

Bangkok Dusit Medical Services (BDMS)

12th Credit Suisse ASEAN Conference

7 January 2021



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BDMS Overview

BDMS



Overview



49 Hospitals



~ 8,600 Beds



11 Centers of Excellence



BDMS Wellness Clinic & Mövenpick BDMS Wellness Resort Bangkok



12,000+ Doctors 9,000+ Nurses 24,000+ Staffs



Pharmaceutical manufacturer and drug stores

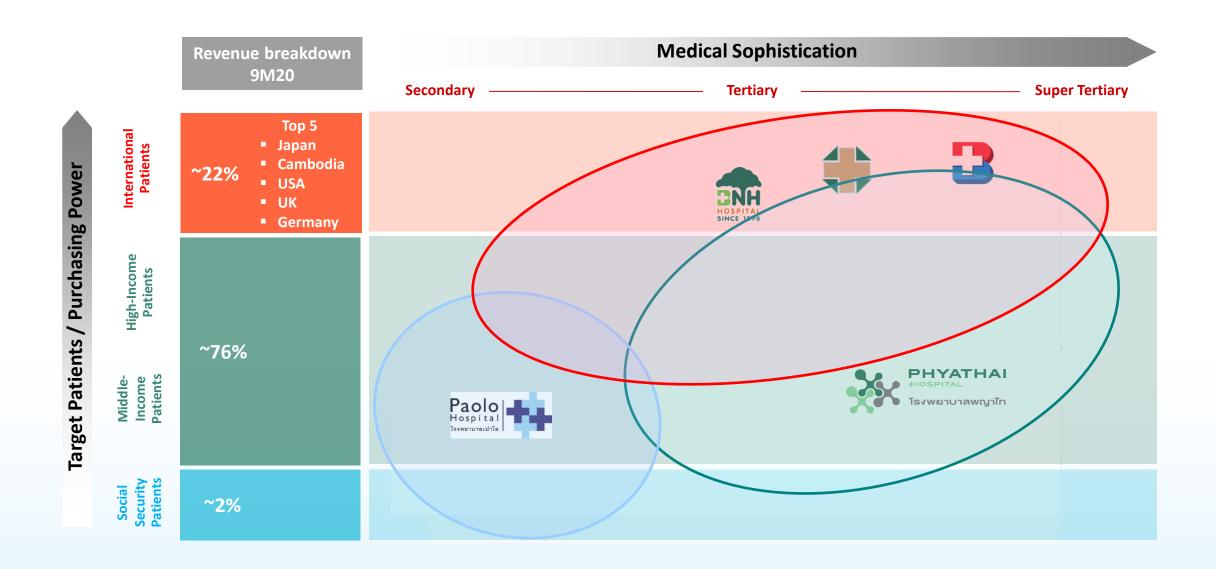
- Established on February 26, 1972
- Top 5 private hospital operators in the world by market capitalization
- Hub-and-Spoke model with an established patient referral system with the patients volume of
 - OPD visit ~ 30,500 patients a day
 - Average daily census ~ 4,100

Brand	No. of Hospitals	No. of Beds*
Bangkok Hospital	25	4,063
Samitivej Hospital	6	1,364
Phyathai Hospital	5	1,241
Paolo Hospital	6	1,008
BNH Hospital	1	144
Royal Hospital	2	130
Local Hospital	4	627

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

Diversification of Patient Mix





BDMS Complete Continuum of Healthcare





Center of Excellence



Super Tertiary Care



Secondary Care

Promotive

Preventive

Early Detection

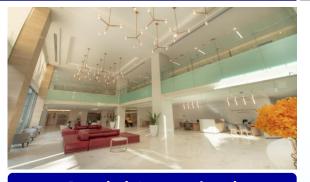
Curative

Transitional

Rehabilitative



BDMS Wellness Clinic



Bangkok International



Chiva Transitional Care Hospital

Non-Hospital Strategic Investment



Sterile Drug Manufacturer & Distributor



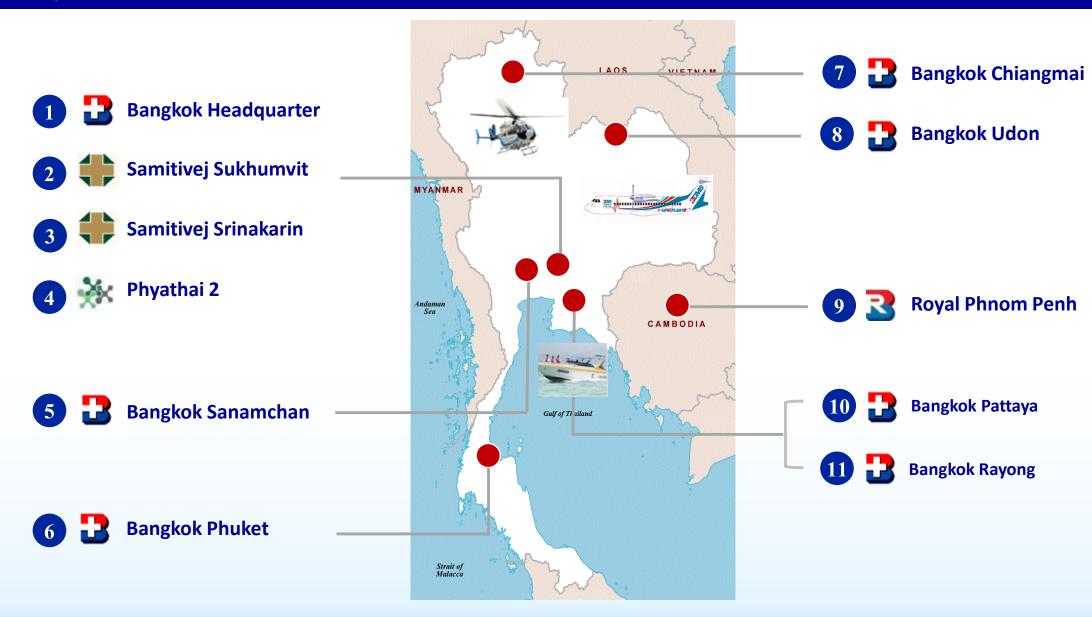
Generic Drug Manufacturer



Drug Store



Development of 11 Center of Excellence



Medical Cooperation



Local and International Partnership

Oregon Health & Science University

Collaboration on occupational health, pediatrics, rehabilitation, clinical simulation, preventive cardiology and dental



MD Anderson

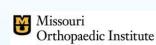
Sister institution to support basic research, efficient treatment and exchange of knowledge



Hannover **Medical School**

Collaboration for education and research on trauma and orthopedics







Dr. Keith L. Black

Director of the Maxine Dunitz Neurosurgical Institute at Cedars-Sinai

Collaboration on brain and nervous system



SANO HOSPITAL Sano Hospital

Collaboration on Gastrointestinal Medicine



Nagoya University

Collaboration for education and training



Bangkok Dusit Medical Services





Others

- Kameda Medical Center
- Straumann Holding AG
- Takatsuki Hospital
- Other international & local institutions



Exclusive Health Insurance at BDMS Hospital Network



My First Class Healthcare @ BDMS by Allianz Ayudhya







With Coverage limit up to 100 million Baht per year



Covers all medical treatments

The Viriyah Insurance Program

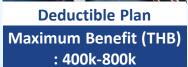


Maximum Benefit (THB)

: 1-5 MB









Viriyah Healthcare by BDMS

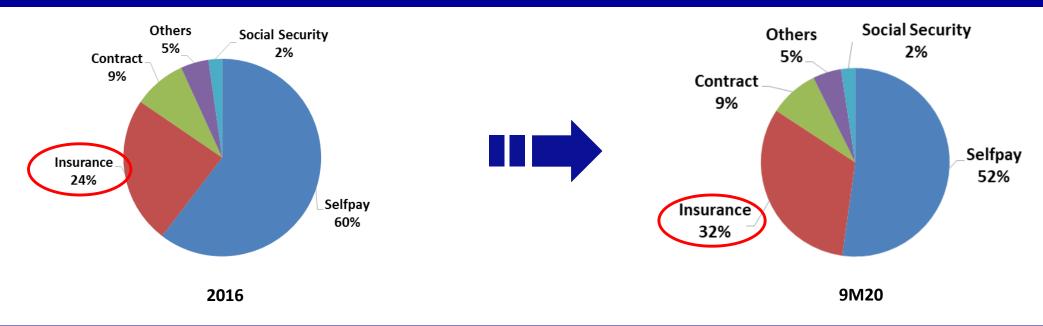
Maximum Benefit (THB)

: 100k-700k

Expanding Insurance Patient Base



Patient Revenue by Payor: Increasing Insurance Portion with a Target to Reach 40% in the Next 3 Years



Partnership with Ping An Health Insurance (PAH) – To Bolster Chinese Patients to BDMS Hospital Network



- BDMS offers PAH members with a wide spectrum of medical care including cancer screening and treatment programs, cardiovascular procedures, neurological and orthopedic services
- This partnership would help bolster Chinese patients from 4th largest inter patients in 2019 to be one of the top 3 inter patients in the next 3 years



Strategy & Projects in Pipeline

itegy at rejects in rip				
	Volume & Margin Driven	Innovati	on & Digital	Sustainability
Strategy	 Leverage more on Hub&Spoke Center of Excellence Increase occupancy rate Expand insurance patient base 	InternationaSmart VirtuaHealth appli		Quality & safety standardGood corporate governanceSocial responsibility
	2021	2022	2023	2024-2025
	49 Hospitals			~ 50 hospitals
	• ~ 9,000 beds			• ~ 9,500 beds
Projects in Pipeline				SamitivejInternational Children(102 beds)
riojecto in ripellile	Existing Hospital Expansion (Occu	pancy Rate > 80%)		
	(30 beds) O Bangkok Chanthaburi	Paolo Chokchai 4 (59 beds) Bangkok Udon (142 beds)	Phyathai Sriracha (100 beds)Phyathai 1 (160 beds)	Expansion of our Network Hospitals
	(166 beds)			

BDMS Alternative Hospital Quarantine & Alternative State Quarantine





Alternative Hospital Quarantine

30 Hospitals Bangkok 17

🚹 BHQ, WSH

SVH, SNH, STH, SCT

₹ BNH

PT1, PT2, PT3, PTN

PLP, PLK, PLR, PLD, PLS, PLC

East

6

BPH, BRH, BTH

SCH, SSH

M PTS

North/Northeast

3

BCM, BCR, BUD

South

4

BPK, BSI, BHH, BSH



Alternative State Quarantine

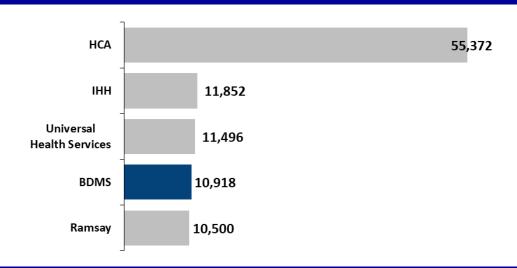
1 Resort Mövenpick BDMS
Wellness
Resort Bangkok
15 Day Homecoming
Health Watch



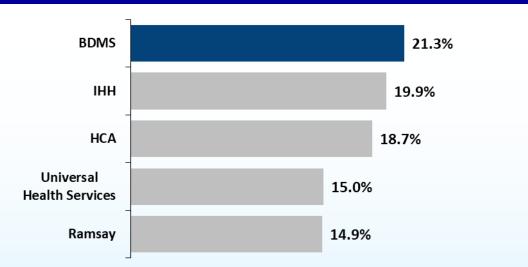
Global Hospital Rankings



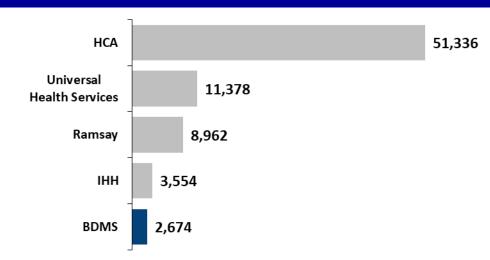
Market Capitalization (USD mm)



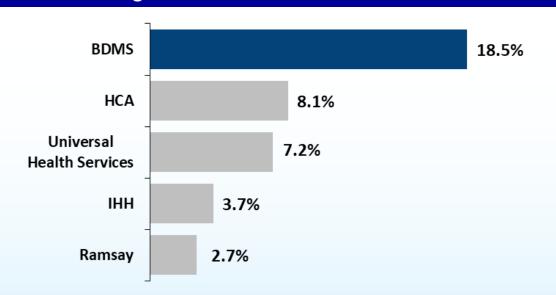
EBITDA Margin



Revenue (USD mm)



Net Profit Margin



Remark: - Market capitalization as of 4 January 2021



3Q20 & 9M20 in Review

3Q20 Operational Recap and Financial Summary



3Q20 Highlights

	3Q20	
	% Chg	% to
		Revenue
Operating income	(22)%	
	THB 16,976 mm	
Patient revenue	(23)%	
	THB 16,071 mm	
Breakdown by location		
Bangkok & Vicinity	(25)%	56%
Outside Bangkok	(18)%	44%
Breakdown by nationality		
Thai	(13)%	83%
International	(55)%	17%
Breakdown by type of patie	ents	
Outpatients	(15)%	49%
Inpatients	(28)%	51%

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

- All operational statistics are from BDMS management report

Profitability and Ratio

(THB mm)	3Q20	3Q19	Chg. (yoy)
EBITDA	4,149	5,089	(18)%
EBITDA margin	24.4%	23.3%	
Share of profit from	66	291	(77)%
associates		231	(77)70
Core profit	1,787	2,890	(38)%
Core profit margin	10.5%	13.2%	

Remark: - Margin was calculated as a percentage of operating income

- Patient revenue decreased by 23% yoy mainly from impact of COVID-19 most notably on inter patients
- With continued cost containment measure, EBITDA margin increased from 3Q19
- Core profit decreased by 38% yoy mainly from decrease in share of profit from Bumrungrad Hospital Public Co., Ltd. ("BH")

9M20 Operational Recap and Financial Summary



9M20 Highlights

	9M20	
	% Chg	% to
		Revenue
Operating income	(18)%	
	THB 50,956 mm	
Patient revenue	(19)%	
	THB 48,033 mm	
Breakdown by location		
Bangkok & Vicinity	(21)%	56%
Outside Bangkok	(14)%	44%
Breakdown by nationality		
Thai	(10)%	78%
International	(40)%	22%
Breakdown by type of pati	ents	
Outpatients	(15)%	47%
Inpatients	(21)%	53%

Profitability and Ratio

(THB mm)	9M20	9M19	Chg. (yoy)
EBITDA ^(*)	11,526	14,051	(18)%
EBITDA margin ^(*)	22.6%	22.6%	
Share of profit from associates	247	775	(68)%
Core profit	4,813	7,680	(37)%
Core profit margin	9.4%	12.3%	
Non-recurring items	13	5,514	(100%)
Net profit	4,827	13,195	(63)%
Net profit margin	9.5%	21.2%	

^(*) Excluding non-recurring items

Non-recurring items

- 9M20: Gain on partially disposed an investment in BH
- 9M19: Gain on sales in Ramkhamhaeng Hospital Public Co., Ltd. ("RAM"), provision for employee benefits and one-time expenses in finding land to locate electricity sub-station

BDMS Continued Cost Containment Measures in 2H20



O1 Clinical, Non-clinical Staff & Doctor Related Expenses

- Maintain Zero OT policy and freeze full-time headcount
- Encourage staff to use holiday leave or leave without pay
- Decrease minimum guarantee of doctors
- **02** Reduction of Non-Essential Expenses
 - Continue to decrease marketing, repair & maintenance and other expenses
 - Reduction of all meeting allowance
 - Reduce normal CAPEX spending of around THB 2 bn in 2020
 - Delay some investments especially renovation and supporting projects

Cash Flow Management

CAPEX

Operating

Expenses



Maintain healthy liquidity level to support on going operations amidst uncertainty



Operational Statistics & Financial Highlights

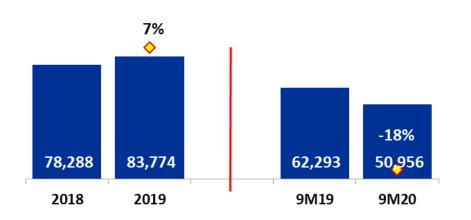
Operating Income Growth

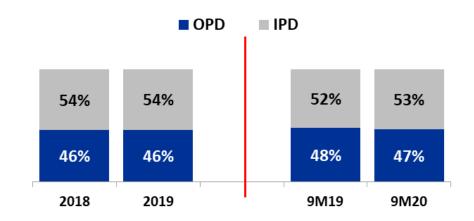


Operating Income

(THB mm)

Revenue Breakdown by Patient Types





- 9M20 Operating income decreased by 18% yoy mainly from
 - Patient revenue decreased by 19% yoy due to decrease in patient volume which affected by COVID-19 outbreak
 - Revenue from Bangkok & Vicinity hospitals decreased by 21% while outside Bangkok hospitals decreased by 14% yoy
 - Revenue from Outpatients decreased by 15% while inpatients decreased by 21% yoy
- Operating income improved in 3Q20 comparing to 2Q20 mainly from Thai and expatriates patients

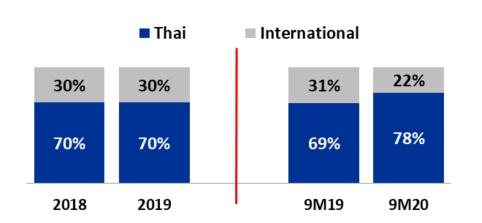
Thai and International Patients

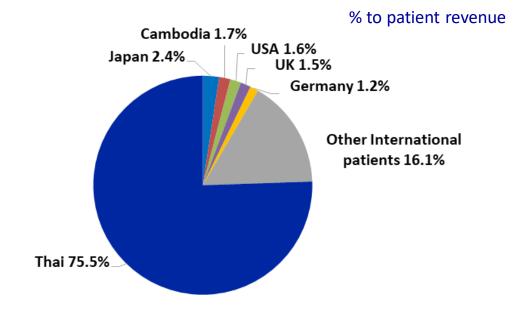
Bangkok Dusit Medical Services

Revenue Contribution by Nationality

Top 5 Nationality contribution in 9M20

% to patient revenue



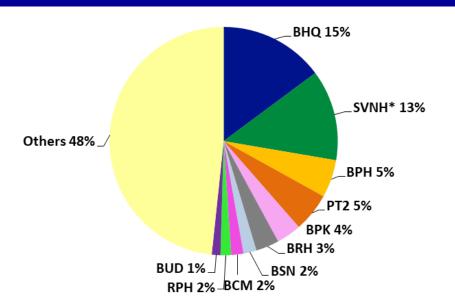


- In 9M20, Inter patients decreased by 40% yoy while Thai patients decreased by 10% yoy
 - The significant decrease was in 2Q20 due mainly to travel restrictions and national lockdown.
- Key reasons for negative growth in Inter patient revenue are Middle East (-74% yoy), Myanmar (-65%) and Australia (-54%)

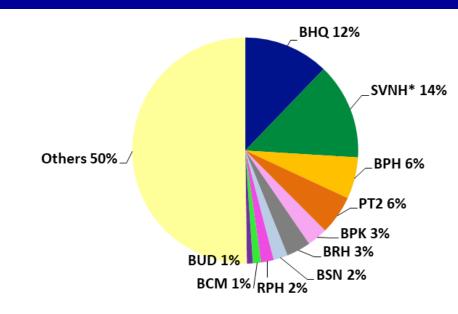
Diversified Sources of Revenues and Profitability



CoE Operating Income Contribution in 9M20



CoE Total EBITDA Contribution in 9M20



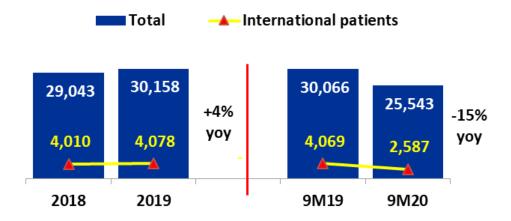
- In 9M20 revenue from Center of Excellence (CoE) decreased 23% yoy, decrease higher than a decrease of total operating income due to higher portion of international patients
- Top 3 CoE revenue of BHQ, SVNH and BPH decreased 32%, 20% and 17% yoy respectively

^{*} SVNH included SVH and SNH performance

Operational Statistics

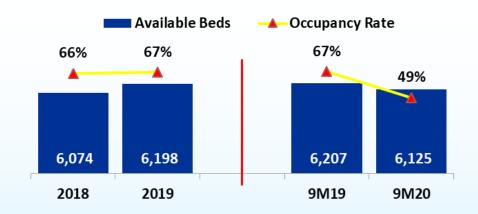
Bangkok Dusit Medical Services

Number of OPD Visits per Day

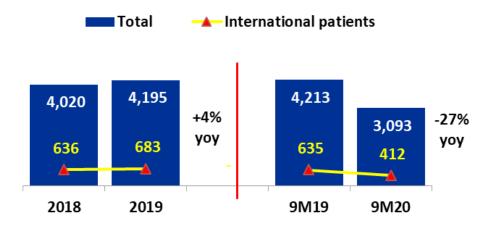


Remarks: - Including social security

Occupancy Rate Based on Available Beds



Average Daily Census (ADC)



Remarks: - Including social security while excluding new born patients

Average Length of Stay (days)



Profitability Trend

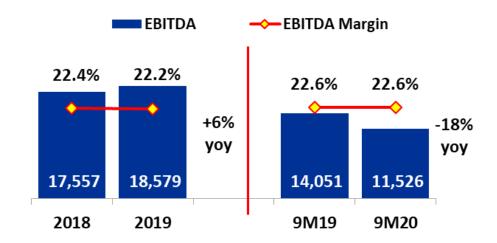
EBITDA & EBITDA Margin *

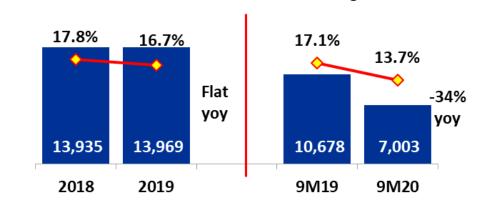
(THB mm)



Bangkok Dusit Medical Services

(THB mm)



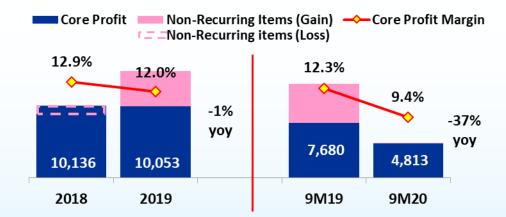


→ EBIT Margin

EBIT

Core Profit & Core Profit Margin *

(THB mm)



Commentary

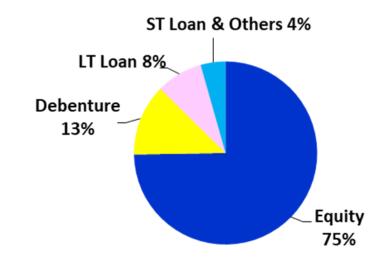
In 9M20, core profit was THB 4,813 million, decreased by 37% yoy. If including non-recurring items of THB 13 million in 9M20 and THB 5,513 million in 9M19, net profit decreased 63% yoy

* Excluding non-recurring items

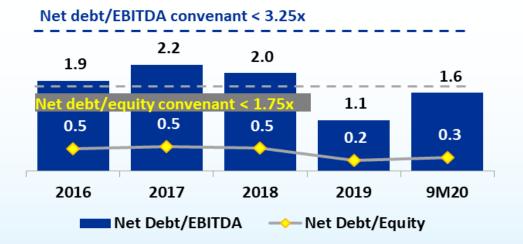
Capital Management

Bangkok Dusit Medical Services

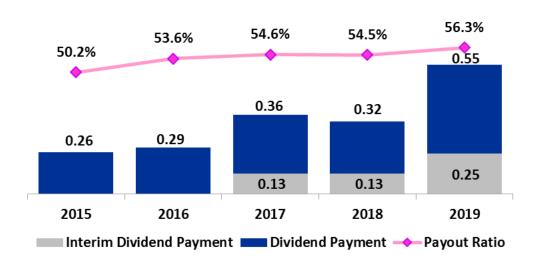
Capital Structure as of Sep 2020



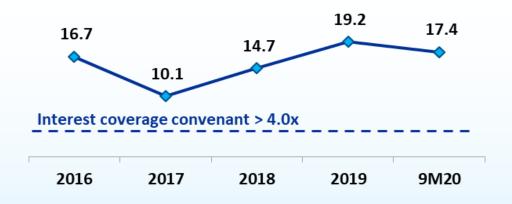
Gearing Ratios: Well Within Covenants



Dividend Payment & Payout Ratio



Interest Coverage





Healthcare Industry

Opportunities in Thailand Healthcare Sector



Despite sluggish local and global economy, Thai healthcare sector continues to be resilient

Rising Demand for Healthcare

- ✓ Aging demographics and increasing non-communicable diseases
- ✓ Growing medical tourism from capable medical personnel, convenient infrastructure and value for money

Positive Private Health Insurance Momentum

- ✓ Co-operation between insurance companies and local hospitals driving private health insurance penetration
- **✓** Thai Government tax break on premium for health insurance

Preventive Trend

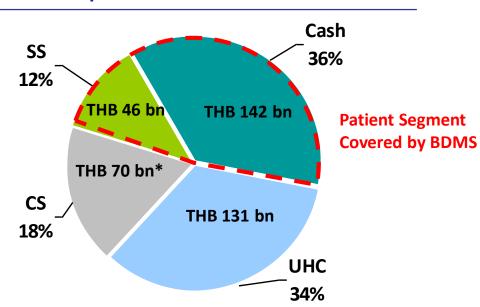
- ✓ Increasing health conscious lifestyle
- ✓ Focusing on precision medicine, wellness, early detection and exercise including mental health awareness

Health Tech

- **✓** Smart hospitals
- ✓ Mobile health application helps increase healthcare accessibility

Healthcare Segments in Thailand





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

* BDMS estimated

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

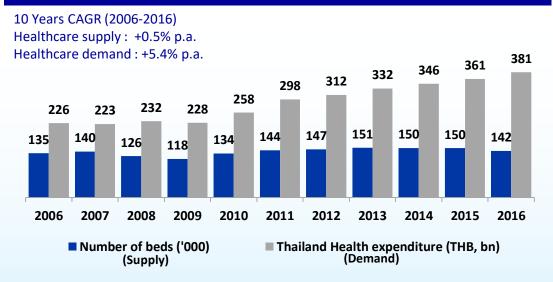
Healthcare Supply in Thailand (2020)

	# of Hospitals	# of Beds
Private	381	36,044
Public	899	97,791
Total	1,592	133,968

(Number per 10,000 population)	Thailand	Global
Doctor (2018)	8	15
Nurse (2018)	28	38
Bed (2016)	22	26

Source: WHO and Ministry of Public Health

Healthcare Demand Growing Faster than Supply



Source: NESDB and NSO

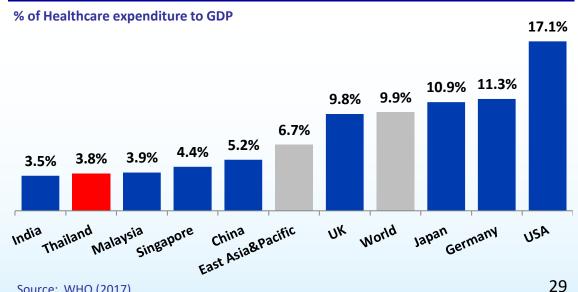


BDMS Market Coverage (2020)

	Total Private Beds	BDMS Registered Beds	Market Share
Bangkok	13,980	2,702	19%
Central	11,611	2,308	20%
South	2,863	729	25%
Northeast	3,318	384	12%
North	4,272	264	6%
Total	36,044	6,387	18%

Source: Department of Health Service Support, Ministry of Public Health

Low Healthcare Penetration

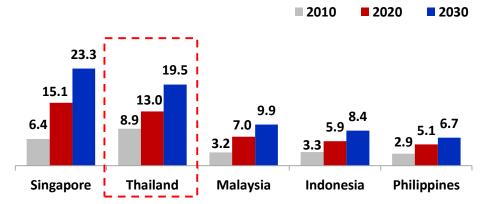


Source: WHO (2017)

Increasing Thailand Healthcare Demand

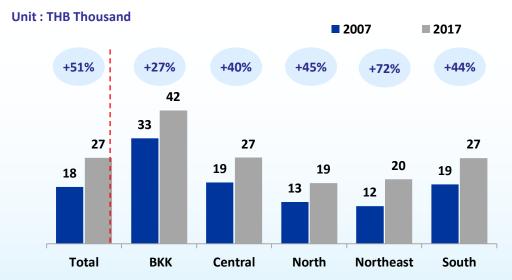
Population Growth and Aging Profile





Source: UN Population Database: 2015

Thailand Monthly Income per Household



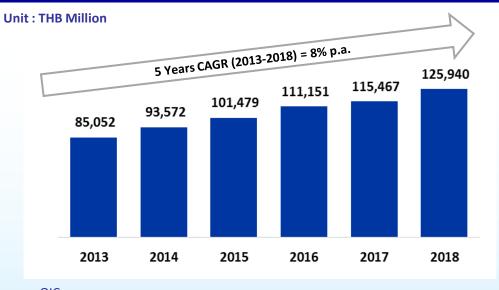
Source : NESDB



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 out-of-pocket expense. Increasing trend for health insurance will benefit private hospitals

Health & Personal Accident Insurance Premium



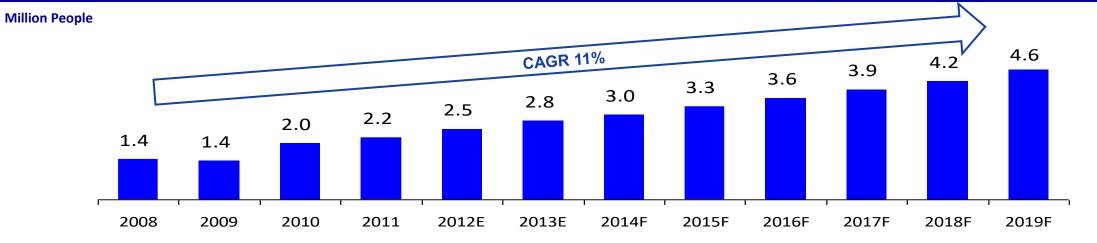
Source: OIC 30

Medical Tourism



31

Increasing Trend of Medical Tourists to Thailand

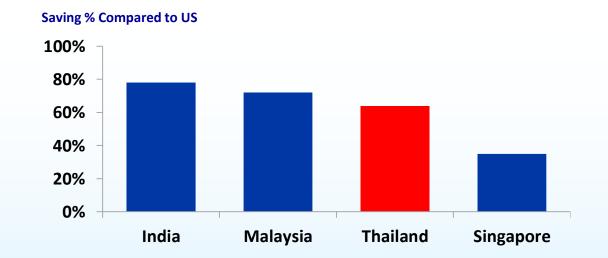


Source: EIC, SCB and Ministry of Commerce

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
IVF Treatment	12,400	14,900	4,100	6,900	2,500

Saving as Compared to Other Medical Tourism Market



Source: Medicaltourism.com (2019)

^{*} Excluding doctor fee

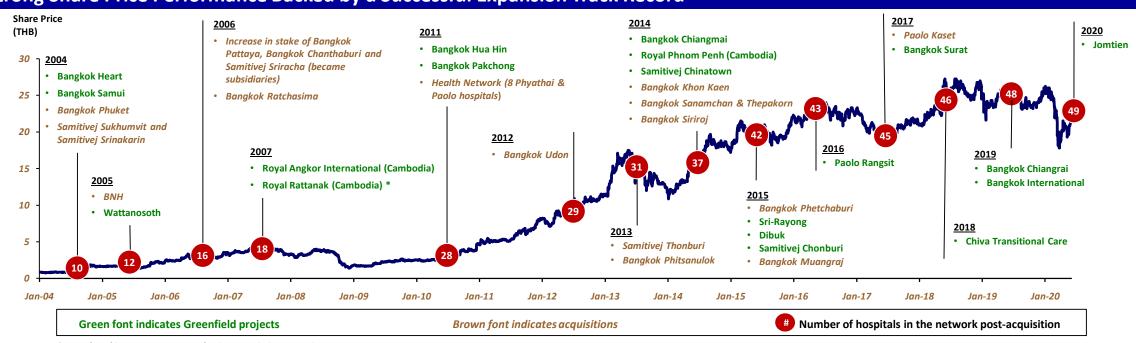


Company Information

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

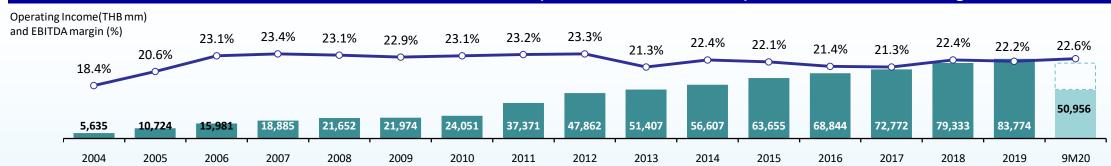


Strong Share Price Performance Backed by a Successful Expansion Track Record



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

Solid Revenue Growth Over the Past Decade (2004-2019 CAGR of 19.7%) with Resilient EBITDA margin *



Source: Derived from BDMS' financial statements

 $^{{\}it *Excluding non-recurring items}$

Key Initiatives During COVID-19

Healthy BOT



- A Healthy Bot, equipped with a camera and microphone, helps connecting patients under investigation in isolation unit to reduce human contact and to avoid cross infection
- The smart robot, available 24 hours, also helps ease the workload of clinical staffs



Tytocare

















- Tytocare is an innovative medical exam device in a modern, portable format, designed for use at home by anyone, anywhere
- It can online examination can check temperature, lung,
 heart and ears, throat and skin
- BDMS donated 200 TytoCare devices to use in public hospitals

Key Initiatives During COVID-19



Example of Our Services



 Samitivej Virtual Hospital
 An online hospital providing realtime consultation with doctors via mobile phone application



Bangkok Hospital Delivery
 Services, a tele-consultation and in-home health services for blood sample, vaccination and medication



 Many hospitals in our network offer drive thru services for vaccination

Thailand Sustainability Investment (THSI)



BDMS Now Part of 2020 Thailand Sustainability Investment (THSI)









Sustainability Investment (THSI) for the first year with outstanding performance on Environmental, Social and Governance (ESG) aspects, embracing more sustainable development practices into our business process



Shareholding Structure

+}	DM	IS
Bangkok	Dusit Medical	Services

		% of Shareholding
1	Mr. Prasert Prasarttong-Osoth, M.D. and spouse	15.9%
2	Thai NVDR Co., Ltd.	8.3%
3	Bangkok Airways PCL and Bangkok Airways Holding Co., Ltd.	6.5%
4	The Viriyah Insurance PCL	5.9%
5	Miss Poramaporn Prasarttong-Osoth, M.D.	3.5%
6	Social Security Office	3.3%
7	Mr. Chirotchana Suchato, M.D. and spouse	2.5%
8	South East Asia UK (Type C) Nominees Limited	2.4%
9	UBS AG Singapore Branch	2.3%
10	Mr. Att Thongtang and spouse	2.1%
	Total	52.7%

Investments



Investments in Other Hospitals : - Listed Companies

Bumrungrad Hospital PCL (BH)22.78%

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 	47%	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 Broker	100%	Health & life insurance broker
Bangkok Helicopter Services	100%	Transportation of patients via helicopter services

* Not included all BDMS' investments

Appendix



For More Information:- www.bangkokhospital.com

Group 1 (Bangkok&West&Cambodia)	Ownership	No. of Beds	Group 4 (North&Northeast)	Ownership No. of Beds	Group 6 (South)	Ownership No. of Beds
Bangkok Hospital	100%]	373	26. Bangkok Chiangmai (BCM)	100% 175	44. Bangkok Phuket (BPK)	99.7% 🙆 266
2. Bangkok Heart Hospital	100%	97	27. Bangkok Ratchasima (BKH)	91.4% 171	45. Bangkok Siriroj (BSI)	100% 🥝 151
3. Wattanosoth Hospital - (BHQ)	100% - 📀	48	28. Bangkok Pakchong (BHP)	91.4% 31	46. Dibuk (DBK)	99.7% 100
4. Chiva Transitional Care	100%	52	29. Bangkok Udon (BUD)	100% 120	47. Bangkok Hat Yai (BHH)	98.8% 200
5. Bangkok International	100%]	172	30. Bangkok Phitsanulok (BPL)	100% 195	48. Bangkok Samui (BSH)	100% 🥝 52
6. Bangkok Huahin (BHN)	100% 📀	64	31. Bangkok Khon Kaen (BKN)	100% 140	49. Bangkok Surat (BSR)	100% 150
7. Bangkok Sanamchan (BSN)	100%	210	32. Bangkok Chiangrai (BCR)	100% 80		
8. Thepakorn (TPK)	50.0%	100				
9. Bangkok Phetchaburi (BPR)	100%	255	Group 5		Group 7: Non-Hospital	
10. Bangkok Muangraj (BMR)	100%	142	33. Phyathai 1 (PT1)	98.6% 224	National Healthcare System	100%
11. Royal Phnom Penh (RPH)	100% 🥝	100	34. Phyathai 2 (PT2)	97.8%	Bio Molecular Laboratories	95.0%
12. Royal Angkor International (RAH)	80.0%	30	35. Phyathai 3 (PT3)	97.6% 267	3. The Medicpharma	87.1%
			36. Phyathai Sriracha (PTS)	74.2% 350	4. A.N.B Laboratories	100%
Group 2			37. Phyathai Nawamin (PTN)	99.8% 140	5. Save Drug Center (SDC)	100%
13. Samitivej Sukhumvit (SVH)	95.8%	311	38. Paolo Paholyothin (PLP)	100% 267	6. General Hospital Products	47.0%
14. Samitivej Srinakarin (SNH)	95.8%	400	39. Paolo Samutprakarn(PLS)	93.7% 200	o. General Hospital Floadets	17.676
15. Samitivej Sriracha (SSH)	70.1%	184	40. Paolo Chokchai 4 (PLC)	85.7% 169		
16. Samitivej Thonburi (STH)	64.0%	150	41. Paolo Rangsit (PLR)	100% 150	BDMS Wellness	
17. Samitivej Chonburi (SCH)	100%	260	42. Paolo Kaset (PLK)	100% 162	1. BDMS Wellness Clinic	100%
18. Samitivej Chinatown (SCT)	100%	59	43. Paolo Phrapradaeng (PLD)	84.0% 60	2. BDMS Wellness Resort	100%
19. BNH Hospital (BNH) 91.5% 🥝 14		144	43. Table Thapladacing (125)	54.070	(Mövenpick BDMS Wellness	Resort)
Group 3 (East)						
20. Bangkok Pattaya (BPH)	97.3%	400				
21. Bangkok Rayong (BRH)	100%	220				
22. Bangkok Chanthaburi (BCH)	99.7%	185				
23. Bangkok Trat (BTH)	99.8%	114				
24. Sri Rayong (SRH)	100%	195				
25. Jomtien (JTH)	100%	232				
						39

Remark:- Number of beds is structured beds