# Fiscal Management: Part II



The Power to Practice



Robert M. Traynor, Ed.D., MBA

## **Business Series**



### Fiscal Management Part II



### Financial Accounting





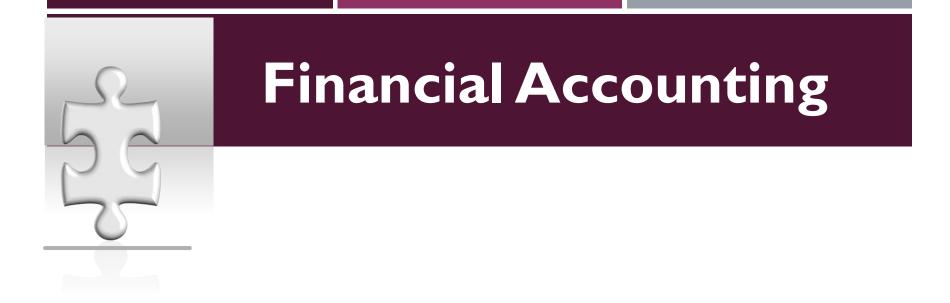
## Managerial Accounting

The process of identifying, measuring, analyzing, interpreting, and communicating information for the pursuit of an organization's goals.

## **Financial Accounting**

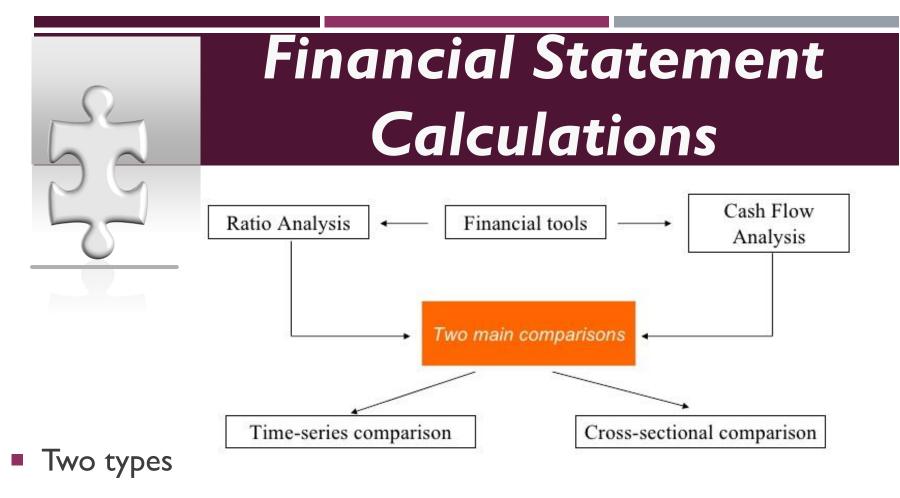


The process of recording, summarizing and reporting the myriad of transactions from a business, so as to provide an accurate picture of its financial position and performance.



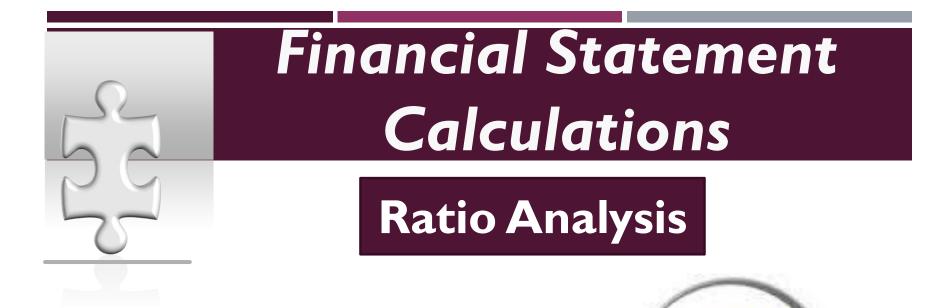
### Data is not information until you do something with it.





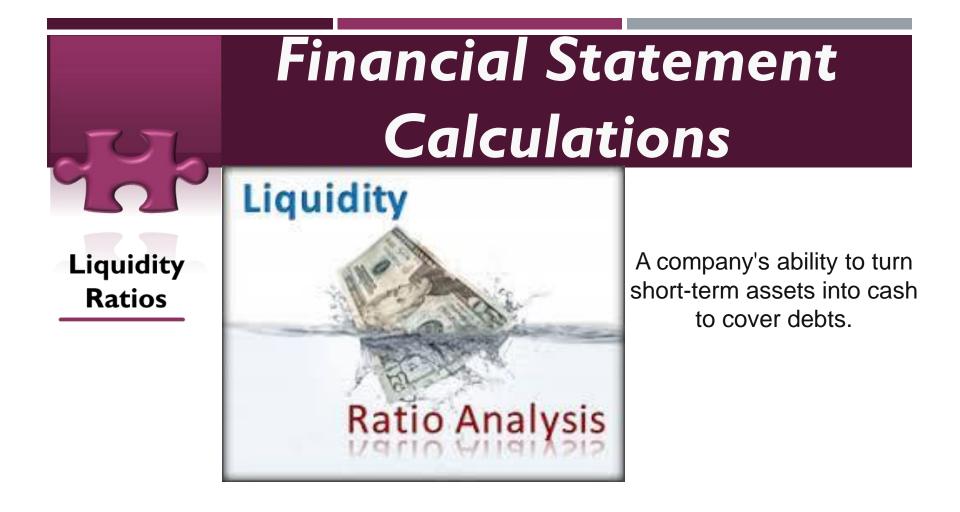
Cross Sectional – Comparison of the practice to an Industry Standard

**Time Series** – Comparison of same practice to different points in time.

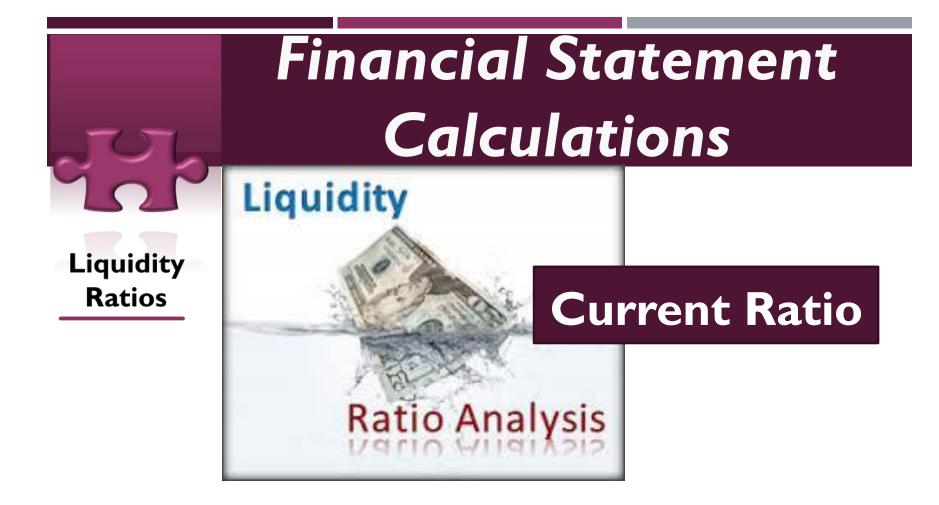


Quantitative analysis of information contained in a company's financial statements

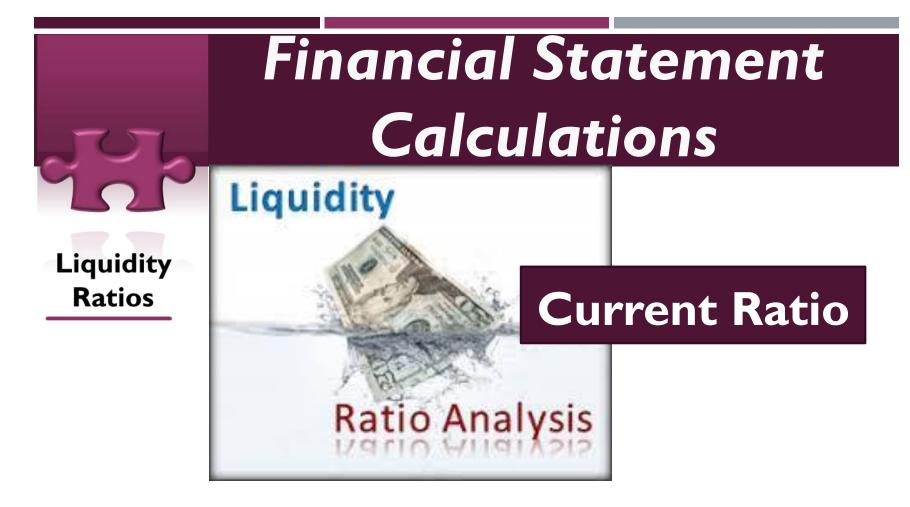
- Purpose of Ratio Calculation
  - Evaluates efficiency, liquidity, profitability & solvency
  - Ratio trends overtime are studied to check if they are improving or deteriorating
  - Primarily conducted on the Balance Sheet and Income Statement

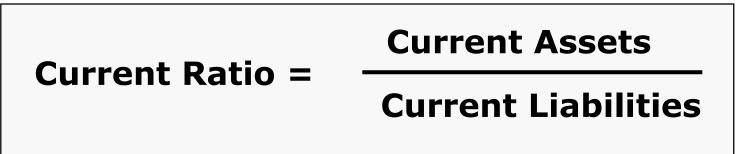


- Health of the practice
- Can it pay its bills



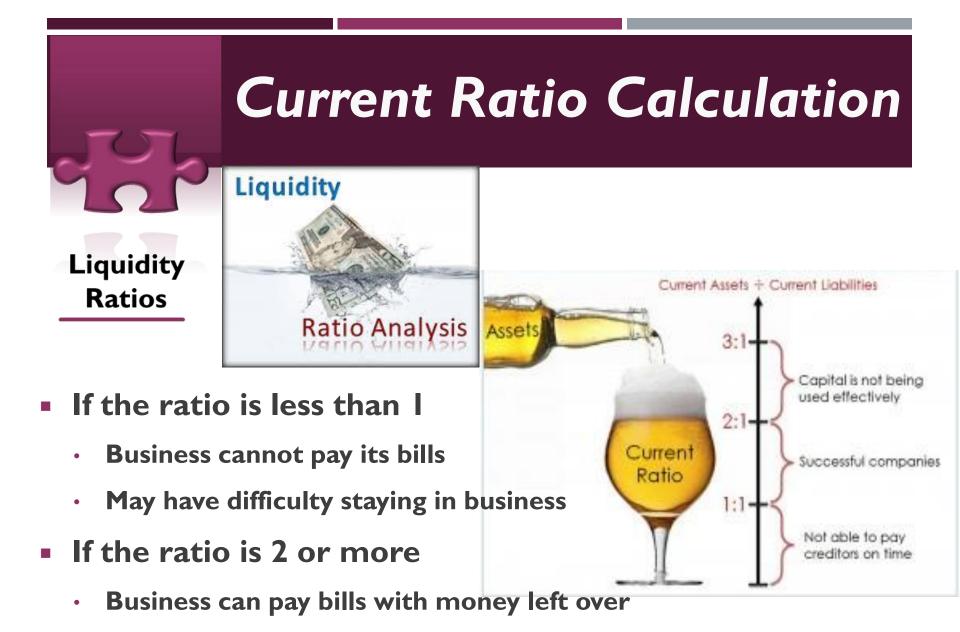
The ratio is mainly used to give an idea of the company's ability to pay back its short-term liabilities (debt and payables) with its short-term assets (cash, inventory, receivables).





<b>Current Ratio Calculation</b>					
Liquidity Ratios	AUDIOLOGY ASSOCIATES, INC. Balance Sheet December 31, 2009				
Current Ratio = Current Assets Current Liabilities	Assets Current assets: Cash34,000. Accounts Receivable80,000.	Liabilities & Owners' Equity Current liabilities: Short Term Debt20,000. Accounts Payable			
\$284,000 = 4.2, CR \$67,000	Merchandise Inventory <u>170.000.</u> Total Current Assets284,000. Plant and equipment: Equipment	Other Accrued Liabilities <u> 12.000.</u> Total Current Liabilities 67,000. Long term debt			
	Less Accumulated depreciation	Owners' Equity 203,000.			

This practice has over 4 times the necessary cash to pay its bills

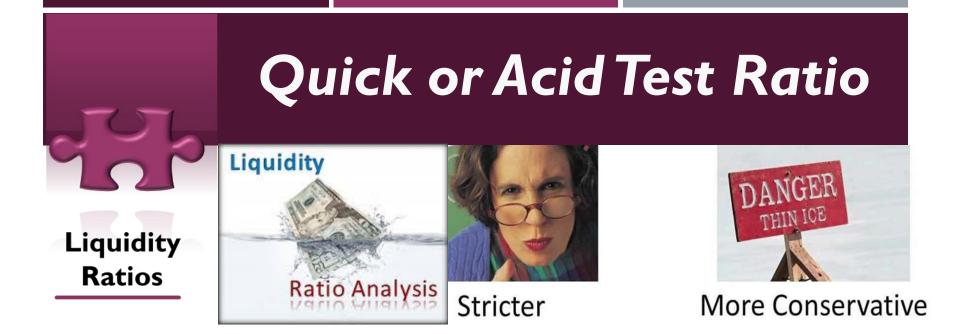


Healthy Business

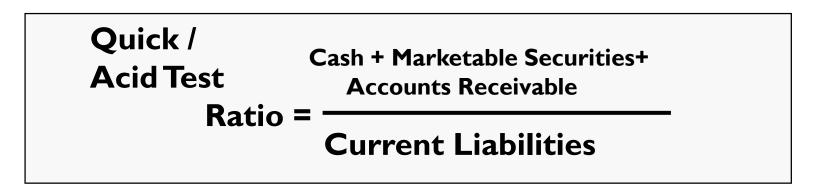


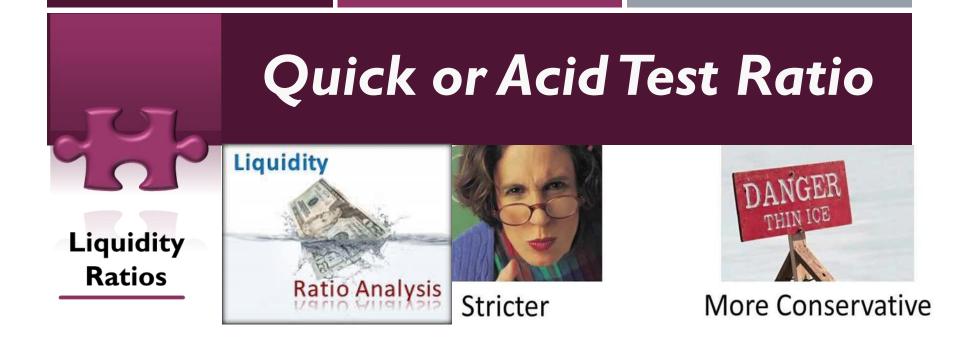
- **1. The Current Ratio Includes Prepaid expenses** 
  - Insurance
  - Inventory
  - Prepaid Taxes

- 2. Many Audiology Practices do not have inventory
- 3. May need to calculate without these expenses
  - Quick Ratio/Acid Test Ratio

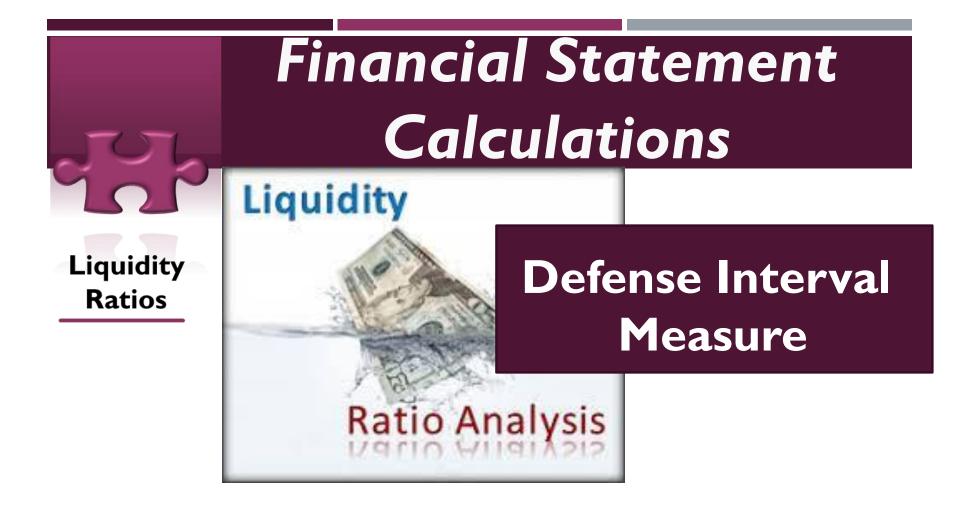


An indicator of a company's short-term liquidity. The quick ratio measures a company's ability to meet its short-term obligations with its most liquid assets. For this reason, the ratio excludes inventories from current assets.

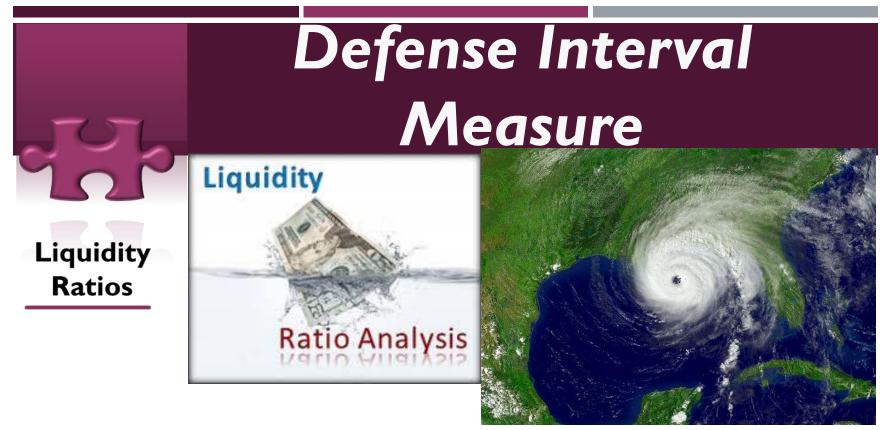




- Figures Liquidity without prepaid expenses Insurance & Inventory
- As with CR must be greater than I to pay bills



An efficiency ratio that measures how many days a company can operate without having to access non-current (long-term) assets.



- Measures how long the practice can operate without any business.
- Natural Disasters
- Some feel a better analysis than Liquidity measures as it compares to expenses rather than debt.
- Allows for a projection of emergency cash (Defensive Assets) necessary if there is no business.



To figure the Defense Interval Measure you must first know the <u>Projected Daily Operating Expenses (PDOE)</u>

How much does it cost to keep the practice open daily



#### Projected Daily Operating Expenses (PDOE)

PDOE = -	Total Yearly Expenses
	365

Simply add up the Cost of goods, selling and administrative expenses from the Balance Sheet and divide by 365.

Defense Interval			
Mea	sure Calculatio	n	
	ected Daily Operating Expenses (PDOE AUDIOLOGY ASSOCIATES, I Income Statement Year the Ended December 31, 2009	NC.	
Liquidity Ratios PDOE = Total Yearly Expenses	Net sales1 Costs of goods sold		
365	Net profit Selling, general and administrative expenses	350,000. 311,000.	
<u>811,000</u> = \$852.00	Income from operations (EBIT)	39,000. 9,000.	
365 Daily Operating	Income before taxes (EBT) Income taxes Net Income	30,000. 12,000. . 18,000.	

It costs \$852.00 to keep the doors open each day



#### Once the PDOE is known the DIM can be computed as:

Defense Interval <u></u> Measure	Defensive Assets	
	Projected Daily Operating Expenses	

## Defense Interval Measure Calculation



Defensive Assets \$50,000 = 58 days Defense PDOE \$852 Measure

Liquidity Ratios



Activity / Turnover Ratios are a set of financial ratios used to measure the efficiency of various operations of a business.

- Activity ratios measure the efficiency of the firm in using its resources / assets.
- Also known as Asset Management Ratios because these ratios indicate the efficiency with which the assets of the firm are managed / utilized.





Activity / Turnover Ratios are a set of financial ratios used to measure the efficiency of various operations of a business.

**Three Important Ratios:** 

- Accounts Receivable Turnover Ratio
- Inventory Turnover Ratio
- Total Assets Turnover Ratio



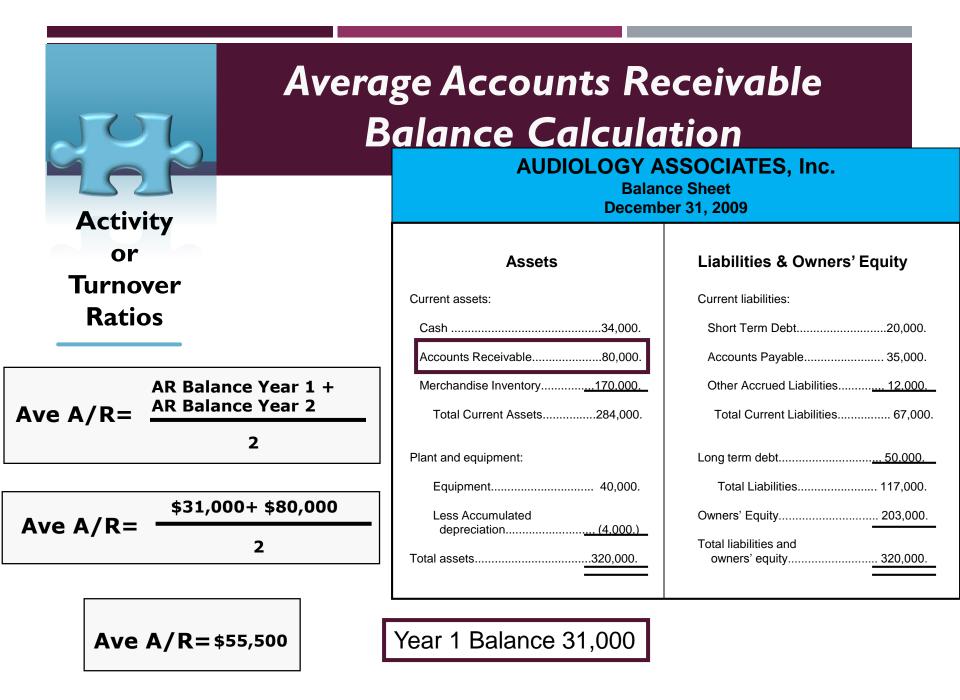


Receivable turnover ratio indicates the frequency of conversion from debtors to cash normally in a year. It also suggests the extent of liquidity of debtors. Average collection period gives a time period in which debtors are converted into cash.



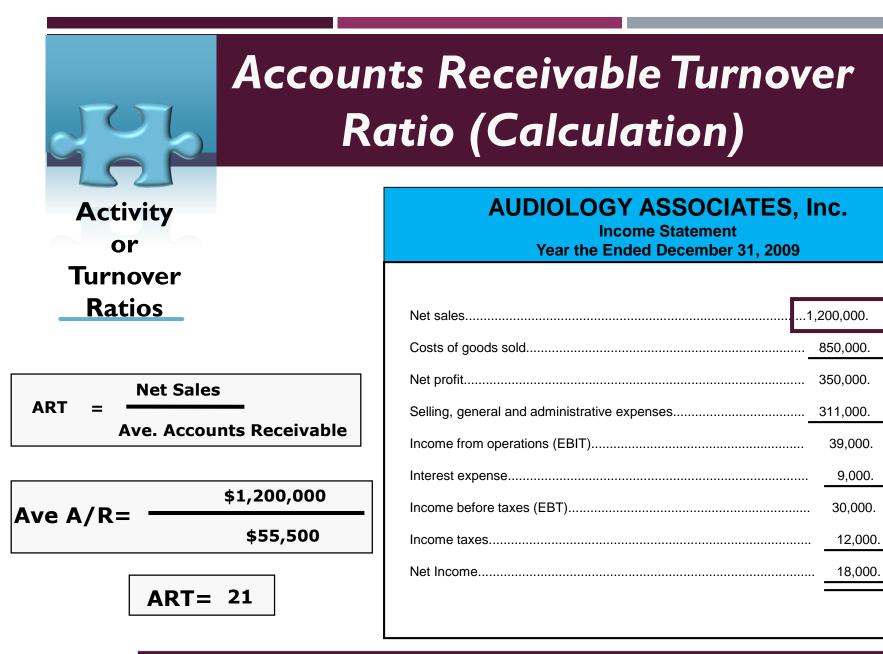
To figure the Accounts Receivable Turnover Ratio you must first know the Average Accounts Receiveable Balance.

> Take balance at end of last year + balance at end of current year / 2



### Accounts **Receivable Turnover Ratio** Activity PAST DUE or Turnover Invoice Ratios Pending Forectosure





Accounts Receivable turns 21 times per year, AR turns about every 17 days

### Accounts **Receivable Turnover Ratio** Activity or PAST DUE Invoice Turnover Ratios Pending Forectosur

#### Ave.Audiology Clinic....ART is about 6

# Accounts Receivable turns 6 times per year or every 60 days



Inventory turnover ratio indicates how many times inventory is sold and replaced in a financial year. In other words, the ratio gives the frequency of conversion of inventory into cash in a given financial year. Normally, higher ratio is considered good as it suggests better inventory management. Assists in planning for stock orders.



To figure the *Inventory Turnover Ratio* you must first know the <u>Average Inventory Balance.</u>

> Take balance at end of last year + balance at end of current year / 2



## Average Inventory

#### AUDIOLOGY ASSOCIATES, Inc.

Balance Sheet December 31, 2009

#### Assets

34,000.
80,000.
<u>170.000.</u>
284,000.
40,000.
(4.000.)
320,000.

#### Liabilities & Owners' Equity

Current liabilities:

Short Term Debt	20,000.
Accounts Payable	35,000.
Other Accrued Liabilities	12.000.
Total Current Liabilities	67,000.
Long term debt	50.000.
Total Liabilities	117,000.
Owners' Equity	203,000.
Total liabilities and owners' equity	320,000.

Year 1 Inventory 111,000







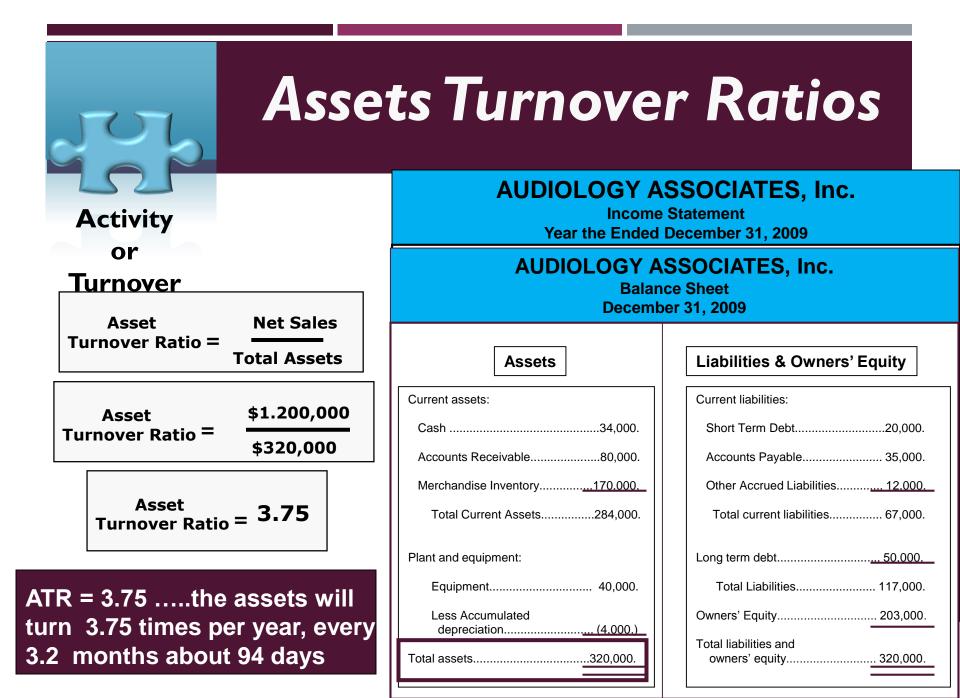
ITR = 6 .....then inventory will turn 6 times per year, every 2 months



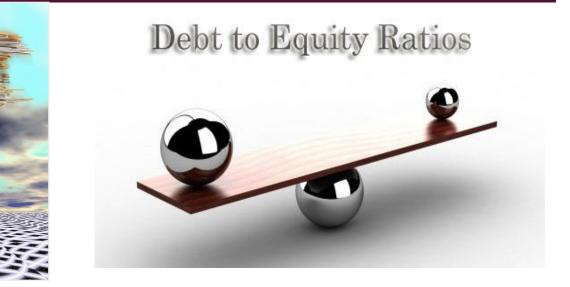
The amount of sales or revenues generated per dollar of assets. The Asset Turnover ratio is an indicator of the efficiency with which a company is deploying its assets.



- The higher the better, suggests greater revenue per dollar of assets
- Calculation varies among industries
- Usually conducted once per year
- Conducted with both Balance Sheet and Income Statement



Debt/Leverage Ratios



Measurements of the overall solvency of the practice

- Debt to Assets Ratio
- Times Interest Earned
- Suggest the amount of debt relative to the assets of the practice
- If the practice can support more debt for equipment, expansion, etc.



### Debt to Assets Ratio

**Debt to Equity Ratios** 



Presents the liability of the practice for each dollar of assets. Provides the creditors with information about the ability of the practice to withstand losses without impairing the interest of the creditors.

 Debt/Leverage Ratios
 Debt to Assets Ratio

 Debt to Equity Ratios
 Debt to Equity Ratios

 Debt to Assets Ratio
 Total Liabilities

 Total Assets
 Total Assets

- The lower the better, suggesting the practice is less dependent on borrowing.
- A higher DA Ratio indicates that if business is bad for a time that it could cause financial problems

### **Debt to Assets Ratio**

#### **Debt/Leverage**

D	ebt to Assets	Total Liabilities
Ratio =		Total Assets
-	Debt to Assets _	\$117,000
	Ratio =	\$320,000
	Debt to Assets Ratio	= 36.5%

The lower the better, suggesting that the practice is less dependent upon borrowing.

December 31, 2009	
Assets	Liabilities &
Current assets:	Current liabilities:
Cash34,000.	Short Term Deb
Accounts Receivable80,000.	Accounts Payab
Merchandise Inventory	Other Accrued L
Total Current Assets284,000.	Total Current L
Plant and equipment:	Long term debt
Equipment 40,000.	Total Liabilities
Less Accumulated depreciation	Owners' Equity
Total assets	Total liabilities and owners' equity.

#### **Owners' Equity**

**AUDIOLOGY ASSOCIATES, INC. Balance Sheet** 

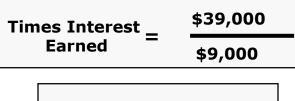
Short Term Debt	20,000.
Accounts Payable	35,000.
Other Accrued Liabilities	12,000.
Total Current Liabilities	67,000

Long term debt	50,000.
Total Liabilities	117,000.
Owners' Equity	203,000.
Total liabilities and owners' equity	320,000.

### **Times Interest Earned**

#### Debt/Leverage Ratios

Times Interes	st _	EBIT
Earned	= Inte	erest Expense





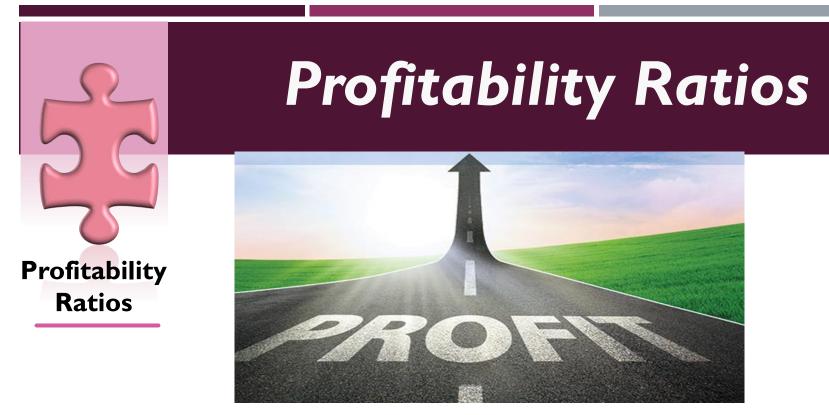
#### AUDIOLOGY ASSOCIATES, Inc.

#### Income Statement Year the Ended December 31, 2009

Net sales1,200,000.		
Costs of goods sold	850,000.	
Net profit	350,000.	
Selling, general and administrative expenses	311,000.	
Income from operations (EBIT)	39,000.	
Interest expense	9,000.	
Income before taxes (EBT)	30,000.	
Income taxes	12,000.	
Net Income	. 18,000.	



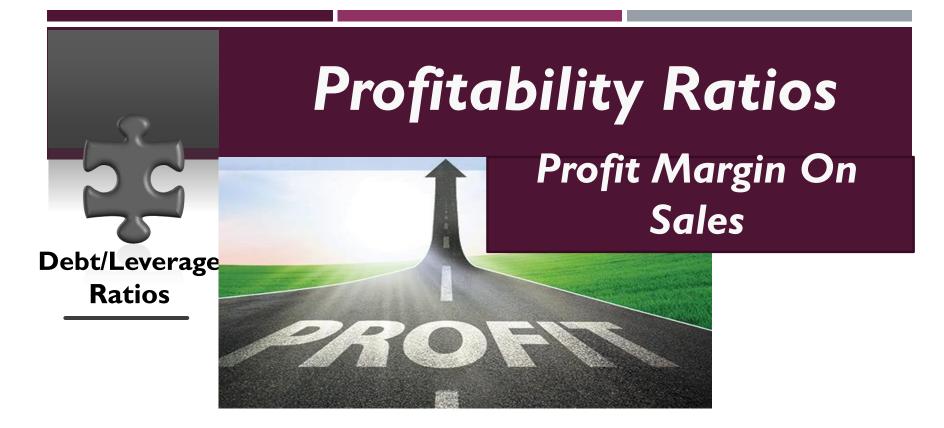
- This ratio should be between 3 and 5 for Audiology Practices
- Indicates that earnings are 3 to 5 times greater than the interest charges, if less than 1 cannot pay interest



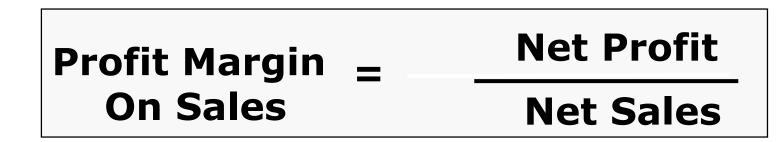
Ratios that may tell the most about a practice are the profitability ratios that are conducted on the income statement. Profitability ratios are clues as to how well the practice has performed in the past.

Routine Profitability Ratios are

- Profit Margin On Sales (PMOS)
- Asset Turnover Ratio (already discussed)



- How much of every dollar of sales is profit.
- Calculation is expressed in # cents per dollar is profit.



Debt/Leverage
Ratios

Profit Margin	Net Profit
on Sales =	Net Sales
Profit Margin	\$350,000
on Sales =	\$1,200,000
Profit Margin on Sales	<sup>n</sup> <sub>=</sub> \$ .29

## **Profitability Ratios** Profit Margin On Sales

#### AUDIOLOGY ASSOCIATES, Inc.

Income Statement Year the Ended December 31, 2009

Net sales1	,200,000.
Costs of goods sold	850,000.
Net profit	350,000.
Selling, general and administrative expenses	311,000.
Income from operations (EBIT)	39,000.
Interest expense	9,000.
Income before taxes (EBT)	30,000.
Income taxes	12,000.
Net Income	18,000.

Calculation yields \$0.29: 29 cents of every dollar collected by the practice is profit.

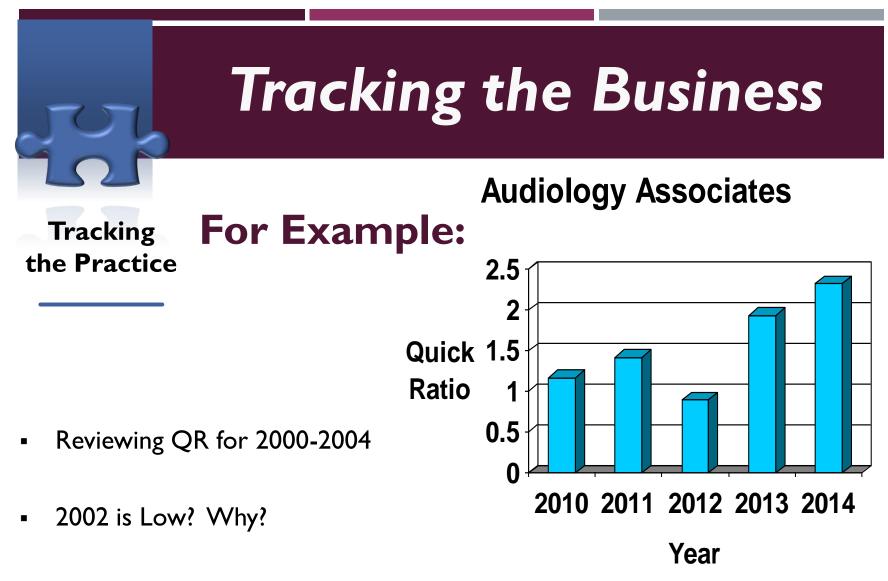


Tracking the Practice

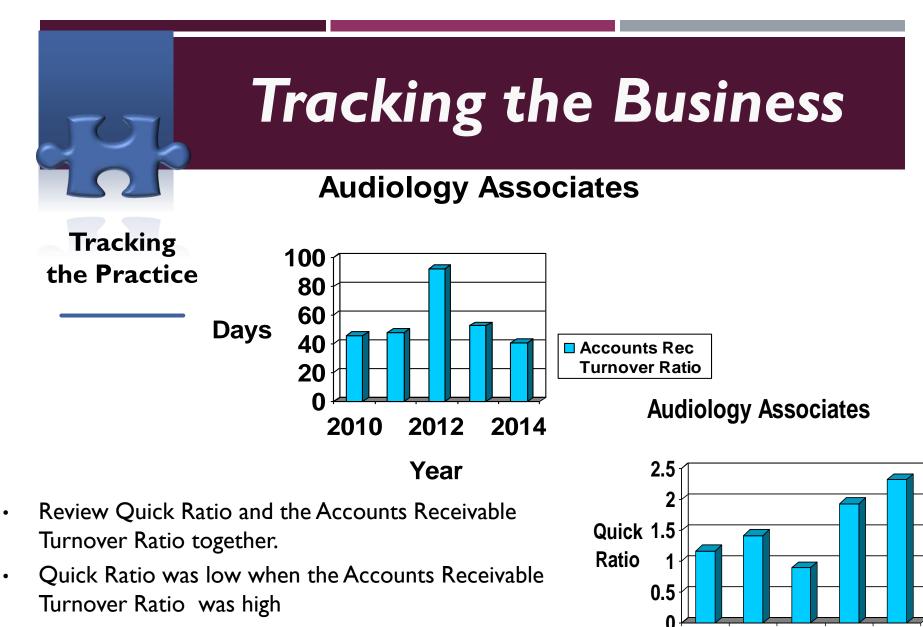
Easily conducted with spreadsheets



- Can demonstrate areas of the practice that need improvement
- Tell why there are problems in the practice
- What went well with the practice and what went wrong.



Difficult to tell until you look at other ratios at the same time



A possible explanation of why it was difficult to pay the bills.

Year

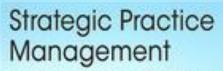
2010 2011 2012 2013 2014

## **Tracking the Business**

Tracking the Practice



• There are many other Ratios that may be beneficial to you in your practice.



Business and Procedural Considerations Second Editory

ROBERT G. GLASER, PHD ROBERT M. TEANNOR, EDD, MBA



- Your accountant can help you set up the ones that are important for you.
- Further information go to Strategic Practice Management.