REVIEW

10823 New insights into the interplay between intestinal flora and bile acids in inflammatory bowel disease
Zheng L

10840 Role of visfatin in obesity-induced insulin resistance
Abdalla MMI

MINIREVIEWS

10852 Hyperthermic intraperitoneal chemotherapy and colorectal cancer: From physiology to surgery

10862 New-onset diabetes secondary to acute pancreatitis: An update
Yu XQ, Zhu Q

10867 Ketosis-prone diabetes mellitus: A phenotype that hospitalists need to understand
Boike S, Mir M, Rauf I, Jama AB, Sumesara S, Mushqaq H, Khedr A, Nitesh J, Surani S, Khan SA

10873 2022 Monkeypox outbreak: Why is it a public health emergency of international concern? What can we do to control it?
Ren SY, Li J, Guo RD

ORIGINAL ARTICLE

Retrospective Cohort Study

10882 Clinical characteristics and prognosis of non-small cell lung cancer patients with liver metastasis: A population-based study

Retrospective Study

10896 Prevalence and risk factors for Candida esophagitis among human immunodeficiency virus-negative individuals
Chen YH, Jao TM, Shiu YL, Feng LJ, Hsu PI

10906 Prognostic impact of number of examined lymph nodes on survival of patients with appendiceal neuroendocrine tumors
Du R, Xiao JW

Observational Study

10921 Clinical and epidemiological features of ulcerative colitis patients in Sardinia, Italy: Results from a multicenter study
<table>
<thead>
<tr>
<th>Article Number</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>10931</td>
<td>Clinical observation of laparoscopic cholecystectomy combined with endoscopic retrograde cholangiopancreatography or common bile duct lithotripsy</td>
<td>Niu H, Liu F, Tian YB</td>
</tr>
<tr>
<td>10939</td>
<td>Patient reported outcome measures in anterior cruciate ligament rupture and reconstruction: The significance of outcome score prediction</td>
<td>Al-Dadah O, Shepstone L, Donell ST</td>
</tr>
<tr>
<td>10956</td>
<td>Body mass index and outcomes of patients with cardiogenic shock: A systematic review and meta-analysis</td>
<td>Tao WX, Qian GY, Li HD, Su F, Wang Z</td>
</tr>
<tr>
<td>10967</td>
<td>Impact of being underweight on peri-operative and post-operative outcomes of total knee or hip arthroplasty: A meta-analysis</td>
<td>Ma YP, Shen Q</td>
</tr>
<tr>
<td>10974</td>
<td>Branched-chain amino acids supplementation has beneficial effects on the progression of liver cirrhosis: A meta-analysis</td>
<td>Du JY, Shu L, Zhou YT, Zhang L</td>
</tr>
<tr>
<td>10997</td>
<td>Wells’ syndrome possibly caused by hematologic malignancy, influenza vaccination or ibrutinib: A case report</td>
<td>Šajn M, Luzar B, Zver S</td>
</tr>
<tr>
<td>11004</td>
<td>Giant cutaneous squamous cell carcinoma of the popliteal fossa skin: A case report</td>
<td>Wang K, Li Z, Chao SW, Wu XW</td>
</tr>
<tr>
<td>11010</td>
<td>Right time to detect urine iodine during papillary thyroid carcinoma diagnosis and treatment: A case report</td>
<td>Zhang SC, Yan CJ, Li YF, Cui T, Shen MP, Zhang JX</td>
</tr>
<tr>
<td>11031</td>
<td>Neonatal Cri du chat syndrome with atypical facial appearance: A case report</td>
<td>Bai MM, Li W, Meng L, Sang YF, Cui YJ, Feng HY, Zong ZT, Zhang HB</td>
</tr>
<tr>
<td>11037</td>
<td>Complete colonic duplication presenting as hip fistula in an adult with pelvic malformation: A case report</td>
<td>Cai X, Bi JT, Zheng ZX, Liu YQ</td>
</tr>
<tr>
<td>Page</td>
<td>Title</td>
<td>Authors</td>
</tr>
<tr>
<td>------</td>
<td>-------------------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>11044</td>
<td>Autoimmune encephalitis with posterior reversible encephalopathy syndrome: A case report</td>
<td>Dai SJ, Yu QJ, Zhu XY, Shang QZ, Qu JB, Ai QL</td>
</tr>
<tr>
<td>11059</td>
<td>Different intraoperative decisions for undiagnosed paraganglioma: Two case reports</td>
<td>Kang D, Kim BE, Hong M, Kim J, Jeong S, Lee S</td>
</tr>
<tr>
<td>11074</td>
<td>Bone marrow metastatic neuroendocrine carcinoma with unknown primary site: A case report and review of the literature</td>
<td>Shi XB, Dong WX, Jin FX</td>
</tr>
<tr>
<td>11101</td>
<td>Severe Klebsiella pneumoniae pneumonia complicated by acute intra-abdominal multiple arterial thrombosis and bacterial embolism: A case report</td>
<td>Bao XL, Tang N, Wang YZ</td>
</tr>
<tr>
<td>11111</td>
<td>Spontaneous bilateral femur neck fracture secondary to grand mal seizure: A case report</td>
<td>Senocak E</td>
</tr>
<tr>
<td>11116</td>
<td>Favorable response after radiation therapy for intraductal papillary mucinous neoplasms manifesting as acute recurrent pancreatitis: A case report</td>
<td>Harigai A, Kume K, Takahashi N, Omata S, Umezawa R, Jingu K, Masamune A</td>
</tr>
<tr>
<td>11139</td>
<td>Perirectal epidermoid cyst in a patient with sacrococcygeal scoliosis and anal sinus: A case report</td>
<td>Ji ZX, Yan S, Gao XC, Lin LF, Li Q, Yao Q, Wang D</td>
</tr>
</tbody>
</table>
Thrice Monthly Volume 10 Number 30 October 26, 2022

**Contents**

11146  
**Synchronous gastric cancer complicated with chronic myeloid leukemia (multiple primary cancers): A case report**  
Zhao YX, Yang Z, Ma LB, Dang JY, Wang HY  

11155  
**Giant struma ovarii with pseudo-Meigs' syndrome and raised cancer antigen-125 levels: A case report**  
Liu Y, Tang GY, Liu L, Sun HM, Zhu HY  

11162  
**Longest survival with primary intracranial malignant melanoma: A case report and literature review**  
Wong TF, Chen YS, Zhang XH, Hu WM, Zhang XS, Lv YC, Huang DC, Deng ML, Chen ZP  

11172  
**Spontaneous remission of hepatic myelopathy in a patient with alcoholic cirrhosis: A case report**  
Chang CY, Liu C, Duan FF, Zhai H, Song SS, Yang S  

11178  
**Cauda equina syndrome caused by the application of DuraSeal™ in a microlaminectomy surgery: A case report**  
Yeh KL, Wu SH, Fuh CS, Huang YH, Chen CS, Wu SS  

11185  
**Bioceramics utilization for the repair of internal resorption of the root: A case report**  
Riyahi AM  

11190  
**Fibrous hamartoma of infancy with bone destruction of the tibia: A case report**  
Qiao YJ, Yang WB, Chang YF, Zhang HQ, Yu XY, Zhou SH, Yang Y, Zhang LD  

11198  
**Accidental esophageal intubation via a large type C congenital tracheoesophageal fistula: A case report**  
Hwang SM, Kim MJ, Kim S, Kim S  

11204  
**Ventral hernia after high-intensity focused ultrasound ablation for uterine fibroids treatment: A case report**  
Park JW, Choi HY  

**LETTER TO THE EDITOR**

11210  
**C-Reactive protein role in assessing COVID-19 deceased geriatrics and survivors of severe and critical illness**  
Nori W
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Morphological and electrophysiological changes of retina after different light damage in three patients: Three case reports

Xi Zhang, Tao Luo, Yan-Rong Mou, Wei Jiang, Yan Wu, Heng Liu, Yi-Ming Ren, Pan Long, Fei Han

BACKGROUND
Light-induced retinal damage is a serious vision-threatening disease, resulting from unsuitable laser irradiation, high-power light and sustaining light exposure. Therefore, effectively evaluate the morphological and functional of retinal damage is urgently needed. Now, we mainly reported three patients suffered from typical light irradiations.

CASE SUMMARY
Patient 1 suffered from old laser pointer irradiation and followed with amblyopia treatment. Patient 2 suffered from acute high-energy light irradiation. Patient 3 suffered from sustaining optical fiber irradiation. Detailed morphological and functional examinations of the retina revealed that the lesions of the three patients had many similar characteristics, such as macular morphological changes, patent pattern visual monitoring amplitude or peak time abnormalities, multi-fucus electroretinograms macular central amplitude density decreased.

CONCLUSION
In conclusion, light-induced retinopathy has many common features, which can help clinical medical staff to diagnose retinal photodamage diseases.

Key Words: Light-induced retinopathy; Diagnosis; Morphology; Electrophysiology; Case report

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**Core Tip:** In this case report, we reported three typical cases of retinal damage caused by light-related irradiations. Through the summary of their common characteristics, we can deepen the understanding of retinal diseases caused by light irradiation, and provide theoretical basis for the prevention, clinical diagnosis and treatment of such diseases.


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**INTRODUCTION**

No matter in the living environment or working environment, people must be exposed to a variety of light sources. Prolonged and continuous exposure or accidental exposure to strong light often causes serious damage to the eyes, some of which are even irreversible[1,2]. Generally speaking, there are two aspects of light damage in the human eye, including the damage of the refractive system (cornea, lens, etc.) and the photosensitive system (retina). For example, some studies have found that the electric light generated in the welding process can directly lead to corneal epithelial necrosis, resulting in acute electro-ophthalmia[3]. Some researchers also found that the incidence of cataract increases significantly after long-term ultraviolet irradiation[4,5]. Moreover, long-term blue light irradiation can directly damage the macula through photochemical effect[6].

Remarkably, retinal damage is often the most common, but also relatively serious in the process of light damage to the eye[7]. Recent studies found the case of a 13-year-old boy looking at a green diode laser with an average output of 154 MW reflected in a mirror. Fundus examination and auxiliary examination showed fracture macular thermal damage[8]. In addition, Turaka et al[9] reported a case of macular photodamage and made a mini-review. In the article, the authors cited a report from the Food and Drug Association, which stated that handheld laser Pointers emitting > 5 mW of power carry the risk of irreversible eye damage and skin burns. Alsulaiman SM reported the natural history and treatment outcomes of full-thickness macular holes caused by transient exposure to high-power handheld blue laser devices and concluded that transient exposure to high-power handheld laser devices can result in full-thickness macular holes[10].

In this case reports, we reported three typical cases of retinal damage caused by light-related irradiation. Through the summary of their common characteristics, we may deepen the understanding of retinal diseases caused by various light irradiation, and provide theoretical basis for the prevention, clinical diagnosis and treatment of such diseases.

**CASE PRESENTATION**

**Chief complaints**

**Patient 1:** A 13-year-old female student who was in amblyopia treatment process for one year. However, her vision acuity didn’t benefit from the treatment and her parents asked us to perform total ophthalmological examination to make a decision whether to continue the amblyopia treatment or not.

**Patient 2:** A 22-year-old male soldier whose right eye was instantaneous irradiated by high energy flashlight one month ago. He didn’t pay close attention to it at that time. Then, his right eye vision decreased 5 d later without photophobia, tears, eye pain and other symptoms. No remission was found after self-administration of eye drops (unknown details). Therefore, he went to our hospital for further treatment.

**Patient 3:** A 33-year-old male communications engineer was in a history of physical fitness. Half a year ago, his left eye vision decreased without obvious photophobia, tears and eye pain. Although he found symptoms, he did not receive treatment. Recently, he went to our hospital and complained his vision decreased significantly.

**History of past illness**

**Patient 1:** There was a history of laser pointer exposure.

**Patient 2:** His right eye was instantaneous irradiated by high energy flashlight one month ago.
Zhang X et al. Characteristic of light-induced retinopathy

**Figure 1** Retinal morphologic examination. A: Fundoscopy revealed an irregular scar-like lesion in the macular of the right eye; B: Autofluorescence found a heterogeneous dark signal in the macular of the right eye; C: Fluorescein angiography revealed strong fluorescence leakage around the right eye macular; D: Optical coherence tomography (OCT) revealed a deficiency in the center of the fovea; E: OCT showed retinal pigment epithelium layer breakdown and macular thinning.

Patient 3: He had a long-term history of fiber-optic operation.

**Physical examination**

**Patient 1:** Then vision examination found the best corrected vision acuity (BCVA) was 1.0 in the right eye, and 0.4 in the left eye. In addition, the anterior segment was normal and the refractive medium was transparent in both eyes. Funduscopic and auto-fluorescence examination of left eye revealed a rough and uneven abnormality of macular (Figure 1A and B).

**Patient 2:** Specialist examination displayed that the patient’s BCVA was 0.3 in the right eye and 1.0 in the left eye. The anterior segment was normal and the refractive medium was transparent in both eyes.

**Patient 3:** Specialist examination found that the patient’s BCVA was 1.0 in the right eye and 0.6 in the left eye. The anterior segment was normal and the refractive medium was transparent in both eyes.
Figure 2 Electrophysiological examinations of retina. A: Patent pattern visual monitoring (PVEP) examination revealed that the amplitude of P100 of PVEP was reduced in the left eye (a1, a2 and a3 correspond to stimulation frequencies of 0.5 cpd, 1 cpd and 2 cpd, respectively); B: Multi-focus electroretinograms examination showed that the amplitude density of macular center was decreased in the left eye.

**Imaging examinations**

**Patient 1**: Angiography found a hyper-fluorescence feature and no fluorescent leakage at left eye macular (Figure 1C). Optical coherence tomography (OCT) showed that the macular had scar-like injury involving retinal pigment epithelium (Figure 1D and E). Meanwhile, the visual electrophysiological results indicated that the amplitude of P100 of pattern visual evoked potentials (PVEP) was reduced (Figure 2A), and full field electroretinogram (ffERG) was normal, and the amplitude density of multifocus electroretinograms (mfERG) macular center decreased (Figure 2B).

**Patient 2**: Funduscopic and auto-fluorescence examination of right eye revealed a black shape punctuation abnormality surrounded with a ringlike margin lesion (Figure 3A-D). Angiography (FFA + ICGA) found a macular hyper-fluorescence leakage around a black shape punctuation at right eye (Figure 3E and F). OCT showed that the macular cystoid edema was significant, retinal pigment epithelium (RPE) layer of centra macular site was broken and choroidal neovascularization (CNV) was
Figure 3 Retinal morphologic examinations. A-D: Funduscopic and auto-fluorescence examination revealed a black shape punctuation abnormality surrounded with a ringlike margin lesion in the right eye; E and F: Angiography (FFA + ICGA) found a macular hyper-fluorescence leakage around a black shape punctuation at right eye; G: Optical coherence tomography (OCT) revealed the macular fovea thickness increased; H: OCT showed the macular cystoid edema, retinal pigment epithelium layer breakdown and choroidal neovascularization in the right eye.

found in the right eye (Figure 3G and H). Meanwhile, the electrophysiological results showed that the amplitude of P100 of PVEP in right eye declined while the peak time was delayed (Figure 4A). FVEP and ffERG were normal, and the amplitude density of mfERG macular center was decreased (Figure 4B).

Patient 3: Funduscopic and auto-fluorescence examination of left eye revealed a blurred margin macular abnormality (Figure 5A and B). OCT discovered that the macular of left eye became more thinner, and the retinal pigment epithelium did not change significantly compared with right eye (Figure 5C). The visual electrophysiology indicated that the P100 amplitude of PVEP reduced in the left eye, while the function of ffERG cone cell system and the amplitude density of mfERG macular center decreased (Figure 6).

FINAL DIAGNOSIS

Patient 1
We made a diagnosis of old retinal injury induced by laser.

Patient 2
We made a diagnosis of acute retinal injury induced by strong-energy light irradiation.

Patient 3
We made a diagnosis of chronic retinal injury induced by sustaining light irradiation.

TREATMENT

Patient 1
We suggested to stop the treatment of amblyopia.

Patient 2
For patients with CNV, we made anti VEGF treatment, at present vision improved with right eye vision 0.5.

Patient 3
This patient need no further treatment and we suggest to make a safety goggles when working.
DISCUSSION

When retina is irradiated by light under normal physiological conditions, part of the photon energy is absorbed by the photoreceptor cells. Moreover, the rest of extra photons are absorbed by the retinal pigment epithelium or choroid to avoid heat accumulation\[11,12\]. However, due to the direct effect of light energy, photoreceptor cells and RPE are also the most vulnerable tissues when the light irradiates abnormally\[13\]. Moreover, animal study found müller glia cell activation paticipated in a laser-induced retinal degeneration and regeneration in zebrafish\[14\]. During COVID-19 pandemic, researchers found retinas damages could be related with Neuropilin-1\[15\]. At present, studies have indicated that various types of light stimulation, such as ultraviolet, blue light and laser could damage the retina through photochemical reaction, photothermal effect and photomechanical effect\[16-18\]. As its biological effects can be accumulated, retinal injury can be caused by multiple irradiations, which can display the characteristic that the boundary of the damage area is clear in the early stage and fuzzy in the later stage\[19\].

Figure 4 Electrophysiological examinations of retina. A: Patent pattern visual monitoring (PVEP) examination showed that the amplitude of P100 of PVEP declined while the peak time was delayed in the right eye; B: Multi-fucus electroretinograms examination showed that the amplitude density of macular center was decreased in the right eye.
Figure 5 Retinal morphologic examinations. A and B: Funduscopic and auto-fluorescence examination revealed a blurred margin macular abnormality of the left eye; C: Optical coherence tomography showed that the macular of left eye became thinner.
In the cases, we observed three typical patients suffering from light-induced retinopathy.

In the first case, this young female patient received amblyopia treatment for one year and didn’t improve vision acuity. When retina related morphological and functional examinations were applied, we realized that this could be old laser-induced retina damage. Then the patients bring to mind that she was exposed to laser pen irradiation when played with classmates. Her left eye was found obvious pigmented scar in the macular region, which may be related to the proliferation and repair of peripheral RPE\(^{20}\). Angiography revealed that there were obvious round fluorescent defects at the corresponding lesion area of retina, which may be due to laser induced occlusion of retinal and choroidal vessels in macula, and then fluorescence perfusion defect. OCT showed that the outer nuclear layer of macular area was destroyed, resulting in the corresponding retinal layer continuity was disrupted. Consistent with the morphological results, electrophysiological results showed that the function of macula was significantly impaired, and the peripheral retina was not significantly abnormal.

In the second case, the soldier’s right eye vision acuity decreased after being exposed to instantaneous strong LED light. Because the high-energy visible light in the LED lamp is mainly blue light, fundus color and AF showed there was disorder of pigment in RPE of macular. The electrophysiological results indicated that there was no obvious abnormality in the peripheral retina of right eye, but the retinal function in the macular area was significantly damaged and the conduction function of optic nerve may be also affected to some extent.

In the third case, the patient is a middle-aged man who has been engaged in optical fiber work for a long time, mainly exposed to ultraviolet and blue light. Due to improper daily protective measures, visual acuity was obviously injured. Fundus examination showed that the patient’s macular in retina became thinner, which may be caused by the shortening of outer segment of photoreceptor or the detachment and disappearance of photoreceptor under long-term light stimulation resulting in thinning of the outer nuclear layer. In addition, RPE also showed atrophy and thinning after light injury. Similar to the previous two patients, this patient’s electrophysiological examination indicated that there is significant impairment of macular function.

Through the three cases, it can be found that the above three patients have a clear history of light damage. No matter what kind of light source equipment they experience, the macular of patients presents different forms of pathological lesion, especially in the outer nuclear layer where photoreceptor and RPE are located. In our cases, we found that retinopathy caused by light damage has similar morphological and functional characteristics. Specifically, the morphological changes were mainly pathological changes related to retinal pigment epithelium and photoreceptor, and the physiological function changes were largely associated with the decline of macular function. In terms of electrophysiological function, visual electrophysiology could easily assess majority light-induced macular injuries, including old cumulative asymptomatic damages, acute symptomatic damages and chronic...
Zhang X et al. Characteristic of light-induced retinopathy

We identified children, military personnel and optical fiber communicators are likely to suffer from retinal damage caused by light. Commonly, children are often misdiagnosed as amblyopia. The degree of lesions is related to the energy and duration of light irradiation, and is often manifested as macular thinning, interruption of RPE continuity, CNV and other manifestations. The amplitude changes of PVEP are common in acute high-energy injuries, and ffERG usually is normal. For long-term low energy sustained injury, PVEP amplitude is decreased and ffERG cone system is decreased, too. No matter what kind of light damage, the amplitude density of mfERG in macular center is decreased.

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FOOTNOTES

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