

Response to reviewer's comments

Comments	Authors' response	Changes effected	Page numbers
Reviewer 1			
1.It is recommended that when introducing OSSN, including invasive squamous cell carcinoma (SCC) and non-invasive conjunctival intraepithelial neoplasia (CIN), a clearer distinction can be made between these two types, making it easier for readers to understand the differences between them.	The distinction has been made in the text as well as in tabular form	Paragraph on definition of OSSN, Table 1	6, 40
2.It is recommended to provide simple explanations or definitions for professional terms in the text, such as "epitheiloma", "connective intraepitheilial neoplasia (CIN)", etc.	Table of definitions added	Table 1	40
3.It is recommended to provide more specific data or statistical information to increase persuasiveness when mentioning the prevalence of OSSN among the elderly.	Paragraph providing data and statistical information on epidemiology of OSSN added as recommended	Included in paragraph on OSSN	6
4.It is recommended to arrange in logical order. Firstly, introduce the initial diagnostic method of OSSN, followed by the introduction and development of histopathology, and finally introduce recent improvements in staining methods to make it easier for readers to follow.	Rearranged as recommended We have also introduced another recent improvement - Novel Autofluorescence Multispectral Imaging Technique (AFMI)	The whole section has been rearranged Paragraph on AFMI added	7-9
5.It is recommended that the ISH mentioned can distinguish reactive dysplasia from true dysplasia and provide an explanation of the advantages and	Added as recommended	The whole section has been rewritten to include subheadings:	9-13

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disadvantages of other techniques.		initial methods of diagnosis, invasive methods of diagnosis and then non-invasive methods providing explanations on motivations for modifications made and specific ways to overcome the limitations of each of them	
6.It is recommended to provide additional explanations on the motivations for the modifications made to traditional technologies in 1994, as well as specific ways to overcome the limitations of old technologies.	Added as recommended		
7.It is recommended to provide more detailed examples of the unique features of IVCN in diagnosing OSSN.	Added as recommended	Paragraph on IVCN expanded	11-12
8.It is recommended to compare UHR-OCT and HR-SD OCT techniques, and explain the basis for choosing which technique to use in different clinical situations.	Techniques have been compared as recommended providing indications for use of UHR-OCT as recommended	Paragraphs on OCT rewritten and new paragraphs added Role of OCT Angiography also mentioned with indications and limitations	13-14
9.It is recommended to provide more specific examples and application areas when describing the advantages of deep learning and transfer learning.	Added as recommended	Lines added to emphasize the current specific examples and application areas as relevant to diagnosis of neoplasms	15-16
10.The article mainly focuses on the perspectives of technology and healthcare providers, and it is recommended to add discussions on how these	Added as recommended	Paragraph on Patient Experience and Satisfaction added	24

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<p>technological advancements directly affect patient experience, satisfaction, and treatment outcomes.</p>		<p>Effect of AI on treatment outcome explained using example</p>	
<p>11.The article mentions improving the training effectiveness of deep learning models by using larger and more comprehensive datasets. It is recommended to provide a description of the specific technical challenges currently faced and detailed solutions on how to overcome these challenges.</p>	<p>Added as recommended</p>	<p>Included in the section on Limitations and Challenges</p>	<p>25</p>
<p>12.It is recommended to supplement information on data security and patient privacy protection when using deep learning technology to process medical images and personal health data.</p>	<p>Added as recommended</p>	<p>Included in the section on Limitations and Challenges</p>	<p>25</p>