

## Ambiguity in pathology reporting: Our intent versus their interpretation!

Ambiguity is the quality of being open to more than one interpretation. We, pathologists, use ambiguous terms such as “suspicious for, indefinite for, cannot rule out, consistent with, compatible with, in keeping with, raises the possibility of, suggestive of, favors” to express varying degrees of certainty in our diagnosis. The embracement of such terminologies is a common practice and could be attributed to a lack of absolute diagnostic certainty or owing to ritualistic caution to avoid liability risk. Studies from the US showed that ambiguous terminologies were used in 35% of their reports<sup>1</sup> and 17.7% of the pathologists reported using it more than often ( $\geq 50\%$ )<sup>2</sup>. In the Nepalese context, where access to immunohistochemistry is limited and the sense of superspecialization is just emerging, this percentage can be expected to be higher.

We optimistically assume that clinicians perceive these terminologies as analogous to what we want to convey. However, discordance is observed between the pathologist’s intent and the clinician’s interpretation.<sup>1,3,4</sup> In a survey, “favors” was assigned median diagnostic certainty of 35.3% by pathologists and 60.3% by clinicians, and the difference was statistically significant.<sup>2</sup> Existence of inter-observer variability even between pathologists adds to the concern.<sup>1</sup> For instance, the probability associated with the term “in keeping with” ranged from 25 to 100% among pathologists.<sup>4</sup> This inconsistency stems from the unavailability of standard guidelines on phraseology in pathology reporting.

Nakao et al recommend the usage of numerical rather than verbal descriptions of certainty.<sup>5</sup> Assigning an exact number to words feels controversial as it may provide a false sense of confidence in scenarios where the level of certainty is uncertain. A “standardized scheme for reporting certainty in pathology reports” was introduced by Amin et al. The ambiguous terms were assigned numerical certainty levels with accompanying recommendations including whether or not a definite treatment should be offered.<sup>2</sup>

We need to be aware of the possible implications related to ambiguous reporting on patient management. Adopting a culture of peer reviewing can boost our diagnostic certainty and limit linguistic ambiguity in reporting. Direct communication with our clinical colleagues can bring about homogeneity in our understanding of ambiguous terminologies. Development of regional guidelines defining commonly used ambiguous terms, their range of diagnostic certainty, and recommendations to clinicians can prevent us and our reports from being misunderstood.

Let our reports be clear and comprehensible. Let us not resonate, in the matter of Pathology reporting, with Italian film director Bernardo Bertolucci who quoted “I left the ending ambiguous because that is the way life is”.

### Correspondence:

Dr. Palzum Sherpa  
Associate editor, Journal of Pathology of Nepal  
ORCID ID: 0000-0001-7613-8485  
Email: palzumsherpa@pahs.edu.np

### References:

1. Lindley SW, Gillies EM, Hassell LA. Communicating diagnostic uncertainty in surgical pathology reports: disparities between sender and receiver. *Pathol Res Pract.* 2014;210:628-33. DOI: <https://doi.org/10.1016/j.prp.2014.04.006>
2. Amin A, DeLellis RA, Fava JL. Modifying phrases in surgical pathology reports: introduction of Standardized Scheme of Reporting Certainty in Pathology Reports (SSRC-Path). *Virchows Arch.* 2021;479:1021-9. DOI: <https://doi.org/10.1007/s00428-021-03155-w>
3. Attanoos RL, Bull AD, Douglas-Jones AG, Fligelstone LJ, Semararo D. Phraseology in pathology reports. A comparative study of interpretation among pathologists and surgeons. *J Clin Pathol.* 1996;49:79-81. DOI: <https://doi.org/10.1136/jcp.49.1.79>



# Editorial

4. Galloway M, Taiyeb T. The interpretation of phrases used to describe uncertainty in pathology reports, *Pathol. Res Int.* 2011. DOI: <https://doi.org/10.4061/2011/656079>
5. Nakao MA, Axelrod S. Numbers are better than words: Verbal specifications of frequency have no place in medicine. *Am J Med.* 1983;74:1061-5. DOI: [https://doi.org/10.1016/0002-9343\(83\)90819-7](https://doi.org/10.1016/0002-9343(83)90819-7)