



# Recognition versus Disclosure and Audit Fees and Costs: Evidence from Pension Accounting in Japan

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- Pension accounting in Japan
  - □ Pre-Statement No. 26
    - Certain items of pension liabilities and assets were not recognized in financial statements but were disclosed in the notes.
      - Actuarial gains and losses
      - Prior pension costs
  - □Post-Statement No. 26
    - The delayed recognition of these items are abolished.
    - Firms' pension status is recognized as a liability or an asset on their balance sheets.
  - ✓ Using Japanese pension accounting rules, we can investigate recognition vs. disclosure of pension information.

- •Previous studies investigate whether capital market participants process disclosed and recognized items differently (e.g., Davis-Friday et al., 1999; Yu, 2013).
- •One of the factors in investors' differential treatments between recognition and disclosure is due to the reliability of accounting information (e.g., Schipper, 2007).
  - □ A decrease in measurement errors
  - □An increase in scrutiny of managers and auditors
- ✓ Prior research fails to clearly report that auditors expend more effort for recognized items relative to disclosed items.

- •Prior studies examine the relations between recognized vs. disclosed items and audit fees (e.g., Goncharov et al., 2014; Krishnan and Sengupta, 2011).
  - □Goncharov et al. (2014) report that audit fees are higher for recognition firms than disclosure firms.
  - □Krishnan and Sengupta (2011) find that recognized and disclosed items have similar associations with audit fees.
- ✓ Using audit fee data alone cannot determine whether audit fee increases are attributable to additional audit effort or a higher risk premium.

- Audit data in Japan
  - □In addition to audit fees, firms must disclose the number of audit team members based on their professional qualifications in annual securities reports.
    - Signing partner
    - Certified public accountants (CPAs)
    - Junior CPAs
    - Other professional staff
  - ✓ Previous studies employ the number of audit team members to measure audit costs, namely audit effort (e.g., Fukukawa, 2011; Kim and Fukukawa, 2013).

- •Using audit fee and cost data, only one recent study analyzes the effects of recognized vs. disclosed items on auditors' decisions (Kusano and Sakuma, 2019).
  - They reveal differences in the relations between recognized vs. disclosed finance lease obligations and audit fees.
  - □ However, they find that recognized and disclosed finance leases have similar associations with audit costs.
- ✓ Little is known about whether auditors scrutinize recognized amounts more closely than disclosed financial information.

#### Research Question

#### Purpose of our study

Using defined benefit (DB) pension plans, we explore whether auditors are more likely to scrutinize recognized amounts than disclosed financial information.

#### Contribution of our study

- ✓ We extend the prior literature by investigating the effects of recognition vs. disclosure on auditors.
- ✓ We extend and complement the prior research by providing evidence that auditors expend more audit effort for recognized items relative to disclosed items.

## Hypothesis Development

#### ■Hypothesis 1:

Disclosed pension liabilities in the pre-Statement No. 26 period have positive associations with audit fees/costs.

#### ■Hypothesis 2:

Disclosed pension liabilities exhibit weaker associations with audit fees/costs than do recognized previously off-balance sheet pension liabilities.

#### Hypothesis 3:

The differences in the associations between disclosed versus recognized pension liabilities and audit fees/costs are pronounced for firms with a large pension plan deficit.

#### Regression Model

$$Fee = \alpha_{0} + \alpha_{1}PL\_on + \alpha_{2}PL\_off + \alpha_{3}PL\_on \times Post \\ + \alpha_{4}PL\_off \times Post + \sum_{j} \alpha_{j}Controls \\ + \sum_{k} \alpha_{k}Industry + \sum_{l} \alpha_{l}Year + \varepsilon$$

$$Cost = \beta_{0} + \beta_{1}PL\_on + \beta_{2}PL\_off + \beta_{3}PL\_on \times Post \\ + \beta_{4}PL\_off \times Post + \sum_{j} \beta_{j}Controls \\ + \sum_{k} \beta_{k}Industry + \sum_{l} \beta_{l}Year + \varepsilon$$

## Sample Selection

#### Sample

- □Firms that prepare consolidated F/S using Japanese GAAP are listed on stock exchanges in Japan.
- □Banks, securities firms, and insurance are excluded.
- □The firms' fiscal year ends on March 31.
- □ The accounting period does not change during the fiscal year.
- Firms with joint auditors are excluded.
- □Firms sponsor DB pension plans.

#### Database

- □Financial Statement data: Nikkei NEEDS Financial QUEST
- □ Audit data: hand-collection from annual securities reports

## Sample Selection

#### Sample Period

- □Pre-Statement No. 26: 2009–2013
- □Post-Statement No. 26: 2014–2018
- ✓ We mitigate the effects of the demise of ChuoAoyama and the introduction of the internal control audits under the J-SOX.

#### Final Sample

- □15,297 firm-year observations
  - Pre-Statement No. 26: 7,985 firm-year observations
  - Post-Statement No. 26: 7,312 firm-year observations
- ✓ Observations of continuous variables are trimmed by year at the top and bottom 1%.

#### Main Results: H1–H2

		(1)	(2)
		<b>Audit Fees</b>	Audit Costs
	Expected	Coefficient	Coefficient
	Sign	(t-value)	(t-value)
PL_on	+	$0.4071^{*}$	0.3853
		(1.8304)	(1.4567)
PL_off	+	-0.2897	0.9732*
		(-0.6671)	(1.8914)
PL_on × Post	+	0.6192***	0.6206**
		(3.4528)	(2.1096)
$PL_off \times Post$	+	0.4029	2.3571**
		(0.4930)	(2.1125)
Control Variables		Yes	Yes
<b>Industry Dummy</b>		Yes	Yes
Year Dummy		Yes	Yes
N		15,297	15,297
Adj. R <sup>2</sup>		0.7679	0.4176

Notes: *t* statistics are based on robust standard errors clustered at the firm level and are reported in parentheses. \*\*\*, \*\*, and \* indicate that the coefficient estimate is significant at the 0.01, 0.05, and 0.1 levels using a two-tailed t test, respectively.

## Main Results: H3 (Audit Fees)

	<u>,                                      </u>		
		(1)	(2)
		Small	Large
	Expected	Coefficient	Coefficient
	Sign	(t-value)	(t-value)
PL_on	+	$0.7310^{*}$	0.2987
		(1.8772)	(0.9999)
PL_off	+	-0.1735	-0.4700
		(-0.2966)	(-0.7653)
PL_on × Post	+	1.1417**	0.8291***
		(2.5055)	(3.1070)
$PL_off \times Post$	+	-0.3407	1.2028
		(-0.3156)	(0.9006)
Control Variables		Yes	Yes
<b>Industry Dummy</b>		Yes	Yes
Year Dummy		Yes	Yes
N		7,650	7,647
Adj. R <sup>2</sup>		0.7836	0.7409

Notes: *t* statistics are based on robust standard errors clustered at the firm level and are reported in parentheses. \*\*\*, \*\*, and \* indicate that the coefficient estimate is significant at the 0.01, 0.05, and 0.1 levels using a two-tailed t test, respectively.

## Main Results: H3 (Audit Costs)

		(1)	(2)
		Small	Large
	Expected	Coefficient	Coefficient
	Sign	(t-value)	(t-value)
PL_on	+	0.3225	0.5539
		(0.6794)	(1.5098)
PL_off	+	1.3829*	0.2303
		(1.9256)	(0.3226)
PL_on × Post	+	1.1493*	0.5591
		(1.7536)	(1.3142)
$PL_off \times Post$	+	1.8230	2.9152*
		(1.2483)	(1.6746)
Control Variables		Yes	Yes
<b>Industry Dummy</b>		Yes	Yes
Year Dummy		Yes	Yes
N		7,650	7,647
Adj. R <sup>2</sup>		0.4219	0.4049

Notes: *t* statistics are based on robust standard errors clustered at the firm level and are reported in parentheses. \*\*\*, \*\*, and \* indicate that the coefficient estimate is significant at the 0.01, 0.05, and 0.1 levels using a two-tailed t test, respectively.

## Summary & Interpretation

- Audit fees are not different between recognized and disclosed pension liabilities, but audit costs are higher for recognized pension liabilities than for disclosed pension liabilities.
- •For firms with a large pension plan deficit, auditors process disclosed pension liabilities differently from recognized previously off-balance sheet pension liabilities in determining audit costs.
- ✓ Our results suggest that auditors expend greater audit effort for recognized amounts relative to disclosed financial information.