

Economics Weekly September 26, 2016

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Growing healthcare expenditure to become a new normal

- Expenditure on health accounted for 6.0% of GDP in China, significantly below that in most OECD countries
- Consumers are willing to pay a huge premium on quality healthcare services
- A large amount of private capitals are flowing to the healthcare industry; seven healthcare companies are lining up for IPO in HK
- Idle capacity in low-grade private hospitals indicate a surplus in healthcare resources and depresses investment returns
- Investors should focus on the quality of hospital assets

Services consumption – a new driving force of economy. China's retail sales fail to track changes in private consumption. For 2015, retail sales of physical consumer goods grew by 10.7%YoY; total original insurance premium, however, increased by 24.1% YoY and health expenditure was up 14.7% YoY. Lower retail sales growth of physical consumer goods suggested consumers or households were allocating a higher proportion of their disposal incomes on services rather than goods. As people are willing to spend more on services, growth in the tertiary industry will accelerate in coming years. For 1H16, real economic growth of tertiary industry was 7.5%YoY, 0.8ppt higher than the real GDP growth or 1.4ppt higher than growth in the secondary industry. We believe a faster growth in the tertiary industry will become one of the "new normal" in the economy

Per capita expenditure on health grew at 14.65% CAGR in 2011 -15, 7.68ppt higher than the nominal GDP growth for the same period. Private and public sectors are willing to allocate more financial resources on upgrading living standard. According to National Health and Family Planning Commission (NHFPC), national health expenditure expanded at a CAGR 15.23% from 2011 to 2015. Increase in government expenditure and society expenditure on health were the major driving forces of total expenditure growth (Exhibits 1-4).

Expenditures on health accounted for 6.0% of GDP in China in 2015, significantly lower than most OECD countries. According to the OECD statistics, the top five countries with the highest health expenditure-to-GDP ratio in 2015 were the U.S., Switzerland, Japan, Germany, and Sweden, with the respective ratios of 16.9%, 11.5%, 11.2%, 11.1% and 11.1%. In China, health expenditures-to-GDP ratio increased from 5.15% in 2012 to 5.56% in 2014 and 6.0% in 2015. China's 2015 figure was slightly higher than that of Mexico and neared the U.K. level in 2000 (Exhibit 5).

Potential market size of the health sector will reach RMB 6,850-7,829bn in 2020. The government aims to double the economic size from 2010 to 2020. Assuming the government is able to achieve this goal and the proportion of national health expenditure-to -GDP ratio increases to 7-8% by 2020 (from 6% in 2015), we project the total national health expenditure to be RMB 6,850.2-7,828.8bn. Such mammoth market size should attract private enterprises or investors to the healthcare sector.

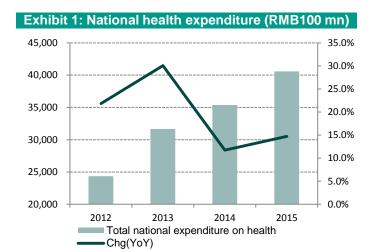


The government is exiting the hospital market to provide room for private hospitals. In China, the total number of hospitals increased by 6,282 from 21,979 in 2011 to 28,261 in June 2016. During the period, the number of public hospitals reduced by 584 from 13,542 in 2011 to 12,958 in June 2016; the number of private hospitals increased by 6,866 from 8,437 in 2011 to 15,303 in June 2016. Private capital has been increasing their investments in the healthcare market for the past few years. If the trend sustains, private capital would have a strong demand for long-term funding so as to finance their investments in the healthcare market. According to HKEx on Sep 23, 2016, five healthcare companies have submitted their listing applications – a positive news to the investment banking industry in HK.

Healthcare market is dominated by low-grade hospitals; investors in the healthcare industry should select carefully. In China, Class 3 hospitals, which accounted for 7.6% of the total number of hospitals at end-June 2016, are considered to be the highest caliber. Lower-grade hospitals (Class 1& 2; 1 as lowest) and unrated hospitals accounted for 59% and 33.4% of the total number of hospitals at end-June (Exhibits 6-8). Between 2011 and June 2016, Class 3 hospitals increased by 756, which accounted for 12.0% of the total increase in hospitals. The low proportion of Class 3 hospitals in the market suggests most of the new private hospitals are low-grade or unrated.

Huge premium for better healthcare services. Average outpatient fee for Class 3 hospital was RMB 289.6/patient for 1H16, 54% higher than the average outpatient fee for Class 2 hospital. Average inpatient fee for Class 3 hospital was RMB 1,2901.2/patient for 1H16, 133% higher than average in-patient fee for Class 2 hospital (Exhibits 9-10).

Higher ASP, strong patient flow, and high bed occupancy rate in Class 3 hospitals suggest strong cash inflow and high asset utilization rate. Equity or debt market investors in the healthcare sector should select companies with a high proportion of assets in Class 3 hospitals. For 1H16, average number of outpatients per public hospital was 106.0K; whereas the average number of outpatients per private hospital was 12.7K. Private hospitals are struggling to find more customers. For 1H16, the average number of outpatients per Class 3, 2, and 1 and unrated hospitals were 357K, 79K, 11K, and 11K, respectively. Average bed occupancy rates per Class 3, 2 and 1 hospitals were 99.3%, 87.1%, and 62.3%. Lower-grade private hospitals are encountering keen market competition, lower ASP, customer flow, and bed occupancy rate. In general, investment returns of low-grade or unrated private hospitals are not optimistic. In contrast, capacities in the Class 3 hospitals are overstretched by high levels of bed occupancy and patient visits. (Exhibits 13-14).



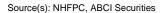
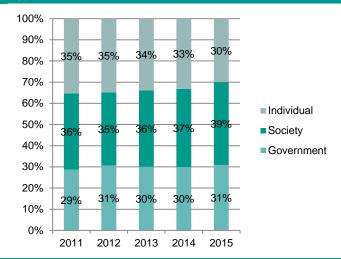


Exhibit 2: Per capita expenditure on health (RMB) 3,500 35.0% 30.0% 3,000 25.0% 2,500 20.0% 15.0% 2,000 10.0% 1,500 5.0% 1,000 0.0% 2012 2013 2014 2015 Per capita expenditure on health Chg(YoY)

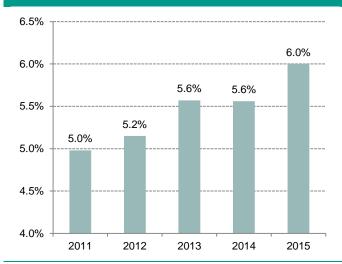
Source(s): NHFPC, ABCI Securities

Exhibit 3: Composition of national expenditure on health



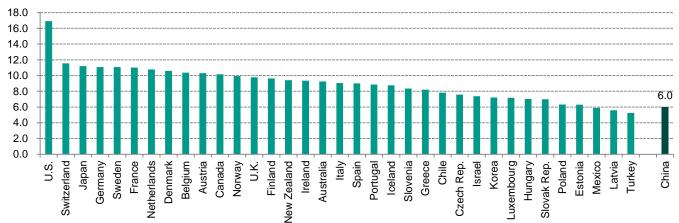
Source(s): NHFPC, ABCI Securities

Exhibit 4: National expenditure on health/GDP



Source(s): NHFPC, ABCI Securities

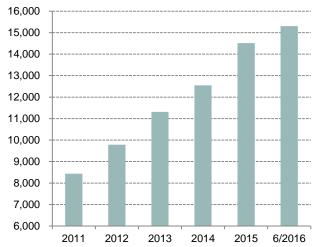




Source(s): OECD, NHFPC, ABCI Securities







Source(s): NHFPC, ABCI Securities

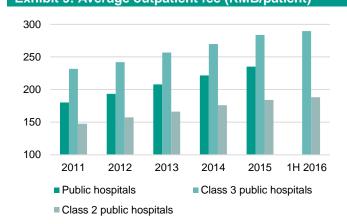
Source(s): NHFPC, ABCI Securities





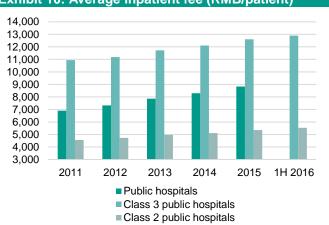
Source(s): OECD, NHFPC, ABCI Securities

Exhibit 9: Average outpatient fee (RMB/patient)



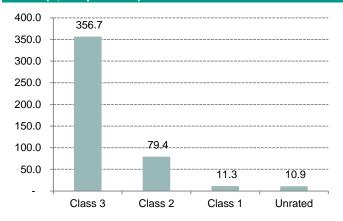
Source(s): NHFPC, ABCI Securities

Exhibit 10: Average inpatient fee (RMB/patient)



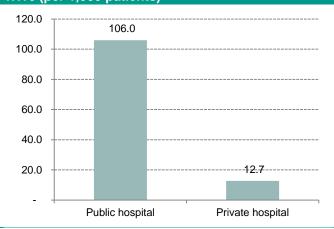
Source(s): NHFPC, ABCI Securities

Exhibit 11: Number of outpatients per hospital in 1H16 (1,000 patients)



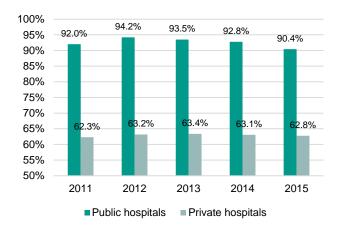
Source(s): NHFPC, ABCI Securities

Exhibit 12: Number of outpatients per hospital in 1H16 (per 1,000 patients)



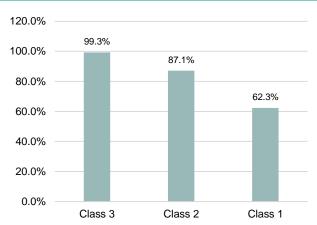
Source(s): NHFPC, ABCI Securities

Exhibit 13: Bed occupancy rate (public hospitals vs. private hospitals)



Source(s): NHFPC, ABCI Securities

Exhibit 14: Bed occupancy rate in public hospitals by quality class in 1H16



Source(s): NHFPC, ABCI Securities

Exhib	it 15: HK-listed mainlar	nd hospital st	ocks					
		Price (HK\$)	2015 PER (x)	2015 P/B (x)	2015 ROAE (%)	2016F PER (x)	2016F P/B (x)	2016F ROAE (%)
1515	PHOENIXHEALTH	13.14	56.50	4.98	10.86	33.83	4.80	14.45
1509	HARMONICARE MEDI	4.65	25.25	2.19	Note #	27.02	2.01	7.76
2120	WENZHOU KANGNI-H	39.95	33.36	2.61	9.13	35.79	2.48	7.12
1858	BEIJING CHUNLI-H	13.78	20.09	1.94	12.03	13.62	1.59	12.82

Note #: It recorded negative equity in 2014 Source(s): Bloomberg, ABCI Securities



China Economic Indicators														
			201	5			2016							
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Real GDP (YoY %)			6.9			6.8			6.7			6.7		
Export Growth (YoY %)	(8.3)	(5.5)	(3.7)	(6.9)	(6.8)	(1.4)	(11.2)	(25.4)	11.5	(1.8)	(4.1)	(4.8)	(4.4)	(2.8)
Import Growth (YoY %)	(8.1)	(13.8)	(20.4)	(18.8)	(8.7)	(7.6)	(18.8)	(13.8)	(7.6)	(10.9)	(0.4)	(8.4)	(12.5)	1.5
Trade Balance (USD/bn)	43.0	60.2	60.3	61.6	54.1	60.9	63.3	32.6	29.9	45.56	49.98	48.11	52.31	52.05
Retail Sales Growth (YoY %)	10.5	10.8	10.9	11.0	11.2	11.1	10.2	2	10.5	10.1	10.0	10.6	10.2	10.6
Industrial Production (YoY %)	6.0	6.1	5.7	5.6	6.2	5.9	5.4		6.8	6.0	6.0	6.2	6.0	6.3
PMI - Manufacturing (%)	50.0	49.7	49.8	49.8	49.6	49.7	49.4	49.0	50.2	50.1	50.1	50.0	49.9	50.4
PMI – Non-manufacturing (%)	53.9	53.4	53.4	53.1	53.6	54.4	53.5	52.7	53.8	53.5	53.1	53.7	53.9	53.5
FAI (YTD) (YoY %)	11.2	10.9	10.3	10.2	10.2	10.0	10.2	2	10.7	10.5	9.6	9.0	8.1	8.1
CPI (YoY %)	1.6	2.0	1.6	1.3	1.5	1.6	1.8	2.3	2.3	2.3	2.0	1.9	1.8	1.3
PPI (YoY %)	(5.4)	(5.9)	(5.9)	(5.9)	(5.9)	(5.9)	(5.3)	(4.9)	(4.3)	(3.4)	(2.8)	(2.6)	(1.7)	(0.8)
M2 (YoY %)	13.3	13.3	13.1	13.5	13.7	13.3	14.0	13.3	13.4	12.8	11.8	11.8	10.2	11.4
New Lending (RMB/bn)	1,480	809.6	1,050	513.6	708.9	597.8	2,510	726.6	1,370	555.6	985.5	1380	463.6	948.7
Aggregate Financing (RMB bn)	742	1,082	1,300	476.7	1,020	1,815.1	3,425.3	824.5	2,404.0	751.0	659.9	1,629.3	487.9	1470.0

	Equity In	dices	
	Closing price	Chg. WTD (%)	P/E
	U.S		
DJIA	18,261.45	0.00	17.58
S&P 500	2,164.69	0.00	20.38
NASDAQ	5,305.75	0.00	41.71
MSCI US	2,064.63	0.00	21.03
	Euro	ре	
FTSE 100	6,832.89	(1.11)	57.41
DAX	10,480.27	(1.38)	23.70
CAC40	4,415.15	(1.64)	22.56
IBEX 35	8,672.50	(1.71)	21.49
FTSE MIB	16,157.40	(1.80)	37.18
Stoxx 600	340.75	(1.33)	27.34
MSCI UK	2,011.65	0.00	60.86
MSCI France	127.38	0.00	21.21
MSCI Germany	135.81	0.00	24.29
MSCI Italy	46.69	0.00	38.69
	Asia	a	
NIKKEI 225	16,544.56	(1.25)	20.57
S&P/ASX 200	5,431.42	0.00	24.39
HSI	23,317.92	(1.56)	12.61
HSCEI	9,629.35	(1.70)	8.25
CSI300	3,220.28	(1.69)	14.84
SSE Composite	2,980.43	(1.76)	17.31
SZSE Component	10,392.70	(2.05)	31.39
MSCI China	64.72	0.00	14.11
MSCI Hong Kong	13,315.67	0.00	15.37
MSCI Japan	813.16	0.00	17.19
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World Economic	c/Financial	Indicate	ors					
GI	obal Commo	dities						
	Unit	Price	Chg. WTD (%)	Vol (5- Day avg.)				
	Energy		, ,					
NYMEX WTI	USD/bbl.	44.51	0.07	398,661				
ICE Brent Oil	USD/bbl	45.83	(0.13)	270,994				
NYMEX Natural Gas	USD/MMBtu	2.98	0.98	126,862				
China Qinhuangdao Port Thermal Coal ²	CNY/Metric Tonne	552.00	1.10	N/A				
	BasicMeta	ls						
LME Aluminum Cash	USD/MT	1,629.25	0.00	26,737				
LME Aluminum 3 -mth. Rolling Fwd.	USD/MT	1,637.00	0.00	35,459				
CMX Copper Active	USD/lb.	4,842.00	0.00	11,988				
LME Copper 3- mth Rolling Fwd.	USD/MT	4,855.00	0.00	39,863				
	Precious Metals							
CMX Gold	USD/T. oz	1,338.40	(0.25)	151,730				
CMX Silver	USD/T. oz	19.50	(1.56)	58,387				
NYMEX Platinum	USD/T. oz	1,044.00	(1.59)	5,989				
Ag	ricultural Pro	oducts						
CBOT Corn	USD/bu	334.50	(0.59)	128,372				
CBOT Wheat	USD/bu	404.00	(0.19)	42,354				
NYB-ICE Sugar	USD/lb.	22.65	(0.22)	82,089				
CBOT Soybeans	USD/bu.	955.25	0.03	109,367				

Bond Yields	& Key R	
	Yield (%)	Chg. WTD (Bps)
US Fed Fund Rate	0.50	0.00
US Prime Rate	3.50	0.00
US Discount Window	1.00	0.00
US Treasury (1 Yr)	0.0760	0.00
US Treasury (5Yr)	1.1462	(0.98)
US Treasury (10 Yr)	1.6029	(1.55)
Japan 10-Yr Gov. Bond	(0.06)	(1.90)
China 10-Yr Gov. Bond	2.7420	(3.10)
ECB Rate (Refinancing)	0.00	0.00
1-Month LIBOR	0.5222	(0.96)
3 Month LIBOR	0.8529	(0.42)
O/N SHIBOR	2.1640	(0.28)
1-mth SHIBOR	2.7330	0.32
3-mth HIBOR	0.5907	0.29
Corporate Bonds	(Moody'	s)
Aaa	3.44	(7.00)
Ваа	4.32	(9.00)

- Data sources: Bloomberg,
 National Bureau of Statistics of
 China, ABCIS (updated on
 date of report)
 The price is Coal 5500
 kcal/kg FOB Spot Price

				Currenc	у			
	Euro/USD	GBP/USD	AUD/USD	USD/JPY	USD/CHF	USD/CNY	USD/HKD	USD/CNY NDF 12-mth Spot pr.
Spot Rate	1.1239	1.2932	0.7609	100.60	0.9681	6.6690	7.7551	6.8575
Chg. WTD (%)	0.12	(0.26)	(0.18)	0.42	0.24	0.01	0.02	(0.01)



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Analyst Certification

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Definition of equity rating

Rating	Definition
Buy	Stock return ≥ Market return rate
Hold	Market return - $6\% \le \text{Stock return} < \text{Market return}$ rate
Sell	Stock return < Market return – 6%

Stock return is defined as the expected % change of share price plus gross dividend yield over the next 12 months

Market return: 5-year average market return rate Time horizon of share price target: 12-month

Definition of share price risk

Rating	Definition
Very high	2.6 ≤180 day volatility/180 day benchmark index volatility
High	1.5 ≤ 180 day volatility/180 day benchmark index volatility <
	2.6
Medium	1.0 ≤180 day volatility/180 day benchmark index volatility <
	1.5
Low	180 day volatility/180 day benchmark index volatility < 1.0

We measure share price risk by its volatility relative to volatility of benchmark index. Benchmark index: Hang Seng Index.

Volatility is calculated from the standard deviation of day to day logarithmic historic price change. The 180-day price volatility equals the annualized standard deviation of the relative price change for the 180 most recent trading days closing price.

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