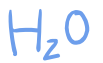
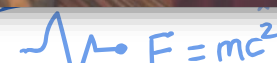
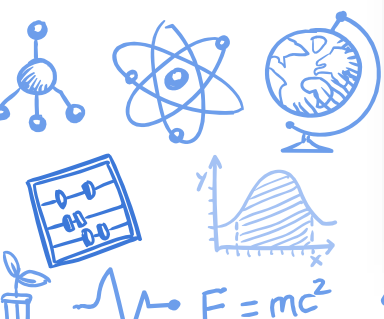


Research Quality Development of the Thailand National Science and Technology Development Agency (NSTDA)

Ansucha Prucksunand Supattra Laorrattanasak **Ms. Sudarat Luepongpatana** Prasit Palittapongarnpim

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National Science and Technology Development Agency: (NSTDA) in Thailand Ministry of Higher Education, Science, Research, and Innovation

Established: in 1991

Employees: 2,952 as of 1 March 2019)

69.18%: Researcher

23.20% Operation

7.62% Management

Budget : USD113M from the Government + 20% from contracts, services and licenses

Missions : To drive Thailand science, technology and innovation by

- research, development, design and engineering
- technology transfer
- human resource development
- Infrastructure development
- efficient internal management



4 National Research Centers

BIOTEC
a member of NSTDA

NECTEC
a member of NSTDA

MTEC
a member of NSTDA

NANOTEC
a member of NSTDA

Research and Development Quality Management (RQM)

Pre -Research

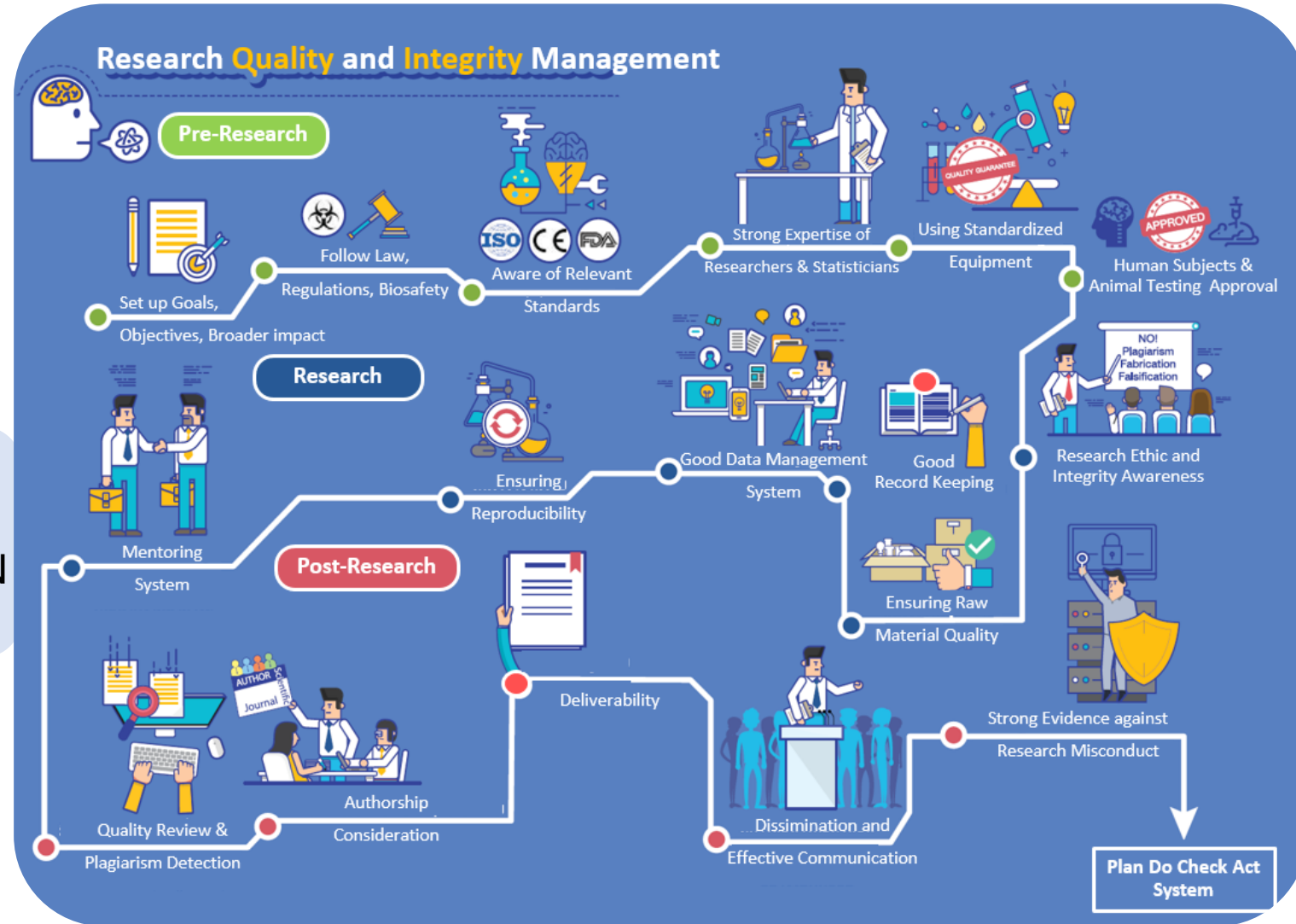
- Research Quality Policies
- Law and Regulation Information and Guidelines
- Proposal Clinic
- Responsible Conduct of Research (RCR)
- Advocacy and Training

Research

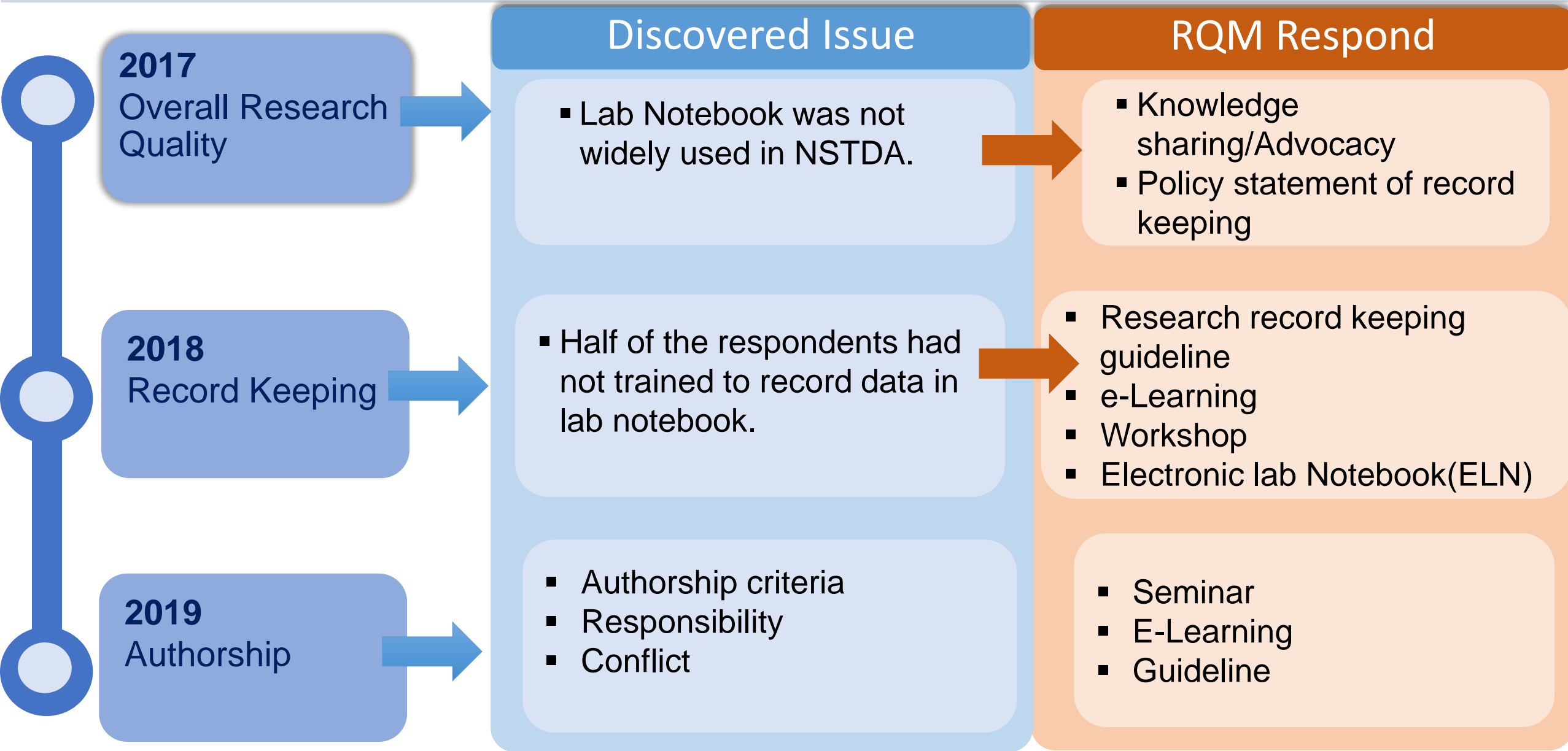
- Research Practice Training and Workshop
- Data Management
- Promoting Record Keeping e.g. Guideline, eLN
- Standard Procedure in Research Practice

Post -Research

- Manuscript Clinic
- Authorship/Inventorship Guideline
- Consult Regulator for Certification (Food and Drug Administration: FDA)



Research Quality Development of NSTDA



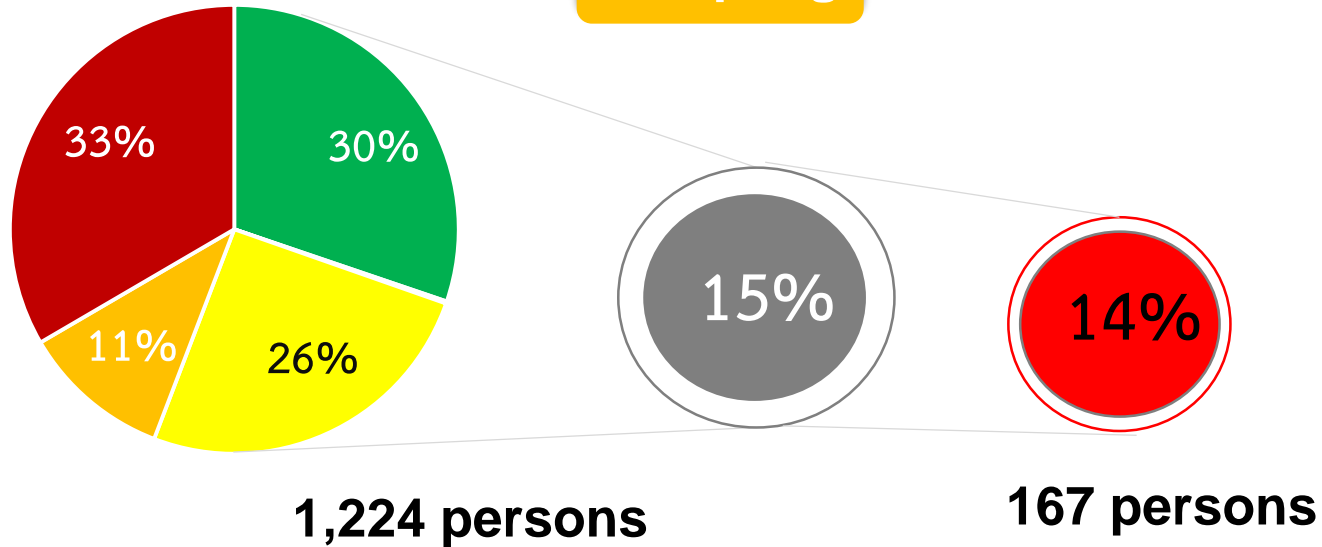
Objective

To identify NSTDA staff's understanding about authorship

To address the issue for research quality improvement.

Methodology –Conduct a survey

Sampling



Research staff
working experiences > 1 year
(Data as of 5 Feb 2019)

Interviewee 13.7%
personal interview
during 15 Feb -9 Apr 2019
(7 weeks)

Personal interview



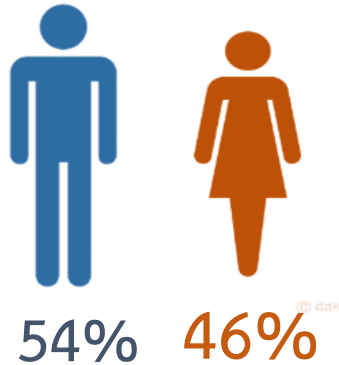
1 hour per person

Analysis

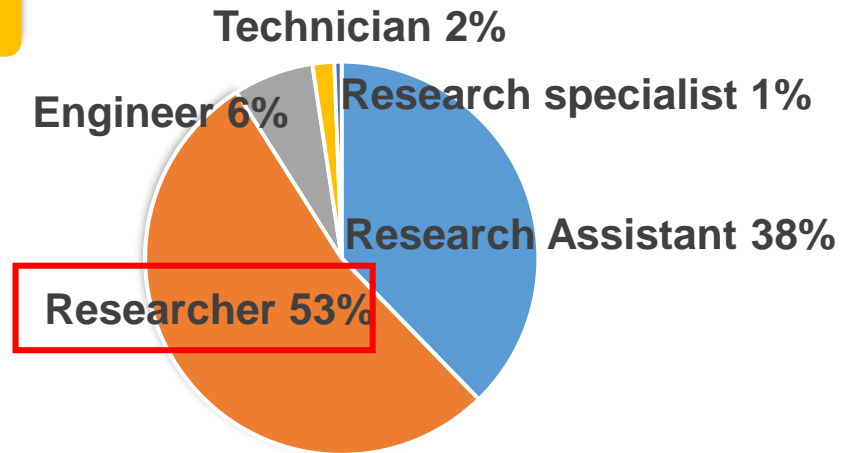


2019 Survey: Demographic data

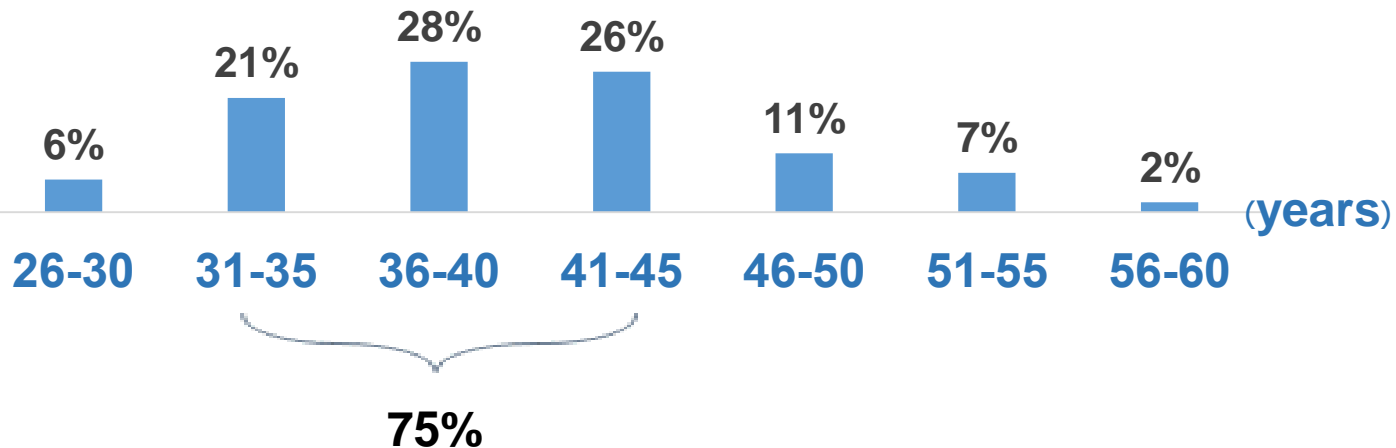
Gender



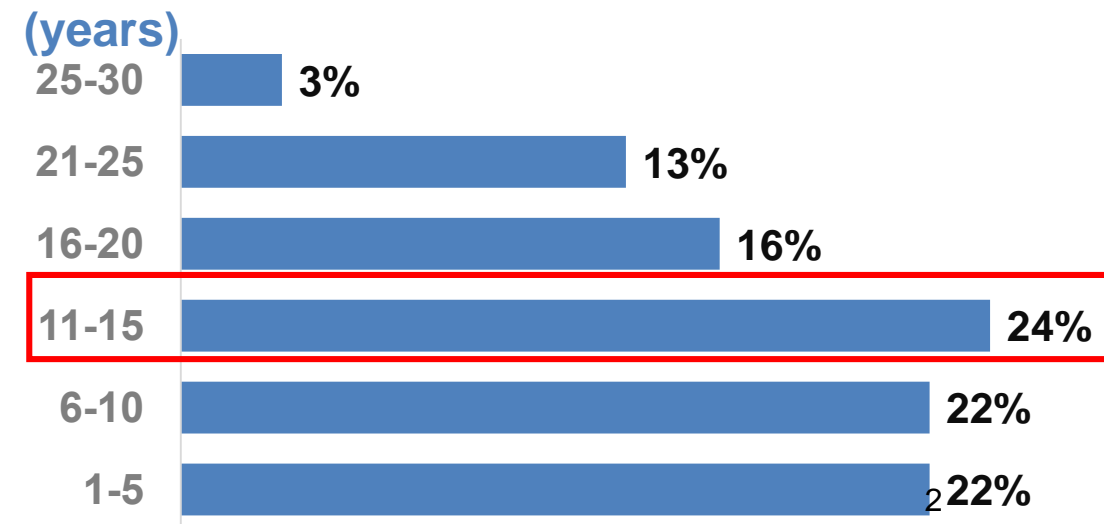
Position



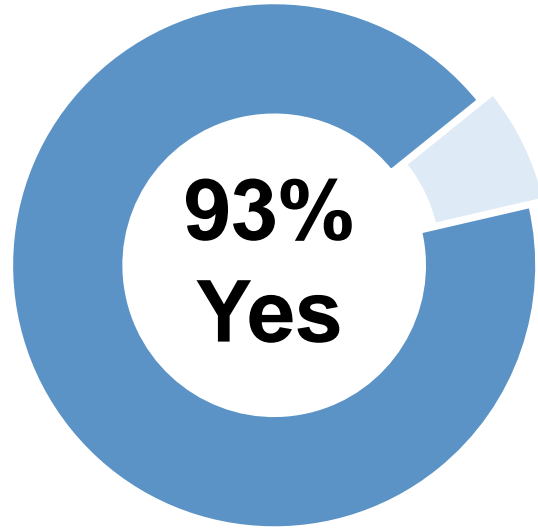
Age



Work Experience



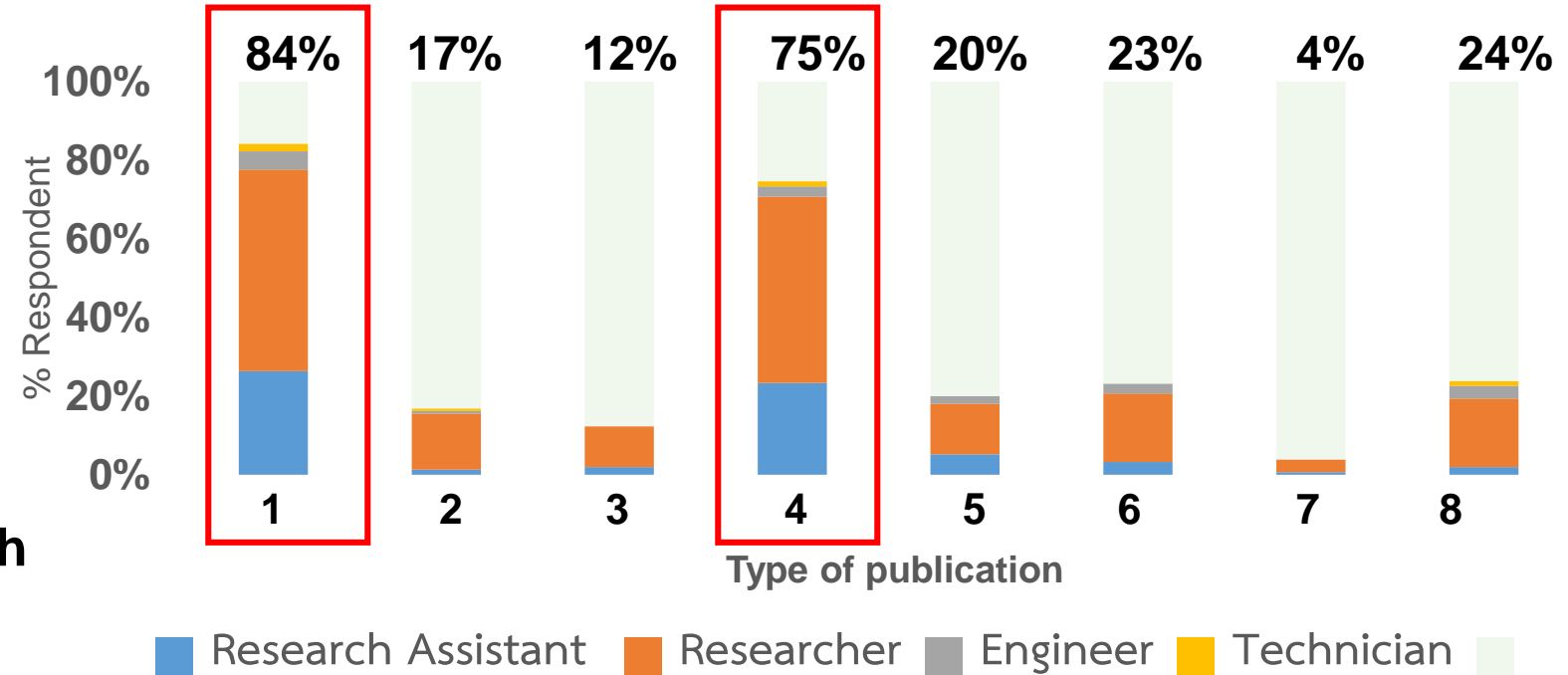
Authorship study



Have been an author in any research publication in the last years.

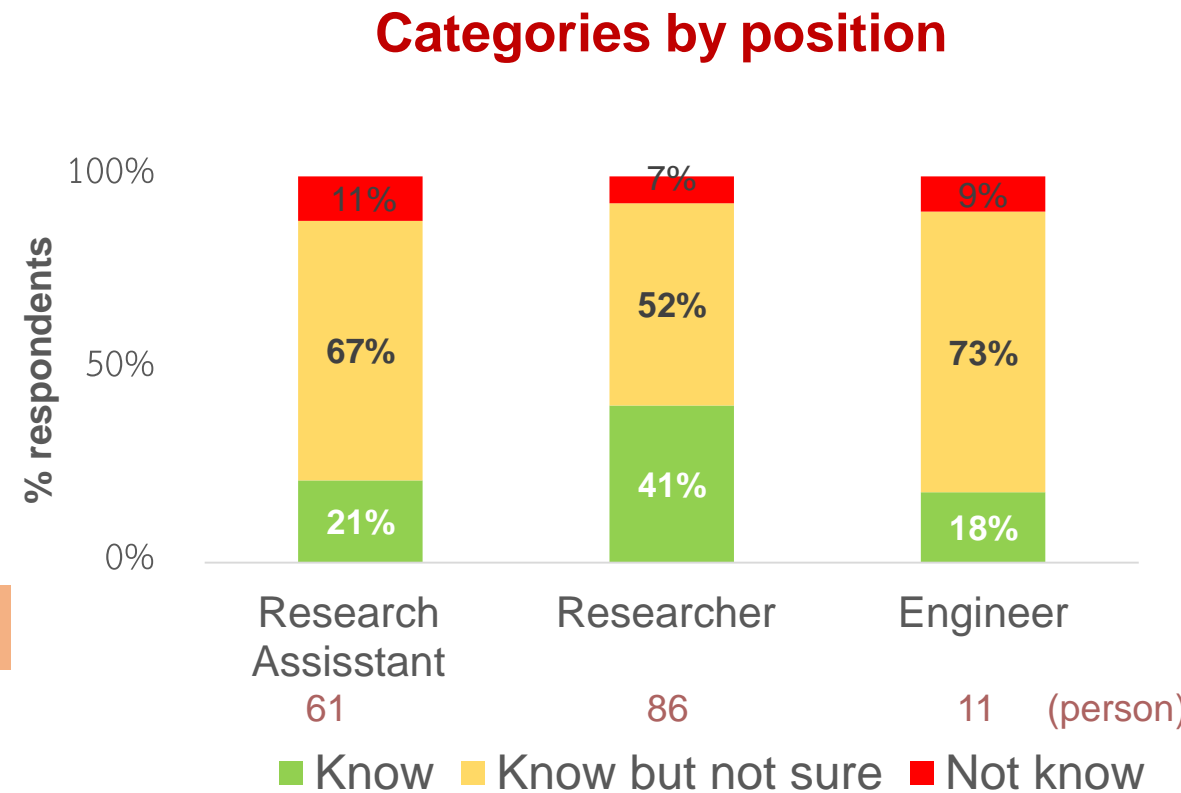
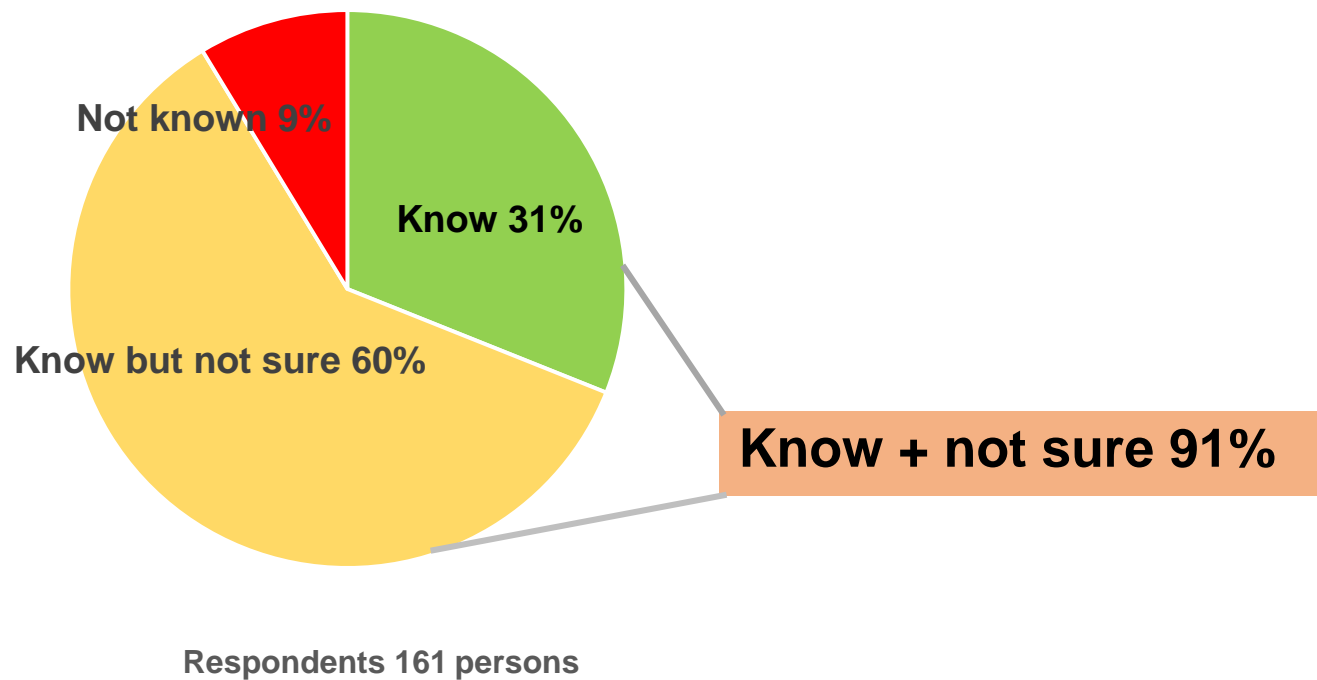


Type of publications



- | | | | |
|---|---|---|--|
| 1 | Research Article | 5 | Proceedings conference without peer review |
| 2 | Short Communication | 6 | Book / Monograph / manual |
| 3 | Scholar Review | 7 | Text book |
| 4 | Proceedings conference with peer review | 8 | Articles in publications, disseminate knowledge or create scientific awareness to the public |

Awareness of Authorship Criteria

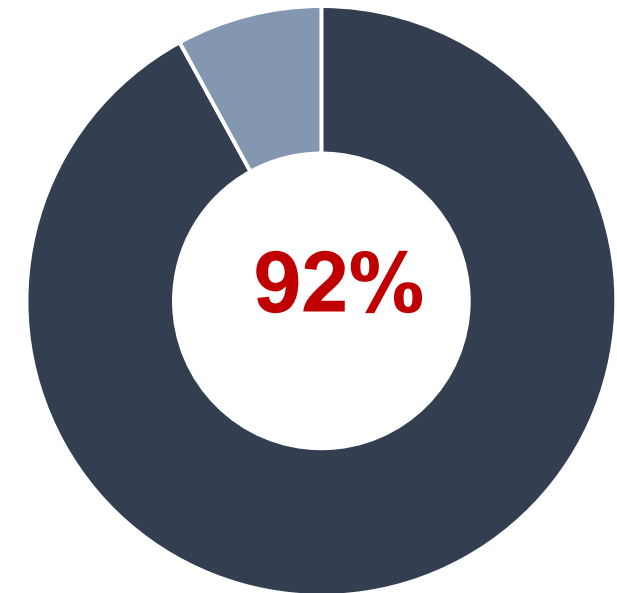


Authorship criteria according to ICMJE

(International Committee of Medical Journal Editors (ICMJE))

ICMJE Criteria

- Substantial contributions to the conception or design of the work; or the acquisition, analysis, or interpretation of data for the work
- Drafting the work or revising it critically for important intellectual content
- Final approval of the version to be published
- Agreement to be accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

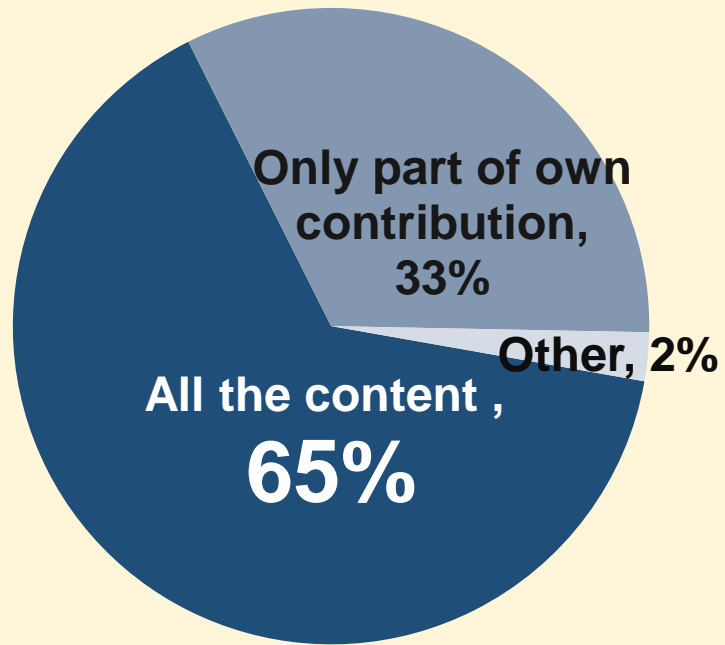


Agree to all the authorship criteria according to ICMJE

Respondents 162 persons

How much each author is responsible?

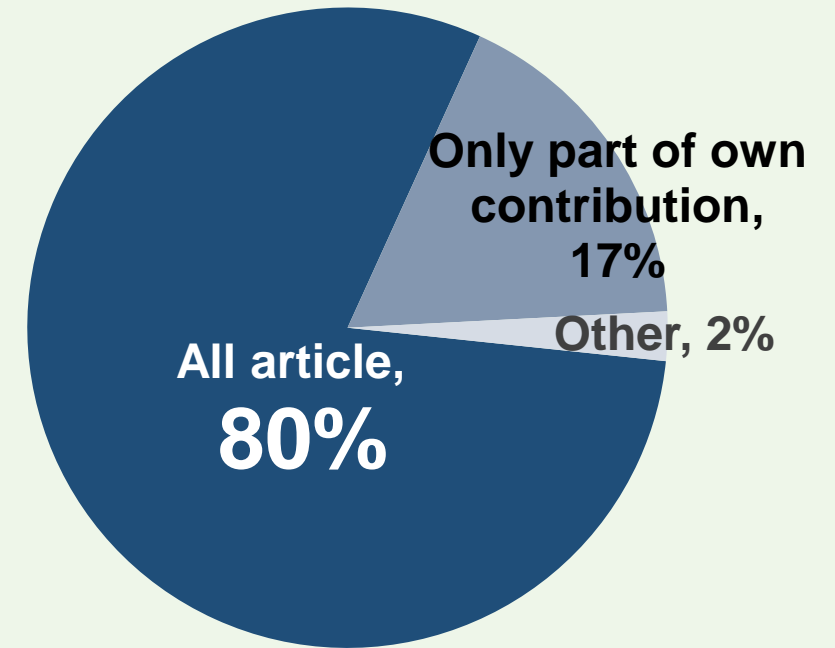
content in the article



Respondents 161 persons

33% still misunderstood about who should be responsible for the content in the article

integrity of the article

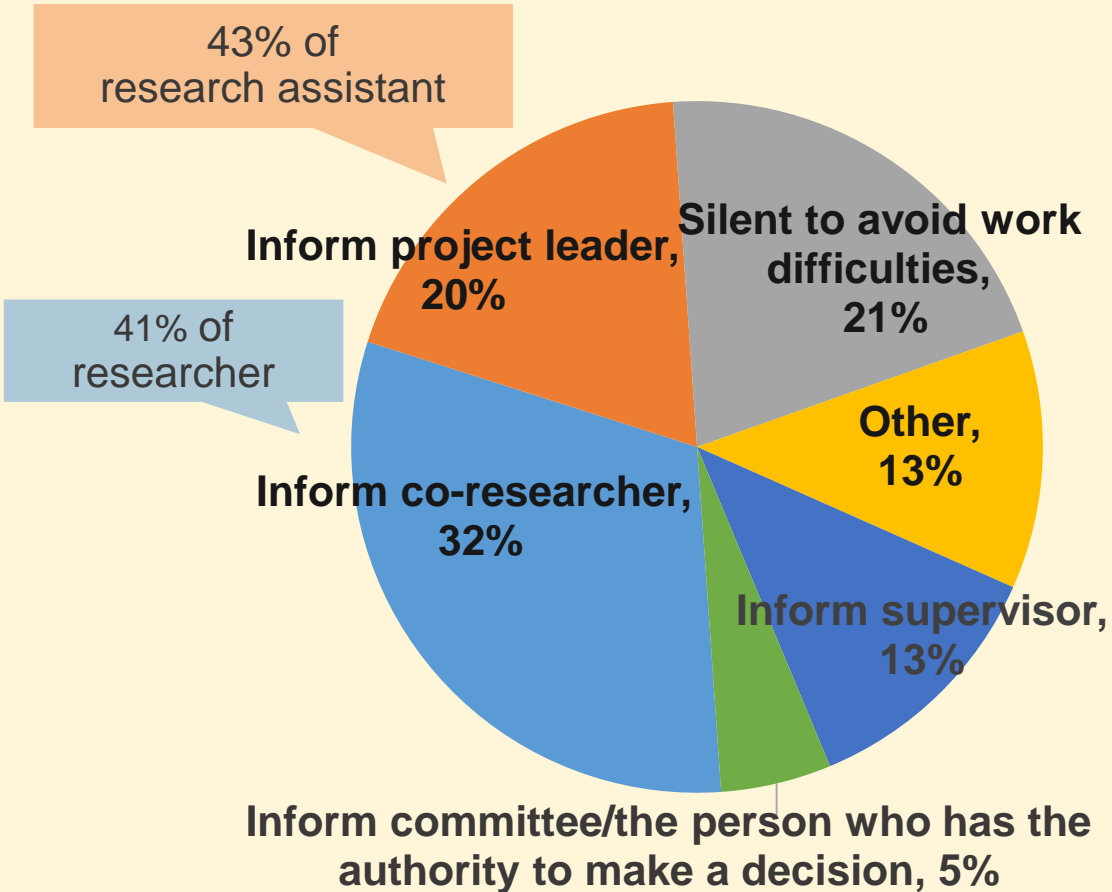


Respondents 161 persons

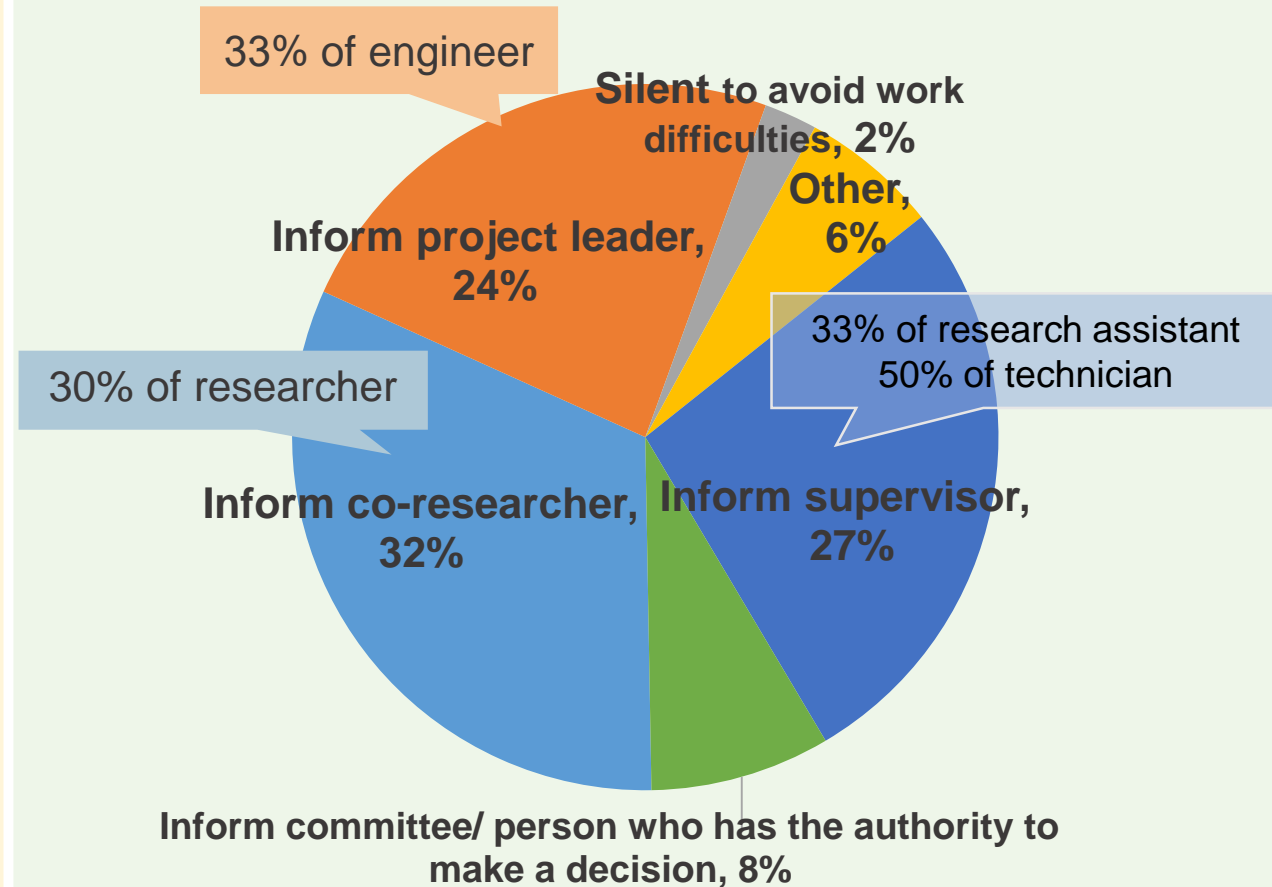
20% believed that they are not responsible for the integrity of the article.

How to handle conflict of authorship

27% had encountered experience a conflict



73% had never experience a conflict



Main issue form 2019 survey



- Significant number of research assistants (67%) and engineers (73%) were not sure about authorship criteria.
- 33% of respondents agreed that author should be responsible for content accuracy in only part of their own contribution. However, 80% agreed that author should be responsible for the integrity of the whole article.
- 92% of respondents agreed to the ICMJE criteria although they were not in the medical field.
- Majority of those who encountered a conflict of authorship informed their colleagues, project leaders, or supervisor.

Implementation

The results from the survey provide a guideline for research quality improvement.

- Organized seminars
- Provided e-Learning courses on authorship
- Offered authorship guideline



Workshops



e-Learning



guideline for authorship

Acknowledgements

Prof. Dr. Supapan Seraphin

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