

Spotlight Feature: Dr. Hyung Cho

Locations and Insurances

THE NEWSLETTER OF

If Georgia Retina does not have your current email on file, please go to garetina.com/light-pipe-newsletter and fill out the form or call us at 404-255-9096.

practice patterns we have dearly missed. While safety remains

each other via in person interactions soon.

paramount at Georgia Retina, we are excited to hopefully see more of

As we get ready to head towards another Georgia Summer, we are proud to share this latest edition of the Georgia Retina LightPipe with

Letter from the Editor We hope this issue of the LightPipe finds you well. In 2021 we have seen a very pleasant return to some elements of our daily lives and

our dear colleagues and friends. Thank you as always for entrusting Georgia Retina with the retinal care of your patients. It is our privilege and honor to assist in the care for your patients. We always strive to Dr. Paul S. Walia provide outstanding retinal care to your patients.

Imaging Corner

Fluorescein Angiogram demonstrating

extensive nonperfusion of the retinal

vasculature



Fundus photo demonstrating neuroretinitis

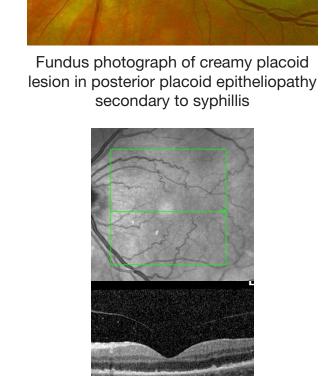
with macular star configuration and optic

nerve edema secondary to Bartonella infection

GEORGIA RETINA 1

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OCT showing other retinal excrescences

in posterior placoid epitheliopathy secondary to syphillis

The purpose of this article is to provide a brief overview of 2021 CMS coding and documentation changes. For specific details, please see the CMS guidelines themselves.

CMS has made significant changes in

both the documentation requirements and

reimbursement for Evaluation and Management

(E/M) codes. These changes were initiated in

on how we document patient encounters. For

many years, E/M documentation had focused

heavily on meeting a certain number of charted

elements in the history and exam portions of the

patient record. There have been several small

the new 2021 rules change the documentation

landscape entirely. If you are fond of corporate-

shift. Whereas the old focus was on bullet-point

speak, the new requirements are a paradigm

elements of history, physical exam, and care

Although the coding pathway that focuses

I will not cover time-based coding here.

on three elements—problems addressed,

data reviewed, and risk level. The problems

component is fairly straightforward, as CMS

on the total time spent in patient care may be

periodically utilized in eyecare, my impression is

that it will be rarely used. For the sake of brevity,

The requirements for E/M documentation hinge

refinements in the guidelines over time, but

January 2021 and have a significant impact

Fluorescein angiogram revealing diffuse late staining of posterior placoid epitheliopathy secondary to syphillis

> Fundus autofluorescence highlighting pisciform flecks in Stargardts Syndrome

Practice News: Coding and Documentation Changes the patient management directly with an external provider. The number of different data categories and elements determine the coding level. CMS' emphasis on notes from external care providers is of particular importance. What this means from a practical standpoint is that the availability of clinic notes or consult forms is now an even more essential component of care. Whereas previously, notes were important

for good care of patients, CMS now deems

them an essential part of coding requirements.

As such, we at Georgia Retina will continue to

keep you updated on your patients' care in a

regular fashion and to provide notes as quickly

and seamlessly as possible. The availability of

Ideally, records should be received prior to or

on the day of evaluation in order to meet CMS

information among practices is paramount.

that involve low risk of morbidity, for which

rudimentary treatment is needed, are considered

minimal to low risk. Moderate risk problems are

surgery, or elective major surgery. High risk level

those requiring prescription medication, minor

guidelines. Now, more than ever, sharing of clinic

your notes to us is of critical importance as well.

plan, emphasis now rests on medical decision The final element of medical decision making is making. CMS has eliminated history and exam Risk. CMS defines the risk levels as minimal, elements for code selection, and codes are low, moderate, and high. The risk that ocular chosen based on how treatment decisions are diseases carry plus the risk of comorbidities made or on total time involved in patient care. both contribute to overall risk level. Problems

deems that a provider has addressed a problem if a particular condition is being evaluated and treated at an encounter or if the problem requires scheduling, further testing, or treatment in the future. However, CMS does not deem a problem relevant if another provider is managing

the disease (e.g., POAG not being managed

by retina specialist) or if it is a problem that

is noted but not addressed in any way (e.g.,

dermatochalasis that is not mentioned by patient

and not addressed by provider). Furthermore,

E/M coding level is partially determined by whether the problems are chronic but stable, chronic with progression, or acute. The number of different problems and their nature help determine the coding level. The data reviewed component is arguably the most complicated and difficult element to meet. The data reviewed is deemed to exist in three categories: category 1, category 2, and category 3. Category 1 data can be notes from an external provider, test results from an external provider, information from the patient's family or caregiver, or information from your own testing. Category 2 data is composed of independent interpretations of tests that another provider ordered. Category 3 data is discussing

Georgia Retina has a long tradition of

commitment to and participation in clinical

trials in order to provide our patients access

therapeutic treatments. We partner with the

National Eye Institute, some of the nation's top

pharmaceutical companies, and other clinical

practices to explore the causes and cures for

We take special care to ensure that our study

This past year we have been active in twenty-

six clinical trials for wet age-related macular

patients experience the best medical care

to new, state-of-the-art preventative, or

many retinal conditions.

possible.

Wet AMD: Amgen Inc. 20170542, Sam Chun Dang Pharm SCD411-CP101, RIBOMIC USA Inc. **RBM-007-002 TOFU** Geographic Atrophy: Genentech GR40973 GAllego, Gyroscope Therapeutics GTSCOPE, Iveric Bio. ISEE2008 GATHER2, NGM Biopharmaceuticals NGM621-GA-201 CATALINA Diabetic Macular Edema: Alimera 01-20-005 The New Day, Roche GR40550 PAGODA Diabetic Retinopathy: Novo Nordisk NN9535-4352 FOCUS, Roche GR41675 PAVILION Branch Retinal Vein Occlusion: Roche GR41984 BALATON Central Retinal Vein Occlusion: Roche GR41986 COMINO

problems are those that require emergent major surgery or elective major surgery with significant co-existent risk factors. The combination of this risk level, along with the problems addressed and the amount of data reviewed, all combine to determine the final E/M code level. Keep in mind that the new documentation requirements apply only to Evaluation and Management (E/M) codes, not to Eye Codes. Proper documentation to meet the new coding requirements is essential from both an audit and reimbursement standpoint. Following the new guidelines will help ensure compliance in the event of an audit but will also ensure the maximization of the allowable reimbursement. CMS determines the reimbursement for a specific code based on two factors: the conversion factor (CF) and relative value units

(RVUs). The conversion factor affects all codes

code by code. As they do frequently, CMS has changed the conversion factor and RVUs for

2021. The overall trend is a slight reduction in

E/M codes, and established E/M codes are not

negatively affected. Knowing the rule changes

and payment changes places you in a position

to safely and appropriately maximize your

reimbursement.

reimbursement for all Eye Codes and for new

in medicine equally, but the RVUs change

Clinical Trial Update degeneration, geographic atrophy, secondary to dry age-related macular degeneration, retinal vein occlusion, diabetic macular edema, and non-proliferative diabetic retinopathy. We hope that as you consider where to refer your patients for retinal care, you will keep in mind that Georgia Retina not only provides exceptional care but can also offer your patients the opportunity to enroll in clinical trials, thereby offering them new vision saving treatments. If you have any questions about whether your patient might be eligible to participate in one of our ongoing clinical trials, please call any one of our doctors or contact our Clinical Research Director, Leslie Marcus (Imarcus@garetina.com). **Current Recruiting Clinical Trials:**

Clinical Care Discussion: COVID-19 Retinal Manifestations: Acute Macular Neuroretinopathy by Dr Rahul Komati

The COVID-19 global pandemic has had a dramatic impact on our lives over the past year, both personally and professionally. Many questions have arisen since the severe acute respiratory syndrome coronavirus 2 (SARS-CoV2) was first identified in December 2019. One at the forefront of our minds has been how this disease can present in our patients. Early in the pandemic, the primary concern involved ocular surface manifestations and the spread

of viral particles through ocular secretions.

This led to the widespread adoption of eye

protection, slit-lamp shields, and additional

including 8,219 COVID patients, showed a

practices. Indeed, a meta-analysis of 38 studies,

prevalence of ocular symptoms to be 11%, with

the most common disease being conjunctivitis

(88%).1 The most common symptoms were foreign body sensation, redness, and tearing,

with examination often revealing follicular

conjunctivitis, conjunctival hyperemia, and

or sole manifestation of the disease.

chemosis. These symptoms more commonly

Over time, there have been many additional reports of COVID-19 ocular complications due

to the vascular, inflammatory, and neuronal

ophthalmic manifestations include optic

remained stable.

changes triggered by the viral infection. Neuro-

affected patients with severe systemic symptoms

of COVID-19, but they could present as the initial

sterilization procedures employed in our

of COVID-19, as evidenced by elevated D-dimer, prothrombin time, activate partial thromboplastin time, and fibrinogen. Additionally, intermittent hypoxia can induce endothelial cells to release tissue factor and cytokines that trigger the

Additional case reports have identified acute

macular neuroretinopathy (AMN) and paracentral

acute middle maculopathy (PAMM) following or concurrent with COVID-19 diagnosis. We have

seen several patients in our practice with similar findings, and the remainder of this discussion will

coagulation cascade.

highlight these cases.

Patient 1 is a 22-year-old female with a history of Type 1 diabetes and depression who noted sudden visual symptoms one day before COVID related symptoms in December 2020. She

described upside-down triangular shape scotomas and photopsias in both eyes that had been stationery and constant since her illness. When she presented to our clinic to see Dr. Sean Koh in January 2021, her visual acuity was 20/20 OD, 20/25 OS with the OCT findings below. Infrared

reflectance images show prominent dark petaloid lesions surrounding the fovea in both eyes,

corresponding with areas of inner and outer segment photoreceptor (ellipsoid zone) disruption and outer nuclear layer thinning on the OCT (green arrows). Repeat OCT scans 2 months later (images on the right) show only a slight reduction in these findings. Her visual acuity and symptoms have

neuritis, Adie's tonic pupil, papilledema, cranial neuropathies, and an increased incidence of

stroke. Children can present with a Kawasaki-like

picture with conjunctival injection and iritis due

to multisystem inflammatory syndrome (MIS-C).

In regard to the posterior segment, COVID-19

has been associated with retinal microvascular

alterations, including retinal hemorrhages, cotton wool spots, dilated veins, and tortuous vessels.2

There has even been a direct correlation between

Central retinal vein occlusions (CRVO) have been

theorized to be a result of the procoagulant state

frequently reported in patients without typical

risk factors of hypertension, diabetes, obesity, and dyslipidemia. Some cases of CRAO have

been reported as well.4 These findings are

retinal vein diameter and disease severity.3

Patient 2 is a 32-year-old female with no significant medical history who presented to see Dr. Hyung Cho in January 2021 with a dark spot in her left eye that had been present for 2 months. Further questioning revealed she had been diagnosed with COVID at approximately the same time as her symptom onset. Visual acuity was 20/20 OU. OCT infrared images show similar small petaloid hyporeflective lesions in the right eye and a more diffuse, confluent affected area in the left eye, correlating with inner and outer segment photoreceptor disruption (green arrows). Optos color fundus photos show a reddish-brown hyperpigmented appearance in these areas, while this remains completely silent on fluorescein angiography.

Patient 3 is a 64-year-old female with a past medical history of Type 2 diabetes and hypertension who presented to see me in January 2021 with a seed shaped scotoma in the right eye and 20/20 acuity. She had a COVID infection in October 2020, but she noted the scotoma approximately 8 weeks after her COVID symptoms had resolved. OCT infrared images show a single hyporeflective ovoid lesion corresponding with ellipsoid zone attenuation (green arrows). Two months later (bottom

OCT), the area appeared slightly larger with more diffuse borders, but the patient felt subjectively healthier. Fundus autofluorescence shows relative hyperautofluorescence in this area (asterisk).

Acute macular neuroretinopathy is a rare the intermediate and deep capillary plexuses, retinal disorder typically characterized by the primarily involving the inner nuclear and outer sudden onset of paracentral scotomas and plexiform layers on OCT. Thus, it affects the corresponding wedge-shaped reddish-brown middle layers of the macula as opposed to the lesions that point towards the fovea. Typically, outer retinal layers in AMN. OCT angiography the disease occurs in young healthy females has been helpful in highlighting these distinct and can be unilateral or bilateral. Ischemia capillary plexus abnormalities in both conditions. of the deep capillary plexus is thought to be PAMM can be an indicator of underlying responsible, but, nearly half the time, AMN retinal vascular disorders and can warrant a hypercoagulable workup. is associated with a preceding respiratory or influenza-like illness.5 The pathophysiology Both AMN and PAMM have recently been reported for the deep capillary plexus insult is unknown in the literature associated with COVID infection. but may involve immune complex-mediated There have been multiple hypotheses related to mechanisms. the hypercoagulable state in the setting of COVID. In one patient with PAMM, elevated D-dimer levels On OCT, AMN presents acutely with outer plexiform and outer nuclear layer hyperreflectivity. were present and thought to create a thrombotic However, as seen in our patients, the hallmark milieu.7 SARS-CoV2 viral infection has also long-term changes are outer nuclear thinning been shown to cause endotheliopathy. This may

> predispose patients to a greater degree of ischemia and explain atypical, larger AMN lesions such as

that seen in the left eye of Patient 2. Additionally,

demonstrated that patients who recovered from

COVID had significantly lower vessel density in the

superficial and deep retinal capillary plexuses on

OCT angiography.8 These alterations in the retinal

microvasculature may predispose patients to AMN

Reviewing these cases and their associations with

COVID-19 can help us gain insight as we see more

and other conditions with long-term sequelae.

patients in this pandemic era.

a recent observational case-control study

and dark lesions on infrared reflectance that

Abnormalities on autofluorescence may or may

not be present, depending on the degree of retinal

pigment epithelium involvement. These structural

abnormalities and functional deficits can be seen

initial episode.6 In our patients, the scotomata had

been relatively persistent at 2 months of follow-up.

A similar entity to AMN that is worth discussing

is PAMM. It is characterized by ischemia of

long-term, persisting up to 14 months after the

correspond to focal disruption of the outer segments and retinal pigment epithelium.

Dr. Hyung Cho LightPipe: Why did you decide to go into retina?

I am the first physician in my family, and, when I decided on ophthalmology, I chose

retina because it was the most fascinating and

complex of all the different eye specialties. You also get to form long-term relationships with

patients and have the unique opportunity to

LightPipe: How did you end up at Georgia

else. But, when I interviewed here almost ten years ago, I immediately knew this is where I belonged. The doctors here are an eclectic

to find another practice that works as well as we do. I am so glad I took the leap of faith by

and a privilege.

moving to Georgia.

Retina?

LightPipe: What do you do in your spare time? What spare time?! I have three young kids that take up most of my time. Before kids, I liked to play all sports, especially tennis, golf, and snowboarding. I also play the viola and enjoy dancing. Now, most of my extracurricular activities incorporate my kids such as bike riding, swimming, and playing hide and go seek.

over 15 years due to my busy schedule. preserve the gift of sight which is truly an honor I'm from the Northeast and did all my education/ training there and had no desire to live anywhere bunch, but I fit right in. You will be hard-pressed

LightPipe: What are some changes you have seen during practice?

The evolution of treatments in both macular

degeneration and diabetic retinopathy has

or retard blindness. Now, we can potentially

reverse severity and improve vision in a lot of

our patients with anti-VEGF agents. Our field is unique in the ever-advancing technologies and

been amazing. In the past, we hoped to prevent

We went on two trips this year. Rosemary Beach and Disney World. With little ones, road trips are

are older, I would like to take them to visit Korea. That's where I was born, but I haven't visited in

pretty much all we can handle. When my kids

Macon

Gainesville (Now Open) Conyers Marietta 2395 Wall St 1488 Jesse Jewell Pkwy 833 Campbell Hill St #280 Suite 200 Suite 300 Conyers, GA 30013 Gainesville, GA 30501 Marietta, GA 30060 Phone: 678-374-7050 Phone: 678-317-0326 Phone: 770-218-1888 Gwinnett (Lawrenceville) Northside (Atlanta) Cumming 990 Sanders Rd 575 Professional Dr 1100 Johnson Ferry Rd NE Suite 100 Building 2, Suite 593 Suite 330 Lawrenceville, GA 30046 Cumming, GA 30041

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Spotlight with a Georgia Retina Doctor: This edition we were fortunate to get Dr. Hyung Cho to sit down and share some of his insight with us. Dr. Cho is an extremely talented surgeon who always shares his techniques and tips with the group. He also provides essential services to our communities with screening and treatment of premature babies at several NICU hospital in the area. We are appreciative to have him as a mentor. Additionally, he has a tremendous knowledge of pop culture and a wealth of parenting tips, so he is our go-to reference for many things outside of work! Dr. Cho practices in the Stockbridge, Conyers, and Gwinnett offices. LightPipe: Where was your last vacation?

Cartersville

Douglasville Suite B-202

treatments, and it's really an exciting time to be a retina specialist! LightPipe: What advice would you give to younger doctors who are embarking on their careers? It's simple. You always want to do what's best for your patients, and success will naturally come. And, in order to do so, you have to take good care of yourself. Make sure you take time off, spend quality time with your family, and do things that you enjoy! Thank you for reading our Summer 2021 Light Pipe Newsletter! If you have time, please take a moment to answer a few questions about this year's publication. By doing so, you're helping Georgia Retina become an even better practice. Click here to begin: https://bit.ly/3xnbNwX

Our Physicians: Michael S. Jacobson, M.D. | Scott I. Lampert, M.D. | Jay B. Stallman, M.D. | Mark J. Rivellese, M.D. | Sean S. Koh, M.D. | Atul Sharma, M.D. Robert A. Stoltz, M.D., Ph. D. | John J. Miller, M.D. | Stephanie L. Vanderveldt, M.D. | Hyung Cho, M.D. | S. Krishna Mukkamala, M.D. David S. Chin Yee, M.D. | Harpreet "Paul" S. Walia, M.D. | Yogin Patel M.D. | Gregory D. Lee, M.D. | Ella H. Leung, M.D. | Rahul Komati M.D. 6095 Professional Pkwy 100 Market Pl Boulevard Suite 304 Cartersville, GA 30121 Douglasville, GA 30134 Phone: 470-274-2030 Phone: 678-303-0136

Phone: 678-679-4830

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Phone: 770-907-9400 Tucker 1462 Montreal Rd W Suite 412 Tucker, GA 30084 Phone: 404-255-9096 Phone: 404-299-5209 Medical Resource Network Medicare Medicare Railroad Multiplan PPO WellCare Medicare HMO (678) 826-4620

Peachtree City 6055 Lakeside Commons Dr 403 Westpark Ct Suite 310 Suite 110 Macon, GA 31210 Peachtree City, GA 30269 Phone: 478-238-9733 Phone: 770-486-5349 Stockbridge 175 Country Club Dr Bldg. 300, Suite D Stockbridge, GA 30281 Sandy Springs, GA 30342 Phone: 678-405-0922