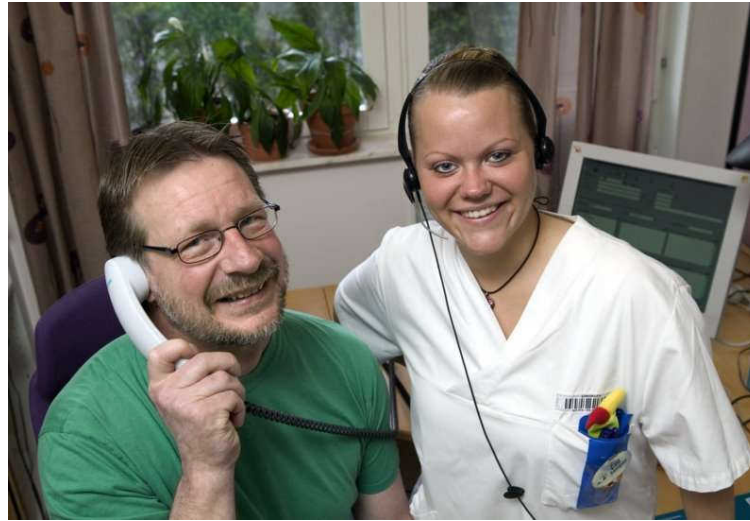
## Health Care Spending Increases with the Number of Chronic Conditions



Source: Medical Expenditure Panel Survey, 1998.

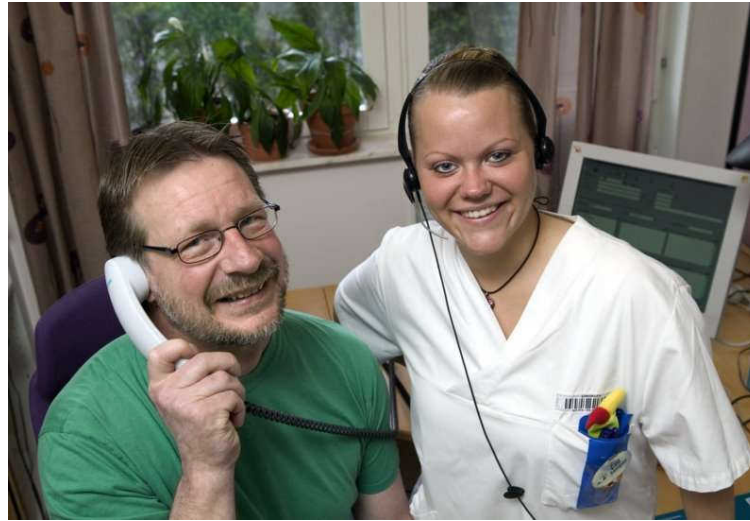


# Impact of co-morbidity on patient's choice of primary health care provider



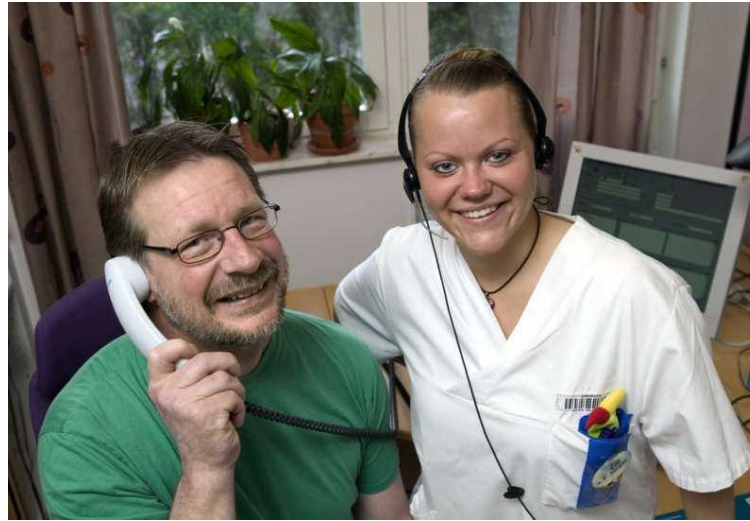
*Primary health care is the base in the Swedish health care system*

# Impact of co-morbidity on patient's choice of primary health care provider



*Primary health care is the base in the Swedish health care system*  
*Reform in primary health care*

# Impact of co-morbidity on patient's choice of primary health care provider

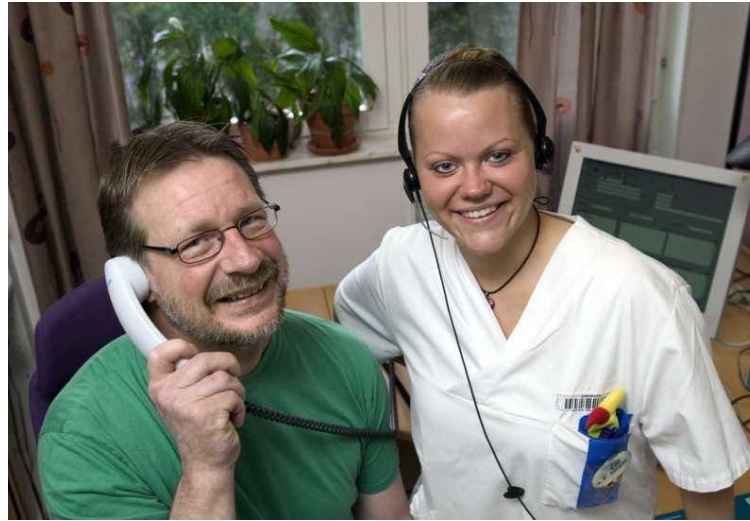


*Primary health care is the base in the Swedish health care system*

*Reform in primary health care*

*Care according to needs*

# Impact of co-morbidity on patient's choice of primary health care provider



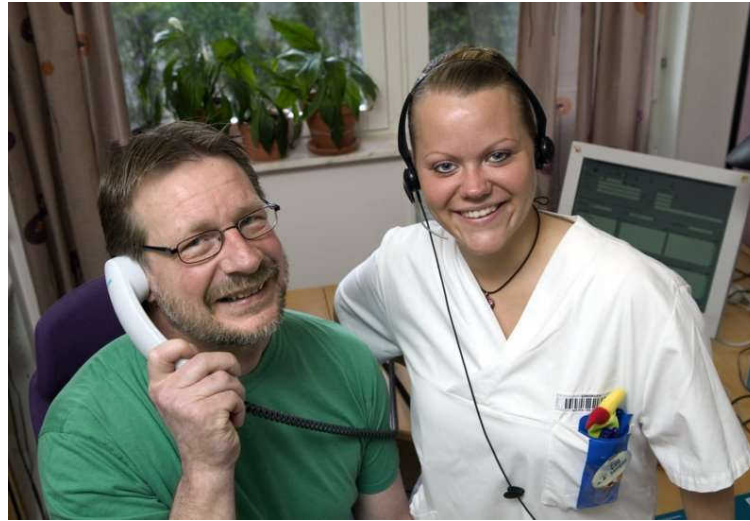
*Primary health care is the base in the Swedish health care system*

*Reform in primary health care*

*Care according to needs*

● Age

# Impact of co-morbidity on patient's choice of primary health care provider



*Primary health care is the base in the Swedish health care system*

*Reform in primary health care*

*Care according to needs*

- Age
- Gender

# Impact of co-morbidity on patient's choice of primary health care provider



*Primary health care is the base in the Swedish health care system*

*Reform in primary health care*

*Care according to needs*

- Age
- Gender
- Co-morbidity (ACG Case-mix)

# Impact of co-morbidity on patient's choice of primary health care provider



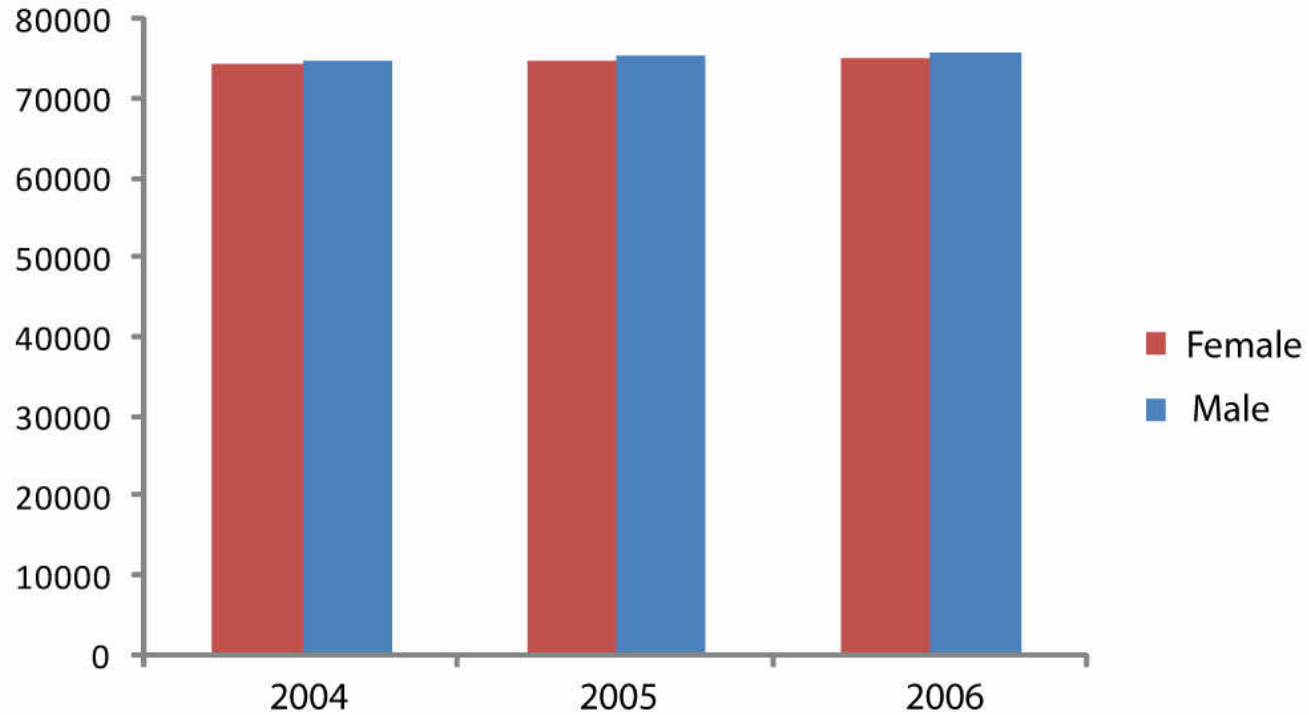
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*Reform in primary health care*

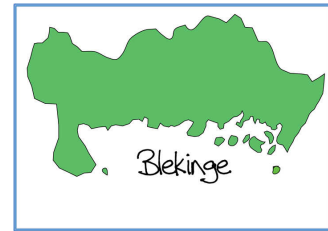
*Care according to needs*

- Age
- Gender
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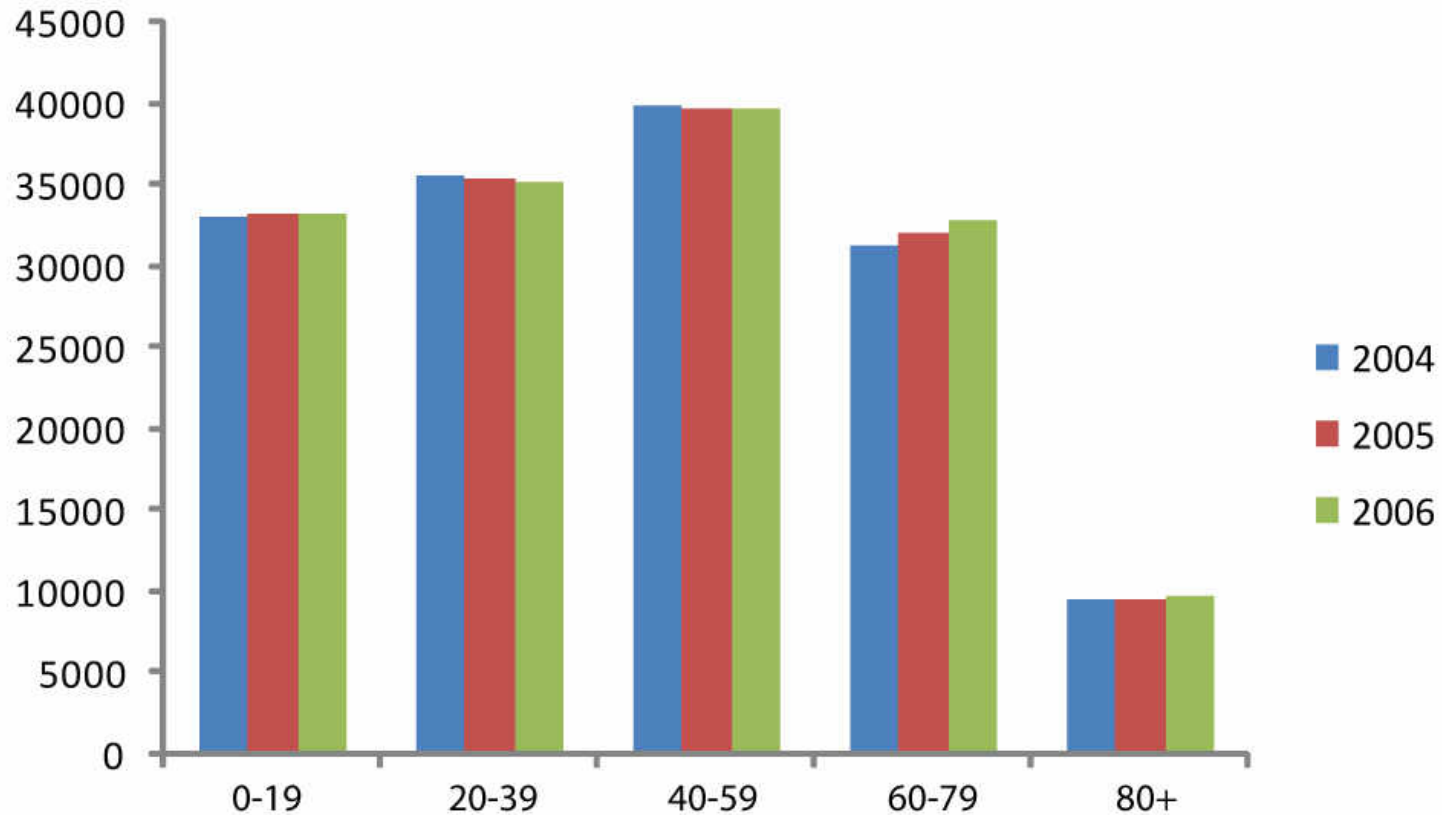
# Population, Blekinge County, Sweden



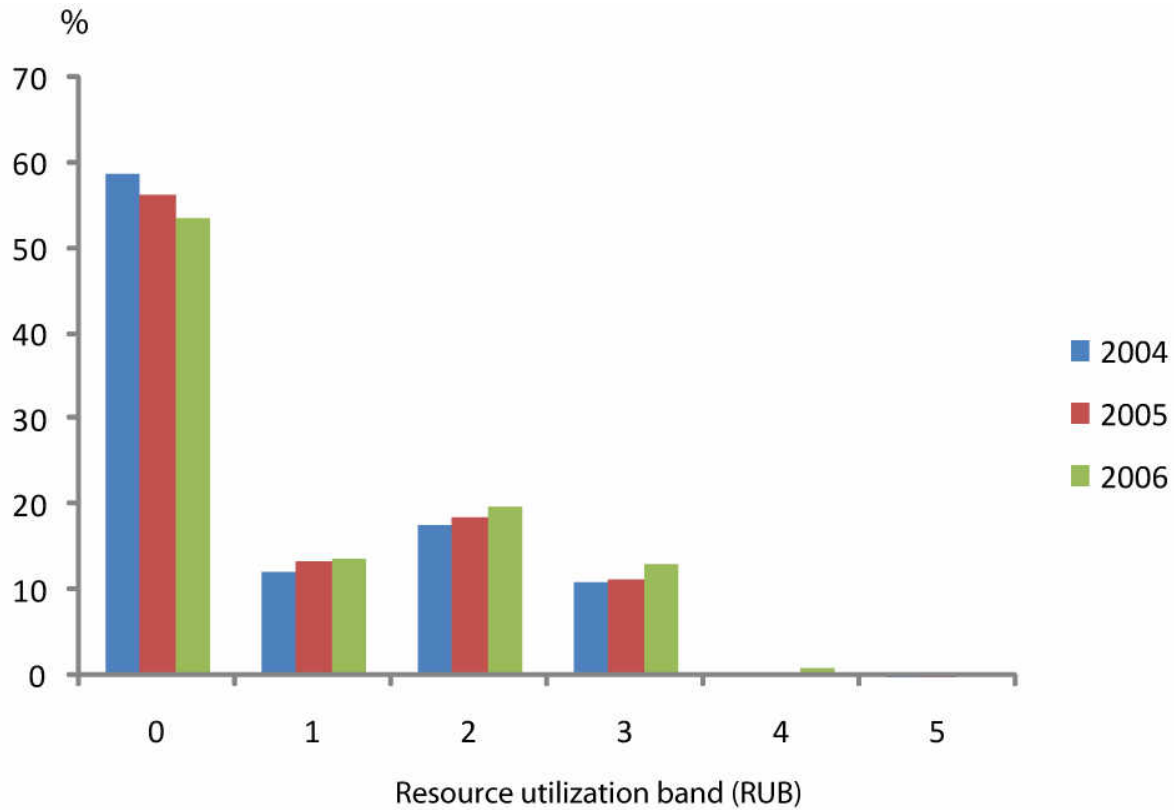
*Approx 19% were listed to private caregivers in primary health care*



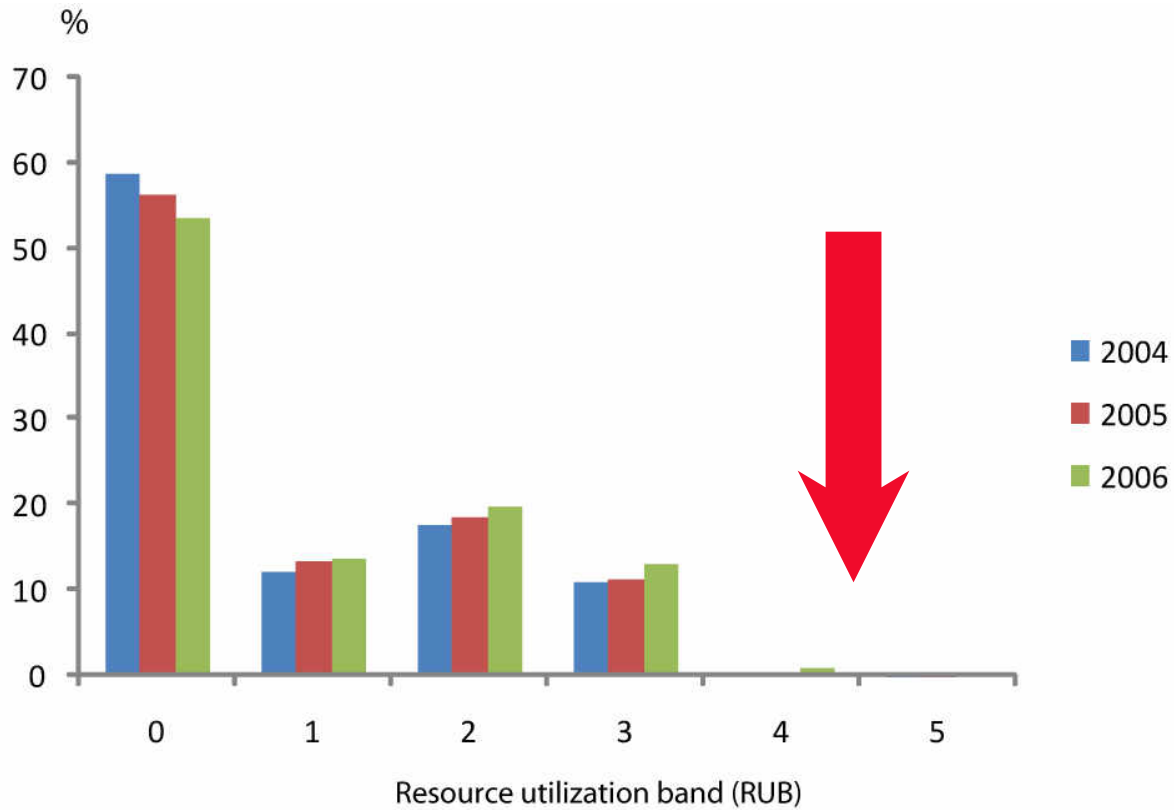
# Population, Blekinge County, Sweden



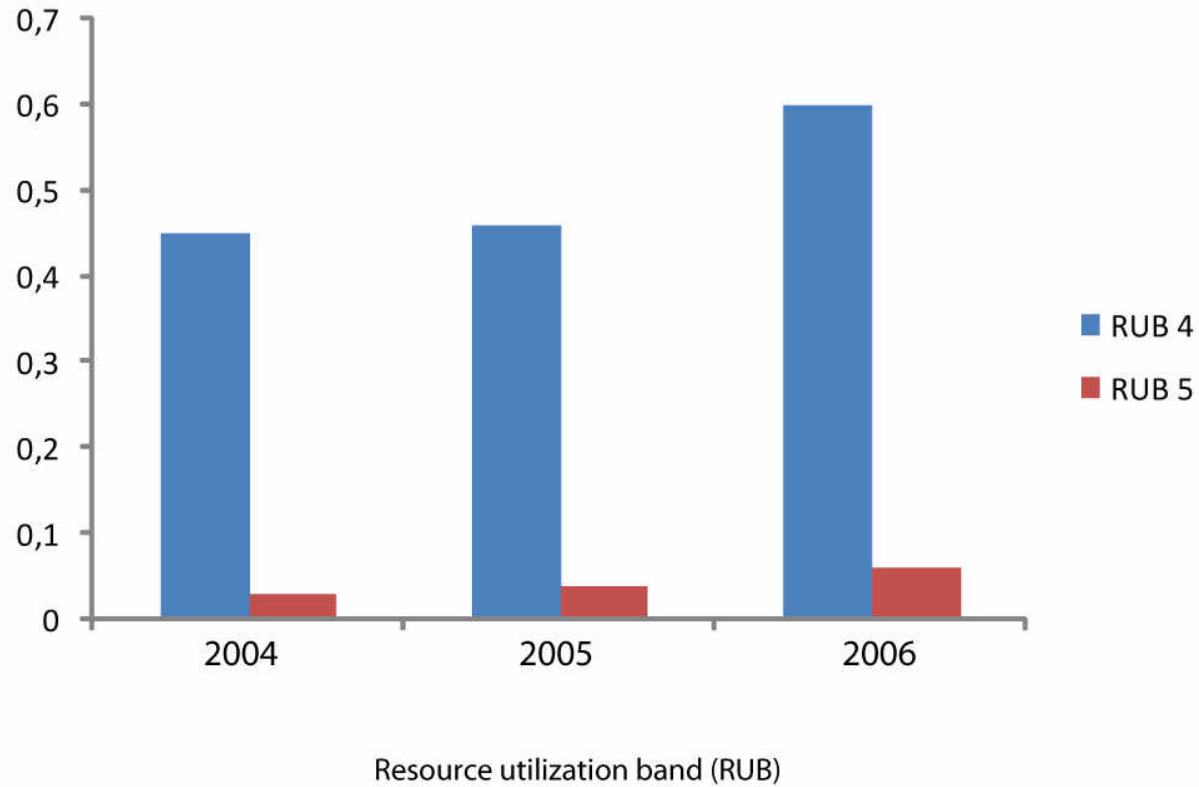
# Population, Blekinge County, Sweden



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# Population, Blekinge County, Sweden



## Primary health care and costs

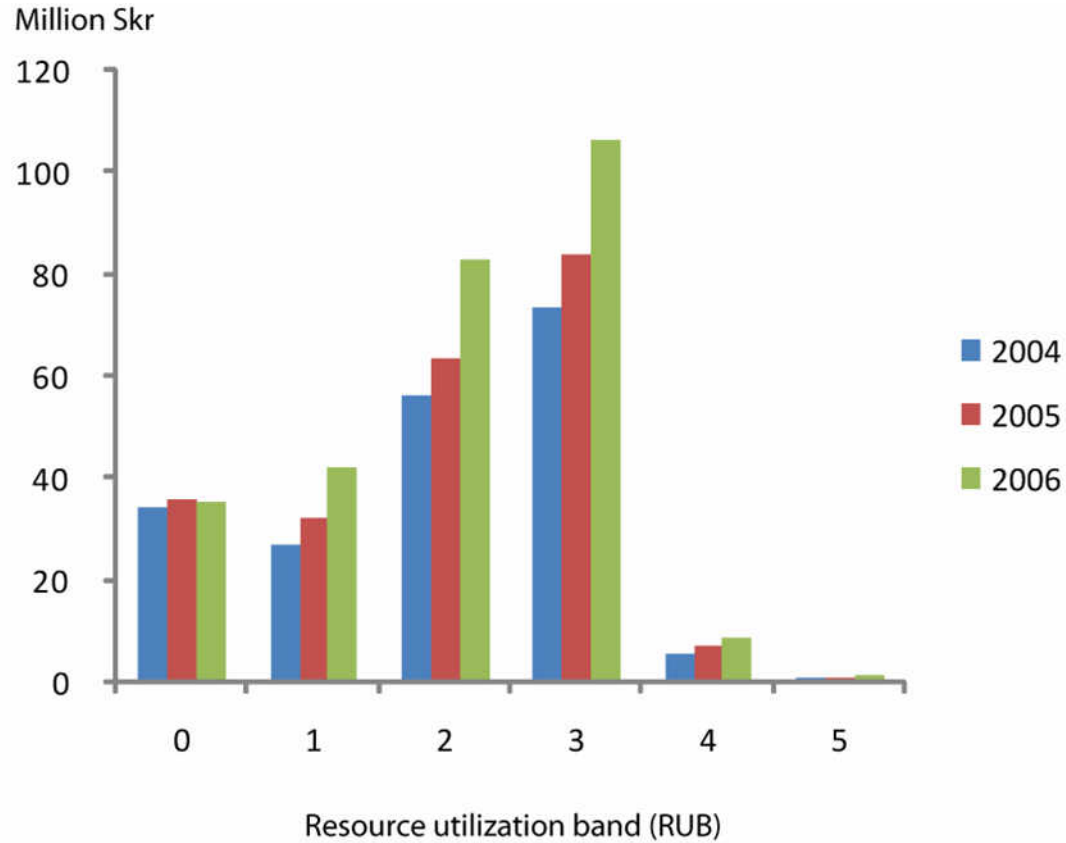
**Table 3 - Means of costs for specific RUB with confidence interval, 2004-2006**

RUB	2004			2005			2006		
	Mean	[95% Conf. interval]		Mean	[95% Conf. interval]		Mean	[95% Conf. interval]	
RUB 0	483.75	460.29	507.21	507.90	482.67	533.13	540.08	512.94	567.23
RUB 1	1850.11	1804.83	1895.38	1942.94	1889.78	1996.09	2532.25	2470.52	2593.98
RUB 2	2635.64	2569.7	2701.57	2737.82	2674.31	2801.33	3466.08	3402.96	3529.2
RUB 3	5642.28	5472.63	5811.93	5861.66	5677.63	6045.69	6811.42	6661.08	6961.76
RUB 4	10720.11	9571.21	11869.02	12378.67	10822.5	13934.84	12198.62	11119.78	13277.47
RUB 5	26034.18	14219.38	37848.99	16519.24	10906.28	22132.2	20083.55	15676.78	24490.32

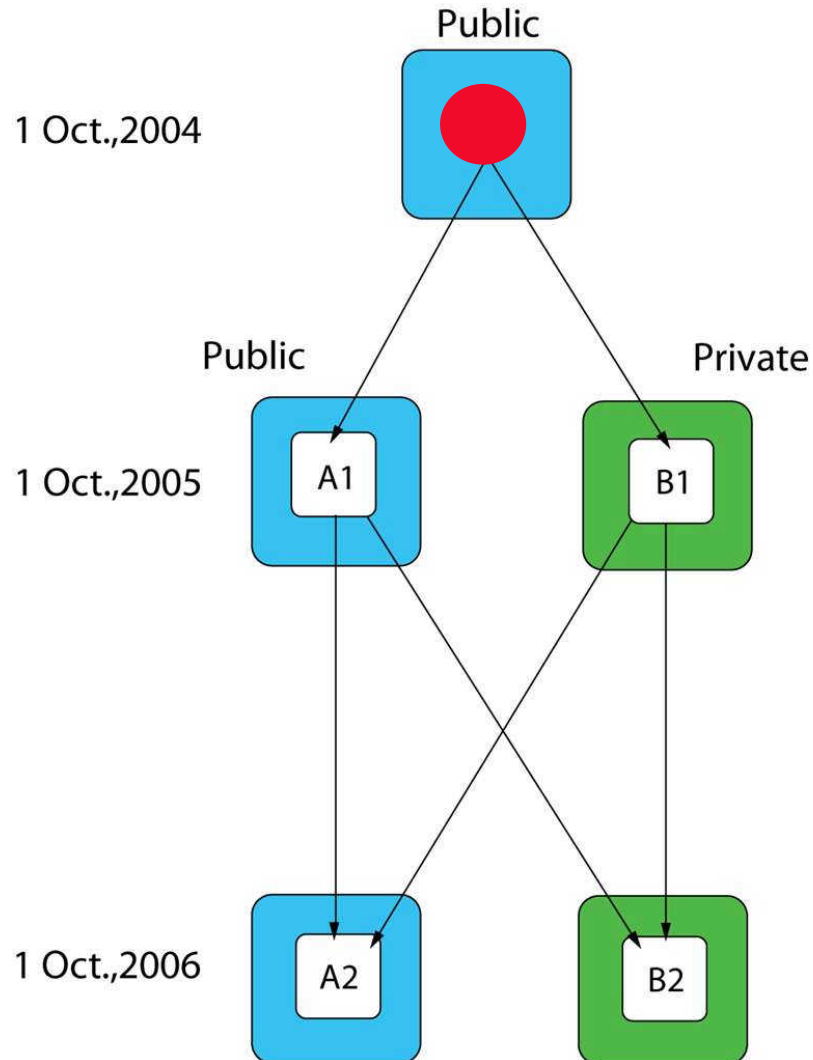
(1USD = 8.56 SEK ; 22 April, 2009)

RUB – resource utilization  
band

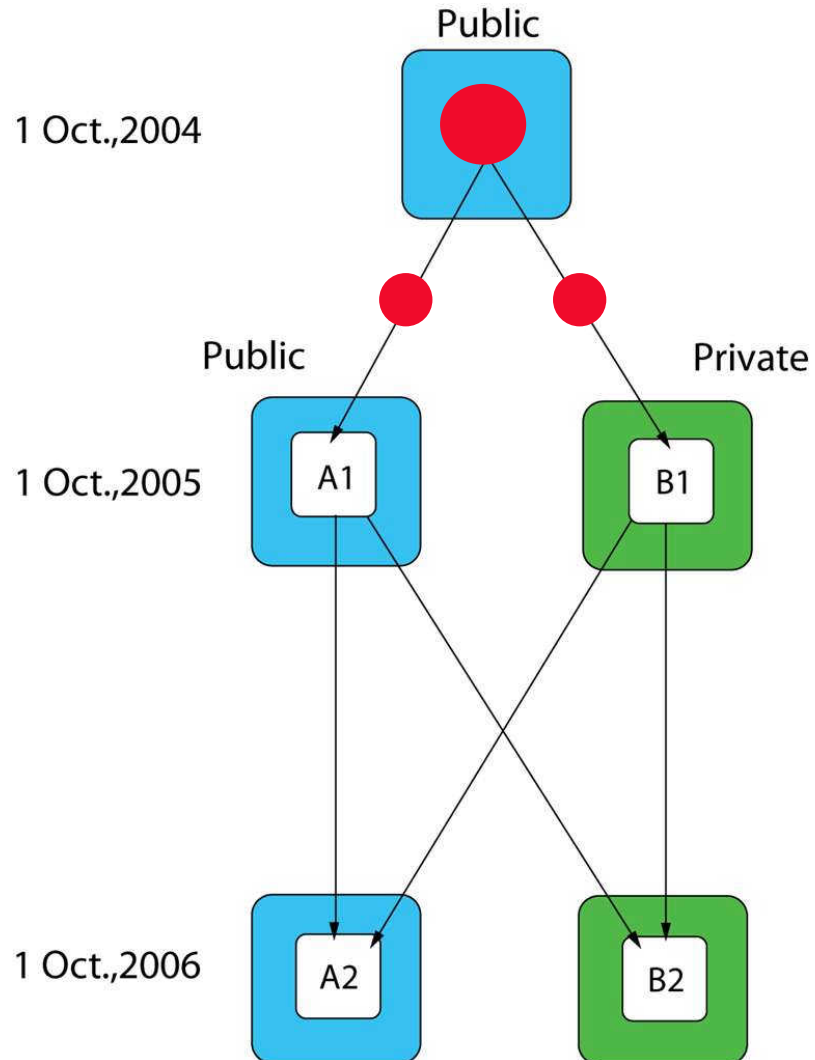
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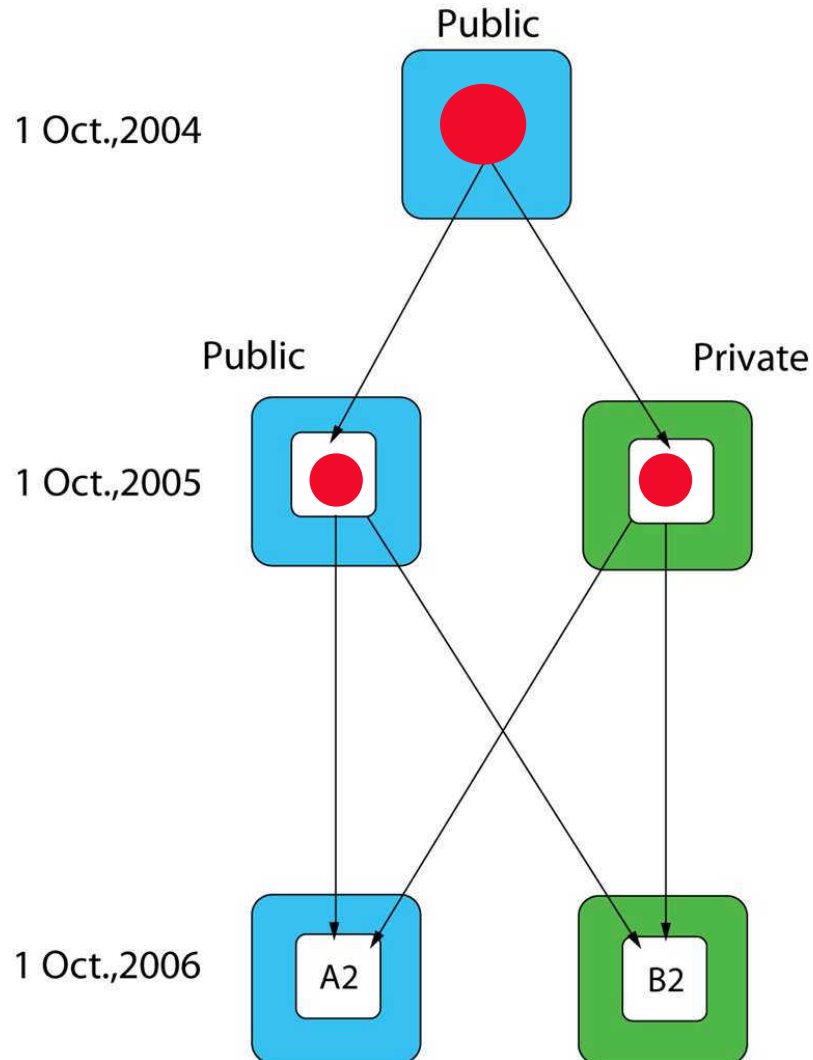
# Studydesign



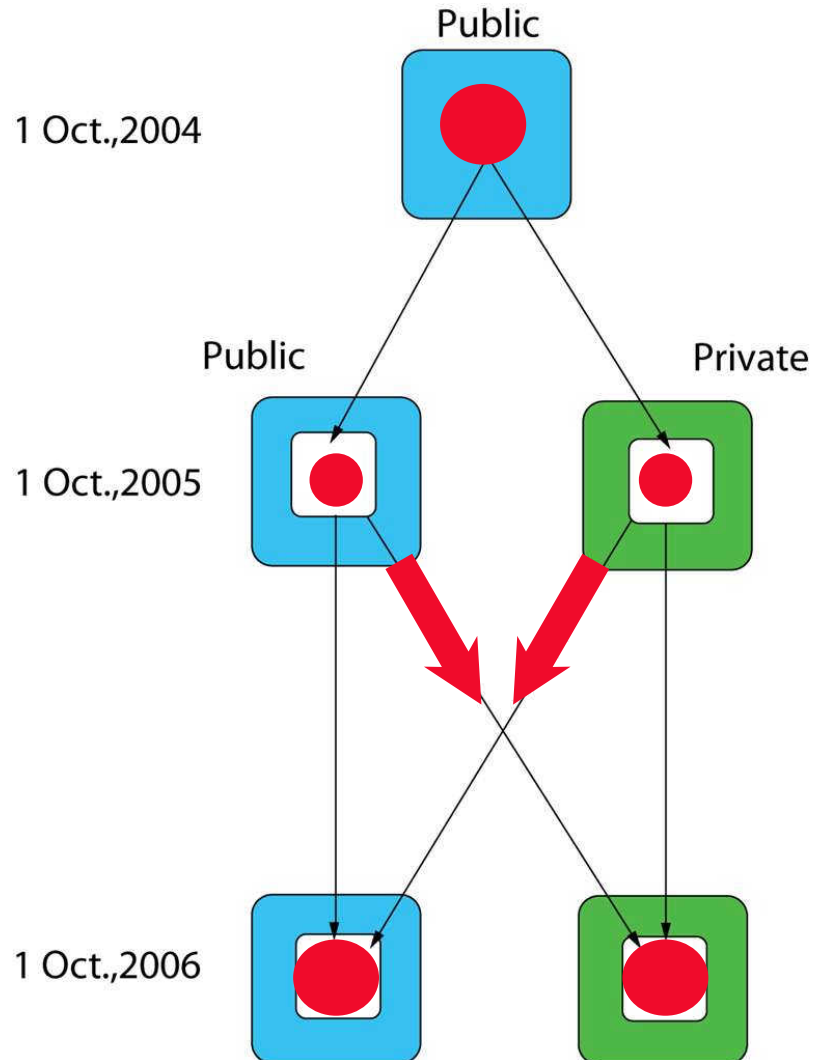
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# Studydesign



# Listing

	Public practice 2005-06	Private practice 2005-06
	A1→A2*	B1→B2*
	N (%)	N (%)
Number of listed patients	7715	1083
<b>Gender</b>		
female	3783 (49.03)	430 (39.70)
male	3932 (50.97)	653 (60.30)
<b>Age</b>		
0-19	1449 (18.78)	237 (21.88)
20-39	1748 (22.66)	393 (36.29)
40-59	2039 (26.43)	300 (27.70)
60-79	1903 (24.67)	129 (11.91)
over 80	576 (7.47)	24 (2.22)
<b>Co-morbidity level</b>		
RUB 0	3772 (48.89)	765 (70.64)
RUB 1	1239 (16.06)	160 (14.77)
RUB 2	1597 (20.70)	136 (12.56)
RUB 3	1040 (13.48)	22 (2.03)
RUB 4	63 (0.82)	0
RUB 5	4 (0.05)	0

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# Re-listing

Re-listing and level of co- morbidity	Age-adjusted model <sup>1</sup>			Fully-adjusted model <sup>2</sup>		
	OR	95 % CI	p	OR	95 % CI	p
<b>To private practice</b>						
RUB 0 <sup>3</sup>	1			1		
RUB 1	0.69	0.61-0.78	<0.001	0.70	0.61-0.79	<0.001
RUB 2	0.62	0.54-0.70	<0.001	0.62	0.55-0.70	<0.001
RUB 3	0.30	0.24-0.36	<0.001	0.30	0.24-0.37	<0.001
RUB 4	0.20	0.07-0.56	0.002	0.21	0.07-0.57	0.002
RUB 5						
<b>To public practice</b>						
RUB 0	1			1		
RUB 1	1.29	0.87-1.91	NS	1.29	0.87-1.91	NS
RUB 2	2.17	1.52-3.12	<0.001	2.16	1.52-3.12	<0.001
RUB 3	3.52	1.78-6.96	<0.001	3.52	1.78-6.98	<0.001
RUB 4						
RUB 5						

1 -Adjusted for age 2- Adjusted for age and gender

# Re-listing

Re-listing and level of co- morbidity	Age-adjusted model <sup>1</sup>			Fully-adjusted model <sup>2</sup>		
	OR	95 % CI	p	OR	95 % CI	p
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RUB 1	0.69	0.61-0.78	<0.001	0.70	0.61-0.79	<0.001
RUB 2	0.62	0.54-0.70	<0.001	0.62	0.55-0.70	<0.001
RUB 3	0.30	0.24-0.36	<0.001	0.30	0.24-0.37	<0.001
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RUB 5						
<b>To public practice</b>						
RUB 0	1			1		
RUB 1	1.29	0.87-1.91	NS	1.29	0.87-1.91	NS
RUB 2	2.17	1.52-3.12	<0.001	2.16	1.52-3.12	<0.001
RUB 3	3.52	1.78-6.96	<0.001	3.52	1.78-6.98	<0.001
RUB 4						
RUB 5						

1 -Adjusted for age 2- Adjusted for age and gender

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