



Bangkok Dusit Medical Services (BDMS)

10th Annual dbAccess Asia Conference

21-22 May 2019



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- 1Q19 in review
- Operational Statistics & Financial Highlights
- Healthcare Industry
- Company Background













BDMS Overview & Updates

BDMS

Overview



47 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

- Established on February 26, 1972
- 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	22	3,682
4	Samitivej Hospital	6	1,288
××	Phyathai Hospital	5	1,241
**	Paolo Hospital	6	1,008
ENH HOSPITAL SPICE 1895	BNH Hospital	1	144
R	Royal Hospital	2	130
	Local Hospital	5	598

^{*} Maximum number of beds according to structure of the hospitals





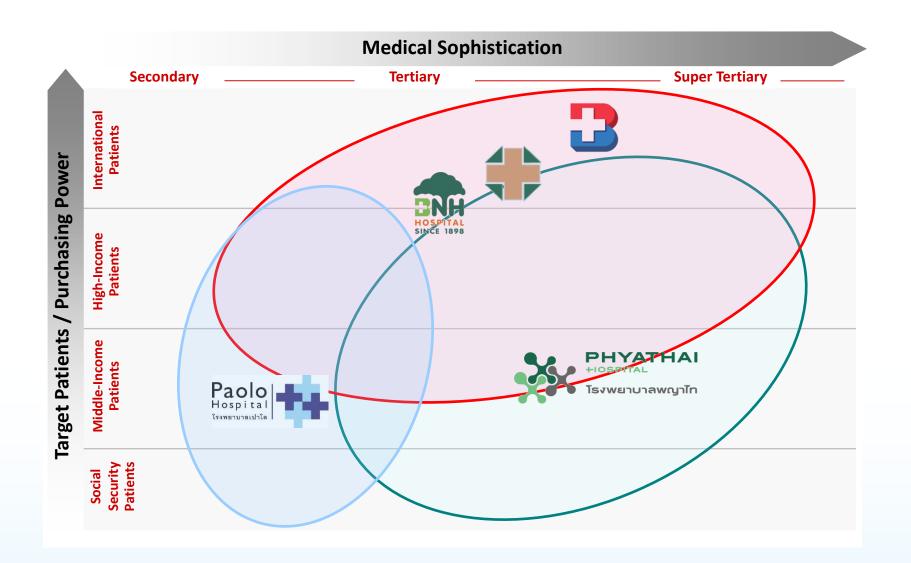








Diversification of Patient Mix









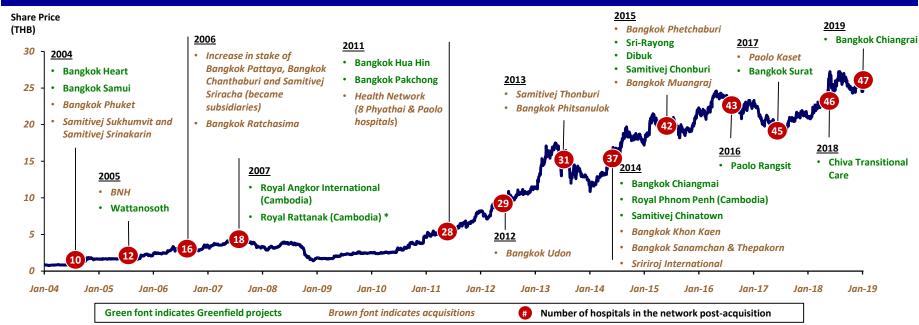






Successful Track Record of Expansion Through M&A and Greenfield Projects

Strong Share Price Performance Backed by a Successful Expansion Track Record



^{*} Transfer of business to our new facility, Royal Phnom Penh

Solid Revenue Growth Over the Past Decade (2004-2018 CAGR of 20.8%) with Resilient EBITDA margin *

Operating Income(THB mm) and EBITDA margin (%)



Source: Derived from BDMS' financial statements

BDMS has developed 16 new hospitals and acquired a total of 30 hospitals to date













^{*} Excluding non-recurring items

BDMS Complete Continuum of Healthcare



Centers of Excellence



Super Tertiary Care



Tertiary Care



Promotive

Preventive

Early Detection

Curative

Transitional

Rehabilitative



BDMS Wellness Clinic



Bangkok International



Chiva Transitional Care Hospital

Non-Hospital Strategic Investment



Sterile Drug Manufacturer & Distributor



Generic Drug Manufacturer



Drug Store













BDMS Five-Year Strategy

Projects in Pipeline & Strategy

2019 2020 2021-2023 **47 Hospitals** ~ 50 hospitals ~ 8.200 beds ~ 8.500 beds ~ 9.000 beds **Bangkok Hospital Jomtien Hospital Expansion of our** Chiangrai (233 beds) **Network Hospitals Projects in Pipeline** (80 beds) **Expansion of Samitive** Sukhumvit (36 beds) **Bangkok International** (175 beds) **Mövenpick BDMS Wellness** Resort Bangkok (290 rooms)

Volume & Margin Driven

- Center of Excellence
- Increase occupancy rate
- Expand insurance patient base

Innovation & Digital

- International medical affiliation
- Smart Virtual Hospital
- Heath application

Sustainability

- Quality & safety standard
- Good corporate governance
- Social responsibility



Strategy





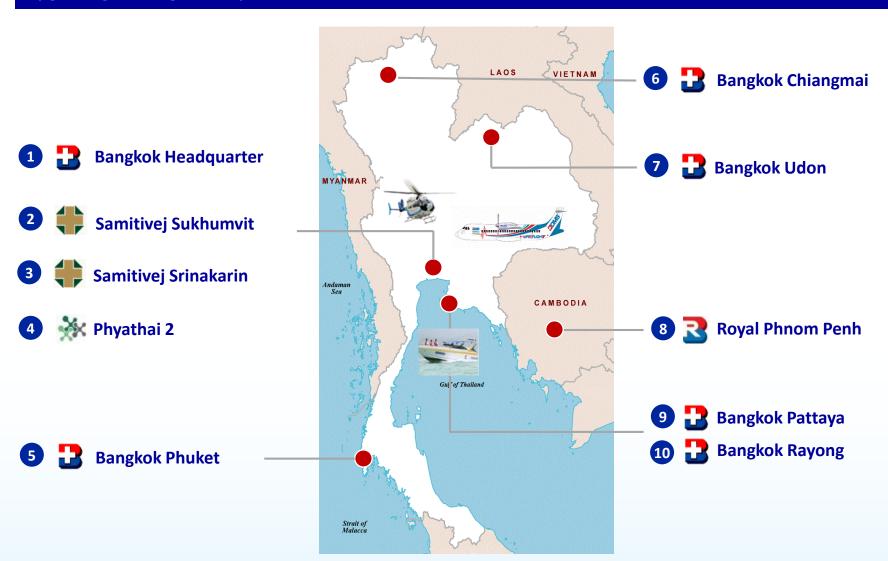






BDMS Centers of Excellence Network

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









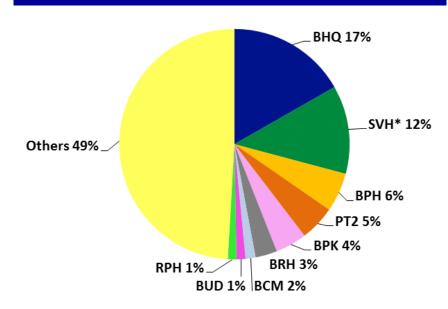


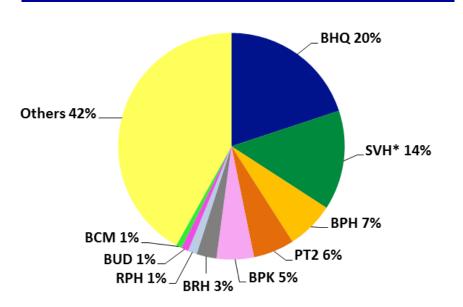


Diversified Sources of Revenues and Profitability

COE Operating Income Contribution in 1Q19

COE Total EBITDA Contribution in 1Q19





Commentary

- In 1Q19, 10 Centers of Excellence (COE) contributed
 - 51% of total revenues
 - 58% of total EBITDA

Remark: - EBITDA is calculated from revenue from hospital operations + revenue from goods + other income – cost from hospital operations – SG&A - Hospital abbreviation shown on Appendix













^{*} SVH also included SNH performance

Medical Cooperation

Local and International Partnership



 Collaboration on occupational health, pediatrics, rehabilitation, clinical simulation and informatics



Others international and local institutions



 Collaboration for education, training and research on orthopedics





 Collaboration for education and research on trauma and orthopedics



 Collaboration on Gastrointestinal Medicine



Collaboration for knowledge sharing on orthopedics



 Research collaboration on the TRFS laser device for brain tumor surgery













BDMS Network Capabilities

Alarm Center: One Number All Access For Life Care



New CAMTS-CAMTS EU: Dual Accreditation Awarded



- BDMS* had received dual accreditation of The Commission on Accreditation of Medical Transport Systems (CAMTS) from USA and EU
- CAMTS is a review organization dedicated to improving quality and safety of medical transportation systems including fixed wing, sky ICU, medical escort, ambulance, motorlance and hydrolance

^{* 13} BDMS network hospitals







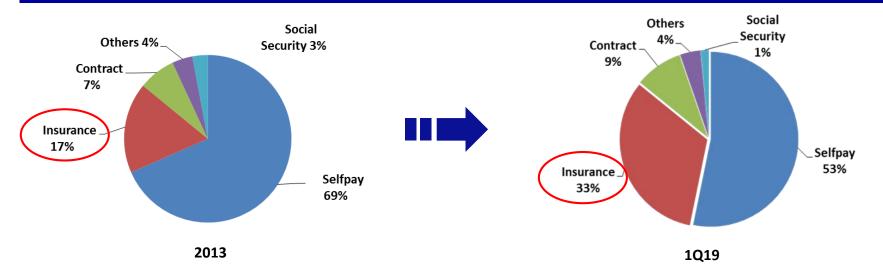






Expanding Insurance Patient Base

Patient Revenue by Payor: Increasing Insurance Portion



Strategic Focus on Health Insurance

- Launched exclusive health insurance for BDMS network
 - Increase hospital traffic in BDMS network
 - Target insurance payor to increase from 29% in 2018 to 35% in the next few years
- E-Claim & E- Billing
- Utilization management













Exclusive Health Insurance at BDMS Hospital Network

My First Class Healthcare @ BDMS by Allianz Ayudhya



- Maximum benefit per year: THB 80m to THB 100m
- Covering all medical treatments
- Target high-end market

The Viriyah Insurance Program 1 (Gold)



- Maximum benefit for injury or sickness per disability:
 THB 1m to THB 5m
- Target mid to high-end market

The Viriyah Insurance Program 2 (Deductible Plan)



- Maximum benefit per year: THB 400k to THB 800k
- Choice of THB 20,000/ THB 50,000 deductible per year
- Target employee who already have welfare from company

The Viriyah Insurance Program 3 (Delight)



- Maximum benefit per year: THB 450k to THB 1.5m
- Target mid market













Samitivej Japanese Hospital

Expansion of Samitivej Sukhumvit



- Soft opening since 4 April 2019 (Grand opening on 4 June 2019)
- Greenfield 36-bed hospital located opposite to Samitivej Sukhumvit
- Focusing on Liver GI, Japanese OPD, Endoscopy and high intensity cases













Samitivej Japanese Hospital

Expansion of Samitivej Sukhumvit



 Collaborate with Takatsuki Hospital, Japan in terms of strengthen management system and service in Japanese Culture













Samitivej Japanese Hospital

Expansion of Samitivej Sukhumvit



Japanese Wellness Center



GI & Endoscopy Unit



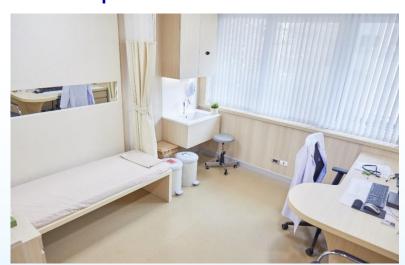












Exam Room

Samitivej Virtual Hospital

Online Hospital Providing Telemedicine Services Through Mobile Devices



Overall Services



Teleconsultation Service

- Real time video call
- Operates 24 hours, 7 days a week
- Care by Samitivej nurses and doctors
- Selected specialized care
- Consultation Summary Report



Care at Home

- Blood testing at home
- Vaccine at home
- Care by professional nurses



Medicine Delivery

- Same day delivery inside Bangkok
- Next day delivery outside Bangkok













Samitivej Virtual Hospital

Access Channels



























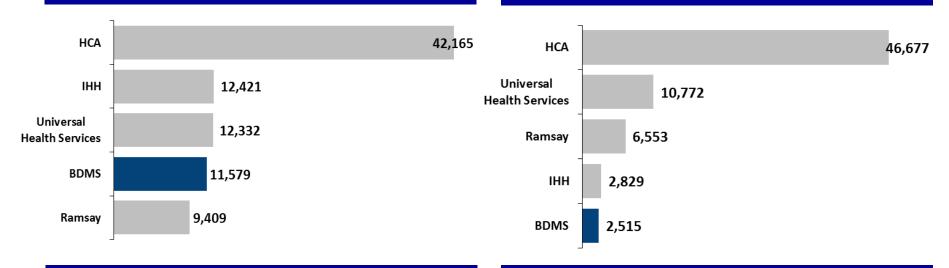




Global Hospital Rankings

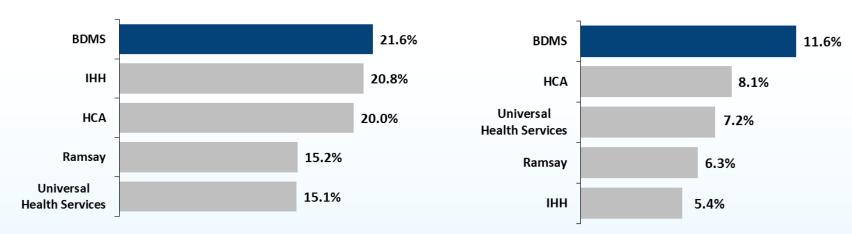


Revenue (USD mm)



EBITDA Margin

Net Profit Margin



Remark: - Market capitalization as of 17 May 2019

- Financial performance for year ended December 2018 except Ramsay for the year ended June 2018













1Q19 in Review

Consolidated Financial Summary

1Q19 Results

	1Q19	
	Chg	% to Revenue
	(yoy)	
Operating income	+5%	
	(THB 20,770 mm)	
Patient revenue	+5%	
	(THB 19,793 mm)	
Breakdown by location		
Bangkok & Vicinity	+4%	57%
Outside Bangkok	+6%	43%
Breakdown by nationality		
Thai	+4%	67%
International	+8%	33%
Breakdown by type of patients		
Outpatients	+7%	45%
Inpatients	+4%	55%













Consolidated Financial Summary

1Q19 Profitability Ratio

(THB mm)	1Q19	1Q18	Chg (yoy)
EBITDA *	5,070	4,933	3%
EBITDA margin *	24.4%	24.9%	
Core profit	2,926	2,919	Flat
Core profit margin	14.1%	14.8%	
Net profit	8,439	2,919	189%
Net profit	40.6%	14.8%	

^{*} Excluding non-recurring items

Non recurring items (net of income tax)	THB mm
1. Gain on divestment in Ramkhamhaeng Hospital	6,094
2. Additional provisions for employee benefits	(493)
3. One-time expenses in finding the land to locate electricity sub-station to accommodate the electricity usage at Bangkok International Hospital	(88)
Total	5,513













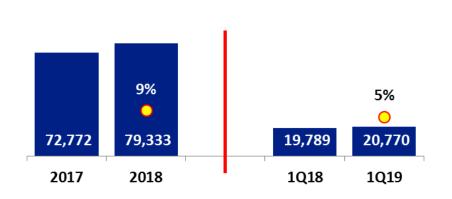
Operational Statistics & Financial Highlights

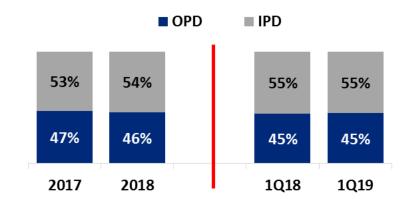
Operating Income Growth

Operating Income

(THB mm)

Revenue Breakdown by Patient Types





Commentary

- 1Q19 Operating income increased by 5% yoy mainly from
 - Patient revenue increased 5% yoy, attributed to
 - Higher price intensity from Center of Excellence
 - Strong growth from international patients of 8% yoy
 - Increase insurance patient base from 29% of patient revenue in 1Q18 to 33% in 1Q19

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













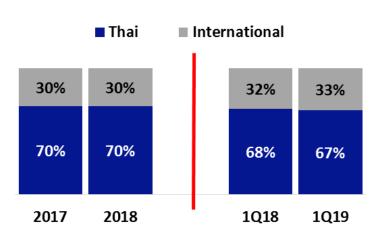
Thai and International Patients

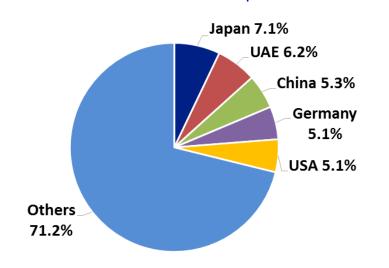
Revenue Contribution by Nationality

Top 5 Nationality contribution

% to patient revenue

% to international patients' revenue





Commentary

- In 1Q19, strong growth from international patients of 8% yoy
 - Key growth for International patient revenues are UAE (+75%), Oman (+75%) and Cambodia (+22% yoy)
- Thai patients grew 4% yoy due to high base of 1Q18 from high influenza and outbreak







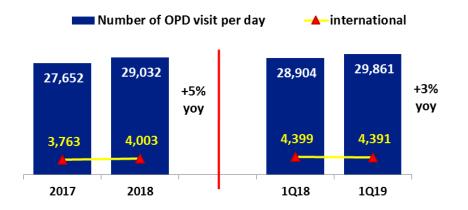




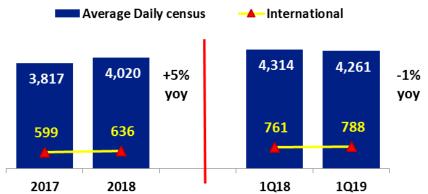


Operational Statistics

Number of OPD Visits per Day



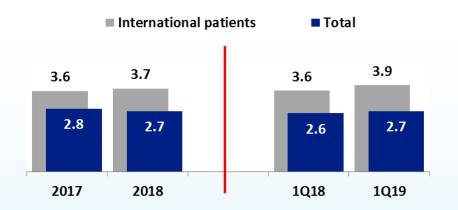
Average Daily Census (ADC)



Occupancy Rate Based on Available Beds



Average Length of Stay (days)



Remarks: - Including social security













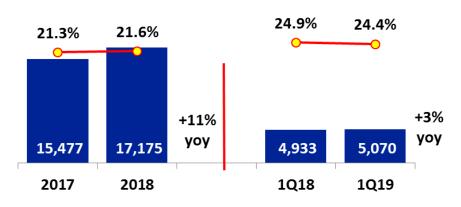
Profitability Trend

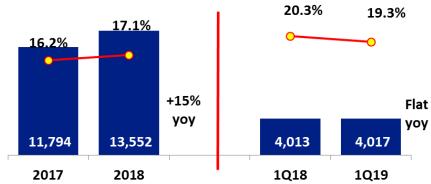
EBITDA & EBITDA Margin *

(THB mm)

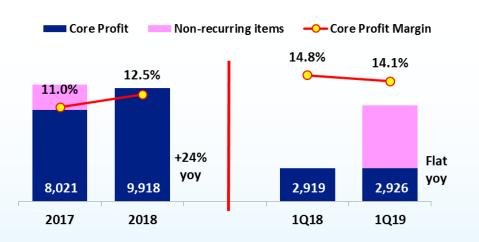
EBIT & EBIT Margin *

(THB mm)





Core Profit & Core Profit Margin * (THB mm)



Commentary

- In 1Q19, core profit were THB 2,926 million with net profit margin of 14.1%
- If included non-recurring items totaling of THB 5,513 million, net profit was 8,439 with net profit margin of 40.6%

^{*} Excluding non-recurring items







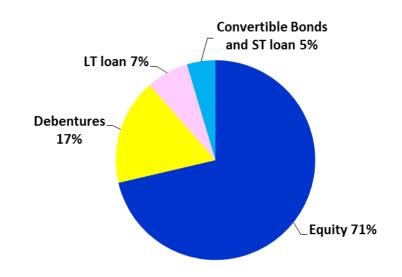




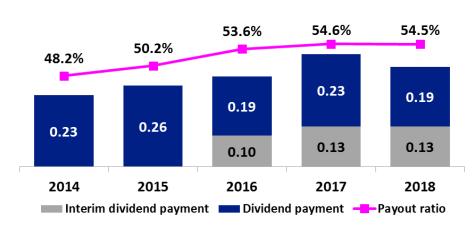


Capital Management

Capital Structure as of March 2019



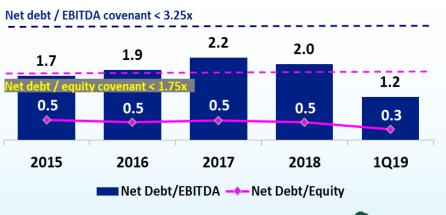
Dividend Payment & Payout Ratio



Gearing Ratios: Well Within Covenants

โรงพยาบาลกรุงเทพ

BANGKOK HOSPITAL



Interest Coverage









Healthcare Industry

Key Trend for Thai Healthcare Industry

Supportive Demographic and Economic Trends

- Aging demographics and rising income support growth of Thai healthcare
- Thailand as top tourist destination, capable medical personnel, convenient infrastructure & facilities and value for money attract medical tourism

Healthy Trend

- Increase health conscious lifestyle driven demand on preventive care
- Shifting from traditionally treatment-based approach to preventive care which focuses on individual genetic, wellness, early detection, vaccination, diet and exercise including mental health awareness

Health Insurance

- Insurance companies increase co-operation with local hospitals to increase Thailand's private health insurance penetration
- Thai Government approved tax break on premiums paid for health insurance supporting an increase in 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









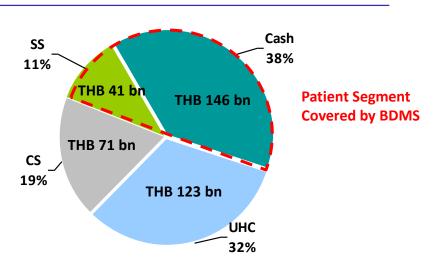




Thailand Healthcare Coverage

Healthcare Segments in Thailand

Total Expenditure for 2016: THB 381 bn



Source: National Health Security Office (NHSO), The Office of the National Economic and Social Development Board (NESDB) and Social Security Office (SSO)

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 and Supply

Healthcare Supply in Thailand (2016)

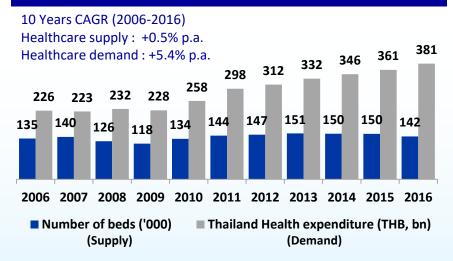
	# of Hospitals	# of Beds
Private	347	40,720
Public	864	100,782
Total	1,211	141,502

(Number per 10,000 population)	Thailand	Global*
Doctor	5	14
Nurse	24	30
Bed	22	26

^{*} Data as of 2014

Source: WHO, NESDB and NSO

Healthcare Demand Growing Faster than Supply



Source: NESDB and NSO







BDMS Market Coverage (2016)

	Total Private Beds	BDMS Registered Beds *	Market Share
Bangkok	17,404	2,869	16%
Central	11,614	2,004	17%
South	3,111	662	21%
Northeast	3,332	337	10%
North	5,259	194	4%
Total	40,720	6,066	15%

^{*} Company data as of October 2018 Source: NESDB and NSO

Low Healthcare Penetration

% of Healthcare expenditure to GDP

16.8%

9.9%

11.2%

9.9%

11.2%

16.8%

Nalard India Nalaysia Turkey China World UK Germany USA

Source: WHO (2015)



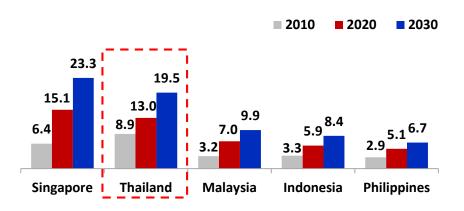




Increasing Thailand Healthcare Demand

Population Growth and Aging Profile

Percentage of population above 65 years (%)

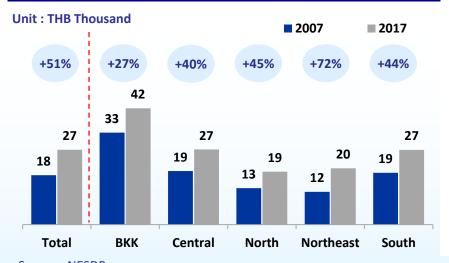


Commentary

- Aging population generates greater demand for healthcare expenditure
- Monthly income per household in Thailand increased by 51% during 2007-17. This would support growing demand for healthcare
- Health insurance reduces financial burden of outof-pocket expense. Increasing trend for health insurance will benefit private hospitals

Source: UN Population Database: 2015

Thailand Monthly Income per Household



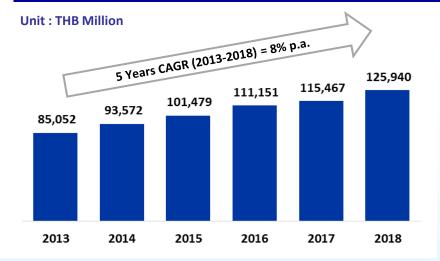
Source : NESDB







Health & Personal Accident Insurance Premium



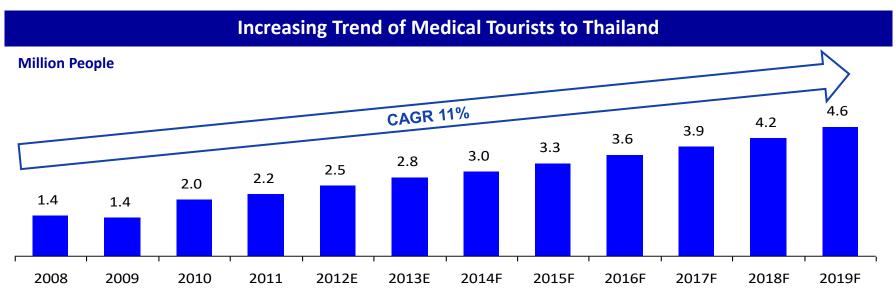
Source: OIC







Medical Tourism



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

Source: Medicaltourism.com (2018)









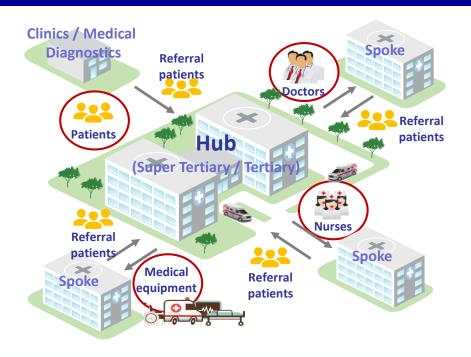




Company Background

'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
- Established system provides a platform for future expansion











BDMS Wellness Clinic

A Brand New Wellness Clinic Delivering World-Class Services







7 Centers of Preventive Excellence

- 1 Regenerative Clinic
- Musculoskeletal and Sports Clinic
- **Cardioscience Clinic**
- 4 Neuroscience Clinic
- 5 Digestive Wellness Clinic
- 6 Fertility Clinic
- 7 Dental Clinic
- BDMS Wellness Clinic signed hotel management contract with Mövenpick Hotels & Resorts in managing
 "Mövenpick BDMS Wellness Resort Bangkok" which is expected to be opened in 2019
- An international wellness resort with around 290 guest rooms located in the heart of Bangkok in coordination with BDMS Wellness Clinic which is located nearby to provide in-house personalized wellness program and promote prevention and lifestyle improvement











		% of Shareholding
1	Mr. Prasert Prasarttong-Osoth, M.D. and family	22.1%
2	Mr. Wichai Thongtang and family	7.3%
3	Bangkok Airways*	7.2%
4	Thai NVDR Co., Ltd.	6.7%
5	The Viriyah Insurance Co., Ltd.	6.1%
6	Social Security Office	4.1%
7	Mr. Chirotchana Suchato, M.D. and family	2.6%
8	Ladpli family**	2.4%
9	South East Asia UK (Type C) Nominess Limited	2.3%
10	Mr. Chuladej Yossundharakul, M.D. and family	1.9%
	Total	62.5%

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

^{**} Consisted of Miss Napamas Ladpli, Mrs. Atinuch Malakul Na Ayudhaya and Mr. Parameth Ladpli, M.D.













^{*} Consisted of Bangkok Airways PCL and Bangkok Airways Holding Co., Ltd

Investments

Investments in Other Hospitals : - Listed Companies

Bumrungrad Hospital PCL (BH)24.88%

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

Greenline Synergy
100%
Shared IT services

Bangkok Premier Insurance
100%
Health & life insurance broker
Broker

Non-Hospital Revenues



^{*} Not included all BDMS' investments







services



Transportation of patients via helicopter





THB mm

Bangkok Helicopter Services 100%

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











BDMS Awards & Recognition in 2018-2019









FinanceAsia
(May)
The Best Managed Healthcare
Company in Asia

Asiamoney
(September)
Most Outstanding Company in
Thailand – Healthcare Sector

Thailand's Top Corporate Brand Value 2018 – Healthcare Sector (September) from Chulalongkorn University



Top Innovative Organization
(October)
from National Innovation Agency,
SET and MAI



SET Awards
(November)
Outstanding Investor Relations Awards
(Market Cap over THB 100 bn)



IR Magazine Awards (December)













For More Information:- www.bangkokhospital.com

Group 1 (Bangkok&West&Cambodia)	Ownership	No. of Beds	Group 4 (North&Northeast)	<u>Ownership</u>	No. of Beds
1. Bangkok Hospital	100%	373	27. Bangkok Udon (BUD)	100%	120
2. Bangkok Heart Hospital (BHQ)	100%	97	28. Bangkok Phitsanulok (BPL)	100%	195
3. Wattanosoth Hospital	100%	48	29. Bangkok Khon Kaen (BKN)	100%	140
4. Chiva Transitional Care	100%	52	30. Bangkok Chiangrai (BCR)	100%	80
5. Bangkok Huahin (BHN)	100% 🥝	64	Group 5		
6. Bangkok Sanamchan (BSN)	100%	210	31. Phyathai 1 (PT1)	100%	224
7. Thepakorn (TPK)	44.5%	100	32. Phyathai 2 (PT2)	99.2%	260
8. Bangkok Phetchaburi (BPR)	100%	255	33. Phyathai 3 (PT3)	98.2%	267
9. Bangkok Muangraj (BMR)	100%	142	34. Phyathai Sriracha (PTS)	75.1%	350
10. Royal Phnom Penh (RPH)	100% 🥝	100	35. Phyathai Nawamin (PTN)	99.8%	140
11. Royal Angkor International (RAH)	80.0%	30	36. Paolo Paholyothin (PLP)	100%	267
Group 2			37. Paolo Samutprakarn(PLS)	93.6%	200
12. Samitivej Sukhumvit (SVH)	95.8%	275	38. Paolo Chokchai 4 (PLC)	85.7%	169
13. Samitivej Srinakarin (SNH)	95.8%	400	39. Paolo Rangsit (PLR)	100%	150
14. Samitivej Sriracha (SSH)	70.1%	184	40. Paolo Kaset (PLK)	100%	162
15. Samitivej Thonburi (STH)	63.5%	150	41. Paolo Phrapradaeng (PLD)	84.0%	60
16. Samitivej Chonburi (SCH)	100%	220	Group 6 (South)		
17. Samitivej Chinatown (SCT)	100%	59	42. Bangkok Phuket (BPK)	99.7%	266
18. BNH Hospital (BNH)	91.5%	144	43. Siriroj International (SIH)	100%	
Group 3 (East)			44. Dibuk (DBK)	99.7%	100
19. Bangkok Pattaya (BPH)	97.3%	400	45. Bangkok Hat Yai (BHH)	98.8%	200
20. Bangkok Rayong (BRH)	100%	220	46. Bangkok Samui (BSH)	100%	52
21. Bangkok Chanthaburi (BCH)	99.7%	170	47. Bangkok Surat (BSR)	100%	150
22. Bangkok Trat (BTH)	99.8%	114		100%	130
23. Sri Rayong (SRH)	100%	195	Group 7: Non-Hospital	4000/	
Group 4 (North&Northeast)			National Healthcare System Nie Malagylanda haratariaa	100%	
	100%	175	2. Bio Molecular Laboratories	95.0%	
24. Bangkok Chiangmai (BCM)		175	3. The Medicpharma	87.1%	
25. Bangkok Ratchasima (BKH)	91.4%	180	4. A.N.B Laboratories	100%	
26. Bangkok Pakchong (BHP)	91.4%	31	5. Save Drug Center	100%	
Remark:- Number of beds is structured beds	6. General Hospital Products	46.0%			

Remark:- Number of beds is structured beds โรงพยาบาลกรุงเทพ BANGKOK HOSPITAL









