

# Japanese researchers' usage behaviours of international and national journals in oncology

Tomoko Tsuchiya

Master of Arts Program for

Journalist Education in Science and Technology

Waseda University, Japan

\*Je suis désolé. Je ne peux pas parler le français ainsi ma présentation est dans l'anglais

# Contents

- Objective and Background
- Method: Citation Analysis
- Data
- Result
- Arguments
- Concluding Remarks

# Contents

- Objectives and Backgrounds
- Method: Citation Analysis
- Data
- Result
- Arguments
- Concluding Remarks

# Objectives

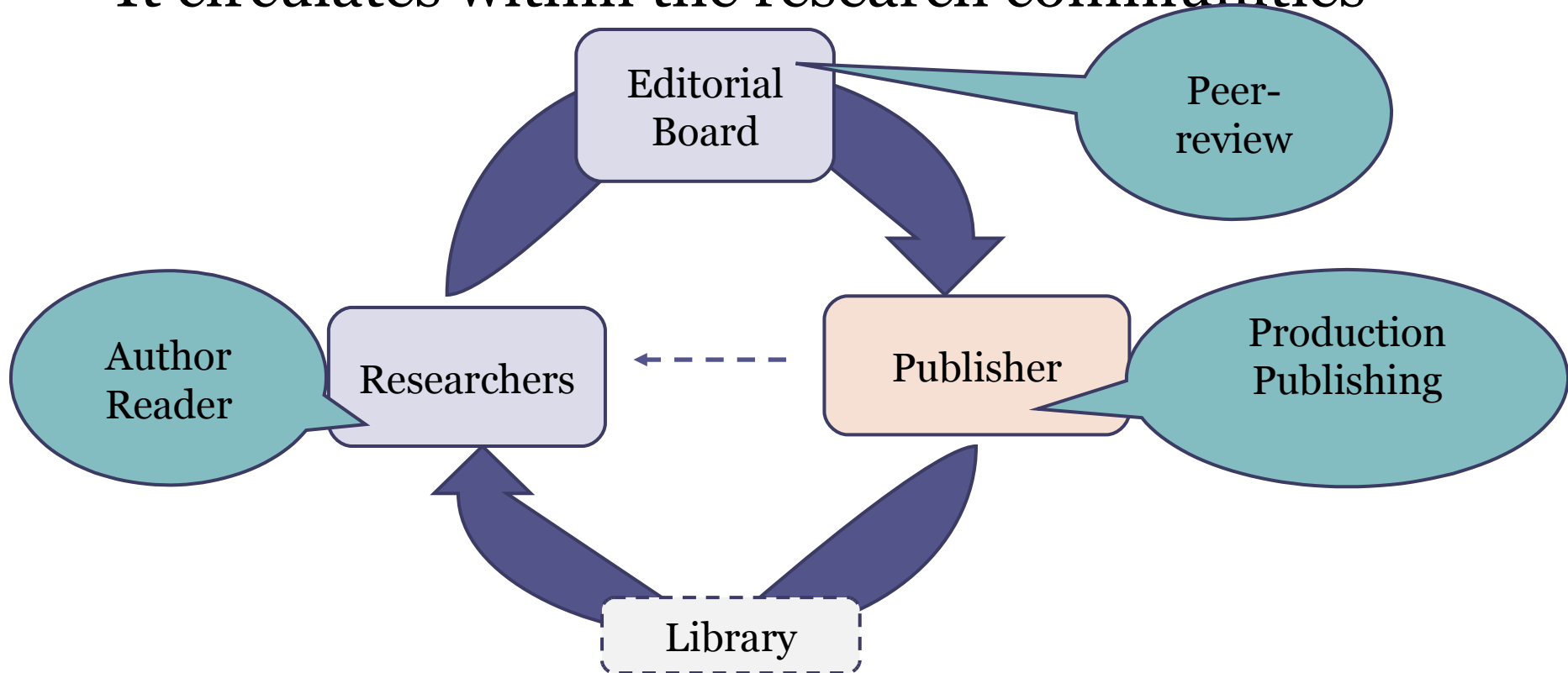
- 1. How do the researchers based in Japan and publishing in English use the national journals?
  - as information source
  - to present their achievements
- 2. What is the role of national journals and how should it be developed?

# Definitions

- **National Journal**
  - Journals launched in Japan and published fully in English
- **International Journal**
  - Journals launched outside of Japan and published fully in English
- **Japanese Authors**
  - Researchers based in Japan and publishing in English

# What are scholarly journals

- It circulates within the research communities



# What are scholarly journals

- Not the only one information source, but still the major
- Selected based on peer-review
- Review process/ publication speed could be slow

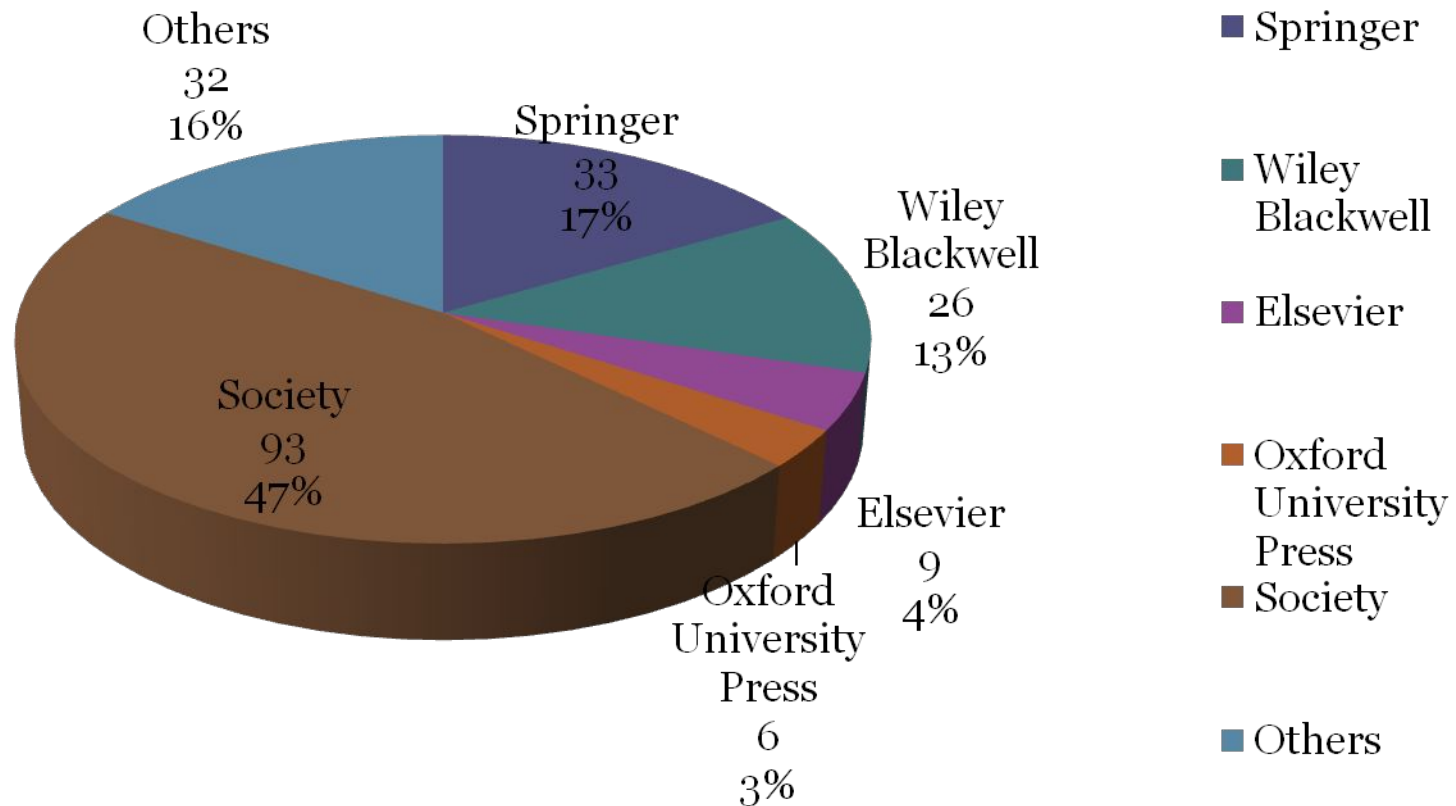
# Journal Publishing in Japan

- **Global:**
  - **More than 18,000 titles** (Calculation based on Scopus)
  - **8,207 titles with Impact Factor in 2008**
    - **Science: 6,502 titles**
    - **Social Science: 1,705 titles**
- **Japan:**
  - **961 titles** (Calculated based on Web of Science, JSTAGE, CiNii)
  - **199 titles with Impact Factor**
    - **Science titles: 190**
    - **Social science titles: 9**



# Journal Publishing in Japan

- Japanese titles by Publisher



# Journal Publishing in Japan

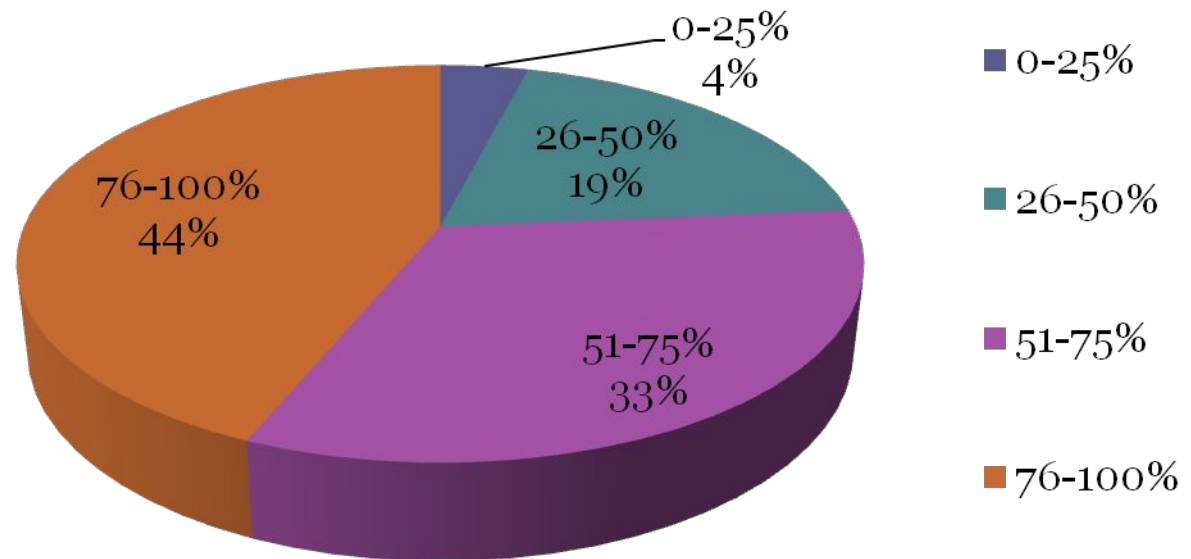
- **ISI Ranking by Category ( total:199 titles)**

25 %: 8 titles

26 % – 50 %: 39 titles

51% – 75% : 65 titles

76% – 100% : 87 titles



# Alleged Roles of Journals

- Dissemination of knowledge
- Forum for experts' discussion
- Advancing knowledge

# What about National Journals?

- Dissemination of knowledge
  - Forum for the experts' discussion
  - Advancing knowledge
- &**
- Dissemination of Japan's scholarly achievements to the world
  - Claiming for appropriate acknowledgements

# Preface of Japanese Journal of Clinical Oncology Volume 1, Issue 1

*“...an increasing number of prominent scholars and physicians from other countries who visited National Cancer Center often show their disappointment in finding that all materials or literature of the studies made at the institution are written in Japanese only.”*

*Kempo Tsukamoto  
The first Editor-in-Chief of  
Japanese Journal of Clinical Oncology*

# Objective

- 1. How do the researchers based in Japan and publishing in English use the national journals:
  - as an information source
  - as a forum to present to their achievements
- 2. What is the role of national journals and how should it be developed

# Contents

- Objective and Background
- **Method: Citation Analysis**
- Data
- Result
- Arguments
- Concluding Remarks

# Method

- Examine the Japanese authors' citing activity of the selected journals that publish the largest number of papers by Japanese authors
- Subject area: Oncology
- Titles: 3 national journals, 3 international journals
- Published year: 2005, 2006, 2007
- Data resource: SCOPUS  
ISI Journal Citation Report (JCR)



# Citation Analysis

- Strengths
  - Quantitative data is obtainable
  - Ready-made databases
- Weaknesses
  - Omit other forms of “use”
  - Ready-made databases are uncontrollable by researchers: biased collection, dirty data

# Criteria for data selection

- Published fully in English
- Top 3 national and international journals that published the largest number of articles by Japanese authors from 2005 to 2007
- Oncology journal (categorised by JCR, and Scopus)

# Contents

- Objective and Background
- Method: Citation Analysis
- **Data**
- Result
- Discussion
- Concluding Remarks


# Summary of Data



- Articles counted: 1,896
  - 902 in National journals, 994 in International journals
- References counted: 60,738
  - 24,837 in National journals, 35,901 in International journals
- Titles cited: 2,317
  - 130 National journals (6%), 2,187 International journals



# Basic information

		Journal title	Publisher	2008 IF	Articles published 2005-2007	% of articles by Japanese authors
National Journals	A	Cancer Scienc	The Japanese Cancer Associations	3.471	524	85%
	B	Japanese Journal of Clinical Oncology	Oxford University Press	1.405	416	68%
	C	Japanese Journal of Lung Cancer	The Japan Lung Cancer Society		173	100%
International Journals	D	Cancer Research	the American Association for Cancer Research, Inc.	7.514	4236	9%
	E	British Journal of Cancer	Cancer Research UK	4.846	1550	11%
	F	International Journal of Cancer	International Union against Cancer	4.734	2162	20%

# Basic information - Impact Factor

Rank within Category	Full Title	Impact Factor	5-Year Impact Factor	Cited Half-life	Citing Half-life	Eigenfactor Score	Article Influence Score	Journal Country/Territory
1	CA-A CANCER JOURNAL FOR CLINICIANS	74.575	50.766	3.3	5.1	0.03648	17.506	UNITED STATES
2	NATURE REVIEWS CANCER	30.762	35.007	4.5	4.6	0.13538	15.265	ENGLAND
3	CANCER CELL	24.962	23.332	3.9	4.7	0.11911	11.730	UNITED STATES
								
9	LEUKEMIA	8.634	6.896	4.8	4.9	0.05949	2.216	ENGLAND
10	SEMINARS IN CANCER BIOLOGY	8.284	7.708	5.4	5.6	0.01677	3.113	ENGLAND
11	STEM CELLS	7.741	8.212	2.9	5.3	0.06039	2.673	UNITED STATES
12	CANCER RESEARCH	7.514	7.980	6.7	5.3	0.43486	2.827	UNITED STATES
13	ONCOGENE	7.216	6.729	5.6	5.5	0.25962	2.676	ENGLAND
14	CANCER AND METASTASIS REVIEWS	6.766	7.470	5.6	5.5	0.01095	2.469	UNITED STATES

15	ONCOLOGIST	6.630	6.284	3.7	4.7	0.02021	1.704	UNITED STATES
27	CARCINOGENESIS	4.930	5.210	7.5	5.9	0.04969	1.615	ENGLAND
28	BRITISH JOURNAL OF CANCER	4.846	4.637	6.7	5.5	0.09494	1.419	ENGLAND
29	CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION	4.770	5.148	4.8	6	0.06422	1.692	UNITED STATES
30	INTERNATIONAL JOURNAL OF CANCER	4.734	4.656	6.3	6.2	0.11463	1.453	SWITZERLAND
31	CANCER TREATMENT REVIEWS	4.729	4.569	4.6	5.4	0.00876	1.322	ENGLAND
32	ADVANCES IN CANCER RESEARCH	4.721	5.818	9	6.9	0.00427	2.191	UNITED STATES
 								
50	JOURNAL OF THORACIC ONCOLOGY	3.508	3.514	1.7	4.8	0.00648	0.883	UNITED STATES
51	CANCER LETTERS	3.504	3.330	5.5	6	0.04522	0.972	NETHERLANDS
52	CANCER SCIENCE	3.471	3.765	3	6.3	0.02469	1.182	JAPAN
53	EJC SUPPLEMENTS	3.406	2.434	5	3.7	0.00412	0.697	ENGLAND
54	BONE MARROW TRANSPLANTATION	3.400	2.924	6.9	6.2	0.02291	0.711	ENGLAND

115	BIRTH DEFECTS RESEARCH PART B-DEVELOPMENTAL AND REPRODUCTIVE TOXICOLOGY	1.500	1.624	3.6	6.5	0.00175	0.464	UNITED STATES
115	PROGRESS IN EXPERIMENTAL TUMOR RESEARCH	1.500	1.974	>10.0	5.2	0.00069	0.820	SWITZERLAND
117	CANCER GENETICS AND CYTOGENETICS	1.482	1.500	7.8	6.9	0.00978	0.415	UNITED STATES
118	JAPANESE JOURNAL OF CLINICAL ONCOLOGY	1.405	1.669	5.6	6.9	0.00571	0.392	JAPAN
119	ANTICANCER RESEARCH	1.390	1.472	6.8	6.8	0.02755	0.366	GREECE
120	SURGICAL ONCOLOGY CLINICS OF NORTH AMERICA	1.373		6.1	7	0.00236		UNITED STATES
121	ONCOLOGY	1.336	2.305	5.4	6.5	0.00928	0.603	SWITZERLAND

(Total 141 titles in the category)



# Journal A ( National journal )

- Journal title: Cancer Science
- 2008 Impact Factor: 3.471
  - Category ranking: 52/141
- Published by: the Japanese Cancer Association
- 524 articles published in 2005 – 2007
- 87% by Japanese authors

# Journal B (National journal)

- Journal title: Japanese Journal of Clinical Oncology
- 2008 Impact Factor: 1.405
  - Category ranking: 118/141
- Published by: Oxford University Press
- 416 articles published in 2005 to 2007
- 67% by Japanese authors

# Journal C (National journal)

- Journal title: Japanese Journal of Lung Cancer
- 2008 Impact Factor: N/A
- Published by: the Japan Lung Cancer Society
- 174 articles published in 2005 to 2007
- 100 % by Japanese authors

# Journal D (International journal)

- Journal title: Cancer Research
- 2008 Impact Factor: 7.514
  - Category ranking: 12/141
- Published by: the American Association for Cancer Research, Inc.
- 4,235 articles published in 2005 to 2007
- 9% by Japanese authors

# Journal E (International journal)

- Journal title: British Journal of Cancer
- 2008 Impact Factor: 4.846
  - Subject category ranking: 28/141
- Published by: Cancer Research UK
- 1,550 articles published in 2005 to 2007
- 11% by Japanese authors

# Journal F (International journal)

- Journal title: International Journal of Cancer
- 2008 Impact Factor: 4.734
  - Subject category ranking:30/141
- Published by: International Union against Cancer
- 2,162 articles published in 2005 to 2007
- 20% by Japanese authors

# National journals: Majority of authors are from Japan

		Journal title	Publisher	2008 IF	Articles published 2005-2007	% of articles by Japanese authors
National Journals	A	Cancer Science	The Japanese Cancer Associations	3.471	524	85%
	B	Japanese Journal of Clinical Oncology	Oxford University Press	1.405	416	68%
	C	Japanese Journal of Lung Cancer	The Japan Lung Cancer Society		173	100%
International Journals	D	Cancer Research	the American Association for Cancer Research, Inc.	7.514	4236	9%
	E	British Journal of Cancer	Cancer Research UK	4.846	1550	11%
	F	International Journal of Cancer	International Union against Cancer	4.734	2162	20%

# Contents

- Objective and Background
- Method: Citation Analysis
- Data
- **Result**
- Arguments
- Concluding Remarks



# Citation relations between journals A,B,C, D, E, F

- Citing frequency:

$$\underline{A+B+C < D+E+F}$$

- Citing A+B+C vs.  
Citing D+E+F  
=3:10
- Citing A+B+C /  
(A+B+C+D+E+F)  
= Avg. 2.5%
- Citing A+B+C+D+E+F/  
(A+B+C+D+E+F)=13%

	Cited titles					
Citing titles	A	B	C	D	E	F
A	3%	0%	0%	9%	1%	3%
B	1%	3%	0%	2%	2%	1%
C	1%	3%	0%	0%	1%	1%
D	1%	0%	0%	10%	1%	2%
E	1%	0%	0%	8%	4%	3%
F	2%	0%	0%	8%	2%	4%

\*(A+B+C+D+E+F) refers to total number of references examined

# Citation relations: National vs. International

- A+B+C+other National journals vs. D+E+F+other International journal = **5%:95%**

Among National journals  
-> **8%:92%**

Among International Journals -> **2%:98%**

		Cited titles							
		A	B	C	Other National Journal	D	E	F	Other International Journal
Citing titles	A	3%	0%	0%	1%	9%	1%	3%	82%
	B	1%	3%	0%	5%	2%	2%	1%	86%
	C	1%	3%	0%	6%	0%	1%	1%	88%
	D	1%	0%	0%	0%	10%	1%	2%	86%
	E	1%	0%	0%	1%	8%	4%	3%	83%
	F	2%	0%	0%	1%	8%	2%	4%	84%
	Other National Journal	1%	3%	0%	6%	0%	1%	1%	88%

# Contents

- Objective and Background
- Method: Citation Analysis
- Data
- Result
- Arguments
- Concluding Remarks

# Argument 1

- The frequency of citing articles from national journals is much lower than that from international journals:
  - Does the result come from the difference in the size of publications?
  - Who are citing from national journals? The author himself?
  - Japanese researchers do not refer to works done in Japan?

Does the result come from the difference in the size of publications?

- Limitation: the parameter is unknown
- Titles appeared = National journals:  
International journals=6%:94%
- A+B+C+other National journals vs.  
D+E+F+other International journals=5%:95%
- Maybe: Only based on the assumption that all articles published are cited average 1 time

# Who are citing from national journals? The author himself?

- **Journal A**
  - Total references appeared: 15,445
  - Total titles cited: 256
    - 11 titles are National journal (4%)
  - Articles cited by journal A for more than once: 1,346
    - 100 articles from National journals (7%)
    - 597 articles by Japanese researchers (44%)
      - of 114 articles published from National journal (19%)
      - Of 85 articles from Journal A (75%)

Japanese researchers do not refer to works done in Japan?

- Paradoxical fact
  - Japanese researchers not citing the works published in Japan
  - Japanese researchers citing the works done in Japan

# Argument 2

- Based on the assumption that Japanese researchers are not using National journals, what is the role of National journals in Japan?



# What is the role of National journals in Japan?

- Roles in the past:
  - Dissemination of knowledge
  - Forum for the experts' discussion
  - Advancing knowledge
- &
- Dissemination of Japan's scholarly achievements to the world
- Claiming for appropriate acknowledgements

# What is the role of National journals in Japan? Why do we publish in English?

- Roles now: Japanese researchers publishing more in International journals?
  - Educating the young researchers?
    - Help them learn how to write in English?
    - Getting rid of the students?
  - Societies' status?

## To conclude...

- Although further study is required to reinforce the statement, the use of National journals is very low even among Japanese researchers
- National journal today do not play the same role as in the past

# Prospects

- What about National journals published in national language?
- Qualitative studies needed to gain more insights

Thank you very much  
*Merci beaucoup*

A decorative graphic consisting of a solid teal horizontal bar that spans the width of the slide. Below this bar, on the right side, are three thin, parallel white horizontal lines that extend to the right edge of the slide.