

ST. BENEDICT'S TEACHING HOSPITAL

MERGER ANALYSIS

CASE 30

THE PATIENT BASE of Lafayette County, Indiana, is currently served by three hospitals: (1) St. Benedict's Teaching Hospital, a not-for-profit, university-related hospital with 525 beds; (2) Wabash Regional Medical Center, a 250-bed for-profit hospital owned by Hospital Associates of America (HAA), a national chain; and (3) Lafayette General, a 400-bed, not-for-profit, acute care hospital owned by Hoosier Healthcare. St. Benedict's and Lafayette are located less than one mile from one another, while Wabash Regional is about five miles away from St. Benedict's, in a newer and more rapidly developing section of the county.

The service area has a total of 1,175 licensed beds, or about 3.5 beds per 1,000 population, which is higher than the national average of about 2.4 beds per 1,000 and much higher than the roughly 2 beds per 1,000 needed under an aggressive utilization management program. Of course, as a tertiary care facility, St. Benedict's receives patients from throughout the state, but the bulk of its patients still come from the local five-county area.

With an excess of hospital beds in the service area, the status quo may not survive the changing healthcare environment. Indeed, Lafayette General has had some tough years recently, as evidenced by its number of discharges, which have fallen to 11,412 in 2017 from 12,055 in 2016 and 12,824 in 2015. In addition, HAA has been aggressive in building market share in other areas of Indiana through both acquisitions and hospital expansions. With these factors in place, some consolidation in the local hospital market will likely take place, and the most likely result is the acquisition of Lafayette General by either St. Benedict's or HAA.

Lafayette General operated as a county hospital for more than 50 years and hence developed a reputation for providing healthcare services to the poor. After many years of operating losses, the county concluded that it could no longer afford to operate the hospital. In 1987, the county sold the hospital for \$1 to Hoosier Healthcare, a not-for-profit managed care organization and provider, which by 2017 had become the state's largest integrated healthcare company.

Hoosier Healthcare's major business line is managed care. Its numerous plans (including health maintenance organization, preferred provider organization, point of service, Medicare, and Medicaid plans) serve more than 1 million members in 25 Indiana counties, encompassing all of the state's major metropolitan areas. In addition to managed care plans, Hoosier Healthcare owns seven different providers: two acute care hospitals (including Lafayette General), one rehabilitation hospital, one mental health facility, one hospice, one home health care agency, and one retirement community.

Lafayette General is the flagship of Hoosier Healthcare's provider network, and the company has kept the hospital in excellent condition in spite of falling inpatient utilization. In fact, Lafayette General recently built the state-of-the-art HeartCare Center and the modern MaternityCare Center. Furthermore, Lafayette General operates a full-service emergency department and a medical helicopter service.

In response to the current situation, St. Benedict's has formed a special committee to consider the feasibility of making an offer to Hoosier Healthcare to acquire Lafayette General. The committee's primary goals are as follows:

1. To place a dollar value on Lafayette General's equity (fund) capital, assuming that the hospital will be acquired and operated by St. Benedict's
2. To develop a financing plan for the acquisition

In addition, the committee has been asked to consider two other issues related to the potential acquisition:

1. What is the best organizational structure for a combined enterprise? Currently, both Lafayette General and St. Benedict's have separate boards of directors and management staffs. Of

course, currently the senior members of the Lafayette General board are also Hoosier Healthcare officers.

2. Should the medical staffs of the two hospitals be integrated, and, if so, in what way? The medical staff of Lafayette General consists of local physicians, including many family practice physicians, whereas the medical staff at St. Benedict's is almost entirely made up of specialists, and all are members of the local university's College of Medicine with responsibilities that go well beyond clinical practice.

A new committee will be formed to finalize recommendations on these issues should St. Benedict's management agree to move forward with the acquisition offer, but some preliminary judgments are needed at this time. As a starting point in the valuation analysis, the committee has obtained historical income statement and balance sheet data on both hospitals. Exhibit 30.1 contains the data for Lafayette General, and exhibit 30.2 provides the data for St. Benedict's. Both sets of statements are abbreviated but still contain the data considered to be most relevant to the analysis. In addition, relevant comparative data are presented in exhibit 30.3 and relevant market data are shown in exhibit 30.4. (Assume that the data in exhibits 30.3 and 30.4 reflect late-2017 conditions.)

One of the toughest tasks that the committee faces is the development of Lafayette General's pro forma (forecasted) cash flow statements, which form the basis of the discounted cash flow valuation. Several basic questions must be answered before any numbers can be generated. First, what synergies, if any, can be realized from the merger, and how long will it take for such synergies to develop? For example, can duplications be eliminated? Both hospitals have "mercy flight" helicopters and offer full emergency department services, even though the two hospitals are only one mile apart. What is the impact of such operational changes on revenues and costs and hence on the net cash flows that Lafayette General's assets can produce? Second, once the consolidation takes place and all synergies have been realized, what is the long-term growth prospect for Lafayette General's cash flows? Third, what impact would the acquisition have on St. Benedict's own cash flows? Any change in St. Benedict's revenues or costs that results from the acquisition must be included in the analysis. The answers to these questions and others form the basis for the pro forma cash flow statements.

You are the chair of the special committee formed at St. Benedict's to evaluate the potential acquisition. You must present your findings and recommendations to the hospital's board of directors. Because the case contains far less information than normally available in a merger analysis, especially when the potential merger is friendly, you must make many difficult assumptions to complete your analysis. Although you do not know much about Lafayette General's local market, you do know the current trends in the healthcare industry. Use this knowledge to help make judgments about the case. The quality of many, if not most, real-world financial analyses depends more on the validity of the underlying assumptions than on the theoretical "correctness" of the analytical techniques.

Note that there is no preferred solution to this case, so your case analysis will be judged as much on the assumptions used in the analysis as on the analysis itself. Finally, remember that numerous risk analysis techniques are available that can be used to give decision makers some feel for the risks involved.

EXHIBIT 30.1
Lafayette General:
Historical Financial
Statements
(in Millions of Dollars)

	2013	2014	2015	2016	2017
<i>Income Statements</i>					
Inpatient revenue	\$ 42.472	\$ 46.014	\$ 53.410	\$ 58.650	\$ 59.513
Outpatient revenue	28.314	30.676	35.606	39.100	39.675
Net patient service revenue	\$ 70.786	\$ 76.690	\$ 89.016	\$ 97.750	\$ 99.188
Nonoperating revenue	1.922	1.515	1.367	1.725	1.048
Total revenues	\$ 72.708	\$ 78.205	\$ 90.383	\$ 99.475	\$100.236
Patient services expenses	\$ 60.245	\$ 73.858	\$ 81.525	\$ 90.645	\$ 89.505
Interest expense	3.045	3.147	3.093	3.002	2.980
Depreciation	3.466	3.689	4.395	4.258	6.031
Total expenses	\$ 66.756	\$ 80.694	\$ 89.013	\$ 97.905	\$ 98.516
Net income	\$ 5.952	\$ 2.489	\$ 1.370	\$ 1.570	\$ 1.720
<i>Balance Sheets</i>					
Cash and investments	\$ 2.388	\$ 1.538	\$ 0.162	\$ 0.185	\$ 0.198
Accounts receivable	18.860	20.581	20.821	21.570	16.732
Other current assets	4.539	8.475	4.669	2.585	2.898
Total current assets	\$ 25.787	\$ 30.594	\$ 25.652	\$ 24.340	\$ 19.828
Gross plant and equipment	\$102.596	\$116.694	\$122.611	\$133.499	\$146.130
Accumulated depreciation	27.243	30.505	34.900	39.158	45.189
Net plant and equipment	\$ 75.353	\$ 86.189	\$ 87.711	\$ 94.341	\$100.941
Total assets	\$101.140	\$116.783	\$113.363	\$118.681	\$120.769
Current liabilities	\$ 9.182	\$ 13.584	\$ 5.771	\$ 10.689	\$ 11.431
Long-term debt	33.572	47.302	50.325	49.155	48.781
Total liabilities	\$ 42.754	\$ 60.886	\$ 56.096	\$ 59.844	\$ 60.212
Fund balance	58.386	55.897	57.267	58.837	60.557
Total claims	\$101.140	\$116.783	\$113.363	\$118.681	\$120.769

EXHIBIT 30.2
St. Benedict's Teaching
Hospital: Historical
Financial Statements
(in Millions of Dollars)

	2013	2014	2015	2016	2017
<i>Income Statements</i>					
Inpatient revenue	\$170.195	\$198.137	\$221.826	\$226.944	\$251.935
Outpatient revenue	34.225	39.517	46.828	56.226	65.507
Net patient service revenue	\$204.420	\$237.654	\$268.654	\$283.170	\$317.442
Nonoperating revenue	5.587	8.899	12.193	22.672	9.979
Total revenues	\$210.007	\$246.553	\$280.847	\$305.842	\$327.421
Patient services expenses	\$178.788	\$207.596	\$231.673	\$254.704	\$277.938
Interest expense	9.232	10.468	11.983	10.691	9.997
Depreciation	13.289	16.637	19.621	23.286	26.489
Total expenses	\$201.309	\$234.701	\$263.277	\$288.681	\$314.424
Net income	\$ 8.698	\$ 11.852	\$ 17.570	\$ 17.161	\$ 12.997
<i>Balance Sheets</i>					
Cash and investments	\$ 17.918	\$ 19.862	\$ 24.660	\$ 27.726	\$ 25.220
Accounts receivable	66.212	72.989	99.867	100.297	97.494
Other current assets	12.315	16.771	20.741	20.542	22.757
Total current assets	\$ 96.445	\$109.622	\$145.268	\$148.565	\$145.471
Gross plant and equipment	\$348.288	\$341.064	\$335.313	\$362.152	\$400.546
Accumulated depreciation	75.139	76.575	90.056	109.468	123.567
Net plant and equipment	\$273.149	\$264.489	\$245.257	\$252.684	\$276.979
Total assets	\$369.594	\$374.111	\$390.525	\$401.249	\$422.450
Current liabilities	\$ 42.437	\$ 35.061	\$ 39.511	\$ 37.733	\$ 39.817
Long-term debt	146.997	147.038	141.432	136.773	142.893
Total liabilities	\$189.434	\$182.099	\$180.943	\$174.506	\$182.710
Fund balance	180.160	192.012	209.582	226.743	239.740
Total claims	\$369.594	\$374.111	\$390.525	\$401.249	\$422.450

Note: The hospital's current target cash balance is \$5 million.

EXHIBIT 30.3
Selected Comparative
Data

	<i>Lafayette</i>	<i>St. Benedict's</i>
Average age of plant	6.8 years	8.5 years
Licensed beds	400	525
Occupancy rate	52.7%	64.2%
Average length of stay	5.5 days	6.6 days
Number of discharges	11,412	19,748
Medicare percent	57.2%	29.7%
Medicaid percent	10.3%	13.0%
Medicare case mix index	1.51	2.13
Gross price per discharge	\$11,688	\$20,204
Net price per discharge	\$5,850	\$12,757
Cost per discharge	\$5,703	\$12,144

*US Treasury Yield Curve*EXHIBIT 30.4
Selected Market and
Hospital Data

<i>Maturity</i>	<i>Interest Rate</i>
6 months	3.0%
1 year	3.5
5 years	3.9
10 years	4.5
20 years	5.0
30 years	5.1

Market Risk Premium

Historical risk premium	7.0%
Average current risk premium as forecasted by three investment banking firms	6.0%

*Market Betas, Capitalization, and Tax Rates
of Two Publicly Traded Hospital Companies*

<i>Company</i>	<i>Beta</i>	<i>Debt/Asset Ratio</i>	<i>Tax Rate</i>
Provident Healthcare	1.1	50%	40%
National Health Company	1.2	65%	43%

(continued)

EXHIBIT 30.4
(continued)**Selected Market and
Hospital Data***Ratio of Stock Price to EBITDA per Share*

Provident Healthcare	8.5
National Health Company	7.5

Ratio of Total Equity Market Value to Number of Discharges

Provident Healthcare	\$8,000
National Health Company	\$7,000

Proportion of Cash to Current Assets

Large hospital average	5.0%
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Days Cash on Hand

Large hospital average	22 days
St. Benedict's	31 days

EBITDA: Earnings before interest, taxes, depreciation, and amortization

Note: The data in this exhibit are for use in this case only and do not necessarily reflect current market data.