

Bangkok Dusit Medical Services (BDMS)
Investor Presentation 4Q17&2017 Results

**March 2018** 

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## **Contents**

- Overview
- Healthcare Industry
- Operational Statistics
- Financial Highlights













# **Overview**

## **BDMS**

#### **Overview**



**45 Hospitals** 



8,000+ Beds



10 Centers of Excellence



**BDMS Wellness Clinic** 



12,000+ Doctors 8,000+ Nurses 14,000+ Staffs



Pharmaceutical manufacturer and drug stores

<b>Established</b>	on	<b>February</b>	26.	1972
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- Top 5 private hospital operators in the world by market capitalization
- Hub-and-Spoke model with an established patient referral system helps create efficiency through scale

	Brand	No. of Hospitals	No. of Beds*
3	Bangkok Hospital	21	3,602
××	Phyathai Hospital	5	1,340
<b>4</b>	Samitivej Hospital	6	1,288
**	Paolo Hospital	6	1,020
ENH	BNH Hospital	1	144
R	Royal Hospital	2	130
	Local Hospital	4	546

<sup>\*</sup> Maximum number of beds according to structure of the hospitals





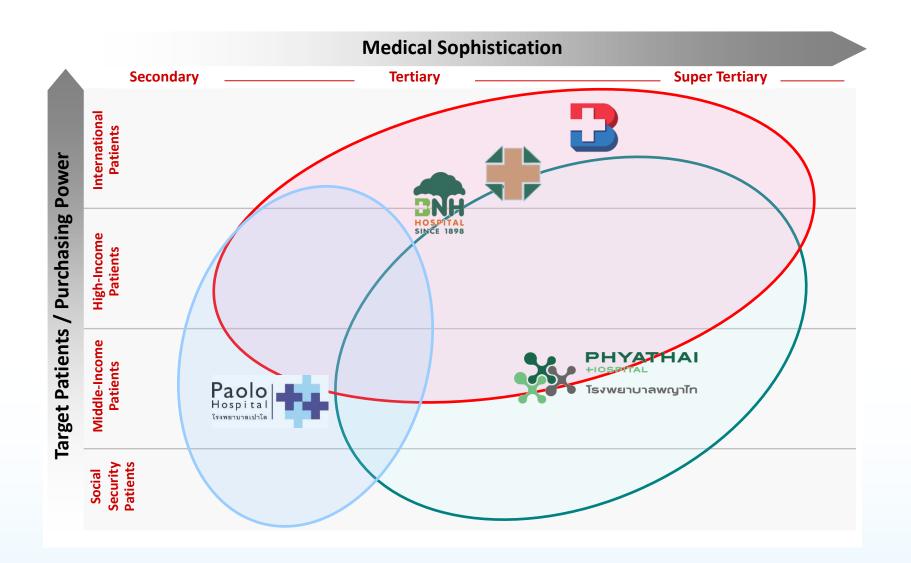








## **Diversification of Patient Mix**















#### **BDMS Future Plan**

#### **Key Strategies** 2017 2018 2019 2020 **45** Hospitals ~ 50 hospitals 8,070 beds ~ 8,500 beds ✓ Paolo Kaset Bangkok Chiangrai O Phoenix Project International **Hospitals in** (162 beds) (80 beds) (175 beds) **Hospital Pipeline Bangkok Surat** (100 beds) (150 beds) Chiva Transitional **BDMS Wellness** Care (52 beds) **Clinic (4Q17)** Increase utilization of ramping-up hospitals **Focus on** Improving operational efficiencies Margin Centers of excellence **Expansion** International medical affiliation **Completed continuum of healthcare** Long-term **Target**





**Top referral hospitals in Asia Pacific** 









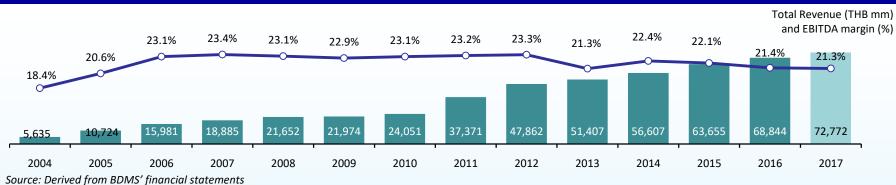
## Successful Track Record of Expansion Through M&A and Greenfield Projects

## Strong Share Price Performance Backed by a Successful Expansion Track Record



<sup>\*</sup> Transfer of business to our new facility, Royal Phnom Penh

#### Solid Revenue Growth Over the Past Decade (2004-2017 CAGR of 21.7%) with Resilient EBITDA margin



BDMS has developed 14 new hospitals and acquired a total of 30 hospitals to date







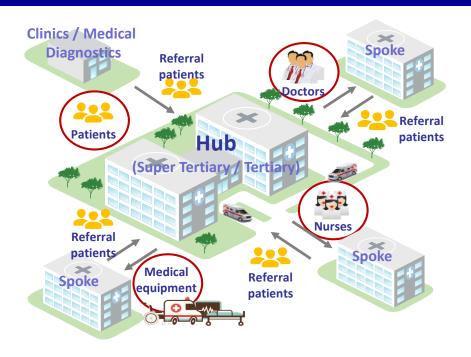






## 'Hub-and-Spoke' Model

#### **Providing a Proven Patient Referral System and Creating Efficiency Through Scale**





- Strong patient referral system within and across each hub and spoke
- 2 Enhances synergies and benefits of scale among hospitals within the group
- 3 Shared supporting services among multiple hubs which enhance efficiency and competitiveness
- 4 Established system provides a platform for future expansion













## **BDMS Complete Continuum of Healthcare**



#### **Centers of Excellence**



**Super Tertiary Care** 



**Tertiary Care** 

**Secondary Care** 

**Promotive** 

**Preventive** 

**Early Detection** 

**Curative** 

**Transitional** 

Rehabilitative



**BDMS Wellness Clinic** 



**Phoenix Project** 



**Chiva Transitional Care Hospital** 

**Non-Hospital Strategic Investment** 



**Sterile Drug Manufacturer & Distributor** 



**Generic Drug Manufacturer** 



**Drug Store** 







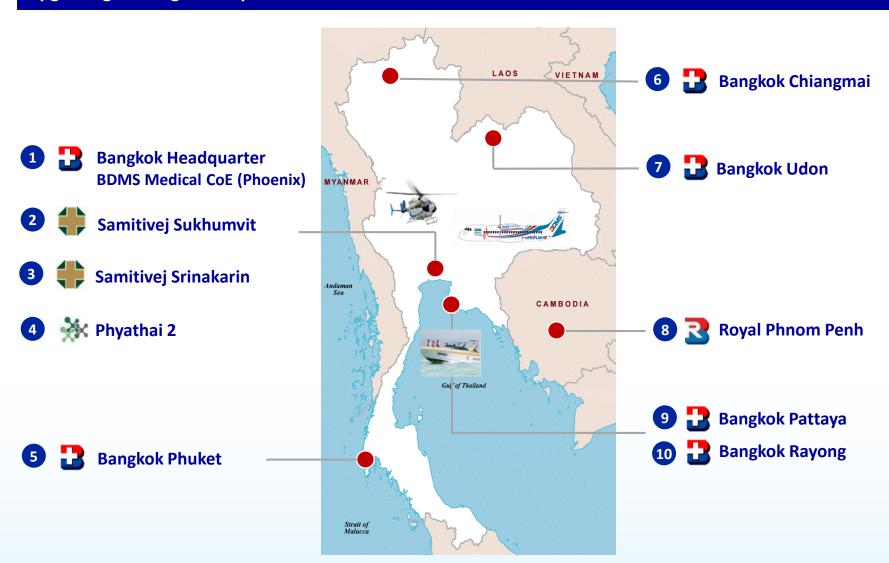






#### **BDMS Centers of Excellence Network**

## Upgrading Existing 10 Hospitals to Become Centers of Excellence with the Focus on International Patients















## **Medical Cooperation**

#### **International and Local Partnership**

#### Cancer



Sister Institute with MD Anderson on cancer

Occupational health, Pediatrics, Rehabilitation and Informatics



Collaboration with Oregon Health and Science
 University on occupational health, pediatrics,
 rehabilitation, clinical simulation and informatics

Trauma and Orthopedics



 Collaboration with Missouri Orthopaedic Institute, University of Missouri Health Care in education, training and research



Collaboration with Hannover Medical School for education and research on trauma and orthopedics



 Collaboration with Stanford University for knowledge sharing on orthopedics













## **Medical Cooperation**

#### **International and Local Partnership**

**Neuroscience** 



Research collaboration with Department of **Neurosurgery, Cedars-Sinai on the TRFS laser** device for brain tumor surgery

Collaboration with Black Brain Health Center of Dr. Keith L. Black, one of the world leading neurosurgeons

**Gastrointestinal** 



■ Collaboration with Sano Hospital on **Gastrointestinal Medicine** 

**Others** 



**Collaboration with Nagoya University for** education, medical treatment assistance and patient referral







**Collaboration with local institutions** 













## **BDMS Wellness Clinic**

#### A Brand New Wellness Clinic Delivering World-Class Services









- **Comprehensive preventative-care center**
- **Targeting high-end Thai and International customers**
- Regenerative Clinic opened in Dec 2017
- The rest will be opened by 1H18















**8 Centers of Preventive Excellence** 

**Regenerative Clinic** 

**Cardioscience Clinic** 



**Digestive Wellness Clinic** 

6 **Breast Clinic** 

**Fertility Clinic** 

**Dental Clinic** 

#### **Investments**

## **Investments in Other Hospitals : - Listed Companies**

- Ramkhamhaeng Hospital PCL (RAM) 38.24%
- Bumrungrad Hospital PCL (BH) 20.50%

## Non- Hospital Strategic Investments \*

#### **Pharmaceutical Business**

•	A.N.B. Laboratories	100%	Sterile pharmaceutical product manufacturer & distributor
•	Save Drug Center	100%	Drugstore
•	The Medicpharma	87%	Generic pharmaceutical product manufacturer
•	General Hospital Products PCL	46%	Sterile pharmaceutical product manufacturer

#### **Other Complimentary Business**

National Healthcare Systems

100%

Central lab, central supply chain, procurement & other shared services

Shared IT services

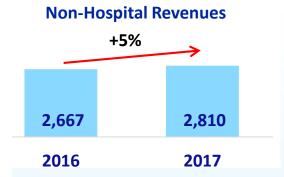
Bangkok Premier Life Insurance
Broker

Bangkok Helicopter Services

100%

Transportation of patients via helicopter services

ТНВ тт



<sup>\*</sup> Not included all BDMS' investments





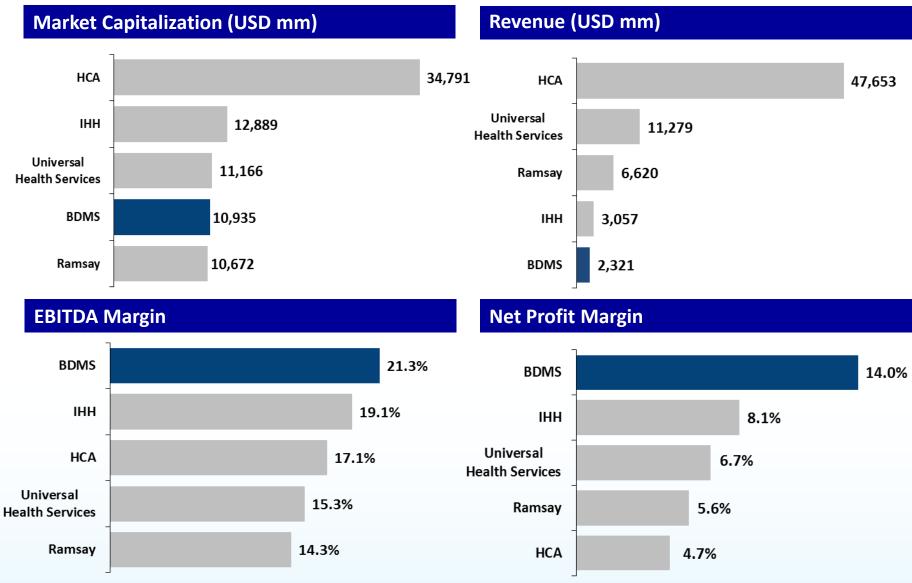








## **Global Hospital Rankings**



Remark: - Market capitalization as of 1 March 2018

- Financial performance for year ended December 2017 except Ramsay for the year ended June 2017













# **Healthcare Industry**

## **Key Trend for Thai Healthcare Industry**

Supportive
Demographic and
Economic Trends

- Aging demographics and rising income will drive demand for Thai healthcare
- Thai healthcare spending is expected to grow 5-6% p.a. in the next 3 years \*

Changing
Behavior and
Opportunities

- Increase health conscious and greater affordability driven a growing demand on preventive care
- Thailand's attractiveness as travel destination, convenient infrastructure
   & facility and value for money help support medical tourism

Favorable Government Policies

- Expanding visa for medical tourist from CLMV and China to 90 days
- Thai Government recently approved tax break on premiums paid for health insurance. This should benefit private hospitals as it could boost healthcare demand

**Health Tech** 

- Mobile health apps would increase health conscious and preventive care
- Support existing healthcare service rather than replacement
- Mostly in searching for doctor and personal health information

\* Source: EIC SCB









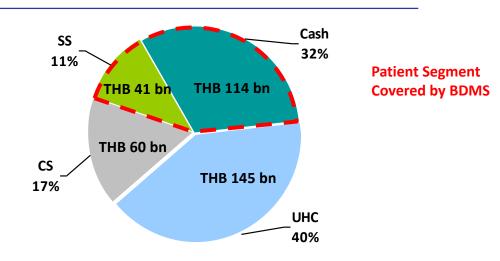




## **Thailand Healthcare Coverage**

#### **Healthcare Segments in Thailand**

## Total Expenditure for 2014: THB 360 bn\*



<sup>\*</sup> Excluding general government expenditure on healthcare Source: SSO, NHSO, WHO, BOT, Phatra Securities estimates

Universal Healthcare Coverage (UHC)	A welfare program for Thai people to receive medical coverage for IPD and OPD care at registered facilities
Civil Servant (CS)	A welfare program provided to employees of governments and state-owned enterprises
Social Security Scheme (SS)	Minimum requirement of healthcare provided to employees of private companies
Private Healthcare (Cash)	Proportion of Thai population not covered or choose not to use public healthcare schemes (UHC, CS and SS), though may have private insurance coverage













## **Thailand Healthcare Demand & Supply**

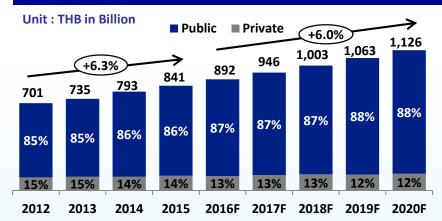
#### **Healthcare Supply in Thailand (2014)**

	# of Hospitals	# of Beds
Private	329	34,567
Public	1,019	120,322
Total	1,348	154,889

(Number per 10,000 population)	Thailand	Global
Doctor	4	14
Nurse	21	30
Bed	21	26

Source: WHO, Department of Health Service Support, Bureau of Policy and Strategy

## **Increasing Healthcare Expenditures in Thailand**



Source: EIC SCB and WHO

#### โรงพยาบาลกรุงเทพ BANGKOK HOSPITAL





#### **BDMS Market Coverage (2014)**

	Total Private Beds	BDMS Registered Beds	Market Share
Bangkok	14,339	2,571	18%
Central	10,654	1,890	17%
South	2,467	601	24%
Northeast	2,904	337	12%
North	4,128	194	5%
Total	34,492	5,593	16%

Source: WHO and Department of Health Service Support

#### **Low Healthcare Penetration**

% of Healthcare expenditure to GDP



Source: WHO (2014)



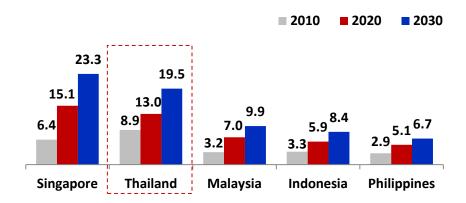




## **Increasing Healthcare Demand**

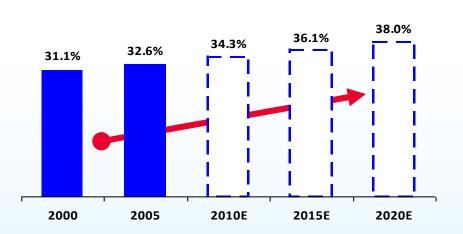
#### **Population Growth and Aging Profile**

Percentage of population above 65 years (%)



Source: UN Population Database: 2015

#### **Urbanization**



Sources: NESDB, Health & Welfare Surveys, National Statistics Office (Data related to Thailand)

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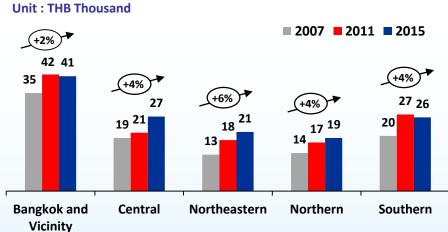


# BNH HOSPITAL HOSPITAL SINCE 1898 (Sathorn - Convent)

#### **Commentary**

- Aging population will have great implications on both healthcare costs as well as its capacity to serve demand. In addition, aging population also means a strain on healthcare capacity if it fails to catch up well with increasing demand
- Increasing degree of urbanization is expected over time from 31.1% in 2008 to 38.0% in 2020
- The trend has also been the same for overall South East Asia countries where rapid urbanization is expected from 36.7% in 2000 to 50.6% in 2025

#### **Rising Monthly Income per Capita**



Source: NSO

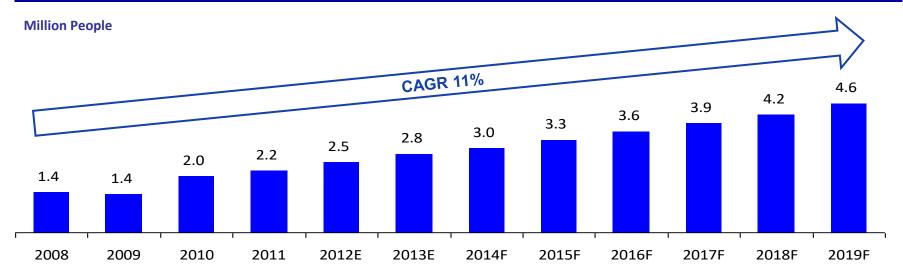






## **Medical Tourism**

## **Increasing trend of international patient visits**



Source: EIC, SCB and Ministry of Commerce

## **Medical Tourism as a Rising Phenomenon**

Procedures ( In USD)	USA	Singapore	Thailand	Malaysia	India
Heart Bypass	123,000	17,200	15,000	12,100	7,900
Heart Valve Replacement	170,000	16,900	17,200	13,500	9,500
Knee Replacement	35,000	16,000	14,000	7,700	6,600
Spinal Fusion	110,000	12,800	9,500	6,000	10,300
IVF Treatment	12,400	14,900	4,100	6,900	2,500





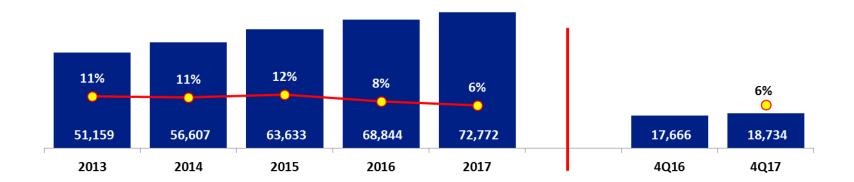




# **Operational Statistics**

#### **Operating Income Trend**

(THB mm)



#### Commentary

- 2017 Operating income increased by 6% yoy. This was attributed to
  - Revenue growth from hospitals in BKK +5% and in upcountry +8% yoy
  - Revenue growth from Thai +5% vs International patients +8% yoy
  - Increase in price intensity and complexity cases

Remark:- Operating income is calculated from hospital revenue + revenue from sales of goods and food + other income







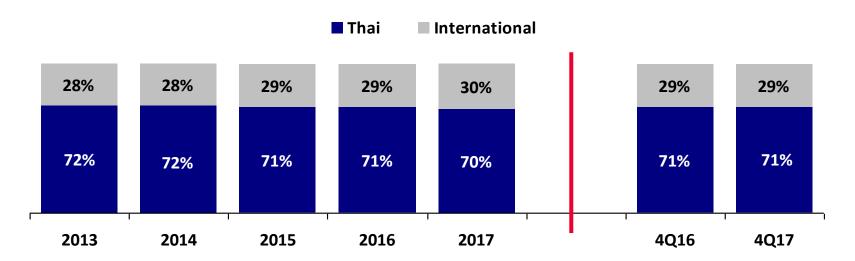






#### Thai and International Patients

#### **Revenue Contribution by Nationality**



## **Commentary**

- 2017 revenues from Thai patients grew 5% yoy while international patients grew 8% yoy
  - Top 5 international patient revenues are from Japan, Myanmar, UAE, UK and USA which contribute 2.3%, 1.7%, 1.6%, 1.6% and 1.5% of total patient revenues respectively
  - Key growth for International patient revenues are Kuwait (+34%), China (+26%) and France (+21% yoy)







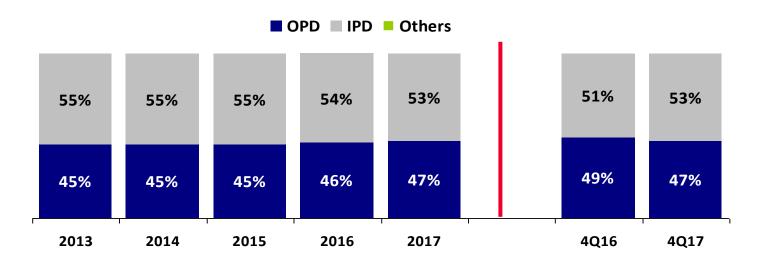




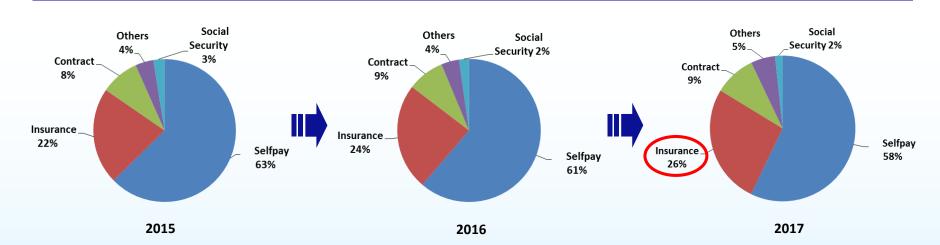


## **Patient Mix**

## **Revenue Breakdown by Patient Types**



## **Patient Revenue by Payor: Increasing Insurance Portion**









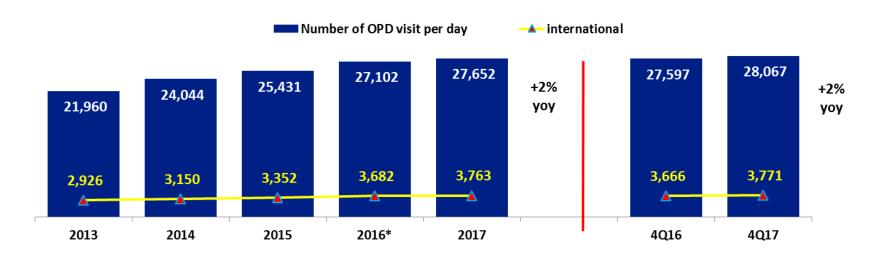




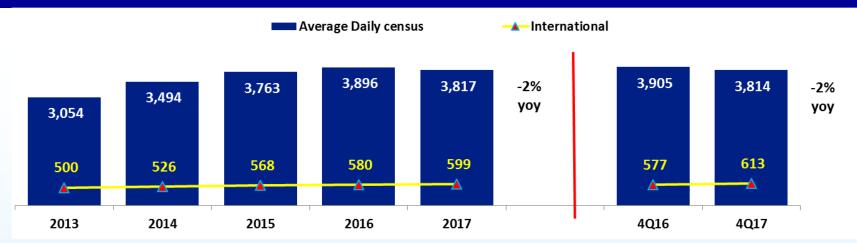


#### **Patient Volume**

#### **Number of OPD Visits per Day**



## **Average Daily Census (ADC)**



Remarks: - Including social security







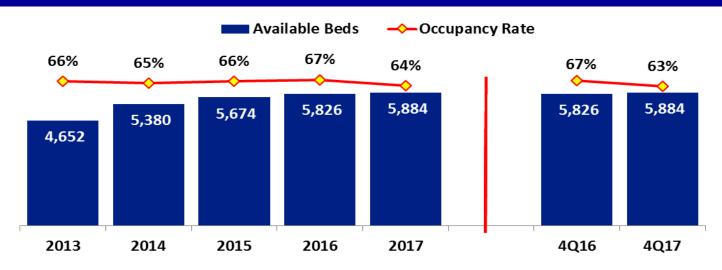




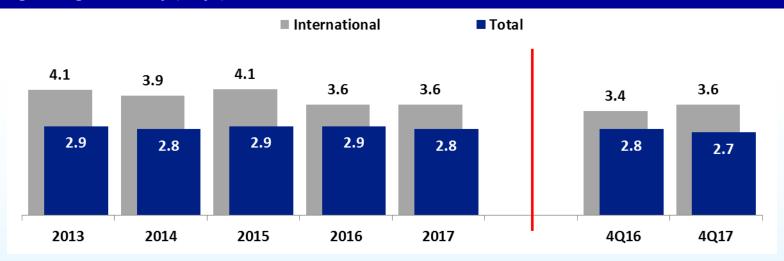


## **Utilization of Beds**

#### **Occupancy Rate Based on Available Beds**



## **Average Length of Stay (days)**



Remarks:- Including social security patients













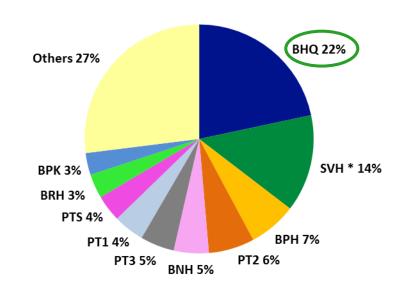
# **Financial Highlights**

## **Diversified Sources of Revenues and Profitability**

#### **Operating Income Contribution in 2017**

# Others 38% SVH \* 12% PT2 5% BRH 3% BPK 4% PT1 4% PTS 4% PT3 4%

#### **Total EBITDA Contribution in 2017**



#### **Commentary**

- In 2017, top 5 hospitals contributed 43% of total revenues and 54% of total EBITDA
- Key hospitals that drive revenue growth were PLR (+48%), SCH (+37%), BKN (+35%), BCM (+29%) and BUD (+19% yoy)

Remark: - Operating income is calculated from hospital revenue + revenue from sales of goods and food + other income

- EBITDA is calculated from revenue from hospital operations + revenue from F&B + other income cost from hospital operations SG&A expenses
- Hospital abbreviation shown on Appendix 1













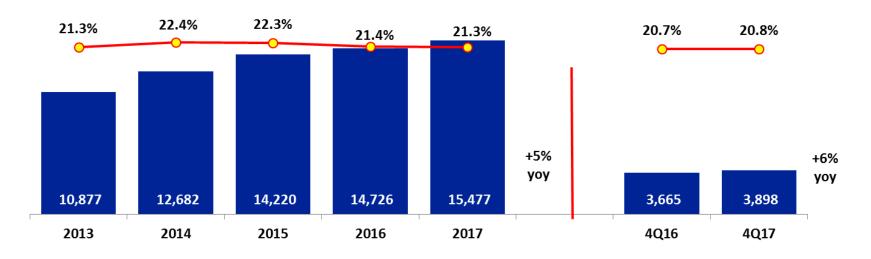
<sup>\*</sup> SVH also included SNH performance

## **Profitability Trend**

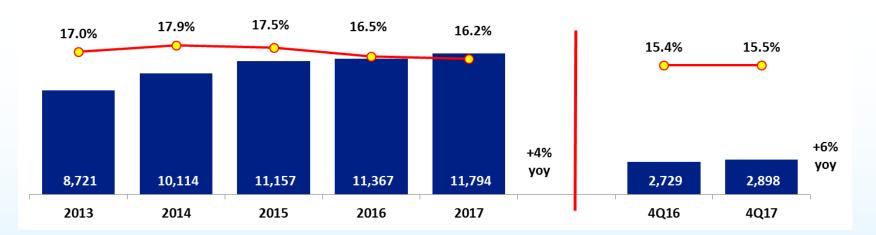
## **EBITDA & EBITDA Margin**

(THB mm)

(THB mm)



## EBIT & EBIT Margin















(THB mm)



## **Commentary**

- 2017 net profit increased +22% yoy due mainly to net gain on partial sale of investment in BH totaling
   Baht 2,195 million
- If excluded net gain on sales of investment in BH, 2017 net profit slightly decreased by 2% yoy mainly from an increase in finance expenses from convertible bonds, an issuance of debentures and long-term loans from financial institutions







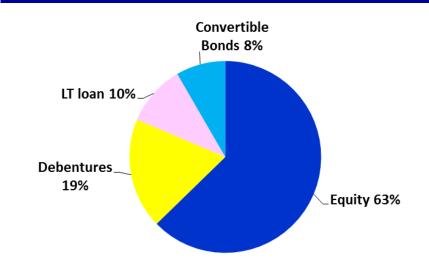






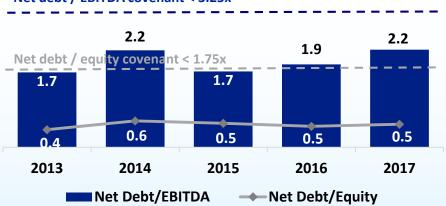
## **Capital Management**

#### **Capital Structure as of December 2017**



#### **Gearing Ratios: Well Within Covenants**

#### Net debt / EBITDA covenant < 3.25x



#### โรงพยาบาลกรุงเทพ BANGKOK HOSPITAL



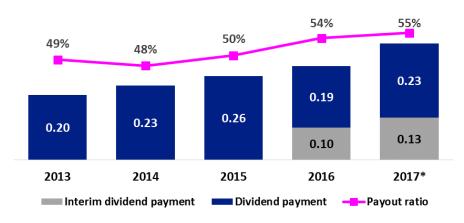






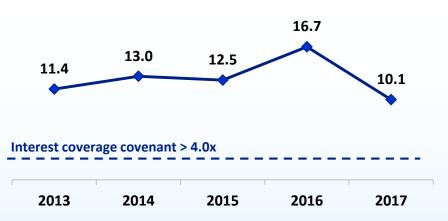


#### **Dividend Payment & Payout Ratio**



<sup>\*</sup> Board of Directors had resolution on 28 February 2018 to propose for dividend payment of Baht 0.36 per share.

#### **Interest Coverage**



## **Sustainability Development**

#### **Your Trusted Healthcare Network**

**Good Corporate** Governance

**Practiced good Corporate Governance to ensure** long-term growth and sustainability









**Employee Well-Being and Human Rights** 

Fully committed to support diversity and human rights in term of gender and cultural differences



**Environmental Friendly** 

**Encouraged reductions of energy use without** reducing the quality of care and raised awareness on efficient energy consumption



Social and Community **Development** 

**Encouraged donation of medical supplies and** equipment to unfortunate person

Provided health check-up to promote health and well-being of communities











## **Appendix 1**

## For More Information:- www.bangkokhospital.com

Group 1 (Bangkok&West&Cambodia)	Ownership	No. of Beds	Group 4 (North&Northeast)	Ownership No. of Beds
Bangkok Hospital	100%	343	26. Bangkok Udon (BUD)	100% 120
2. Bangkok Heart Hospital ├─ (BHQ)	100% 🥝	97	27. Bangkok Phitsanulok (BPL)	100% 195
3. Wattanosoth Hospital	100% 🥝	48	28. Bangkok Khon Kaen (BKN)	100% 140
4. Bangkok Huahin (BHN)	100% 🥝	60	Group 5	
5. Bangkok Sanamchan (BSN)	100%	200	29. Phyathai 1 (PT1)	100% 350
6. Thepakorn (TPK)	44.5%	100	30. Phyathai 2 (PT2)	99.2% ⊘ 260
7. Bangkok Phetchaburi (BPR)	100%	255	31. Phyathai 3 (PT3)	98.2% 240
8. Bangkok Muangraj (BMR)	100%	125	32. Phyathai Sriracha (PTS)	75.1% 350
9. Royal Phnom Penh (RPH)	100%	100	33. Phyathai Nawamin (PTN)	99.8% 140
10. Royal Angkor International (RAH)	80.0%	30	34. Paolo Paholyothin (PLP)	100% 300
Group 2			35. Paolo Samutprakarn(PLS)	93.6% 200
11. Samitivej Sukhumvit (SVH)	95.8%	275	36. Paolo Chokchai 4 (PLC)	85.7% 148
12. Samitivej Srinakarin (SNH)	95.8%	400	37. Paolo Rangsit (PLR)	100% 150
13. Samitivej Sriracha (SSH)	70.1%	184	38. Paolo Kaset (PLK)	100% 162
14. Samitivej Thonburi (STH)	63.5%	150	39. Paolo Phrapradaeng (PLD)	84.0% 60
15. Samitivej Chonburi (SCH)	100%	220	Group 6 (South)	
16. Samitivej Chinatown (SCT)	100% 🥝	59	40. Bangkok Phuket (BPK)	99.7% 🙆 266
17. BNH Hospital (BNH)	91.5% 🥝	144	41. Siriroj International (SIH)	100% 0 151
Group 3 (East)			42. Dibuk (DBK)	99.7% 100
18. Bangkok Pattaya (BPH)	97.3%	400	43. Bangkok Hat Yai (BHH)	98.8% 200
19. Bangkok Rayong (BRH)	100%	220	44. Bangkok Samui (BSH)	100% 🥝 52
20. Bangkok Chanthaburi (BCH)	99.7%	170	45. Bangkok Surat (BSR)	100% 150
21. Bangkok Trat (BTH)	99.8%	114	Group 7: Non-Hospital	
22. Sri Rayong (SRH)	100%	195	National Healthcare System	100%
Group 4 (North&Northeast)			Bio Molecular Laboratories	95.0%
23. Bangkok Chiangmai (BCM)	100%	181	3. The Medicpharma	87.1%
24. Bangkok Ratchasima (BKH)	91.4%	180	4. A.N.B Laboratories	100%
25. Bangkok Pakchong (BHP)	91.4%	31	5. Save Drug Center	100%
	32.770	01	6. General Hospital Products	45.8%
Pomarky Number of hode is structured hode	-			

Remark:- Number of beds is structured beds













## **Shareholding Structure**

(As of 29 December 2017)

		% of Shareholding
1	Mr. Prasert Prasarttong-Osoth, M.D. and family	23.8%
2	Mr. Wichai Thongtang and family	7.7%
3	Bangkok Airways*	7.3%
4	The Viriyah Insurance Co., Ltd.	6.1%
5	Thai NVDR Co., Ltd.	4.9%
6	Social Security Office	3.7%
7	Mr. Chirotchana Suchato, M.D. and family	2.7%
8	Ladpli family**	2.3%
9	Mr. Chuladej Yossundharakul, M.D. and family	1.9%
10	The Bank of New York Mellon	1.3%
	Total	61.7%

Source: Summary of the information from Thailand Securities Depository Company Limited (TSD)

<sup>\*\*</sup> Consisted of Miss Napamas Ladpli, Mrs. Atinuch Malakul Na Ayudhaya and Mr. Parameth Ladpli













<sup>\*</sup> Consisted of Bangkok Airways PCL and Bangkok Airways Holding Co., Ltd