

Dear Reviewers and editors,

Thank you for your valuable comments regarding our manuscript, titled 'Imaging features of retinal hemangioblastoma: case report and literature review', which we submitted to World Journal of Clinical Cases. We appreciate the reviewers taking the time to evaluate our manuscript, and providing helpful comments to strengthen it.

We are pleased to enclose an updated version of our manuscript, which we have revised after taking into careful consideration all the comments of the reviewers. All revisions to the manuscript have been made using the revision tool in Microsoft Word. Below, we enclose point-by-point responses to all the comments of the reviewers. Please note that we have also made some minor grammatical improvements to the manuscript (these are also shown using the revision tool).

We very much hope that our manuscript will now be considered suitable for publication and look forward to contributing to World Journal of Clinical Cases.

Yours sincerely,

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Reviewer #1:

Scientific Quality: Grade C (Good)

Language Quality: Grade B (Minor language polishing)

Conclusion: Minor revision

Specific Comments to Authors: The authors have described the imaging features of retinal hemangioma from a perspective of radiologist. Retinal hemangiomas can usually be observed directly and diagnosed by eye fundus examination. I suggest that this is included in the introduction, since this is the main reason why radiologists do not often perform diagnostics of retinal hemangiomas. Physical examination needs an improvement in english ophtahlmological terminology. Few examples: What is meant by "naked eye"? Perhaps: visual acuity without correction? "External eyes of both eyes"? Probably: periocular? The term "hematocele in the anterior chamber" is not correct, it should be "hyphema"

Q1:The authors have described the imaging features of retinal hemangioma from a perspective of radiologist. Retinal hemangiomas can usually be observed directly and diagnosed by eye fundus examination. I suggest that this is included in the introduction, since this is the main reason why radiologists do not often perform diagnostics of retinal hemangiomas.

Response: Many thanks for the reviewer’s affirmation and comments. We have added it to the manuscript in introduction section according to your guildness as follows: “ Its diagnosis is mainly based on clinical suspicion and confirmation by molecular testing and imaging techniques[2-4]. Moreover, retinal hemangiomas can be usually observed directly and diagnosed by eye fundus examination, which may be the main reason why radiologists infrequently perform RCH diagnosis. We retrospectively analyzed the relevant literature and found that the imaging features of RCH are rarely reported[1-11].”

Q2:Physical examination needs an improvement in english ophtahlmological terminology. Few examples: What is meant by "naked eye"? Perhaps: visual acuity without correction? "External eyes of both eyes"? Probably: periocular? The term "hematocele in the anterior chamber" is not correct, it should be "hyphema"

Response: Many thanks for the reviewer's affirmation and comments. We have modified it as follows:" Ophthalmological examination showed that visio oculus dexter (VOD) was 0.8 and Visus Oculi Sinistri (VOS) was sensitive to light (mainly contains distorted light that is located above and below the nose). Noncontact tonometer (NCT) showed that $R/L = 16.3/Tn + 3$ mmHg. There was no hyperemia of right bulbar conjunctiva. The cornea was clear and the depth of anterior chamber was satisfactory. Pupils were round in shape and reactive to light while light was mixed in the lens of right eye, optic disc boundary was clear and flat, while omentum was located in the fundus, mixed congestion in the conjunctiva of left eye and corneal edema were also noted. There was mild swelling in one-third of the anterior chamber, pupil was round in shape and not reactive to light and it was not extending to posterior chamber of eye, while the other details were unclear. "

Reviewer #2:

Scientific Quality: Grade B (Very good)

Language Quality: Grade B (Minor language polishing)

Conclusion: Major revision

Specific Comments to Authors: 1 Title. Appropriate 2 Abstract. Appropriate 3 Key Words. Keywords should be different from the title. 4 Background. Appropriate 5 Methods. Appropriate 6 Results. Appropriate 7 Discussion. Differential diagnosis of retinal hemangioblastoma should be added. Key features to differentiate from other masses must be emphasized. 8 Illustrations and tables. The figure descriptions are careless, should be rewritten. MRI images were presented in a confusing manner. They should begin with T2 WI, after that precontrast T1WI, after that enhanced images

should be presented. Are there any DWI, if present it should be given. 9 Biostatistics. N/A 10 Units. Appropriate 11 References. Appropriate 12 Quality of manuscript organization and presentation. Average, can be upgraded. 13 Research methods and reporting. Appropriate 14 Ethics statements. No information was given, were patient's consent taken?

Response: Many thanks for the reviewer's affirmation and comments.

Q1: Keywords should be different from the title.

Response: Many thanks for the reviewer's guildness. We have made modifications on keywords as follows:"**Keywords:** Ultrasound; Computed tomography; Magnetic Resonance Imaging; Positron emission tomography/computed tomography; Case report".

Q2: Discussion. Differential diagnosis of retinal hemangioblastoma should be added. Key features to differentiate from other masses must be emphasized.

Response: Many thanks for the reviewer's guildness. We have added relevant differential diagnoses to the discussion section as follows:"According to the location and imaging characteristics of the lesion, hemangioblastomas also need to be differentiated from the following diseases. Choroidal melanoma: It is the most common ocular malignancy in adults, wherein CT shows a localized well-defined mass isodense to the extraocular muscles, generally without calcification. MRI shows hyperintense signal on T1-weighted images and hypointense signal on T2-weighted images, which is the characteristic feature, because the tumor contains paramagnetic melanin material. It also shows mild to moderate enhancement after contrast enhancement. PET metabolism indicated that glucose uptake was often increased in choroidal melanoma, and its SUVmax was >10[18-19]. Therefore it is not difficult to differentiate from this case of retinal hemangioblastoma. Choroidal hemangioma: CT shows local thickening of eyeball wall. It shows progressive significant enhancement after contrast enhancement. MRI shows higher signal than vitreous on T1-weighted images and lower than vitreous on T2-weighted images, but isointense signal compared with optic nerve and extraocular muscles on T2-weighted images, 90% of patients have concomitant mild retinal detachment. It shows progressive significant enhancement after contrast enhancement. PET metabolism suggests that choroidal hemangioma usually has no change in glucose uptake[20-21]. Therefore, enhanced dynamic

delayed scanning is of great significance in the diagnosis and differentiation of choroidal hemangioma. Retinoblastoma: It occurs in children within 5 years of age and presents with localized thickening or heterogeneous mass shadows of the eye ring on CT, more than 90% of which are mixed with dot-like calcifications. Typical MRI imaging features of retinoblastoma include a slightly higher signal on T1-weighted images and low signal on T2-weighted images, with contrast enhancement and diffusion restriction. PET metabolism mostly shows a slight increase in glucose uptake in retinoblastoma[22-23]. Thus, it is not difficult to differentiate from this case.”

Q3: Illustrations and tables. The figure descriptions are careless, should be rewritten. MRI images were presented in a confusing manner. They should begin with T2 WI, after that precontrast T1WI, after that enhanced images should be presented. Are there any DWI, if present it should be given.

Response: Many thanks for the reviewer’s guildness. We have modified figure descriptions as follows:

Figure 1. Ultrasound images of left retinal hemangioblastoma. A: Ultrasound showed an irregular isoechoic mass of about 6.3×7.4 mm in front of the left optic nerve head. B: Color Doppler flow imaging (CDFI) showed abundant blood flow signals in the lesion.

Figure 2. Computed Tomography (CT) and Magnetic Resonance Imaging (MRI) of left retinal hemangioblastoma. A: CT transverse soft tissue window of orbit showed punctate calcification on the posterior wall of the left eye ring and small patchy soft tissue density in the posterior part of the eyeball. The lesion measured about 5 mm × 8 mm, with an ill-defined border. B: CT transverse bone window of orbital showed no obvious abnormal change of orbital bone. C: The lesion was hypointense on transaxial T2-weighted sequence. D-E: The lesion was slightly hyperintense on transaxial T1-weighted images (D) and transaxial T1-weighted + fat-suppression images (E). F-H: Left posterior para-bulbar lesions were significantly enhanced on gadolinium-enhanced T1-weighted + fat-suppression images [mainly included transverse (F), coronal (G), and sagittal sequences (H)] (White arrows represent lesion

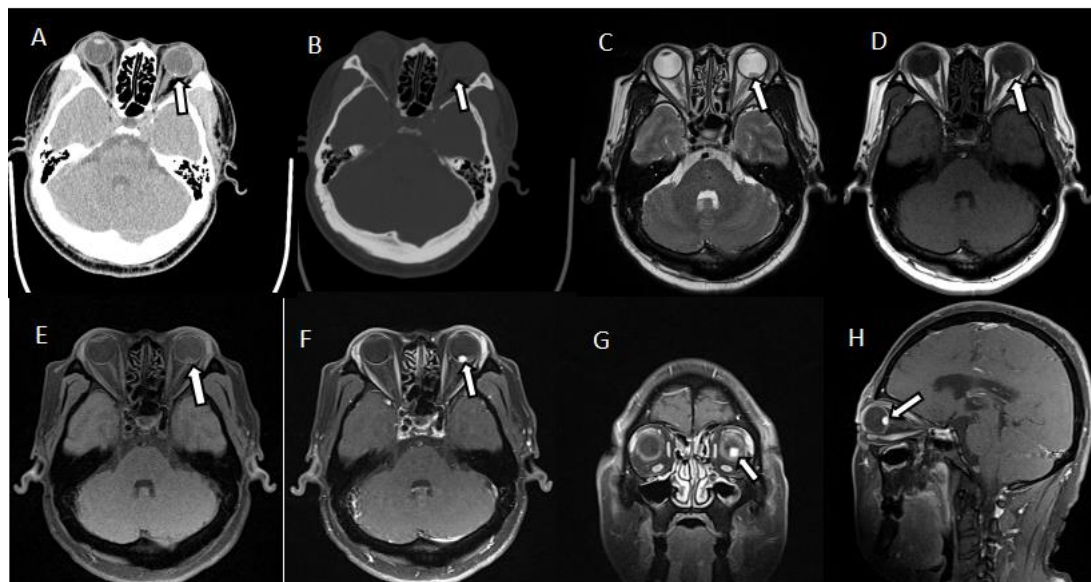
Figure 3. Transaxial CT image, transaxial and coronal positron emission tomography (PET) metabolograms, color fusion map of positron emission tomography/computed tomography

(PET/CT) images at the orbital level. The transaxial CT image at the orbital level showed a patchy slightly hyperdense lesion. The transaxial PET metabologram, coronal PET metabologram and PET/CT color fusion map at the orbital level showed no metabolic changes, and its SUVmax was 50.9.

Figure 4. Postoperative histopathological and immunohistological images of left retinal

hemangioblastoma. A-D: The left eyeball lesions were mainly composed of two components, capillaries and interstitial cells surrounded by vacuolated or eosinophilic cytoplasm, which showed epithelioid stromal cells and staghorn dilated thin-walled vessels in capillaries.

We also revised the MRI images as follows, but the MRI enhanced scans of routine orbital in our hospital do not contain DWI sequences.



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Q4: Ethics statements. No information was given, were patient's consent taken?

Response: Many thanks for the reviewer's reminder. we obtained the patient 's consent. The patient signed a written informed consent form before the examination. This retrospective study involving human participants was reviewed and approved by Medical Ethics Committee of Hangzhou First People' s Hospital, Zhejiang University School of Medicine (No. 2022-007-01).

[illegible]

五、替代治疗: (概述除了本研究的治疗方法, 临床上还有其他的常见治疗方法, 需包含以下内容。

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1. 不参加本研究, 继续您的常规治疗。常规治疗方式有以下几种: (常规治疗方式的具体描述)

2. 参加別の研究

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七、赔偿：（若有保险，可在此节提及，若无保险则需写明，若发生与研究相关的损害时，研究者将如何赔偿受试者。）

于特殊补偿。

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十、受试者义务：作为研究受试者，您有以下义务：如未提供有关自身病史和目前身体状态的真实情况，告知研究医生自己在本次研究期间所出现的任何不适；不得服用受限制的药品、食物等（需详细列出限制的药品和食物名称）；告知研究医生自己在服药是否曾参与其他研究，或目前正参与其他研究。

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知情同意书模版

(括号内斜体字部分需根据课题不同情况自行填写)

项目名称: 眼眶病变影像学新技术研究

实验的受试者:

我们邀请您参加浙江大学医学院附属杭州市第一人民医院医院批准开展的《眼周变形影像学新技术）研究。本研究将在（浙江大学医学院附属杭州市第一人民医院）开展，预计将有（120）名受试者自愿参

本須知將提供给您一些信息以帮助您决定是否参加此项临床研究，您是否参加本项研究完全是自愿的，且您的决定将不会影响您在医院的正常诊疗权益和待遇。若您选择参加本研究，我们研究团队将在研究过程中尽力保证您的安全和权益！

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—— 日本帝国主义侵华档案资料选编—— 国外研究进展 (一) —— 要求简要、通俗易懂。

眼眶病变是临床常见、多发病,如何应用影像学新技术对眼眶患者术前精确定位和诊断非常有价值。

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(1) 在依托单位浙江大学医学院附属杭州市第一人民医院采集 20 例健康志愿者 3D-T1-MPRAGE 序列、DTI 扫描的数据收集。我们对正常志愿者前白质、白质纤维束进行旋切分析。

(2) 在依托单位浙江大学医学院附属杭州市第一人民医院收集较大样本量(120人)的跟班

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Hangzhou First People's Hospital

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我将收到一份签字的“知情同意书”副本。

受试者姓名：王有利
受试者签名：王有利
日期：2022年2月28日

我已准确地将这份文件告知受试者，他/她理解并同意了这份知情同意书，并有机会提出疑问。

研究者姓名：丁忠祥
研究者签名：丁忠祥
日期：2022年2月28日

(注：如果受试者无法签字则需要见证人签名，如果受试者无行为能力则需要监护人签名)