


Physical and financial participation of teaching hospitals in private care in São Paulo - Brasil

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SUMMARY

OBJECTIVE: To evaluate the physical and financial participation of private health insurance beneficiaries in the TH located in the State of Sao Paulo, regarding the care of Brazilian Unique Health System patients, in the year 2017.

METHODS: The research data were obtained from the System of Evaluation of the Teaching Hospitals (SAHE), of the State Department of Health of São Paulo (SES/SP).

RESULTS: It was observed that, on average, the TH analyzed provide 17% of their operational vacancies for the Supplementary Health System, and that the financial return is better in the philanthropic ones.

CONCLUSIONS: The health care services provided by TH deserve to be deepened, evaluating the real advantages obtained in the provision of services, given that supplementary health care requires differentiated infrastructure, and mainly the knowledge of operational costs in order to stipulate the procedures' price.

KEYWORDS: Health management. Public health. Supplementary health. Hospitals, teaching. Financial management.

INTRODUCTION

The Brazilian Constitution of 1988 establishes the Single Health System (SUS) along with the Supplementary Health System (SS), regulated by the National Supplementary Health Agency (ANS), for assistance to Brazilians, having covered 25% of the 208.5 million population in 2018. The systems rely on a network of health units, with emphasis on teaching hospitals (THs), whose certification began in 2004 with the Interministerial Decree N° 1,000¹, which established an important process to differentiate hospital groups that, in addition to health care, also carry out research and teaching. The country currently has 204 TH that are certified and under contracts, 52 of which are

located in the state of São Paulo (ESP)², of different legal formats: public (indirect and direct administration) and private (philanthropic and beneficent). Of all teaching hospitals in the ESP, 38 are general hospitals and 14 are specialized. They are all equally distributed in 14 of the 17 macroregions of health, being of different sizes and providing assistance to the SUS and the SS, especially in medium and high complexity cases (MAC). Of these, 32 hospitals are under state supervision and 20 under municipal supervision. Among them, 28 TH service not only SUS patients, but SS patients covered by Group Medicine, Medical Cooperative, Health Insurance, and Self-Management, in

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addition to the private health insurance plans of philanthropic entities.

It is a well-known fact that the financing of health care procedures by SUS is outdated regarding operational costs, which stimulates some hospitals to increase service to beneficiaries of private health insurance plans to cover the difference in costs in TH and reach solvency. This type of care is deserving of technical study to confirm its advantages. This phenomenon, known as double-door, is found also in Public and Private TH³⁻⁵.

To measure and compare are essential concepts in running a business, especially in healthcare units, whose activities are complex, complicated, highly disruptive, high risk and cost, with greater weight in TH, where research and educational activities are inherent and whose influence deserve physical and financial quantification and qualification for due governance and institutional sustainability.

By teaching hospitals (TH) we mean: University Hospital of ownership or management of a public or private university, or bound to them by assignment of use or leasing arrangements, duly formalized; School Hospital, of ownership or management by single medical schools, public or private, or bound to them by assignment of use or leasing arrangements, duly formalized; Auxiliary Teaching Hospital, one that is not owned or managed by a university or medical school alone, which develop programs of in-service training, undergraduate or post-graduate studies in health, duly under contract with an institution of

higher education, per the classification adopted by the Ministério da Educação⁶.

The State Department of Health of São Paulo (SESSP) also defined its own functional classification, comprising the actual University Hospitals, Specialized Hospitals, and Under-Contract or Bound Hospitals (owned by the universities) to health faculties; these last two can have both teaching hospitals and auxiliary teaching hospitals (Table 1).

Table 1 includes the specialties and the total of THs, in addition to the number of those under SS contracts. The 52 TH represent 25.5% of the TH in the Country. The 28 TH that service private health insurance plans represent 58.8% of the TH of the ESP.

Comparisons between health systems are complex, considering the number of intervening variables, as evidenced by Mossialos et al.⁷, such as the different types of funding, mechanisms for providing services, and the legal classifications of the units. In THs, there are differences in the specialties offered and, in a single case, there is no provision of outpatient services for SS patients. There are also differences in infrastructure, all of which are factors that affect the amount spent in the provision of care.

It is noteworthy that among the public TH managed by Social Organizations of Health (OSS), none had beds intended to SS patients by legal obligation. It is also important to mention that there have been legislative attempts to allow hospitals managed by OSS to provide 25% of their beds for beneficiaries of private health insurance plans, which were not consolidated,

TABLE 1. TEACHING HOSPITALS IN THE STATE OF SÃO PAULO BY LEGAL CLASSIFICATION, SPECIALTY, TOTAL, AND TH WITH SS CONTRACTS

SES (and ME) Classification	Legal Classification	Specializations	Number	SS Contracts
University Hospital	Indirect administration and Foundation*	General	8	6
Specialized			14	7
(School Hospitals and Auxiliary Teaching Hospitals)	Social Organization	Oncology	5	3
	Direct Administration (AD)	Maternity	4	1
	Philanthropic	Cardiology	2	2
	Autonomous (A)	Infectious Diseases	1	0
Renal transplantation		1	1	
Rehabilitation Hospital		1	0	
Bound to/Under Contract with Faculties			30	15
(School Hospitals and Auxiliary Teaching Hospitals)	Social Organization	General	5	0
	Pub. L. Foundation/(A)/AD**	General	8	1
	Santa Casa	General	7	6
	Other philanthropic organizations	General	10	8
Total			52	28

*Private Legal Foundation**Public Legal Foundation, direct administration, and indirect administration

such as State Law nº 1,131 of 2010, which had its effects suspended⁸.

OBJECTIVE

Analyze the physical and financial participation of care provided to beneficiaries of private health insurance plans in TH of the ESP in comparison to SUS patients in 2018.

METHODS

The data used are from the Teaching Hospitals Evaluation System (SAHE) of SESSP and the Hospital Information System (SIH) of the Information Department of SUS (DATASUS), of the Ministry of Health.

The sample consisted of 23 THs, 82.1% of the 28 TH that met the informational requirements on services provided for the SS per SAHE, in 2019 (with data from 2018). Five of them did not meet the requirements, of which four are under Municipal Management and not under contract with the SESSP, but with the Municipal Health Departments. One of the clauses for SESSP contracts requires the provision of information by the hospitals. Those under municipal management that, without contractual obligation, submit data to the SAHE certainly do so because they value the importance of such information for the management of the system and/or due to the information they receive in return from the SESSP when they need it for the assessment and planning of health actions.

From the SAHE we retrieved the following variables about private health insurance plans: total annual revenue, total number of operational beds and those intended for SS, number of patients discharged, and subsidies from the ESP treasury for public and philanthropic hospitals. From the DATASUS we retrieved the following variables: number of HAA, annual values from SUS regarding hospitalizations of high and medium complexity cases (MAC) and strategic cases (FAEC), and the number of hospital discharges of SUS patients.

We established an indicator capable of comparing the funding of the system, i.e., the ratio between the revenue of private health insurance plans and the income from SUS divided by the number of discharges in the same year, using as the definition of discharge when a patient leaves the inpatient unit upon medical discharge (cured, with improved or unchanged health), by evasion, due to withdrawal from treatment,

internal transfer, external transfer, or death⁹. (Revenue or SUS Income/number of discharges)

Donations, scholarships for professionals financed by the SESSP, sale of non-clinical services, parliamentary amendments, and revenue from financial markets were not incorporated. It should be emphasized that all nonprofit hospitals analyzed in this study are CEBAS (Charitable Entity of Social Assistance Certificate) certified, which in itself is an indirect source of revenue since it exempts the unit from paying certain charges or taxes. According to Law No. 12,101 of 2009, a hospital is CEBAS certified in the area of healthcare if it services SUS at a minimum 60% percentage, taking into account hospitalizations and outpatient visits.

The TH included in the study were: *Hospitais das Clínicas da Faculdade de Medicina da Universidade de São Paulo, de Ribeirão Preto, de Botucatu e de Marília, Hospital São Paulo, Hospital de Base de São José do Rio Preto, Hospital Amaral Carvalho, Centro Infantil Boldrini, Instituto Dante Pazzanese de Cardiologia, Instituto do Coração da Faculdade de Medicina da Universidade de São Paulo, Hospital do Rim, Hospital e Maternidade Celso Pierro, Santa Casa de Araraquara, Santa Casa de Ribeirão Preto, Santa Casa de Franca, Santa Casa de Fernandópolis, Santa Casa de Limeira, Santa Casa de Santos, Hospital Universitário São Francisco, Hospital Padre Albino, Hospital São Vicente de Paula, Hospital Santa Lucinda, and Casa de Saúde Santa Marcelina*. The hospitals are represented by letters.

The TH were divided, according to the SESSP classification, into three groups: six university hospitals (those belonging to the universities of São Paulo), five specialized (represented by those linked to universities of São Paulo, philanthropic and of direct administration by the ESP), and 12 philanthropic (general hospitals such as *Santas Casas* and associations). In the specialized group, there are the Auxiliary Teaching Hospitals, and in the group of hospitals under contract, there are Teaching Hospitals and Auxiliary Teaching Hospitals, according to the MS/ME classification.

To analyze the information, we used descriptive statistics.

RESULTS AND DISCUSSION

The integration between the SUS and SS systems, considering a perspective of information and planning, organization, management, and evaluation of the health system as a whole, is highly desired, but

aspects such as the use of public beds for SS clients and patients tend to decrease the supply of services to the population that depends on SUS.

In table 2, we present the University Hospitals, with a total of 4,215 beds, of which 11.0% are dedicated to the SS (12.9% of SS discharges). These hospitals account for 11.4% to 22.9% of high-complexity hospitalizations.

It is possible to see that University Hospitals have little financial gain from servicing SS contracts, and the amounts received per discharge vary between 0.6 to 2.8 times what is refunded by the health insurance plans. University hospitals G and M are best paid by the SUS than by the SS. With the exception of the letter C TH, which provides 32.4% of its beds for the SS, the others do not provide more than 8.7%.

The budgetary sources of these hospitals are the resources provided directly by the Ministry of Health and the ESP treasury.

Table 3 contains information on the five specialized

TH that service patients covered by the SS; the percentage of high-complexity hospitalizations varies from 30.7% to 88.1%.

Of the 1,387 beds offered, 15.3% are destined to SS contracts, whose percentage of discharges is 16.4%.

The gain from SS contracts presents greater uniformity when analyzed together, ranging from 1.6 to 3.3 times the value paid by SUS. No TH receives a lower amount from health insurance plans than that paid by SUS. This group contains both public hospitals with direct administration and autonomous philanthropic hospitals, except for the hospital of letter B, which provides only 4.2% of its beds to the SS; in all others, the percentage is higher, up to 29.9%.

The specialized TH perform a greater number of high-complexity procedures, which are, therefore, of high complexity and costs, but offer a smaller number of specialties, thus enabling a more rational administration, although with all the difficulties inherent to hospitals.

TABLE 2. SS BEDS; TOTALS; SS/SUS RATIO; SS, SUS, TOTAL, AND DISCHARGES; SS/SUS DISCHARGE RATIO; REVENUE/SUS INCOME COMPARISON RATIO SS/SUS FOR SS AND SUS - UNIVERSITY HOSPITALS IN 2018

University	SS Beds	Total Beds	% SS/ SUS Beds	SS Discharges	SUS Discharges	Total Discharges SS + SUS	% Discharge SS/SUS	SS Revenue/ SS Discharges	SUS Income/ SUS Discharges	\$ SS/SUS
C	295	910	32.4	18,166	41,013	59,179	30.7	9,520.65	8,397.00	1.1
E	50	575	8.7	1,223	19,902	21,125	5.8	12,376.12	10,182.86	1.2
M	69	1,223	5.6	5,398	50,709	56,107	9.6	(20,875.71)	30,040.46	(0.7)
H	38	759	5.0	889	38,128	39,017	2.3	55,025.27	19,665.66	2.8
G	10	524	1.9	1,309	25,249	26,558	4.9	(8,223.49)	13,364.51	(0.6)
S	6	224	2.7	163	8,011	8,174	2.0	17,838.46	12,302.11	1.5
Subtotal/ perc/ratio	464	4,215	11.0	27,148	183,012	210,160	12.9	20,643.28	15,658.77	1.3

TABLE 3. SS BEDS; TOTALS; SS/SUS RATIO; SS, SUS, TOTAL, AND DISCHARGES; SS/SUS DISCHARGE RATIO; REVENUE/SUS INCOME COMPARISON RATIO SS/SUS FOR SS AND SUS - SPECIALIZED HOSPITALS IN 2018

Specialized	SS Beds	Total Beds	% SS/ SUS Beds	SS Discharges	SUS Discharges	Total Discharges SS + SUS	% Discharge SS/SUS	SS Revenue/ SS Discharges	SUS Income/ SUS Discharges	\$ SS/SUS
K	80	380	21.1	3,682	12,460	16,142	22.8	23,607.91	9,026.86	2.6
AT	23	77	29.9	971	2,575	3,546	27.4	17,700.90	10,526.18	1.7
B	16	379	4.2	158	9,323	9,481	1.7	46,249.90	24,779.27	1.9
A	73	400	18.3	2,557	11,914	14,471	17.7	51,251.80	31,505.11	1.6
AC	20	151	13.2	1,213	7,355	8,568	14.2	40,113.40	12,054.42	3.3
Subtotal/ perc/ratio	212	1,387	15.3	8,581	43,627	52,208	16.4	33,927.02	17,578.37	1.9

TABLE 4. SS BEDS; TOTALS; SS/SUS RATIO; SS, SUS, TOTAL, AND DISCHARGES; SS/SUS DISCHARGE RATIO; REVENUE/SUS INCOME COMPARISON RATIO SS/SUS FOR SS AND SUS - UNDER-CONTRACT OR BOUND HOSPITALS IN 2018

Under-Contract	SS Beds	Total Beds	% SS/SUS Beds	SS Discharges	SUS Discharges	Total Discharges SS + SUS	% Discharge SS/SUS	SS Revenue/SS Discharges	SUS Income/SUS Discharges	\$ SS/SUS
BI	30	290	10.3	749	19,001	19,750	3.8	18,671.38	5,767.45	3,2
Y	43	227	18.9	2,921	10,978	13,899	21.0	13,901.00	5,967.44	2,3
BF	32	116	27.6	1,298	5,048	6,346	20.5	6,546.95	4,903.34	1,3
AF	327	664	49.2	11,752	11,116	22,868	51.4	33,367.73	4,826.97	6,9
AI	91	254	35.8	4,332	12,214	16,546	26.2	18,226.73	3,206.23	5,7
BE	42	197	21.3	2,154	8,968	11,122	19.4	12,601.77	5,157.04	2,4
AD	141	726	19.4	7,042	26,410	33,452	21.1	34,332.95	8,486.62	4,0
AB	123	319	38.6	10,253	14,199	24,452	41.9	(8,326.20)	12,295.67	(0,7)
P	76	226	33.6	3,369	9,680	13,049	25.8	11,855.29	6,613.55	1,8
AJ	68	160	42.5	4,464	7,663	12,127	36.8	(4,242.66)	4,456.08	(0,9)
L	67	198	33.8	3,892	8,721	12,613	30.9	(6,955.34)	7,601.46	(0,9)
AG	6	238	2.5	146	16,115	16,261	0.9	16,043.77	3,767.27	4,3
Subtotal/ perc/ratio	1,046	3,615	28.9	52,372	150,113	202,485	25.9	15,422.65	6,087.43	2,5
Total/ percentage/ ratio	1,722	9,141	18.7	88,101	376,752	464,853	19.0	23,331.00	13,108.19	1,8

Table 4 presents the most heterogeneous group of THs, with 12 hospitals in which high-complexity hospitalizations range from 1.7% to 19.0%.

This is the TH group with the greatest number of beds dedicated to the SS, i.e., 28.9%, with 25.9% of discharges, that is, a quarter of their services are provided for the SS.

The financial gain from the SS, in comparison with that from SUS, is of a magnitude that ranges from 0.7 to 6.9 times, and three of the TH receive from SS contracts values lower than from the SUS.

The TH whose most significant source of funding is the SUS faces difficulties since the amounts paid for the procedures listed in the SUS Table have been outdated for years, with no other financial solution than to increase the number of beds destined for SS patients. These TH do not receive budgetary resources from the Treasury, although some do receive some type of subsidy. Only one of them provides 2.5% of its beds, all the other provide over 10.3%, and the TH referred to by the AF acronym provides up to 49.2% of its beds for the SS.

On average, the three groups provide 18.7% of their beds for SS patients and are responsible for 19.0% of

all discharges, although the average gain is 1.8 times that of SS on in comparison to the SUS.

Thus, the analysis of each individual group (university, specialized, and philanthropic hospitals) shows a better financial gain in philanthropic TH that service the SS.

CONCLUSIONS

After comparing the amounts received per discharge, although in two groups the gains from the SS were better, there are not enough indicators to establish the cost/benefit of this practice.

It is necessary to know the local and regional geographical, demographic, socioeconomic, and epidemiological conditions to verify the concrete need for the beds in both populations, i.e., SS and SUS.

The study shows that the decision of allocating a particular percentage of beds for the SS and SUS is not supported in technical and management tools. The decision to invest in increased supply for the SS is not a good solution for all cases; there is no evidence regarding the relationship between the different investments in the differentiation of services.

RESUMO

OBJETIVO: Avaliar a participação física e financeira do atendimento aos beneficiários de planos privados de saúde nos Hospitais de Ensino (HE) do Estado de São Paulo (ESP), em relação ao atendimento a pacientes do Sistema Único de Saúde, no ano de 2018.

MÉTODOS: os dados da pesquisa foram obtidos do Sistema de Avaliação dos Hospitais de Ensino (SAHE), da Secretaria de Estado da Saúde do Estado de São Paulo e do Departamento de Informática do SUS (DATASUS) do Ministério da Saúde.

RESULTADOS: observou-se que, em média os HE analisados ofertam 18,7% dos leitos operacionais para a Saúde Suplementar (SS), e que o retorno financeiro é melhor nos filantrópicos.

CONCLUSÕES: o atendimento a planos de saúde pelos HE merece ser aprofundado, avaliando-se as reais vantagens obtidas na prestação dos serviços e que o atendimento à SS exige infraestrutura diferenciada, e, principalmente o conhecimento de custos operacionais para estipulação de preços dos procedimentos.

PALAVRAS-CHAVE: Gestão em saúde. Saúde pública. Saúde suplementar. Hospitais de ensino. Administração financeira.

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