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Basic Financial Statement Analysis (It's not as scary as you think!)

A Peer-Reviewed Publication
 Written by Kathryn Franzone, MAFM

Abstract

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This course will show you what a balance sheet and income statement look like. It will help you to recognize the various accounts listed on the statements and explain how to use that information to gain an understanding of the practice's financial performance and position.

Educational Objectives:

At the conclusion of this educational activity participants will be able to:

1. Identify a balance sheet and income statement.
2. Analyze information obtained from financial statements using basic financial ratios.
3. Implement financial evaluations in the dental practice.

Author Profile

Kathryn Franzone, MAFM, is a graduate of Keller Graduate School of Management. She has worked in the accounting field for ten years. Kathryn can be reached at katy.franzone@yahoo.com.

Author Disclosure

Kathryn Franzone has no commercial ties with the sponsors or the providers of the unrestricted educational grant for this course.

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Abstract

Nothing can strike fear into the hearts of non-financial managers like the term “Financial Statements.” However, in order to run a successful business, it is essential to know how to read and interpret your practice’s financial statements. These documents contain valuable information about the financial position and financial health of your business. With a little background knowledge and some simple calculations, you can be on your way to a better understanding of this valuable information.

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What exactly is accounting?

While knowing all of the details of accounting isn’t necessary to gain an understanding of financial statements, there are a few things you should know. In its most basic form, accounting is the recording of business transactions and their dollar amounts. In the United States, all accounting is done according to Generally Accepted Accounting Principles, or GAAP. It is these principles that dictate when, where and how each transaction should be recorded and subsequently reported on the financial statements. There are three basic financial statements: the balance sheet, the income statement and the statement of cash flows. This course will focus on the balance sheet and income statement.

Figure 1. Balance sheet

Mo-Lar Dental Balance Sheet 12/31/2013 and 12/31/2012				
	2013	2012		
Assets			Liabilities and Stockholders' Equity	
<i>Current Assets</i>			<i>Current Liabilities</i>	
Cash and cash equivalents	14,000	12,000	Current portion of long-term debt	7,000 5,000
Accounts receivable	30,000	18,000	Accounts payable	15,000 11,000
Inventory	5,000	3,000	Notes payable	<u>12,000</u> <u>9,000</u>
Prepaid expenses	<u>1,000</u>	<u>2,000</u>	Total Current Liabilities	34,000 25,000
Total Current Assets	50,000	35,000		
<i>Property, plant and equipment</i>			<i>Long-Term Liabilities</i>	
Land	150,000	100,000	Long-term debt	<u>200,000</u> <u>150,000</u>
Buildings	120,000	100,000	Total Liabilities	234,000 175,000
Equipment	50,000	20,000		
Less: Accumulated depreciation	<u>(25,000)</u>	<u>(20,000)</u>	<i>Stockholders' Equity</i>	
Total PP&E	295,000	200,000	Common stock	40,000 25,000
Total Assets	<u>345,000</u>	<u>235,000</u>	Paid in capital in excess of par	22,000 5,000
			Retained earnings	<u>49,000</u> <u>30,000</u>
			Total Stockholders' Equity	111,000 60,000
			Total Liabilities and Stockholders' Equity	<u>345,000</u> <u>235,000</u>

What is a Balance Sheet?

The Balance Sheet, also called a statement of financial position, is a summary of an organization’s assets, liabilities and equity as of a specific date. It is based on the fundamental accounting equation $Assets = Liabilities + Owners' Equity$. This equation must always be in balance. For example, if you take out a loan to buy new equipment, your assets will go up and your liabilities will go up as well. Similarly, if you use cash to buy new equipment, their corresponding accounts will increase and decrease accordingly, keeping the equation in balance.

Assets are things that an organization owns. They are listed on the balance sheet according to their liquidity, or how quickly they can be converted into cash. Liabilities are amounts that an organization owes to someone else, such as vendors and banks. They are listed according to when they are due, with the most current liabilities first. Stockholders’ equity, also called owners’ equity, is the amount that would remain if all liabilities were paid using the organization’s assets. One important thing to know about stockholders’ equity is that it does not necessarily represent the value of the company.

What is an Income Statement?

The Income Statement, also called a Profit & Loss statement (P&L), provides information about how the company performed financially over a specific period of time. It can be used to determine profitability, how credit-worthy the company is and to make predictions about future financial performance based on past information.

GAAP mandates that public companies use accrual-based accounting and complete their financial statements accordingly. In accrual-based accounting revenues are recorded when they are earned, not necessarily when they are received. Similarly, expenses are recorded when they are incurred, not when they are paid. However, many small, private businesses including dental practices, keep their records on a cash basis and record revenues when they are received and expenses when they are paid, not necessarily when they

are earned and incurred. While this doesn't change the look of the income statement, it is something you want to keep in mind when analyzing the statements.

One thing that will change the look of the income statement is the nature of the business. The income statement for a manufacturing company will look slightly different from that of a service company. Accounts such as "cost of goods sold" are not applicable to service industries and are therefore not on the income statement. The income statement below is an example of an income statement for a company in the service industry.

Figure 2. Income statement

Great Brushers, Inc. Income Statement for the Year Ended December 31, 2013		
	2013	2012
Patient revenue	1,276,433.98	1,098,339.24
Salaries expense	(307,884.29)	(299,554.33)
Payroll tax expense	(108,443.77)	(97,324.93)
Benefits expense	(13,226.00)	(11,554.22)
Professional supplies expense	(44,834.04)	(50,112.27)
Laboratory fees expense	(76,935.21)	(81,265.07)
Marketing expense	(41,263.56)	(40,112.40)
Rent expense	(48,000.00)	(48,000.00)
General & administrative expense	(100,433.99)	(94,001.49)
Depreciation expense	(17,883.02)	(16,443.98)
Interest expense	(4,463.09)	(3,785.84)
Income before income taxes	513,066.91	356,184.71
Income tax expense	(205,226.76)	(142,473.88)
Net Income from Operations	307,840.15	213,710.83

The Basics of Financial Analysis

Now that you understand a bit more about what the numbers represent and where they come from, you may be wondering what they all mean. Financial ratios are one technique that you can use to analyze the data found on the balance sheet and income statement. Financial ratios are classified into four categories: liquidity ratios, activity ratios, profitability ratios and long-term debt-paying ability (or coverage) ratios.

Liquidity Ratios

Liquidity ratios measure an organization's ability to pay their short-term debts. Debt is considered short-term when it is due within the next twelve months.

The *current ratio* (also called the working capital ratio) can be a good indicator of a company's ability to repay its current liabilities using its current assets. The higher the current ratio, the more likely a company would be able to pay their current debts. If the current ratio is less than 1, this could cause concern that the company would not be able to pay off their current debts if they came due at that time.

$$\text{Current ratio} = \text{Current assets} / \text{Current liabilities}$$

Using our balance sheet example, the calculations for Mo-Lar Dental would be:

$$2013 \text{ Current ratio} = 50,000 / 34,000 = 1.47$$

$$2012 \text{ Current ratio} = 35,000 / 25,000 = 1.4$$

Mo-Lar Dental's current ratio improved between 2012 and 2013, indicating that their ability to pay short term debt has improved as well. A current ratio of 1.47 means that for every \$1.00 of current liabilities Mo-Lar has, it has \$1.47 of assets to cover it (or pay it). If the dental practice industry average was 1.15 and Mo-Lar had a current ratio of 1.47, this would indicate that Mo-Lar was in a better position to pay its current obligations than the average dental practice.

The *acid-test ratio*, sometimes called the *quick ratio*, is similar to the current ratio. The acid-test ratio, however, excludes inventory and prepaid accounts in its figure for current assets. This is because these items are the least liquid of the current assets. In other words, they are the most difficult to turn into cash. The acid-test ratio only uses the company's most liquid assets to determine how well they would be able to meet their short-term obligations.

$$\text{Acid-test ratio} = (\text{Cash equivalents} + \text{Marketable securities} + \text{Net receivables}) / \text{Current liabilities}$$

In our example, Mo-Lar Dental has no marketable securities, so the calculations would look like this:

$$2013 \text{ Acid-test ratio} = (14,000 + 30,000) / 34,000 = 1.29$$

$$2012 \text{ Acid-test ratio} = (12,000 + 18,000) / 25,000 = 1.2$$

The acid-test ratio for Mo-Lar Dental has improved slightly from 2012 to 2013, indicating that for every \$1.00 in current liabilities Mo-Lar has, they have an additional \$.09 to cover it (1.29 vs. 1.20). Another way to look at the acid-test and current ratios is to compare them to each other. If a company's acid-test ratio is significantly lower than its current ratio then that indicates that its current assets contain large amounts of inventory and prepaid accounts.

Activity Ratios

Activity ratios are used to measure how efficiently an organization uses its assets. They indicate how well management is able to turn assets such as inventory and accounts receivable into cash.

The *accounts receivable turnover* ratio indicates management's ability to collect their outstanding accounts receivable.

$$\text{Accounts receivable turnover} = \text{Net credit sales} / \text{Average net receivables}$$

Mo-Lar Dental does not list credit sales separately from cash sales on its balance sheet. For our calculations, we will assume that Mo-Lar had \$100,000 in sales for 2013 and that 50% of sales are made on credit.

$$\text{Accounts receivable turnover} = 50,000 / [(30,000 + 18,000) / 2] = 2.08 \text{ times}$$

With an accounts receivable turnover ratio of 2.08, that means that Mo-Lar Dental collected its accounts receivable roughly two times during the year. We can then take that ratio and divide it into 365 to

determine the average number of days it takes Mo-Lar to collect its accounts receivable. This is the *accounts receivable turnover in days*.

$$\text{Accounts receivable turnover in days} = 365/\text{Receivable turnover} = 365/2.08 = 175 \text{ days}$$

Therefore it takes Mo-Lar Dental, on average, 175 days (or six months) to collect its sales made on credit. It is management's responsibility to determine what an acceptable accounts receivable turnover ratio is for their organization, however, in general, the higher the ratio is, the better position the organization is in.

Profitability Ratios

Profitability ratios use information from both the income statement and the balance sheet to measure whether or not the organization's efforts to be profitable during a period of time were successful.

Return on total assets measures how well an organization is using its assets in relation to the amount of income it has reported.

$$\text{Return on total assets} = \text{Net Income}/\text{Average total assets}$$

Using the information from Great Brushers income statement and assuming they reported an average of \$2,000,000 in assets on their balance sheets, the calculation would look like this:

$$\begin{aligned} 2012 \text{ Return on total assets} &= 213,710.83/2,000,000 = 10.7\% \\ 2013 \text{ Return on total assets} &= 307,840.15/2,000,000 = 13.2\% \end{aligned}$$

This means that Great Brushers management is effectively managing their assets in order to produce a profit (return).

Long-Term Debt-Paying Ability Ratios

Long-term debt-paying ability ratios determine just that – an organization's ability to cover their long-term obligations. They are also called solvency ratios, and are the long-term counterparts to liquidity ratios, which measure short-term debt-paying ability.

The *debt ratio* compares the amount of assets an organization has to the amount of liabilities.

$$\text{Debt ratio} = \text{Total liabilities}/\text{Total assets}$$

For Mo-Lar Dental the debt ratio would be:

$$\text{Debt ratio} = 234,000/395,000 = 59.24\%$$

Therefore, 59.24% of the company's assets are financed by liabilities. The higher this ratio, the higher the organization's degree of leverage and the lower the organization's solvency, which can lead to financial risk.

How to Use the Ratios

Financial ratios can tell you a lot about your business, but simply calculating them isn't enough. These ratios need to be compared, whether it is intra-company from one period to the next or against industry averages. Industry averages vary greatly between industries, as well as from year to year, so you should consult your accountant to obtain the most current industry averages.

The best way to use financial ratios is to calculate them on a regular and ongoing basis. For example, you may want to start by calculating them quarterly. If you get a result that is worrisome, you could increase the frequency to monthly. The results from each quarter can be compared to previous quarters in the same year to track the progress of the company for that year. They can also be compared to the same time period in previous years, to track changes year to year.

Which financial ratios you should calculate depends highly on your practice and exactly what you want to know. For example, if your practice extends credit to many of its patients, you may want to pay special attention to the accounts receivable turnover ratio. Similarly, if your company has long-term loans on its books that will be coming due soon, you may want to keep an eye on the various liquidity ratios to determine whether or not you will have enough cash to cover the payments.

An Ongoing Learning Process

One course can't teach you everything there is to know about financial statements and how to analyze them. Reading and interpreting the information that is found on the income statement and balance sheet is an ongoing process and can take a long time to master. However, armed with some basic knowledge of the statements and some simple financial ratios that can be calculated using them, you're on your way to a better understanding of the financial side of your business.

Author profile

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Questions

- Accounting in the United States is performed according to:**
 - Federal Accounting Standards
 - Generally Accepted Accounting Principles
 - The IRS
 - Mandatory Financial Rules
- What fundamental accounting equation is the balance sheet based on?**
 - Assets = Liabilities + Stockholders' Equity
 - Assets + Liabilities = Stockholders' Equity
 - Gains – Losses = Revenues
 - Revenues - Expenses = Income
- Another name for the Income Statement is:**
 - Cash Receipt Statement
 - Financial Leverage Statement
 - Chart of Accounts
 - Profit & Loss Statement
- A balance sheet:**
 - presents financial information as of a specific moment in time
 - presents financial information over a period of time
 - balances gains and losses
 - none of the above
- Liquidity ratios measure:**
 - a company's ability to pay long-term debts
 - the amount of a company's short-term debts versus their long-term debts
 - a company's ability to pay short-term debts
 - the market value of a company
- If a Drills-R-U's has \$20,000 in current assets and \$10,000 in current liabilities, what is their current ratio?**
 - 1.2
 - 0.5
 - 2.0
 - .76
- Activity ratios help to determine:**
 - how efficiently a company uses its assets
 - the level of business activity during a period of time.
 - when the busiest time of year is for a company
 - whether or not the company made a profit
- If a company has average net receivables of \$15,000 and net credit sales of \$63,000, what is their accounts receivable turnover in days?**
 - 4.2
 - 93.44
 - 2.1
 - 86.90 ($63,000/15,000 = 4.2$; $365/4.2 = 86.90$)
- If a company's debt ratio is high, this indicates:**
 - they do not use financing to purchase assets
 - that they have recently paid off all of their debt
 - that a high percentage of their assets are financed by creditors
 - that they are in bankruptcy
- Financial ratio analysis:**
 - tells us everything we need to know about a company's financial position
 - is a useful tool to help gain understanding of a company's financial position
 - is very difficult and must be done by a professional
 - none of the above
- Which of the following is not a type of financial ratio:**
 - Liquidity
 - Profitability
 - Compatibility
 - Activity
- A balance sheet presents financial information:**
 - As of a specific point in time
 - Spanning a period of time
 - For three years at a time
 - One year at a time
- The income statement presents financial information:**
 - As of a specific point in time
 - For the last day of the year
 - For a specific period of time
 - None of the above
- What should be done once the financial ratios have been calculated?**
 - Nothing, you're finished
 - They should be added together and averaged
 - They should be compiled in a list
 - They should be compared to previous periods' results, industry averages and/or similar businesses' ratios
- How are assets listed on the balance sheet?**
 - According to their liquidity
 - According to their value
 - According to their age
 - In alphabetical order
- What is stockholders' (or owners') equity?**
 - The value of the company
 - The amount that would remain after all liabilities were paid using assets
 - The total value of the company's assets
 - The degree of power management has in decision making
- What is the formula for the debt ratio?**
 - Debt Ratio = Total Liabilities/Total Assets
 - Debt Ratio = Total Assets – Total Liabilities
 - Debt Ratio = Net Income – Current Liabilities
 - Debt Ratio = Current Liabilities/Net Income
- The bottom line of the income statement tells us:**
 - Sales for the current period
 - Expenses for the current period
 - Total debt for the current period
 - The company's profit or loss for the period
- A current ratio less than one could indicate:**
 - The company is in an excellent financial position
 - The company may have difficulty paying off its current liabilities
 - The company will not be able to pay off their long-term obligations
 - The company has an abnormally high amount of assets
- Why does the acid test ratio exclude inventory and prepaid accounts from the assets portion of the equation?**
 - Because they are not assets
 - Because they are the least liquid of the current assets
 - Because their values change too often
 - None of the above

Basic Financial Statement Analysis (It's not as scary as you think!)

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1. Identify a balance sheet and income statement.
2. Analyze information obtained from financial statements using basic financial ratios.
3. Implement financial evaluations in the dental practice.

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1. Were the individual course objectives met? Objective #1: Yes No Objective #2: Yes No

Please evaluate this course by responding to the following statements, using a scale of Excellent = 5 to Poor = 0.

- | | | | | | | |
|--|---|-----|----|---|---|---|
| 2. To what extent were the course objectives accomplished overall? | 5 | 4 | 3 | 2 | 1 | 0 |
| 3. Please rate your personal mastery of the course objectives. | 5 | 4 | 3 | 2 | 1 | 0 |
| 4. How would you rate the objectives and educational methods? | 5 | 4 | 3 | 2 | 1 | 0 |
| 5. How do you rate the author's grasp of the topic? | 5 | 4 | 3 | 2 | 1 | 0 |
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14. How long did it take you to complete this course?

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