

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

الملاحظات	اسم المشرف	أسماء الطلبة	ملخص البحث
م.م. امين جهاد	A Graduation Research Submitted to the Council of AL-Furat AL-Awsat University Technical Institute, Department of Optometry as	Heba Najah Abd AL Zahra Heba Haitham Abadi  Huda Ahmed Daif Huda Ali Kareem  Huda Aqeel Abd AL Zahra	Abstract:  Rapid progress in various fields of science and technology in recent years has caused various adverse and predictable negative effects on the environment. Today, one of the most important biological problems is

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

	Part of the Requirements for Obtaining a Diploma in Optometry		environmental electromagnetic pollution. The intensity of its electromagnetic radiation has become so widespread that it is currently known as one of the hidden and silent forms of pollution. One means of communication that is an inseparable part of daily life is the mobile phone. Research and surveys show that mobile phone
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>waves have a negative effect on the human body.</p> <p>Our goal in this article is to study the effects of mobile phone electromagnetic waves on the human eye. In order to check the effect of these waves, the specific absorption rate (SAR) criterion is used.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>Because the rate of specific absorption in the eye is determined according to the absorption of energy in the eye tissues and the conversion of this absorbed energy into thermal energy, they increase the temperature of the eye tissues. In other words, the temperature distribution in the eye directly</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>correlates with the rate of specific absorption. The results have shown that the tissue of the eye is susceptible. When the eye is exposed to waves, the eye's temperature increases, and the antenna angle relative to the eye is effective in the rate of specific absorption. According to studies, the conclusion of this research indicates that without</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			observing safety points, including maintaining distance, they can cause dangerous bodily complications.
د. مصطفى سالم	“Study The Effects of Diabetes Mellitus on the Refractive	-Faten Ali Khan -Eisa shahid Rahim -Ammar Saad Kadhim	Hyperglycemia causes transient refractive changes in diabetic patients. Type 2 diabetes mellitus usually begins after the age of 40. The refractive power of the eye depends on the

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

	Errors After (٤٠ years Old”	-Euhud Muhan Tarahil -Ghadir Baqir Raji	anterior and posterior corneal and lens surface curvatures, the corneal thickness, the anterior chamber depth, lens thickness, and the axial length of the eye as well as the refractive indices of the cornea, aqueous humor, lens, and vitreous body. Transient refractive changes are common during periods of
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>hyperglycemia or falling blood glucose during intensive glycemic control. Thus, in the analysis of pathophysiology of refractive changes in diabetes, all the abovementioned parameters need to be considered. Acute changes in the plasma glucose level cause either myopia or hyperopia. The change in the refractive index of</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>the lens is responsible for the refractive changes. According to studies osmotic changes lead to changes in lens hydration. Hyperglycemia stimulates sorbitol production in the lens. Subacute rise in glucose levels in the aqueous humor could result in increased production of sorbitol in the lens and overhydration of the lens. On</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>the other hand, an acute rise in external glucose levels causes dehydration of the lens in vitro. This causes change in the refractive index of the lens Dyke et al. concluded that hyperglycemia produced myopia, and that lowering the blood sugar resulted in hyperopia.<sup>5</sup> Grant et al.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>suggested that the change in vision that accompanied chronic changes in glucose paralleled the degree of change in glucose concentration.<sup>6</sup> This agrees with the result of our study Kristian et al. investigated the effect of glycemic control on hyperglycemia-induced temporary changes in refractive</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>error in type 1 diabetic patients without retinopathy.<sup>7</sup> This study is also parallel to our study in terms of investigating the hyperglycemia associated with diabetes mellitus. Okamoto et al reported myopia at hyperglycemic levels and on decrease in the blood sugar level hyperopic shift was seen, which was contrary to our study.<sup>8</sup></p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>Bozkurt et al. demonstrated the mechanisms by which elevated glucose affects cellular metabolism.<sup>8</sup> Tatsuyuki et al. studied blurred vision in diabetes mellitus patients. The refractive changes in diabetic patients are unknown; they range from 5 to 50% in untreated or uncontrolled patients.<sup>9</sup> Guisti hypothesized</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>that the sorbitol production with overhydration of the lens remains the best pathophysiologic account for the phenomenon.<sup>10</sup> He concluded that hyperopic changes are highly dependent on the magnitude of plasma glucose concentrations, and rapid correction of hyperglycemia is strictly</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>correlated with complete recovery of refraction. The exact biological basis of refractive changes in the eyes of people with diabetes has yet to be established, and the mechanism of the relationship diabetes remains to be determined. between plasma glucose concentration and refractive change in person with in</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>conclusion in diabetic patients, refraction is affected by blood glucose; therefore, monitoring of this value is important. It is recommended that eyeglasses should not be prescribed for 4 weeks in patients who are newly diagnosed with diabetes mellitus.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

<p>ط. محمد سعيد</p>	<p>DETERMINATI ON OF PHOSPHATE CONCENTRATI ON IN DRY EYE PATIENTS WITH THAT IN NORMAL EYES</p>	<p>Youssef Awad Hassoun Abdulla -Nour AL_Tuqa Moneim Jawad -Nour AL_Huda Jabbar Kazem Farhan -Nour AL_Huda Hussein Touma Abd Aoun</p>	<p><u>Abstract</u> We studied in this research"how to identify the normal eye in a simple way and dry eye and what are the causes resulting from dry eye and how to recognize dry eye through symptoms and what is the effect of wearing contact lenses in it and other things related to this topic and also we learned about</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			the concentration of phosphate and its relationship and effect on the normal and dry eye through drops that contain phosphate in different proportions and quantities according to the type of drops used in eye.	
Dr. Firas Fadhil	Learning Based Model For	Noura Yasser Kshash -Noorhan Azhar Rasmi	Optical coherence tomography (OCT) is a noninvasive imaging	

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

	Optical Coherence Tomography Imaging (OCT) Segmentation	Hajar Jassim Muhammad Hiba Haider Hadi -Hadi Mohammed	technique that provides high-resolution cross-sectional retina images, enabling ophthalmologists to gather crucial information for diagnosing various retinal diseases. Despite its benefits, manual analysis of OCT images is time-consuming and heavily dependent on the personal experience of the analyst.
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>This research focuses, first on the eye and its basic structures , second on eye imaging devices in general, then on OCT in particular in terms of principle, types and dataset, in addition to displaying images of some retinal diseases as an example. Finally, we talk about the image processing of the OCT device and the latest methods used to</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			images segmentation to provide sufficient accuracy for better diagnosis.	
د.فائز عريس	The Relationship between Myopia and Astigmatism	Tuqa Hussein Abed Ali -Tabarak Eissa Hussein -Tabarak Aqeel Talib -Tuqa Jassim shalal -Tabarak Emad Jiyad	myopia and astigmatism two common refractive errors that effect visual acuity. Myopia, also known as nearsightedness, causes distant objects to appear blurry while close objects remain clear. Astigmatism, on	

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>the other hand, results in distorted and unclear vision due to an irregular shape of the cornea or lens.</p> <p>This study reviewed the prevalence and association of myopia and astigmatism, explored whether these refractive errors frequently occur together or</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>independently. It investigated the potential genetic and environmental factors contributing to the development of myopia and astigmatism. Furthermore, the research deeped into impact of these conditions on visual function and daily life. The study menioned current diagnostic techniques and treatment</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>options for myopia and astigmatism, including corrective eyeglasses, contact lenses, and surgical interventions such as laser refractive surgery. It compared the effectiveness and potential risks associated with each approach.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>To conduct this study, a comprehensive review of relevant literature, including scientific articles, research papers, and medical databases, was undertaken. The findings indicated a notable correlation between myopia and astigmatism, with overlapping occurrence in some cases. The reasearch also highlighted the</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>importance or early detection, accurate diagnosis, and appropriate management of these refractive errors to optimize visual outcomes and improve quality of life for affected individuals.</p> <p>understanding the relationship between myopia and astigmatism is crucial for</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			healthcare professionals, researchers, and individuals seeking to address these refractive errors effectively. This research provided valuable insights into the prevalence, coexistence, etiology, diagnosis, and treatment options of myopia and astigmatism. Contributed to	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			the adeancement of knowledge in this field.
د.مصطفى سالم	Study of side laser effects on correct astigmatism	<ul style="list-style-type: none"> <li>-Ali Hashem Raji</li> <li>- Thurgam Haider Mahdi</li> <li>-Amar Jafar Jassim</li> <li>-Fatima Mohsen Bader</li> <li>-Fatima Hamed Hussein</li> <li>- Ghadeer Sahib Rahim</li> <li>-Dhay Safaa Hussein</li> </ul>	<i>Abstract:</i> In a nutshell, Lasik for astigmatism is a type of laser eye surgery that is used to improve vision by correcting the curvature of the cornea. This surgery can be performed on both nearsighted and farsighted

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>patients, as well as those with astigmatism.</p> <p>The goal of Lasik for astigmatism is to reduce or eliminate the need for glasses or contact lenses, and it is considered to be a very successful surgery. In most cases, patients will achieve ٢٠/٢٠ vision or better following the procedure.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

د. لهيبي محمد عبد الحسين	Errors Of Refracti on	Maha Hamza Alyasiry -Muntader Jabbar Abu shanah -Mahdi Ghanem Hario -muntader talib jabaar -Mahdi Farhan Marzouk	Summary: It is easy to see that medical and surgical eye care benefit patient in a profound way, at times improving vision in a dramatic fashion. In contrast, it can be easy to overlook that when our patients put on their eyeglasses each morning, vision is improved dramatically. And this improvement is made possible through the process of
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>refraction. The goal of this research is to examine the evidence on the applicability of optical correction of refractive error and prescribing glasses.</p> <p>patients and Place: ١٠٠ cases including males and females were collected from Eye examination clinics</p> <p>Results: The age range of patients was ٧-٦٤ years, of whom ٤٣ (٤٣%)</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>were males and ٥٧ (٥٧%) females. the right eye, ٢٢ males didn't have suitable correction, and ٢١ were suitable, ٣٨ females also didn't have suitable, and left eye ٢٣ males did not have suitable correction, ٢١ had suitable correction, and ٣٨ females did not have suitable correction, but ١٩ did</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>Aim of study The primary objective of this research is to identify refractive errors and to present the most effective methods for treating them. This will be achieved by closely analyzing pathological data from a sample of ١٠ refractive error cases belonging to both genders and ranging in age from ٧ to ٦٤ years. The research</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>aims to provide a clear and comprehensive understanding of the prevalence of different types of refractive errors and the ages at which they occur. It will further investigate the extent to which gender influences a specific refractive error. Moreover, it will differentiate between the cases that were successfully corrected and those</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			were not have the full correction.
د. حيدر عزيز علي	Manufacture of the Eyeglass Frame Using Three Dimensional Printer	<ul style="list-style-type: none"> <li>-Maryam Falah Hasan</li> <li>-Maryam Ali Jasem</li> <li>-Maryam Mohsen Muhammad</li> <li>-Maryam Qasim Asweid</li> <li>-Maryam Mahdi Eabd</li> </ul>	<p>٣D printing is a technology that can create customized and durable eyewear glasses using various materials and designs. ٣D printed glasses can offer many advantages over traditional glasses, such as personalization, sustainability, and innovation. 3D printing can</p>

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>also enable new applications for smart eyewear glasses that can augment daily life with sensing functions. This paper explores the trends and benefits of 3D printing in the eyewear industry, as well as some of the best 3D printed glasses projects and how to create them. The spectacles (or eyeglasses) are optical instruments that have</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>the role of protecting the eye or correcting certain vision defects. A pair of glasses consists of the actual frame and two lenses. The main role of the frames is to position the lens as correctly as possible on the optical axis of the eyes. The basic dimensions of the glasses are: the line of the glasses, the optical centers of the two lenses; the length of the lens,</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>measured from the line of the spectacle; the distance between the two optical centers; the minimum distance between the lens and the width of the bridge.</p> <p>3D printing is a great technology for the eyewear industry because it offers many benefits, Unlimited</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>possibilities of designs: 3D printing allows you to create complex and unique structures that are not possible with traditional methods. High-quality glasses 3D printing uses durable and versatile materials, such as nylon, to produce glasses that are</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>resistant and functional. In the future, 3D printing may also allow you to print lenses for your glasses. Brand building3D printing helps you stand out from your competitors by offering innovative and aesthetic products that reflect your identity and</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>vision. Supply-chain optimization 3D printing reduces the need for stock and waste, as you can produce your glasses on-demand and closer to the customer, saving time and money.</p> <p>There are several types</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>of 3D printing, which differ in the way they form plastic and metal parts. Some of the most common types (FDM, SLS, SLA).</p> <p>3D printing is a process that creates 3D objects from digital models by adding material layer by</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>layer such as, Plastics they are versatile, easy to use, and come in many colors and textures. Metals They are strong, durable, and can create complex geometries. Ceramics they have high-temperature resistance. Resins have high resolution, smooth</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>surface finish, and various material properties. Composites they combine two or more materials to enhance specific properties.</p> <p>Based on this information, this paper aims to present a method</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>of making custom frames using 3D printing techniques. These techniques offer the possibility of dimensional choice of the frame, colour, shape and appearance, so as to match the wishes of the user from all points of</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			view.	
د. فارس محمد علي	The Relationship Between Visual Acuity and Cataract	صالح العبيدي سعيد اجساد احمد صباح نخازي سهر احمد عباس جابر هدا زينب ابو در كامل خاتم	ABSTRACT Cataract, It is an opacity of the lens of the eye where the lens loses its transparency and turns yellowish-white, which causes blurry vision due to the agglomeration of proteins in the lens that scatter light, which	

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>affects vision And it is one of the most blinding diseases intheworld Visual acuity is a measure of how clearly a person sees whenlooking directly at a specific object.The different effects of opacityonthe visual sharpness of this research have been discussed bytakingagroup of samples and discussing themThe types of</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>cataracts were reclassified according to the intensity of their impact on the visual acuity into three basic categories (lens circumference, lens center, under their capsule of the lens). It was found that the degree of effect of opacity on the visual acuity depends on the proportion of space occupied by the gentlemen, as it is</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>inversely proportional to the severity of the situation capsule</p> <p>Where the greater the opacity of the lens of the eye, the greater the amount of visual acuity in short the most influential type of visual acuity is the opacity of the lens under the capsule, as it has a relatively greater effect on the visual acuity compared to the</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			cataract of the lens in the cortex and the posterior capsule
د. مصطفى سالم	Graduation research submitted to the Council of Al-	Fatima Shalaka Kazem Fatima Saddam Kamel Fatima Abd Ali Naeem Fatima Adnan Rahim Fatima Ali Sayhoud	Direct exposure of the human eye to uranium is not a common occurrence in everyday life. However, prolonged exposure to high levels of uranium, particularly through inhalation or ingestion, can have adverse effects on various organs, including the eyes. Chronic

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

	furat Al-Awsat University To study diploma .		exposure to ionizing radiation, emitted during uranium. decay, can increase the risk of developing clouding tion characterized by thecondi Cataracts are a medical cataracts of the eye's lensleading to impaired vision . v	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>Studies on the effects of radiation exposure, including that from uranium, have radiation and an elevated suggested a correlation between high doses of ionizing risk of cataract formation. The lens of the eye is particularly sensitive to ionizing radiation, and cumulative exposure over time</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			can contribute to the development of cataracts .
د. علي محمد حيدر مرشح	The Effect of Electronic Devices on The Eyes	-Zaid Taher Kadhim -Zahraa Khudair -Zahraa Haider -Zahraa Hussein -Zahraa Khalil	Abstract The rapid proliferation of electronic devices in modern society has led to increasing concerns about their potential impact on eye health. This study aims to comprehensively examine the effects of electronic device usage on ocular health, focusing on digital eye strain,

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>blue light exposure, and associated ocular diseases. A thorough literature review was conducted to synthesize existing research findings and identify gaps in knowledge. Digital eye strain, also known as computer vision syndrome, is characterized by symptoms such as eye fatigue, headaches, and dry eyes, and is prevalent</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>among individuals who use electronic devices extensively. Blue light emitted by electronic screens has been implicated in retinal damage and may contribute to the development or progression of ocular diseases such as age-related macular degeneration (AMD) and myopia. Preventive interventions, including</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>adjusting display settings, taking regular breaks, and using blue light-blocking filters, may help alleviate symptoms of digital eye strain and reduce the risk of long-term ocular complications. However, further research is needed to better understand the mechanisms underlying the effects of electronic device usage on eye health and to develop</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>evidence-based guidelines for promoting ocular wellness in the digital age. By raising awareness, implementing preventive measures, and advancing research efforts, we can empower individuals to prioritize their ocular health and mitigate the adverse effects of electronic device usage on vision.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

Enaam Abd El Mohsen	Effects of Smart Devices on the Eye Health for Children and Adolescents	-Taqwa Ghazi Faisal - Tabarak Sami Mohan -Jannat Ali Saleh - Tabarak Sabah Alwan -Tabarak Adnan Younis -Tabarak Abd Zahra Essa	In today's interconnected world, smart devices have become indispensable tools, enriching our lives with convenience and connectivity. However, alongside their myriad benefits, these devices also pose potential risks to our physical and ocular health.  Central to this concern is the emission of blue light, a
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>pervasive form of radiation that influences both body and mind. While blue light offers cognitive benefits such as memory enhancement and mood elevation, its overexposure can lead to detrimental effects, notably digital eye strain. Moreover, the ramifications of smart device usage extend</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>across age groups, affecting children and adults alike.</p> <p>Manifestations of this impact range from behavioral changes in children, including irritability and disrupted sleep patterns, to physiological issues such as eye strain and nearsightedness. In light of these challenges, it is imperative to heed guidelines and</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>recommendations aimed at mitigating the adverse effects of prolonged smart device use. Key among these recommendations is the implementation of the 20/20 rule, complemented by a suite of strategies tailored to promote ocular health and overall well-being. By embracing these measures, individuals can navigate the digital landscape</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			with greater mindfulness, safeguarding their ocular health and preserving the balance between technology and well-being.
Ali Kadhim AlFatlawi	<i>Importance of early detection of eye diseases among school students</i>	Noor Jawad Kadhim Noor Alhuda Sami Noor Bashar Hattab Noor Jassim Mohammed Jawad Noor Hussein Halbous	Background: Visual impairments are well-known to affect school student's academic performance along with their quality of life. On an

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>encouraging note, visual impairments can be well managed if they are detected early by visual screening. Objectives: To assess the visual acuity of school students and to find out the prevalence of visual impairment (VI) along with a description of some characteristics of visually impaired students. Methods: A</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>cross-sectional study in an al-sadder hospital was carried out on a convenience sample of ٢٥ parents residing in the governorate of Al-Najaf. Data were gathered using IBM SPSS Statistics for Windows, Version ٢٦,٠ was used to do the statistical analysis of the data. Results: Most people are not interested in examining their children's</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>eyes during the first months after birth in proportion (٥٢%), although most of them have a good understanding of the importance of magnifying examinations to detect vision problems in children in proportion (٦٠%). Conclusion: Early and periodic eye examination for school-aged children is recommended. Also,</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>students, parents, and teachers must be educated about the early detection of VI and correction with eyeglasses to prevent the progression of visual impairment</p> <p>Recommendation: Parents should be aware of the importance of routine eye exams for children, starting at a young age. They should be</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			familiar with common childhood eye conditions and signs to watch out for. Parents should not hesitate to seek professional medical attention if they have any concerns about their child's eye health.	
م.م. زهراء حامد	Causes of nasolacrimal	-Ruqaya Maytham Hameed -Russl Mohammed -Sherif Ruqaya Salman Eidan	A blocked tear duct occurs when the tear drainage system in the eye is partially or completely	

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

	duct obstruction	-Rafal Haider Kamel -Ruqaya Ameen Talib -Ruqaya Adel Abd Zaid	blocked, preventing tears from draining properly. This can result in watery, irritated, or chronically inflamed eyes, and may be caused by eye infections, swelling, injury, or tumors. The study for this research was conducted at the Al-Sadr Teaching Hospital in Najaf and the Imam Al-Sadiq Hospital in Babylon. A total of ٢٦
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>questionnaires were filled out by participants aged between ٣ months and ٥٥ years.</p> <p>Results indicated that patients commonly experience symptoms such as tearing, discharge, redness, and discomfort in both eyes, with variations in distribution between the right and left eyes.</p> <p>Post-operative outcomes were</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			generally positive, with many patients reporting significant improvement or resolution of symptoms. Family history does not appear to play a major role in predicting these symptoms in the studied patients.
د. فارس محمد	New Techniques For Treating Vision Defects	تركي قاسم اسراء ماجد نور فيصل رياض مجبل كليب اسراء محرز محمد الزهرة درويش	اكرم افراح Refractive Errors occur when the shape of the eye prevents light from focusing directly on the retina. The length of the

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>eyeball (longer or shorter), changes in the shape of the cornea. Photorefractive keratectomy (PRK), laser-assisted in situ keratomileusis (LASIK) and small-incision lenticule extraction (SMILE) are the most clinically effective and safe techniques, for refractive surgery. All three kinds of laser vision correction, while varying</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>in technique, have roughly a similar high achievement rate. Which method is best for you to rely upon various components like the refractive error, habits and profession, for example, sports and lifestyle. LASIK is as of now the predominant strategy in refractive surgery but SMILE also spreads rapidly between surgeons. This increments</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>comfort amid the early post-operative period, takes into account quick visual recovery, and diminishes the wound healing response. And additionally, that there would be less postoperative dry eye after SMILE contrasted with LASIK because the anterior stroma is exasperates just by the small incision, implying that the</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>anterior corneal nerves ought to be less influenced. SMILE Likewise lower induction of higher order aberrations (HOA) contrasted with LASIK and PRK. No contrasts between SMILE, lasik and PRK medicines in postoperative (CH) corneal resistance factor (CRF) or corneal hysteresis values. PRK, but, remains a supreme option</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			for moderate to mild modifications, especially for cases involving thin corneas, frequent erosions.
د.اسراء محمد رياض	Types and Drug Susceptibility Patterns of Bacterial Isolates From Eye	<ul style="list-style-type: none"> <li>- Israa Raed Abdel Hassan</li> <li>-Azhar Hassan Jihadi</li> <li>- Anwar Ahmed Hassan</li> <li>-Ayat Adil Hameed</li> <li>-Ayat Alwan Jaday</li> </ul>	The type and pattern of organisms that cause ocular infection changes over time. Moreover, the causative organisms have developed increased drug resistance.

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

	Infection Saples in Al-Najaf Province Hospitals	-Um Al baneen Abbas Hashem	Therefore, the aim of this study was to determine the prevalent bacterial agents of eye discharge and their drug susceptibility patterns to commonly used antimicrobial agents. The present study included ١٦٩ clinical samples during the period between November ٢٠٢٣- January ٢٠٢٤ on ١٦٩ patients with ophthalmological infections of
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>both sexes &amp; different ages ( 1- ٧٥ years old),the swabs were collected from patients, with eye infections and from three areas: conjunctiva, cornea and eyelids, when they attend to ophthalmological clinic in Ameer-Al-Momneen,AL-Hakeem, AL-Furat AL-Awsat and AL-Sadr Medical city as well as some chief clinical</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>laboratories for eye infection in Al-Najaf city . Following standard protocols, external ocular swabs were collected and inoculated onto blood agar, chocolate agar, MacConkey agar and mannitol salt agar (MSA). Finally, bacterial isolates were identified by Gram stain, colony morphology, and biochemical tests. Antimicrobial</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>susceptibility testing was done by using the modified Kirby-Bauer disk diffusion technique according to Clinical and Laboratory Standards Institute (CLSI) guideline , the diagnosis was confirmed by the Vitek<sup>2</sup> system . Distribution of bacterial isolates were of follows: ٤٤ Gram-positive bacterial isolates and ٣٦ Gram-negative bacterial</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>isolates, No Bacterial growth was found in ٨٩ samples. The results showed that Staphylococcus aureus was dominant ٢٢ (٢٨,٩٤%) samples, followed by Staphylococcus epidermidis with ١٩ (٢٥%) samples, then Staphylococcus pneumonia ٣ (٦,٨%), then Pseudomonas aeruginosa ١٨ (٢٣,٦٨%) samples and ١٢ (١٥,٧٨%)</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>isolates belonging to <i>Escherichia coli</i>, ٤(٥,٢٦%) isolates of <i>Klebsiella pneumoniae</i> and ١(١,٣١%) isolates of both <i>Serratia marcescens</i> and , <i>Neisseria gonorrhoeae</i>. The sensitivity test was performed using the the modified Kirby-Bauer disk diffusion technique according to Clinical and Laboratory Standards Institute (CLSI)</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>guideline and Vitek<sup>2</sup> system, Antimicrobial (18agents) susceptibility of the bacterial isolates revealed marked resistant of these isolates for most antimicrobial agents e.g. Penicillin (٨٧,٨%), amoxicillin/clavulanicacid (٨٤,٤%), cephalaxien (٨٣,٩%), erythromycin (٨٣,٤%), ampicillin</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			(٧١,٣%) while the least resistant (٨,٢%) reported for ciprofloxacin.
د. بلاسم القرشي	VISUAL PATH WAY	مصطفى قاسم مصطفى علي مصطفى مالك مصطفى هاشم معصومة حسين	Abstract The visual pathway is a complex system that transmits visual information from the eyes to the brain, involving structures like the retina, optic nerve, optic chiasm, optic tract, lateral geniculate nucleus, optic

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>radiations, and primary visual cortex. This pathway allows for the processing of visual stimuli, enabling perception, recognition, and interpretation of the surrounding environment. Understanding the visual pathway is crucial in diagnosing and treating various visual impairments and</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>neurological disorders affecting vision.</p> <p>Refractive errors are common visual impairments resulting from irregularities in the eye's ability to bend light, leading to blurred vision. This abstract explores the prevalence, types, and impact of refractive errors on visual health. It examines the underlying causes, including</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>variations in eye shape and size, and discusses diagnostic methods such as visual acuity tests and refraction assessments. Treatment options, including corrective lenses, refractive surgery, and lifestyle modifications, are also considered. Understanding refractive errors is essential for optimizing visual function and</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>improving quality of life for individuals affected by these conditions.</p> <p>selection of materials, including equipment, chemicals, and biological samples, as well as the rationale behind their choice.</p> <p>The experimental procedures, including study design, data collection methods, and statistical analyses, are</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>described in detail to ensure transparency and reproducibility. Emphasis is placed on the accuracy, reliability, and ethical considerations inherent in the experimental approach. By elucidating the materials and methods, this abstract aims to provide a clear understanding of the scientific process and</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>facilitate replication and validation of the study's findings.</p> <p>It presents the main outcomes and discoveries derived from the study, focusing on key findings, trends, and statistical analyses.</p> <p>The discussion section interprets these results within the context of existing literature, providing insights into the underlying</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>mechanisms, potential implications, and future directions. Additionally, it addresses any limitations of the study and suggests avenues for further research. Through a concise presentation of results and discussion, this abstract aims to convey the significance of the findings and contribute to</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>the advancement of knowledge in the field."</p> <p>It synthesizes the key findings and their broader significance within the study's context, addressing the primary objectives and hypotheses. Additionally, it discusses the implications of these conclusions for theory, practice, or policy, highlighting their</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>potential impact on the field. Any limitations of the study are acknowledged, and suggestions for future research directions are offered. By succinctly summarizing the study's conclusions, this abstract aims to provide a clear understanding of its contributions and stimulate</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			further inquiry in the relevant domain."
	م. رزيق محمد عباس	<p>Kawther Fadhl Hassa                      Laith Haithem Ghazi                      Kawther Mahdi                      Laihob Mojtaba                      Sabah Merkhan                      Layla Salih Moften</p>	<p>Hyperglycemia has toxic effects on almost all cells in the body. Ophthalmic complications of hyperglycemia are most profound in cornea and retina. Seventy percent of diabetics suffer from corneal complications, collectively called diabetic keratopathy,</p>

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>which includes include recurrent erosions, delayed wound healing, ulcers, and edema.</p> <p>Confocal microscopy has permitted in vivo imaging of corneal nerves, which are also affected in diabetic subjects.</p> <p>Gene therapies upregulating transforming gene or downregulating and are</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>potential future therapies for diabetic keratopathy. Diabetic retinopathy (DR) is the most common cause of blindness in people over the age of ٥٠.</p> <p>There is accumulating evidence that DR is an inflammatory disease. The initial events in animal models of DR are increased vascular permeability and leukocytosis. This binding</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>of leukocytes to the endothelium results from an increase in intracellular adhesion molecule on the retinal capillary endothelium (EC) and expression of CD11/CD18 on the surface of the activated leukocyte.</p> <p>We have observed polymorphonuclear leukocytes sites of EC vascular dysfunction</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>in diabetic retinas as well as choroid. Anti-inflammatory drugs like aspirin, or meloxicam reduce leukocytosis and EC death. Future therapies may include repopulation of the acellular capillaries after EC and pericyte death with vascular progenitors made from the patient's own blood cells.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

د.م. حسنين جميل	Contact lenses	Mohammad Ali Faisal Mohammad Ammar Hadi Mohammad Ali Aziz Mohammad Sadiq Ahmed  Mohammad Ali haider Shaheen	Contact lenses (called for ease of contact lenses) are medical, cosmetic or vision correction lenses as long as they are placed on the cornea of the eye. Contact lenses usually serve the same purpose as prescription glasses, and they provide better vision than prescription glasses, especially with high degrees of
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>nearsightedness or farsightedness, etc. It is accompanied by astigmatism, and in this respect it is similar to LASIK, except that it is temporary in effect, unlike LASIK, which is permanent. Lenses now have a UV protection surface treatment to reduce UV damage to the eye's natural lens. Lenses also have</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>therapeutic properties, as they distribute medicine to the eye for long periods. They are better than medicinal drops. However, they are used for cosmetics. They can be colored or transparent according to the patient's request. Despite their benefit, they cause risks to the eye if they are used incorrectly, so they must be used in correct</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>ways. Contact lenses have been developed over the ages to increase the times they are worn, but until now they have not reached the desired shape. The lens blocks air from the cornea, which causes risks to the eye if it is worn for a long time. Some advice must be adhered to when using contact lenses. These are some of the problems</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			that lenses can cause.:- Mechanical trauma to the conjunctiva and cornea, Acute and chronic hypoxia from decreased transmissibility of oxygen, Allergic reactions from protein deposits in the contact lenses.	
د. محمود عبد الجليل	Effect of ultraviolet(uv) rays on the eye	Muhammad Baqir Hussei	Abstract The study aimed to identify ultraviolet rays and their relationship to human	

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

		Muhammad Ahmed Naji Muhammad Ahmed Nour Muhammad Ihsan Adnan Muhammad Bassem Thamer	health, and to identify the eye, its parts, function, and the effect of rays on them. I found that the role of ultraviolet rays in eye diseases is developing significantly, and the burden of eye diseases may increase. This burden may increase in lifestyle and environmental changes, which are increased by personal exposure to ultraviolet rays.
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			Moderate exposure to ultraviolet rays has a positive effect, and patients should be educated about its benefit.	
م. هادي ساجد	Chronic dacryocystitis in adults	Hussein Emad Hashem Hussein fadhil Abdul Hussein Rahab hussein hashaf	AbstractThis paper reviews the most important findings from the largest studies on the microbiology and etiopathogenesis of	



## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

		Hayder baseem jassim Haneen Muthanna Rashad Duaa Najah Habib Hayder kamel hamdan	<p>dacryocystitis development and develops guidelines for surgery and clinical practice based on those findings.</p> <p>The distal nasolacrimal duct obstruction is the most prevalent sign of this and needs to be treated to avoid a clinical relapse. The patient's age, overall health, and clinical signs</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>and symptoms all play a major role in determining when surgery is appropriate. Antibiotic therapy against Gram positive (S. aureus, S. pneumoniae, S. epidermidis) and Gram negative (H. influenzae, P. aeruginosa) bacteria should be given orally to adults and intravenously to pediatric patients prior to</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>surgery, considering the germs isolated in cases of dacryocystitis.</p> <p>Gentamicin and amoxicillin-clavulanic acid have It has been discovered that gentamicin and amoxicillin-clavulanic acid work well against the bacteria that are frequently linked to the</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			etiopathogenesis of this condition.
د. علي محمد حيدر	Problems With Looking For Near Long Periods	Zahraa Raad Hamad Abdullah Zahraa Abdel Amir Nasser Hussein Zahraa a Abdel Khaleq Abdel Hamid	Myopia, also known as short-sightedness or near-sightedness, is a very common condition that typically starts in childhood. Severe forms of myopia (pathologic myopia) are associated with a risk of other

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

		Zahraa Saad Majeed Hamed Zahraa Sabah Jodi Daghim	associated ophthalmic problems .Symptoms if you are nearsighted you may notice Distance objects appear blurry What are the complications In most cases, providers can treat nearsightedness with glasses, contact lenses or corrective surgery, like LASIK. However, some cases of pathologic myopia can lead to more serious eye
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>condition. Farsightedness Is a common vision condition in which distant objects are seen clearly, but near objects may be blurry The degree of farsightedness you have affects your ability to focus. People with high hyperopia can see distant objects clearly.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

م.م. امين جهاد	<i>Anisometropia in children and it's treatment</i>	Fatima Talib Abd AL WAHID. Mohammad Asaad Imran Fatima Yasser Abd Zaid. Fatima Ali Najah Fatima Faiq Jabbar. Karrar Ali Kadhim Qismah Ghani Jabr. Fatima Faiq Ahmed	<i>Abstract</i> Anisometropia is a condition in which a person's eyes Have substantially differing refractive power Generally,a difference in Power of one diopter (1D) is the threshold for diagnosis of the condition .	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

	<i>with conta ct Lense s</i>		<p>A cross-sectional study was conducted at Al-Furat Al-Awsat Technical University during the period from November ٢٠٢٣ to February ٢٠٢٤ . where (٣٠) samples were taken for ages ranging between (٧) months and (١٢,٥) years.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>Post-treatment visual acuity was calculated for both genders (male and female) This study found that there is no statistically significant relationship between gender and the causes of anisometropia. Shortsightedness was one of the most common causes</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>of anisometropia in the data collected.</p> <p>It has been observed that visual acuity has improved as a result of wearing contact lenses, depending on the patient's response and Degree of refractive difference .</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

د. احمد خانم	Correction of Ametropia by Subjective and Objective Refraction	Zahraa Ghazi Faysal Zahraa Esaa Hussein Zahraa Fares Fadel Zahraa Flaih Jbaara Zahraa Falih Amchur	Modern techniques for correction and treatment of myopia by means of subjective and objective refraction have made significant advances in recent years. These techniques are now more accurate, efficient, and less invasive than ever before. Modern techniques for correcting are an important
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>advance in the field of ophthalmology. These techniques are effective and safe in most cases, and can help people with nearsightedness enjoy clear vision</p> <p>Modern techniques for correcting myopia rely on one of two basic factors</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

حيدر عزيز د.	Lazy eye, its complications and its impact on the retina and methods of prevention and treatment	<p>١- Athra Abdel Nabi Yasser Sihoud      2-Muhaimen Talib Noor Shabib</p> <p>٣- Naba Ali Abd Radi</p> <p>٤- Naba Faris Hadab Hamza</p> <p>٥- Narges Abdel Zahra Ali Arran      6- Nisreen Ahmed Jawad Kazem</p>	The lazy eye is a health problem that affects the eye and appears as a pathological condition in childhood in the eye , which is the focus of the brain on one eye and not the other , and thus ignores that second eye where the child's sense of vision	

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

		<p>V. Nour Al-Zahra Kamel Shati Marhoon</p>	<p>develops quickly during the first year of life .</p> <p>However, sometimes his eyes or one of them may later suffer from problems that may hinder the development of his ability to see properly as a result of many factors, including eye laziness that affects the eye without parents noticing.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>It is clear that the brain forms a visual image of both eyes equally, and if this is not done, it resorts to ignoring the image sent by one eye , relying entirely on the other eye, and the child quickly stops using this eye in a subconscious way ,and the result of this is that the eye becomes lazy, which develops little by little, leaving the child</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>visually impaired in this eye for life , if the rest of the case is untreated .</p> <p>The location of the sick child with the lazy eye or the parents may not be noticeable, as it depends on looking at one eye without the other, unless the child undergoes an eye examination.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>The disease usually appears in children at the age of seven , and the consideration of a state of development remains variable during the first nine years of the child's life in the event that one of the affected eyes is not stimulated and treated as required and so that the nerves responsible for vision are not</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			injured, leading to partial or total blindness.
اهين جهاد	Study Occupational Safety And Health Requirements in The Work Environment	Humam kareem khantail Noor kaream obeas Worod qasim mahdi Hadeel haider Najm Yaqeen kamel shannan	Thousands of people are blinded each year from work-related eye injuries that could have been prevented with the proper selection and use of eye and face protection. OSHA requires employers to ensure the safety of

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

	For Eye Protection		all employees in the work environment. Eye and face protection must be provided whenever necessary to protect against chemical, environmental, radiological or mechanical irritants and hazards Therefore, we discussed in this research the health requirements for maintaining the eye and safety equipment
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>The Occupational Safety and Health Administration (OSHA) requires workers to use eye and face protection whenever there is a reasonable probability of injury that could be prevented by such equipment. Personal protective eyewear, such as goggles, face shields, safety glasses or full face respirators must be used when an eye</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			hazard exists. The necessary eye protection depends upon the type of hazard, the circumstances of exposure, other protective equipment used and individual vision needs.	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

فارس محمد د.	Study the effect of measles on the conjunctiva	Andalus Abd Hassan Anwar Jassim Mohammed Amin Sabih Kamel	Abstract Measles is an important cause of serious complications and death. Pneumonia Is the most common severe complication, and diphtheria, diarrhea, and malnutrition caused by measles contribute to mortality. Encephalitis occurs in ~1 in 1,000 children with measles.
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>Concurrent vitamin A deficiency leads to Increased complication rates. Children under ٥ years of age, adults, and people with malnutrition or immunodeficiency disorders are at increased risk of complications. The eye is one of the five senses in the body, and many people believe that it is the most important sense and living</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>without it is very difficult. The process of sight or vision is characterized as being very complex, and most of the brain is devoted to this sense compared to the other senses combined. The work of the visual system in the human body takes place in several steps: It is summarized by the entry of light into the pupil of the eye so that</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>it is concentrated in the back part of the eye known as the retina. The retina then converts the light signals into electrical impulses, so that these impulses are carried through the optic nerve to the brain, enabling it to process the light signals. Measles has a clear effect on the conjunctiva of the eye, causing it . It is usually inflammation and</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>irritation, also known as conjunctivitis or pink eye. This is a common symptom of measles that occurs in almost all patients, along with fever, cough, and runny nose. Conjunctivitis caused by measles is a viral infection, which means it cannot be treated with antibiotics. It usually resolves on its own as</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>the disease progresses, but it can cause discomfort, redness, itching, and watery discharge from the eye. In some cases, conjunctivitis can lead to more serious complications, such as keratitis (corneal infection), scarring of the cornea, or loss of vision. Therefore, it is important to seek medical care if you have</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			measles and have any eye problems.	
مصطفى سالم	Theoretical Study of laser vision correction	Ali Mohammed Ghafar Mahmmod Ali Qasim karim azouz Ali Maitham Hussein Alwan Ali Hadi Ali latif Ali Abd Al-Hadi Mohammed	Laser use in ophthalmology has revolutionized the field by offering precise and minimally invasive treatment options for various eye conditions. As well as, Laser imaging techniques that have revolutionized various	

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>fields, including medicine and industry, by providing high-precision, non-invasive imaging capabilities.</p> <p>The aim of this research is to understand the evolution of ophthalmological scanning techniques and surgical procedures that occurred after laser incorporation into the field.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>In ophthalmology, one prominent laser imaging technique is optical coherence tomography (OCT). OCT uses low-coherence light to capture cross-sectional images of the eye with micrometer-level resolution, allowing detailed visualization of the retina, optic nerve, and other structures.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>Another laser-based imaging technique used in medicine is confocal microscopy. Confocal microscopy uses a focused laser beam to illuminate specific planes within a sample, enabling three-dimensional visualization of cellular and tissue structures with exceptional clarity and depth.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>One of the most common laser eye surgeries is LASIK (Laser-Assisted In Situ Keratomileusis), which is used to correct refractive errors such as nearsightedness, farsightedness, and astigmatism. During LASIK surgery, a femtosecond laser is used to create a thin flap in the cornea, followed by reshaping the underlying corneal tissue</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>with an excimer laser to correct the refractive error.</p> <p>Another laser eye surgery technique is PRK (Photorefractive Keratectomy), where the outer layer of the cornea is removed with a laser to reshape the cornea and correct refractive errors. PRK is often recommended for patients</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			with thin corneas or specific eye conditions that may not be suitable for LASIK	
مصطفى سالم د.	Innovative physic technologies in optometry	علي عبد الرزاق جواد علي رسول منصور عبد العباس عبد الامير حليس علي صلاح مهدي علي عبد الرضا محسن	The focus will be on the field of laser and its applications in vision treatment	

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>Femto-LASIK, LASIK, Femto-Smile, and Femto-Second. Each of these applications will be discussed and its advantages and disadvantages will be reviewed, in addition to the technique of phaco in breaking up the lens with ultrasonic frequencies.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			Some solid scientific research and studies will be used in this research
حيدر عزيز د.	Genetic Eye Diseases	Zainab Hussein Sabit Zainab Hassan Jafar Zainab Jawad Kadhim Zainab Thamer Edham Zainab Hussein Mohammed	As one of the most complex organs in the human body, the eyes can be affected by genetics, which play a vital role in determining not only their colors but also an individual's risk of developing various eye conditions and can influence

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>the effectiveness of treatment strategies. Genetic eye disease can be caused by genetic mutations or inherited genetic features that may be passed on from parents to their children through the coded information contained in the DNA. The aim of this research was to further explore the most prominent common and rare genetic eye</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>diseases, as well as investigated the involvement of genetic variables in these diseases and their impact on eye health and vision. Furthermore, valuable insights on the prevalence of these diseases have also been provided. At the end of the research, medical cases of people suffering from DR, AMD, RP, cataracts, and POAG were</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			discussed, shed light on their family medical history, the impact of the disease on their visual acuity, and the treatments utilized to recover or minimize the severity of the condition.	
علي محمد حيدر ح.	Exotropia in the Eye	Rasol Hadi Abd Al Rasol Roqaya Hamed Flaih	Exotropia, a form of strabismus characterized by the outward deviation of one or both eyes,	

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

		<p>Roqaya Salem Yasir</p> <p>Roqaya Saleh Lafta</p> <p>Roqaya Halem Abd Al Hussian</p>	<p>poses major visual and developmental challenges. This research paper delves into the complex world of strabismus, and in this research, we will discuss its causes, symptoms, types of possible complications, and available treatment options. By examining both current and historical research, we aim to provide a comprehensive</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>understanding of this condition and facilitate its effective management. [ 1]</p> <p>Exotropia is a condition in which there is a misalignment between both eyes. It is more common in Asians and is an eye disease associated with the neural development of binocular vision and eye movement control. Studies have</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>indicated this Genetic factor contribute to the development of associated exotropia. However, the underlying mutations have not yet been comprehensively investigated [ ١]</p> <p>Exotropia is a form of eye misalignment in which the axes of vision diverge inappropriately. The first sign of exotropia is usually a noticeable</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			outward deviation of the eye. In general, exotropia evolves in frequency and duration. As the disorder progresses, the eye begins to shift when looking at near and far objects. [ ٢]	
د. فائز عويس	The effect of diabetes Mellitus type ١ and type ٢	Muhammad Baqir Muqtada Alaa	Diabetes, a chronic condition marked by high blood sugar, casts a long shadow over your overall health, and	

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

	on the Retinal de _attachment as comparative study	Muhammad Yahya Muqtada Ali Mortada Amer Muqtada Kazem Maryam Sabah Montazer Ali Maryam Qasim	unfortunately, your eyes aren't exempt. Over time, uncontrolled blood sugar damages the delicate blood vessels within the retina, the light-sensitive layer at the back of your eye responsible for capturing images. This damage, known as diabetic retinopathy, can silently progress, leading to a
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

		Montazer Mohsen Maryam Haider Muslim Aliwi	series of sight-threatening complications. One such complication is retinal detachment. Imagine the retina as a thin sheet of film in a camera. Diabetic retinopathy can cause abnormal blood vessel growth and scar tissue formation. As these scars contract, they pull on the retina, potentially tearing it away from
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>the underlying tissue. This detachment disrupts the normal function of the retina, leading to symptoms like flashes of light, floaters (seeing cobweb-like shapes), and ultimately, significant vision loss or even blindness if left untreated.</p> <p>The good news is that early detection is critical and can prevent this devastating</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>outcome. Regular comprehensive eye exams for diabetic patients are essential. These exams allow ophthalmologists to identify early signs of diabetic retinopathy and intervene with treatments like laser surgery to strengthen the blood vessels and prevent scar tissue formation. By managing your diabetes and</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			prioritizing regular eye care, you can significantly reduce the risk of retinal detachment and safeguard your precious gift of sight.
حيدر عزيز ط.	The effect of smoking on the eyes	Zainab Mazin Hassan Zainab Mazid Abbas Sara Salam Eazim Sara Ayoob Droysh Sara Habeeb Hayawi	Cigarette smoking harms nearly every organ of the body, causes many diseases, and reduces the health of smokers in general. smoking increases the risk of



## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>developing lung cancer also can cause cancer almost anywhere in your body. Smokers are at greater risk for diseases that affect the heart and blood vessels (cardiovascular disease). There are approximately ٦٠٠ ingredients in cigarettes. When burned, cigarettes create more than ٧,٠٠٠ chemicals. At least ٦٩ of these chemicals are known to</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>cause cancer, and many are toxic .The chemical constituents of cigarettes include Nicotine which is a powerful drug, tar, Carbon monoxide, Arsenic ,Ammonia ,Acetone ,Toluene, Methylamine , Pesticides, Polonium – ٢١٠, Methanol which will be further explained in our research. Smoking also has adverse ocular effects. It has</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>been shown to be a risk factor for many common and severe eye diseases, such as Graves' ophthalmopathy, age-related macular degeneration, glaucoma, dry eye disease and cataract. Many of these diseases lead to irreversible blindness. Various hypotheses have been advanced to explain the relationship between smoking</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>and ocular health, some of these hypotheses are substantiated with solid evidence, while others require further investigation. These hypotheses will be discussed in the second chapter of this research along with showing several cases of smokers with ocular disease in the third chapter.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

حسنين جميل	The Effect of Cement on the Human Eye	Muhammad Latif Ghabeen Saud Muhammad Mahdi Nimah Kazem Muhammad Nazim Tuhaili Salem Marassi Jamil Hassan Abdel	The study aimed to know the eye and its parts, and to know how the eye works and the process of vision. Knowledge of cement and the direct effects of cement on the human eye, what are the preventive measures, knowledge of the chemical composition of cement, what happens in direct contact with cement, methods of prevention,
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>and the aim of the study of the effect of cement on the eye in particular and the body in general, and knowledge of the effect of cement on the cornea and that the effect of cement on the eye is a cause of dehydration. Pterygium, knowing pterygium, causing pterygium and treating it. Knowing dry eye, its classification, evaluation,</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			diagnosis, signs and treatment, and knowing the effect of cement-on-cement factory workers.
فارس محمد علي د.	Ameer Ali Mohammed Ameer latif kazem Amani samah hamza	The effect of laser on bacterial eye infections review study	Background: Ocular infection refers to localized tissue inflammation caused by bacteria, fungi, chlamydia, viruses, parasites, and other pathogens which invade the

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

	Amna Kazem Jawad Amna Hadi Sawadi		<p>human eye. The effect of laser on bacterial eye infections is a topic of interest in the medical community.</p> <p>Methodology: Case report study design was carried out to accomplish the stated objectives.</p> <p>During the period from 1st December 2023 to 1th May 2024.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>Conclusion: After the laser is the medical miracle that saves the lives of millions due to the technology it provides, especially in the era in which antibiotics began to resist bacteria, it has been proven in many studies about its ability to kill bacteria and disinfect the eye, but before performing any laser eye operation, the</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>sterilization of the tools must be taken into account.</p> <p>Recommendation: Working on descriptive and experimental studies on the effect of laser on bacterial eye infection. And work on further studies on the effect of laser on bacterial eye infection.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

مصدر المخرى د.	Umalbanen Hasoon Salman Noor Al-Huda Jafar Yasser Shahad Najem Abdulzahra Maha Hussein Ismael Ali Ayad Mohammed Ali Qaysar Abdullah	Age-Related Corneal Changes And Pathologies	The aim of our research is to reveal the effects of the aging process on the structures of the cornea; which includes anatomical and functional changes of the corneal layers as the cornea loses its sensitivity and becomes more fragile with age. Many epithelial, stromal and endothelial changes occur during the process of aging.
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			leading to severe decrease in the corneal density and increase in the size of it. Transparency of the cornea is also reduced with age due to the altering of space between the corneal collagen fibers. Denervated corneas are surely more prone to epithelial or stromal abnormalities, recurring erosion, impaired wound healing, and infection.	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>Therefore it is important for us to show how can the corneal structural changes affect the vision and increase the probability of damaging this vital part. Several morphological observations done by different types of microscopy were explained and we included multiple corneal diseases and infections that may</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			occur in the elders, surely those included diseases may happen to children and young adults but it is more common in old people and the symptoms may also differ for various age groups.
علي محمد حيدر ك.	<i>The Effect of Electronic Devices on The Eyes</i>	Zaid Taher Kadhim Zahraa Khudair Zahraa Haider Hussein Zahraa Khalil	The rapid proliferation of electronic devices in modern society has led to increasing concerns about their potential impact on eye health. This study

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>aims to comprehensively examine the effects of electronic device usage on ocular health, focusing on digital eye strain, blue light exposure, and associated ocular diseases. A thorough literature review was conducted to synthesize existing research findings and identify gaps in knowledge. Digital eye strain, also known as computer</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>vision syndrome, is characterized by symptoms such as eye fatigue, headaches, and dry eyes, and is prevalent among individuals who use electronic devices extensively. Blue light emitted by electronic screens has been implicated in retinal damage and may contribute to the development or progression of ocular diseases</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>such as age-related macular degeneration (AMD) and myopia. Preventive interventions, including adjusting display settings, taking regular breaks, and using blue light-blocking filters, may help alleviate symptoms of digital eye strain and reduce the risk of long-term ocular complications. However, further research is</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>needed to better understand the mechanisms underlying the effects of electronic device usage on eye health and to develop evidence-based guidelines for promoting ocular wellness in the digital age. By raising awareness, implementing preventive measures, and advancing research efforts, we can empower individuals to</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			prioritize their ocular health and mitigate the adverse effects of electronic device usage on vision.
رنيم محمد م.	A Theoretical study of the effect of ultraviolet rays on the eye	Farah Raed Saeb Farah Hadi Falah Fatima Maitham Nimah Fatima Muayad Abdul-jabar Fatima Najm Abd Aoun	The transparent anterior segment of the human eye (cornea and lens), as well as neural retina, are the principal target of UV radiation for both acute and long-term exposure.

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>The histopathological changes increased alongwith irradiation intensity and UVB exposure. The injuries caused by UV irradiation to the cornea are named photokeratitis which is characterized by exfoliation of the corneal epithelium. Both the corneal epithelium and endothelium (which cannot regenerate) are vulnerable to</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>UV radiation. Increased UVB exposures go deeper through the corneal epithelial layer, causes damage to the antioxidant protective mechanism, resulting in injury to the cornea and other parts of the eye. The radiation that hits the lens is first filtered by the lens capsule and about ٦٠% of the radiation is transmitted by the</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>anterior capsule. The transmitted radiation induces apoptosis in the lens epithelial cells and thereafter the cortical fibers which contribute to the formation of lens cortical opacities, over time, the lens yellows and loses its transparency (cataract). Lens epithelial cells are responsible for maintaining</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>much of the homeostasis of the underlying fibers. Although the amount of UV radiation reaching the retina in the adult eye is very low (1% UV below ٣٤٠nm and ٢% between ٣٤٠-٣٦٠nm), much enough to degenerate outer nuclear layer area of the retina. Shorter wavelength light also is the most hazardous it is known to</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>generate reactive oxygen species in the retina.</p> <p>The photoreceptors and retinal pigment epithelium located in the posterior pole are particularly susceptible to this radiation. The retinal pigment epithelium is especially susceptible to oxidative stress because of its high light, oxygen</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			tension, fluorophore, and membrane lipid levels. The main aim of this review was to
فانز عريس ك.	<i>Study the effect of long duration of contact lenses as cosmetic features</i>	Elaf Yassin Mansour Aya Talal Nehme Iman Abbas Shaker Iman Hadi Mamdouh	This study the changes that occur on the ocular surface due to contact lenses and their degree of clinical importance are discussed .Significant research and development to improve oxygen

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>permeability in both hard and soft contact lenses has meant that in many countries the problems caused by hypoxia on the ocular surface have been largely eliminated .</p> <p>There are changes to lenses, design and wear tables over the past twenty-general leading to their safety and saw the development of lenses that can</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>reduce the development of myopia. However, there are still many changes on the eye surface and require more research effortx to improve the lens wear experience .</p> <p>Wearing lenses for a longer period than the recommended period or for a period longer than the eye can tolerate may cause eye redness, tearing, and</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>sensitivity to light. As for eye redness ( coloring of the white part of the eye), these symptoms often go away on their own within approximately one day.</p> <p>As for symptoms that last for more than Therefore, it may be a sign of infection. However, sometimes wearing contact lenses for a long period is</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>accompanied by long-term complications that may threaten vision or cause painful complications such as corneal ulcers due to infection with bacteria, viruses, or fungi that may destroy vision.</p> <p>Contact lenses also affect the eyes when a person swims or showers while wearing contact</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>lenses. The effect also applies to sleep.</p> <p>To avoid the effect of contact lenses, follow the ophthalmologist's instructions on caring for the lenses, as well as properly disinfecting them.</p> <p>If the person suffers from severe eye pain , excessive tearing, pain when exposed to light , vision changes, or eye</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			redness, the contact lenses must be removed immediately, and if he does not recover from the symptoms. Quickly , the person should contact an ophthalmologist.	
اميرن جهاد م.م.	The effect of the laser On the eye and skin	Maryam Jawad Kadhim Maryam Khader Swady Murtada Farhan Salman Murtada Abdullah Jawaid	Objective: Lasers can affect the eyes and skin in a variety of ways. It can help with problems such as correcting vision and	

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

		Maryam Hamza Nehme	<p>removing unwanted hair, but it can also cause irritation or burns if not used carefully. It is necessary to consult a specialist doctor before undergoing any laser procedure to ensure safety and achieve the desired results.</p> <p>Study design: We used SPSS statistics. ٢٠ questionnaire cases were collected from</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>private clinics. Work began from January ٢٠٢٤ until March ٢٠٢٤.</p> <p>Results: The age of the patients was ١٩-٧٥ years, of whom (٢٠%) were male and (٨٠%) females, most of them were urban residents and a very small percentage of residents, their</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>educational level was the majority of university students, a few of whom were from primary, secondary and postgraduate studies, (٥٠%) Among them were those who had a profession and (٥٠%) did not have a profession. The marital status was</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>that most of them were single and married. The majority noticed the effect of the laser in changing visual acuity after using the laser and those who suffered from the side effects of the laser, such as dryness or irritation in the eyes. Scars rarely appear. Or</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>signs or any side effects on the skin after using the laser. Most of those who used the laser in the questionnaire were satisfied with the results of the laser, and the effect of the laser on them was positive .</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

رزيق محمد عباس م.	The effect of smoking on the eye	Sara Hassan kadhim Sakena ali abd alhussein suha azhr sadiq Sajad khudair ashour zainab Abdul Mahdi kazem Samer ahmed hindal abdallha ali hussein	Smoking and tobacco use are among the most Important risks faced by the people of the Earth In all its categories, especially the youth and students, as it is considered one of the causes leading to death in addition to being one of the risk factors that lead to many other diseases. It is worth noting that the number of deaths resulting from smoking
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			Tobacco and smoking amounted to ٦ million people annually, subject to increase to (٨) million people annually by ٢٠٣٠.
بلاسم القرشي ح.	<i>Study the Congenital nasolacrimal duct obstruction of primary</i>	Masuma Aqeel Abd Al-adeam Maan Falah Abd Al-Aaly Muqtada Muaed Abd Al-Jaleel Malak Hussain Mohammad Ali	Congenital nasolacrimal duct obstruction (CNLDO) is a common condition causing excessive tearing or mucoid discharge from the eyes, due to

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

	<i>students in Al Najaf Province</i>	Manal Abd Gealan	blockage of the nasolacrimal duct system. Nasolacrimal duct obstruction affects as many as ٢٠% children aged <١ year worldwide and is often resolved without sur-gery. Available treatment options are conservative therapy, including observation, lacrimal sac massage and antibiotics, and invasive therapy. Observation,
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>combined with conservative options, seems to be the best option in infants aged &lt;1 year. Meanwhile, in children aged &gt;1 year, nasolacrimal probing successfully addresses most obstructions. However, the most favorable timing for probing remains controversial. To alleviate persistent epiphora and mucous drainage that is re-</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			fractory to probing, repeat probing, silicone tube intubation, balloon catheter dilation or dacryocystorhinostomy can be considered as available treatment options. Our review aims to provide an update to CNDO management protocols.	
حسنين جميل .م.م	Modern Techniques for	Murtada Ahmed Farhan	According to the World Health Organization, more than ٢,٢	

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

	the Treatment of Visual Defects	Murtada Sami Muhalhal Murtada Hussein Saleh Murtada Jouad Kazem Murtada Hamed Saeed	billion people worldwide suffer from poor vision or blindness, a large portion of which can be prevented or treated. The study aims to explore modern techniques for treating visual defects, including understanding techniques such as laser techniques and vision-improving techniques such as phacoemulsification. It also
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>seeks to evaluate the effectiveness of these techniques by comparing them and determining the best approach for each case, studying their side effects, and evaluating long-term results.</p> <p>In summary, the field of ophthalmology has witnessed significant advances in</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>techniques for treating refractive defects and eye diseases. These techniques include LASIK, Femto-Smile Pro, Femto-Smile, PRK, and Femto-LASIK, in addition to cataract removal. Patients who have undergone surgery using these techniques have experienced rapid and effective correction of</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>their vision with minimal damage and side effects.</p> <p>The surgical procedure takes approximately ١٥ to ٢٠ minutes, and Femto-Smile Pro is the fastest technique, taking only ٩ seconds to correct refractive errors.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

اهتنان محمد م.م.	Astigmatism in children between ٦-١٢ years	<ol style="list-style-type: none"><li>١. تارة فؤاد رحيم</li><li>٢. تبارك حازم تركي</li><li>٣. تبارك احمد مهنا</li><li>٤. ابراهيم عثمان محمد</li><li>٥. اسماء ناهي عثمان</li></ol> اللق عقيل علي	Astigmatism is arefractive error in which parallel rays of light when enter in non-accommodating eye are not focused on retina and theresulting image of both near and distance object is either elongated or broadened Astigmatism is one of the most common Refractive Errors, which is highly prevalent in
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>infancy (٩-١١) and quickly decreases with growth (١٢).uncorrected Astigmatism can lead to Amblyopia , and despite optical correction or Emmetropization,There are two types of Astigmatism,which are determined by the shape of the cornea: Irregular Astigmatism,And Regular Astigmatism. Astigmatism may</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>effect schooling among children. Astigmatism , considered to be one of a group of eye defects with certain sights,including Myopia and Hyperopia, known as Refractive Errors (R.E). Astigmatism is a correctable cause of visual impairment in childhood. It increases the incidence of Amblyopia in</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>children.uncorrected</p> <p>Astigmatism cannot bring visual stimuli in to focus by adjusting Accommodation or by changing the distance . In the absence of significant Myopia, young uncorrected Astigmatism can have clear visual input for all direction by bringing portion of the image in to focus. Astigmatism related Amblyopia</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>can be successfully treated with optical correction in children as old as school age, but the Amblyopia may not be completely eliminated with optical treatment alone. In addition, Astigmatism increases the incidence of Amblyopia in children, and even treatment results are affected by the type of Astigmatism. In current clinical</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>practice, Astigmatism -related Amblyopia in the absence of Anisometropia, strabismus, and other ocular abnormalities is treated by providing the individual with clear visual input through optical correction of the Astigmatism. Some cases of children aged ٦-١٢ years appear to suffer from Astigmatism and short-</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>sightedness (Myopia), and some cases appear to be Far-sighted (Hypermetropia) and do not suffer from other problems such as lazy eye (Amblyopia), Anisometropia between the eyes, or Strabismus (Squint). And some cases of children, Astigmatism, Nearsightedness (Myopia), Farsightedness</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>(Hypermetropia), and who suffer from other problems such as accommodative Esotropia , Anisometropia between the eyes, lazy eye (Amblyopia) in one or both eyes, or one eye is healthy and the other eye contains a Refractive Error Astigmatism .During the examination, we found that most cases of</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			children are positive Astigmatism due to the second form of the shunt prescription.
امتنان محمد جواد م.م.	Presbyopia In Najaf Al Ashraf	<p>١. -١- براق عبد الستار جبار</p> <p>٢. -٢- براء نهمان صالح</p> <p>٣. -٣- اياته كامل رزاق</p> <p>٤. -٤- بتول تحسين محمد</p>	Presbyopia is a condition associated with age, not aging, and as such develops with age. It is a physiological inevitability that leads to a loss of adaptive capacity during a certain period of life, where the individual reaches a point where near

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

		<p>٥. ٥- ايلانه مؤيد</p> <p>٦. ٦- ايلانه محمد</p> <p>٧- تبارك حسن</p>	<p>vision clarity cannot be maintained long enough to meet the individual's requirements, leading patients to seek treatment .</p> <p>The condition of presbyopia is the loss of elasticity and hardening of the lens, "optical defect of the lens during aging" or lens defect syndrome. This research</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			presents a discussion of presbyopia, its diagnosis and treatment for a group of patients, men and women in the governorate, and its impact on the individual and his routine.
حيدر عزيز علي ك.	Anatomy and physiology of lacrimal system	Zainab Ali Ahmed Zainab Khaled Khudair Zainab Ali Hatem Zainab Abbas Ali	The postero-superioly situated lacrimal glands secrete tears to lubricate the exposed sclera, limbus and cornea. The tear are



## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>ultimately are channeled into the antero-inferior sited lacrimal sac and thereby into the nasal inferior meatus. Epiphora may be secondary to irritative or obstructive pathology in the nasolacrimal system, individual with epiphora necessitates intervention, medical or surgical. The nasolacrimal</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			system with it's unique anatomy has been elaborated upon assist I detecting the precise site of pathology and plan management likewise.
حيدر عزيز علي ك.	Myopia in Children	Sajad Haider Nouri Sarah Sabah Abdel Amir Sarah Wissam Jassim Sajda Jabbar Hadi Saja Majid Saadoun	Myopia has been the topic of scientific study for more than ٤٠٠ years, but it is only more recently that it has been recognized as a serious public health issue, owing to its being a

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>significant cause of visual loss and a risk factor for a range of pathologic ocular conditions. Myopia is the inability to see distant objects clearly. Some children are born with progressive myopia, which means their vision may get worse over time if it is not corrected. Myopia can usually occur for</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>genetic reasons. however, environmental factors are effective in increasing myopia</p> <p>The usual goal of treating myopia focuses on improving vision by helping to focus light on the retina through the use of corrective lenses or refractive surgery.</p>	
دكتور عزيز علي د.		Saja Najm Abd-Ayoub Salam Nema	The eye and its adnexal structures are subject to a	

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

	<i>The effects of viral diseases on eye health</i>	Shaker Khalid Olla Shaheed	number of viral diseases. The initial chapter of this research discusses anatomic and physiological considerations of the eye and its principal clinical syndromes. then we give a general information about viruses and its structures. the second chapter of this study talked about the most common viruses that can affect the eye
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>and cause viral infection and discusses the eye's major viral diseases and there symptoms diagnostic and treatment of these viruses according to the previous studies , we also talked about some other less common viruses and their effects on the eye specifically . The latter part of this chapter was the practical part we went to several hospitals</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			searching for real cases of patients with viral ocular diseases and how a clinical diagnosis can be made, and the steps that can be taken to prevent and treat ocular viral infections in order to reduce eye disease and visual loss.	
دكتور عزيز علي ط.		Ahmed Hameed Shnan Hassan Salih Khudair	A smart contact lens can be used as an excellent interface	

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

	<i>The smart contact lens to measure the glucose blood sugar in Al-Najaf province / Iraq</i>	Osama Mohammed Kadhim Haider Abass Issa Zahra Yahya Eidan	between the human body and an electronic device for wearable healthcare applications. Despite wide investigations of smart contact lenses for diagnostic applications, there has been no report on electrically controlled drug delivery in combination with real-time biometric analysis. Here, we developed smart contact lenses for both	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>continuous glucose monitoring and treatment of diabetic retinopathy. The smart contact lens device, built on a biocompatible polymer, contains ultrathin, flexible electrical circuits and a microcontroller chip for real-time electrochemical biosensing, on-demand controlled drug delivery,</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>wireless power management, and data communication. In diabetic rabbit models, we could measure tear glucose levels to be validated by the conventional invasive blood glucose tests and trigger drugs to be released from reservoirs for treating diabetic retinopathy. Together, we successfully demonstrated the feasibility of smart contact</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			lenses for noninvasive and continuous diabetic diagnosis and diabetic retinopathy therapy.	
Dr. Isra Mohammed Riyadh Alhamdani	Ahmed Thamer Kamer Amna Samer Kareem	Prevalence of bacterial pathogens causing ocular infections in Najaf city	The study focuses on bacterial infections in ocular health, highlighting the prevalence of bacterial isolates in external	

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

	Ayat Raad Kamish Ayat Fadhel Himad Ayat Thaer Faisal Esra Rasul Abdul		ocular infections and their impact on patients. It emphasizes the importance of understanding antibiotic sensitivity and resistance patterns in treating ocular infections. Factors contributing to ocular infections include pathogen virulence, personal hygiene, living conditions, immune system status, surgery,
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>trauma, and systemic disorders. Resistant bacterial strains to antibiotics are a global concern in hospital settings</p> <p>Method The study aims to determine the prevalence of bacteria and their types in ophthalmic infections. Samples are collected</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>from patients with ophthalmic infection for analysis. Isolated bacteria are analyzed and their sensitivity to antibiotics is tested to determine optimal treatment.</p>	

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

حيدر عزيز علي د.	Abas Aqeel Rahim Shukran Ameen Jihad Fatima Ihsan Hadi Fatima Salem	The relationship between Intraocular pressure and glaucoma	Glaucoma is a common eye disease that can lead to irreversible blindness if left undiagnosed or untreated, It is a major cause of blindness, In most cases, symptoms of glaucoma in the early stage are minimal or absent, There are several different types of glaucoma, traditionally categorized into primary open-
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

	Abdel Sada Shahad Hussein Muham mad Shahad Wahed Kataf Zaid		angle glaucoma, primary angle-closure glaucoma, or secondary glaucoma, Secondary forms of glaucoma result from various ocular or systemic diseases. Elevated intraocular pressure (IOP) is often associated with glaucoma. IOP is created within the eye by the aqueous humor circulation system in the anterior segment, Aqueous
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

	Falih Hassan		humor is secreted into the posterior chamber, a process involving ultrafiltration from the open blood vessels followed by active secretion from the two layers of the ciliary body epithelium (non-pigmented inner epithelium and pigmented outer epithelium). The cause of increased IOP can be either an overproduction of aqueous
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>humor or a problem with its outflow, one such cause being angle closure, Aqueous humor is secreted via the trabecular meshwork and exits the eye either through the Schlemm's canal or the external outflow pathways, Numerous multicenter randomized trials have convincingly documented that elevated IOP is a major</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>modifiable risk factor for the onset and progression of glaucoma. The initial damage primarily affects the retinal ganglion cells, with the optic nerve head believed to be the site of initial damage. A characteristic feature of glaucoma is chronic and progressive optic neuropathy occurring concurrently with</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>typical structural changes in the optic nerve head as the nerve fibers exit the eye, The level of IOP, which is excessively high for optic nerve health, leads to chronic and progressive deformation of the optic nerve head, Treatment of glaucoma involves lowering intraocular pressure, Treatment options for patients with glaucoma include</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			medications, laser therapy, and surgical intervention, The risks and benefits of each treatment modality should be carefully weighed to maximize treatment benefits while minimizing adverse effects.	
احمد تازم د.	The Relationship Between	Zahraa Ali Omran Zahraa Aqeel Kareem	In this research, we studied “the relationship between Anisometropia and Amblyopia,” and we developed an	

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

	Anisometropia And Amblyopia	Zahraa Emad Abd Nahi Zahraa Abdul Kareem Raheem Zahraa Abdul Shaheed jabr	introduction to the research and then explained that Anisometropia is a disease that can occur from birth, although there are cases in which it arises during puberty. We provide you with all the information about this problem and we also provide cases about this problem for clarity, as well as for proportion and
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>comparison between it and amblyopia. As there is a close connection between one of them to the other in the sense that one of them is a multiple of the other and then explained a number of types of strabismus and gave each of them practical adequate information to be the basis for the field in the research. We have explained everything</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>related to amblyopia, including its causes, types, symptoms, diagnosis, and treatment .The mean age of presentation for anisometric, strabismus and mixed amblyopia was ٥,٦, ٣,٣ and ٤,٤ years respectively. Neither sex nor race affected the age of presentation. Despite their older age, children with pure anisometric amblyopia</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>had the best initial visual acuity, with ٢٥% of anisometropes having an initial visual acuity of less than ٦/١٨ compared with ٣٩% of strabismus and ٥٠% of mixed amblyopes. There were variations in the age and proportion of patients presenting with anisometric amblyopia at the different centers, suggesting a failure in</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>the referral of anisometropic amblyopia of importance in interpreting epidemiological studies .Anisometropia is a condition in which the refractive power of the two eyes is not equal, meaning that the patient has nearsightedness in one eye and hyperopia in the other. Then the visual cortex in the brain prevents the use of</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>both eyes at the same time, and instead the central vision focuses on one eye, which may ultimately lead to strabismus if the necessary medical measures are not taken to correct the range of vision. When we talk about a medical procedure, we mean refractive eye surgery followed by surgery to correct</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

				strabismus, each according to its degree.
مصطفى سالم د.	Study the effect of lead toxic on cataract	Ghadeer Hamid Hamza Rashid  Fatima Shahid Aboud Fatima Atiwi Hamza  Fatima Ali Jaber Duha Iyad Nasser	Hassan Fatima	Lead is one of the heavy metals that affects the organs and systems of the body, such as the brain, heart, bones, blood circulation, etc. It also plays a major role in its effect on the eye, as it is able to reach the lens of the eye, as it works to agglomerate the proteins

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

		Fatima Hussein Abd	present in it, thus negatively affecting normal vision. A theoretical study was conducted at the University Al-Furat Al-Awsat Technology During the period from November ٢٠٢٣ to February ٢٠٢٤, we concluded that people who are exposed to lead during their work, especially factory workers who use lead, expose their vision to danger.
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>We relied on a group of the first previous studies conducted in Boston in the United State, and the most important findings were that Accumulated exposure to lead is a risk factor for cataracts. The second study was conducted in Khartoum State in Sudan. It showed the effect of lead smoke and vapor after prolonged exposure to it,</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>as it made the lens unclear and reduces its transparency. As for the third study, it was conducted in Medina in Saudi Arabia. It concluded that chronic exposure to lead plays a role in A role in the development of cataracts. In addition to the three studies, a fourth study was added, which was conducted at Harvard University in the</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>United States and concluded that lead interacts with the proteins present in the lens in a way that causes a loss of the transparency of the lens. Therefore, all of these studies reached the same conclusion, which is that lead is toxic. It negatively affects the lens of the eye and causes the accumulation of proteins,</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			leading to what is called cataracts. Thus, the patient is forced to undergo surgery to improve vision and get rid of cataracts.	
رنيم محمد عباس م	Study the relationship between Cholesterol and eye problems	Sajjad Jassim Abed Zahraa Karim Madloul Zainab Talal Abd Al wahid Huda Jassim Abbas	Cholesterol is a fatty compound that is essential for various body functions. However, when cholesterol levels are excessively high in the blood, it can deposit	

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

		Zainab Talib Rahima Zainab Rahman Hadi Athraa Ayad Jasb	in the blood vessels and cause narrowing and blockage, affecting blood flow to different tissues, including the eye. This study was conducted at Al-Najaf Al-Ashraf Teaching Hospital and Al-Furat Al-Awsat Teaching Hospital. Samples were taken from ٢٨ individuals aged between ٣٠ and ٧٤ years.	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>Visual acuity was measured for both genders.</p> <p>The results showed that visual acuity improved as a result of various treatments, including surgical treatment for severe cases, medication such as statins to lower cholesterol levels, exercise, and quitting smoking. The effectiveness of the treatment and adherence to it, as</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			well as a healthy lifestyle, played a role in the improvement of visual acuity.
د. زينو محمد عباس م.	COMMON REFRACTIVE ERROR IN CHILDREN	Mohammad Salman sami salman Mohammad Ridah Muhammad latif Mohammad khadir Obeis Hassoun	The eye represents a complex organ composed of several interconnected parts that work together to achieve the function of vision. These main parts include the cornea, which acts as a lens to focus light onto the

## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

		Mohammad Ridah Bakhit Abd Mutashar Mohammad Abbas Hamza Dehaim	retina, the lens, which focuses light onto the retina, the vitreous body, which supports the shape of the eye, the retina, which contains light-sensitive cells that convert light into nerve signals, and the aqueous humor, which maintains pressure within the eye. Regarding refractive errors in the human eye in general, they
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>include myopia, resulting from the eye's inability to focus light properly onto the retina and instead focuses it before the retina, hyperopia, resulting from the focusing of light at a point behind the retina, causing light to fall on the retina before converging, and astigmatism, characterized by distortion in visual images due to light rays</p>
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>not converging at a single point within the eye.</p> <p>This study illustrates that common refractive errors in children's eyes primarily include astigmatism, hyperopia, and myopia. It appears that astigmatism is the most prevalent refractive error among children, followed by hyperopia and then myopia.</p>	
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## ملخص بحوث قسم فحص البصر للعام ٢٠٢٣-٢٠٢٤

			<p>Additionally, it is noted that most cases of astigmatism tend to be positive, leading in some instances to Amblyopia.</p> <p>These refractive errors affect children's visual acuity, which can impact their quality of life and academic performance. Therefore, early diagnosis and appropriate treatment of these errors are crucial for improving</p>
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