

DST CENTRE FOR POLICY RESEARCH



INDIAN INSTITUTE OF SCIENCE



# Research Assessment: Barrier to Diamond Open Access

- Focus on journal based research assessment & consequences



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2nd Global Summit on Diamond Open Access  
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# Barriers

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- 01 Output-driven reserach assessment & university rankings
- 02 Research priorities influenced by publishing practices
- 03 Quality & visibility
- 04 Awarness

# Research Excellence in Universities

01

## National Institutional Ranking Framework (NIRF)

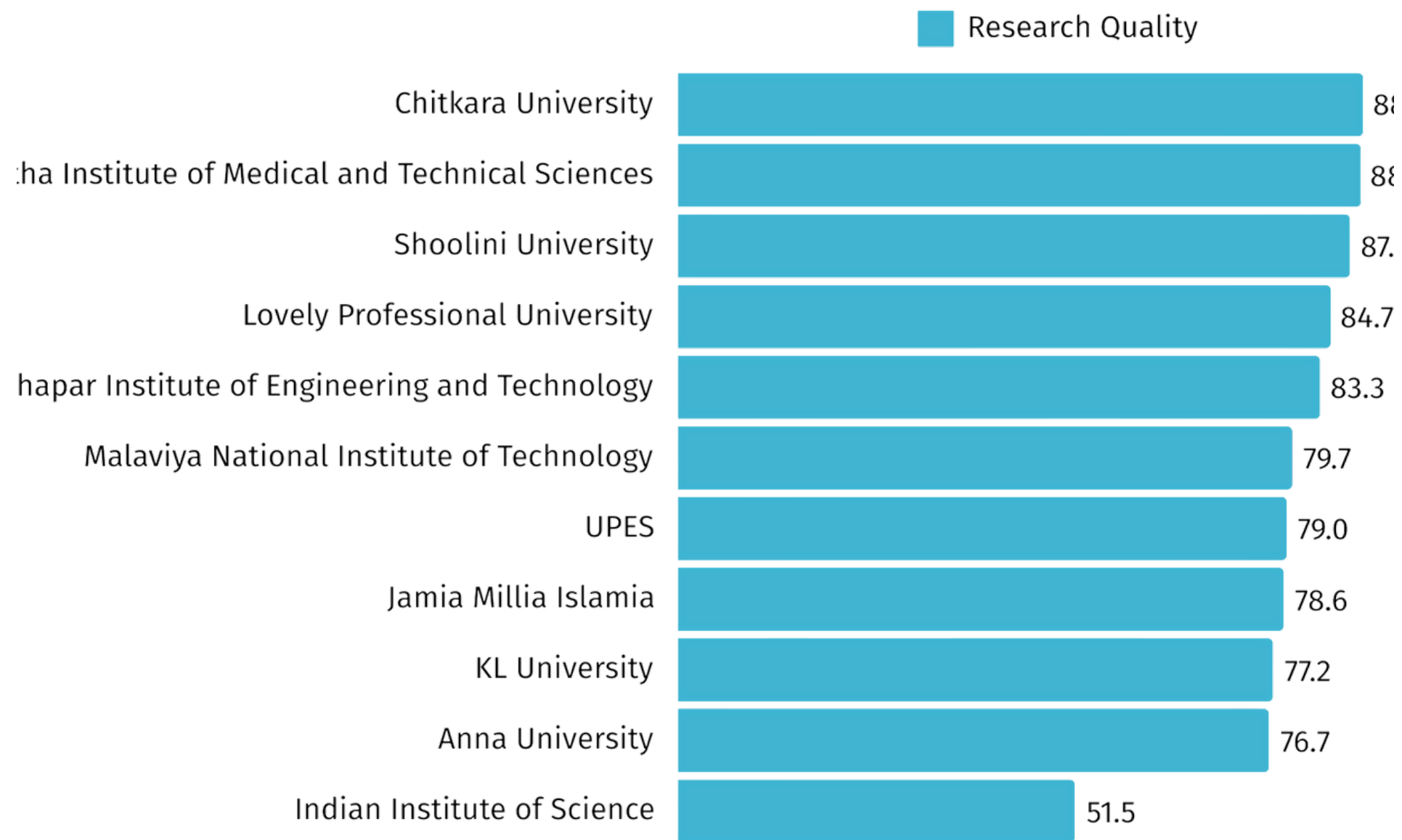
Research Quality and Quantity are assessed solely based on the number of publications in **Scopus & WOS indexed journals and citations**

02

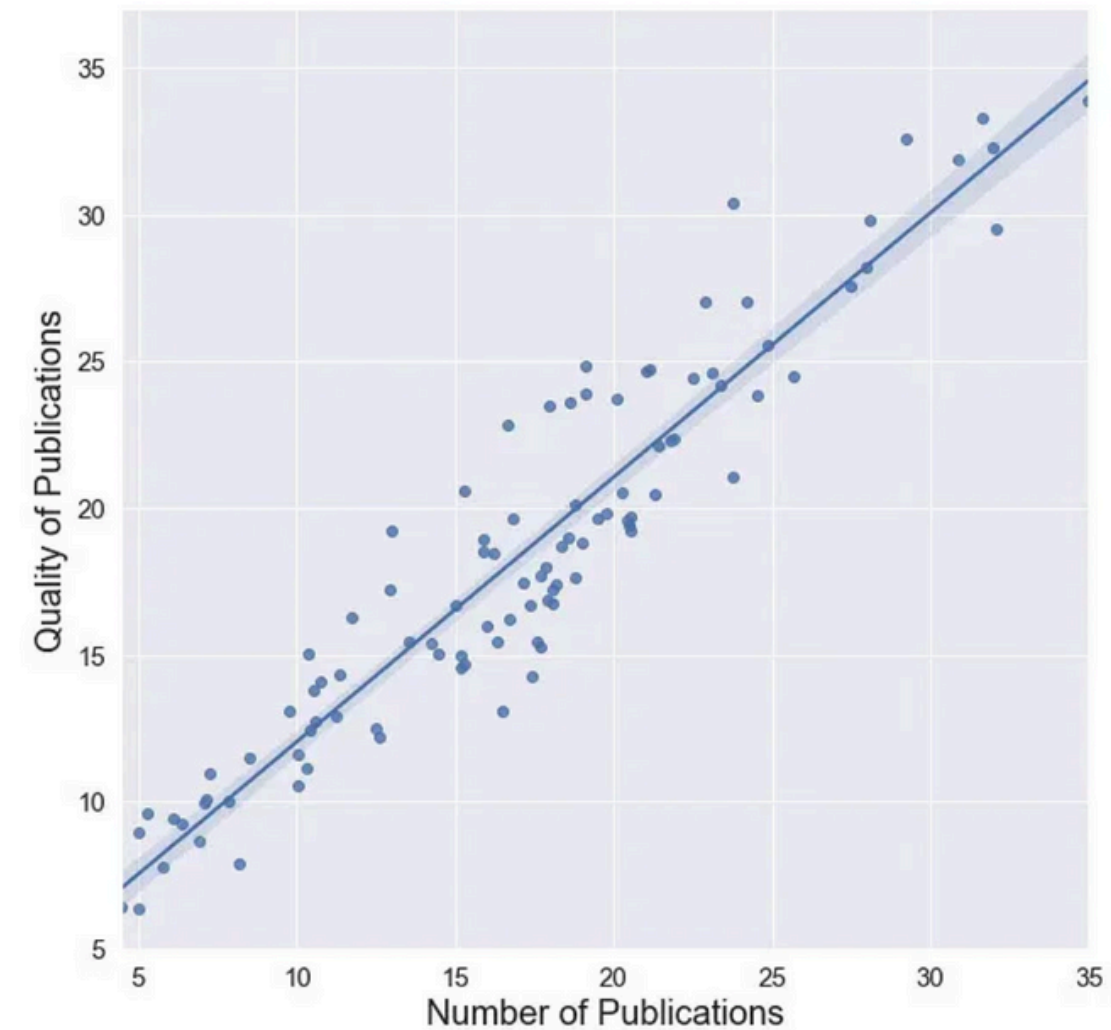
## Institutions of Eminence (IoE) Scheme

Securing a spot within the top 100 in global university rankings like Times Higher Education (THE)- THE ranking **research quality is again defined mainly based on publication counts and citations**, even self-citations are counted

# Misleading Ranking in Research Quality



## QUALITY AND NUMBER OF PUBLICATIONS (21%)



Rankings of Indian HEIs in THE (left chart) and quality and quantity parameter correlation in NIRF (right)  
(Source: India Research Watchdog, Analysis of THE Research Quality Rankings & NIRF rankings)

# Research Assessment: Project Funding & Research Career

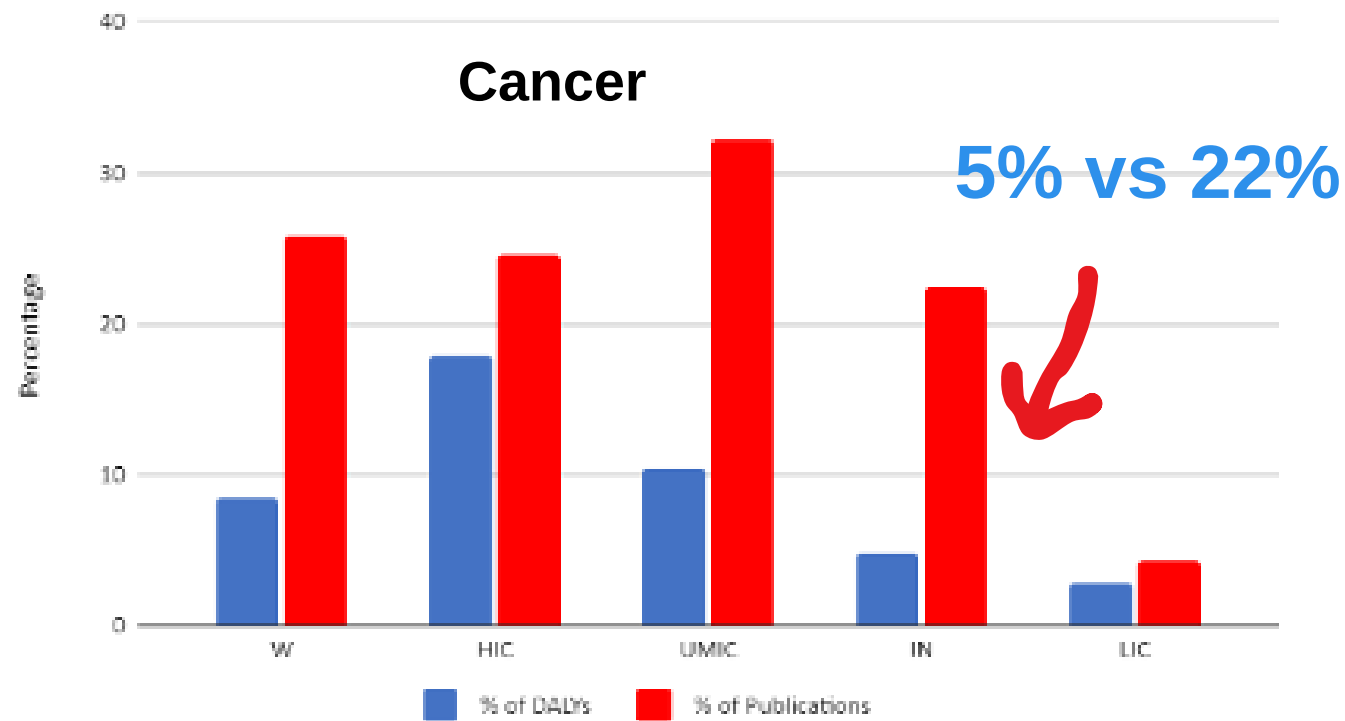
## 01 Project Funding

Extramular research funding by national funding agencies: quantitative metrics in initial screening & peer review in final

## 02 Research Career

Recruitment & promotions are dominated by quantitative indicators in most public and private institutions

# Need vs Actual research



Relative disease burden (estimated by % of DALYs) vs. research efforts (estimated by % of publications) for cancer for the World (W), High-Income Countries (HIC), Upper Middle-Income Countries (UMIC), India (IN), and Lower Income Countries (LIC)

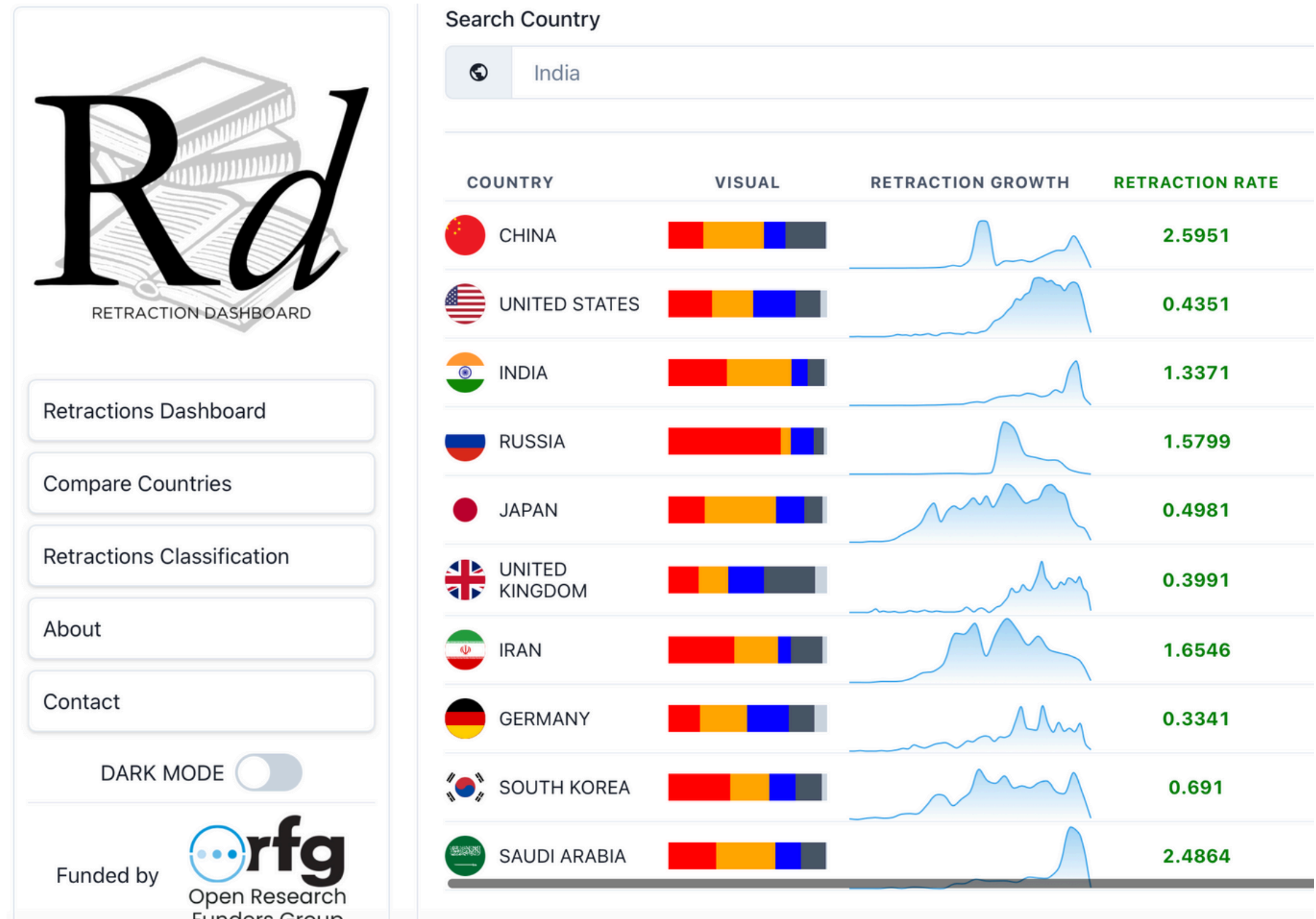
lowest correlation

DB/Pubs	IN	World	HIC	UMIC	LIC	BR	CN
IN	<b>0.28</b>	<b>0.30</b>	<b>0.30</b>	<b>0.28</b>	<b>0.13</b>	<b>0.24</b>	<b>0.23</b>
World	<b>0.34</b>	<b>0.45</b>	<b>0.44</b>	<b>0.41</b>	<b>0.32</b>	<b>0.34</b>	<b>0.34</b>
HIC	<b>0.34</b>	<b>0.60</b>	<b>0.60</b>	<b>0.59</b>	<b>-0.01</b>	<b>0.39</b>	<b>0.57</b>
UMIC	<b>0.38</b>	<b>0.57</b>	<b>0.57</b>	<b>0.54</b>	<b>0.24</b>	<b>0.42</b>	<b>0.47</b>
LIC	<b>0.21</b>	<b>0.18</b>	<b>0.18</b>	<b>0.13</b>	<b>0.40</b>	<b>0.18</b>	<b>0.07</b>
BR	<b>0.36</b>	<b>0.55</b>	<b>0.56</b>	<b>0.51</b>	<b>0.08</b>	<b>0.41</b>	<b>0.45</b>
CN	<b>0.22</b>	<b>0.47</b>	<b>0.46</b>	<b>0.49</b>	<b>-0.02</b>	<b>0.27</b>	<b>0.52</b>

Correlations between disease burden and publications

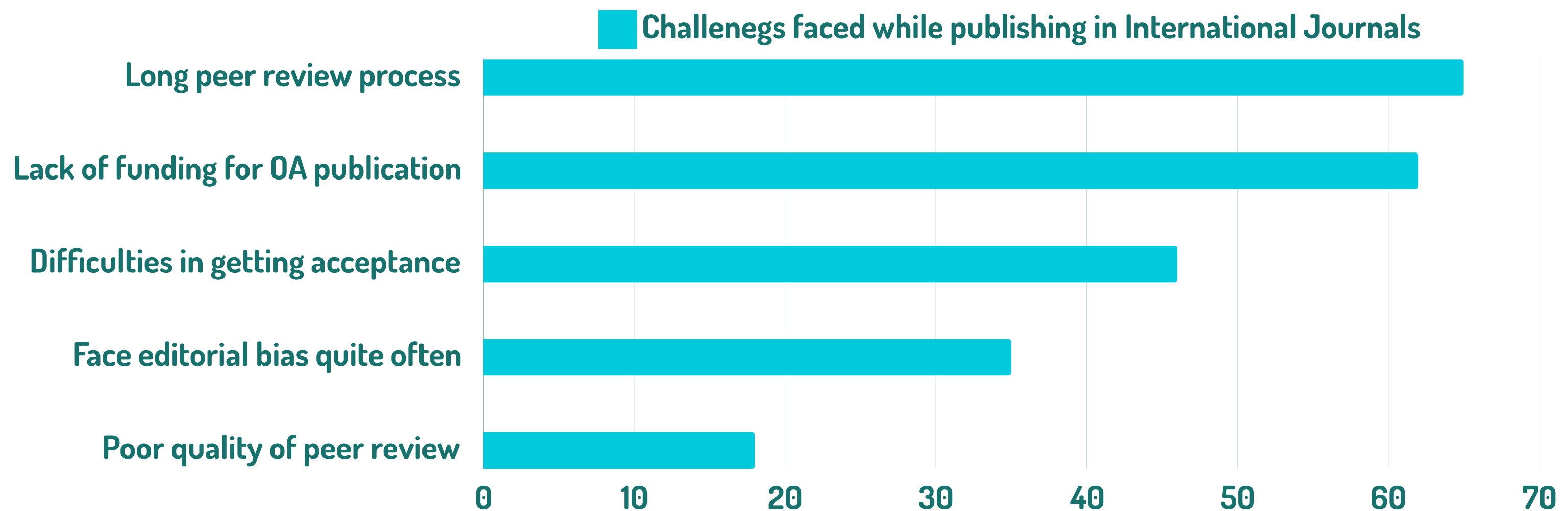
# Publish or Perish: Research Misconduct

Negative consequences of current practices: High APC, misconduct and opportunity for Diamond OA journals



# Challenegs with Journal Publications

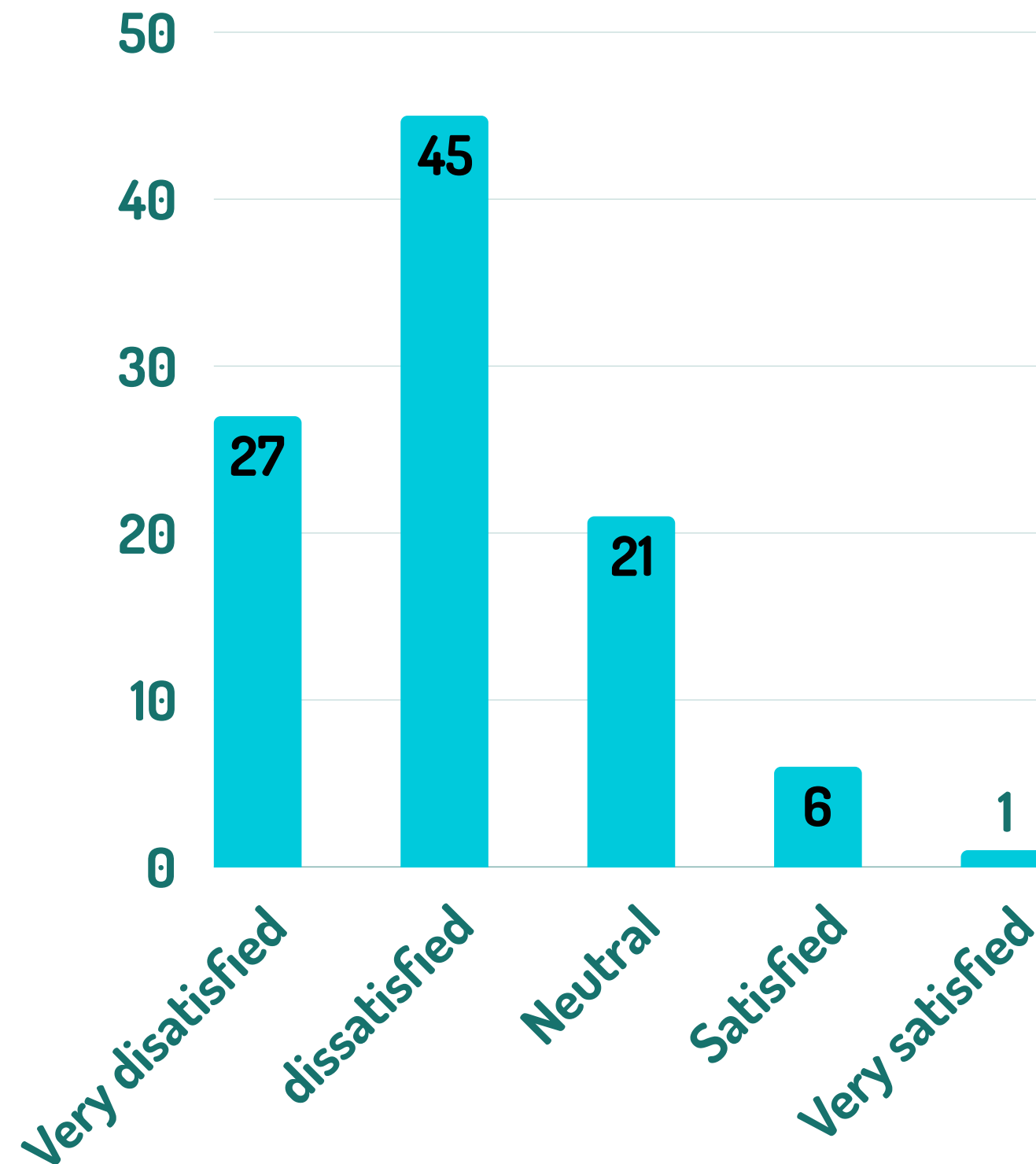
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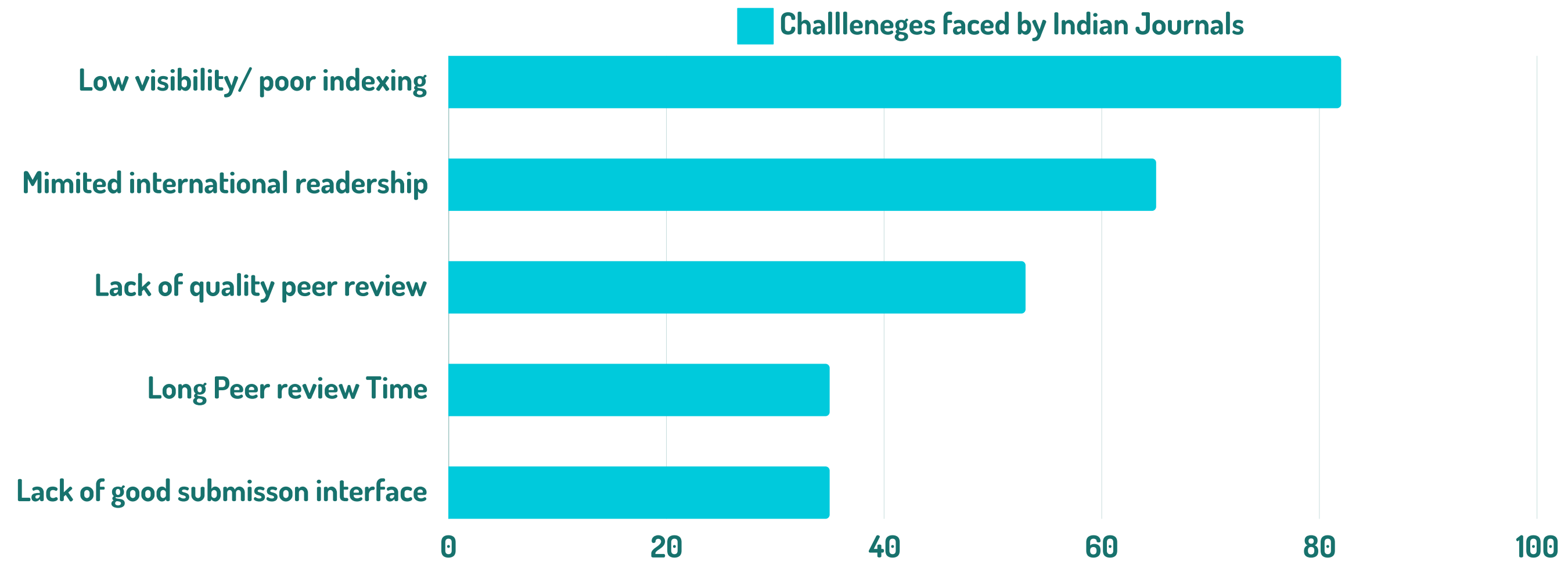
# Challenegs with Journal Publications

Satisfaction level with Indian journals



# Challenegs with Journal Publications

During 2024 OA week, we launced a survey to understand few questions regarding publishing



# What Can be Done?

Reimagine scientific publishing & science  
communication!



# THANK YOU

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