#### THE FUTURE OF **S 1 O 1 D E D D D E D D D E D D D E D D D E D D D E D D D E D D D E D D D E D D D E D D D E D D D E D D D E D E D D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E D E**

University of California, San Francisco | Department of Ophthalmology | Francis I. Proctor Foundation | That Man May See



Using a special attachment, a field technician turns his smartphone into an optical camera.

## Log-On: The Doctor Will See You Now

### Telemedicine: The use of technology to connect patients and healthcare providers who cannot interact in person.

The concept of today's telemedicine goes back to the 1950s. Originally used to link rural patients with medical staff in more centralized locations, the COVID-19 pandemic of 2020 has brought the clinic into everyone's home. But even before shelteringin-place, UCSF doctors have been using and refining telemedicine from the Tenderloin to Thailand.

### San Francisco Diabetes and Glaucoma Mobile Screenings

The prevalence of diabetes is growing, both in the United States and worldwide. As a result, the frequency of diabetic retinopathy (DR) and visionthreatening diabetic retinopathy (VTDR) is also expected to increase dramatically.

Individuals with Type 1 diabetes should have annual screenings for DR beginning five years after the onset of their disease. Those with Type 2 diabetes need a prompt examination at the time of diagnosis and at least yearly examinations thereafter. However, only about 60% of those with either form of diabetes currently have yearly screenings.

Continued on page 2







Serving San Francisco's Homeless

New State-of-the-Art Vision Facility

Eye Injuries During Protests

A PEEK INSIDE:

Eyes of Amhara on Amazon Prime



### FOCAL POINT

### Dear Friends,

This issue of **Vision** comes with our thoughts of your continued health and safety.

Although the pandemic delayed construction, the Department of Ophthalmology and Francis I. Proctor Foundation have moved into the Wayne and Gladys Valley Center for Vision. This state-ofthe-art facility brings together patient care, research, and education aimed at overcoming visual impairment and blindness.

There is no better time to focus attention on telemedicine, as our ophthalmologists extend their reach and care in telehealth services.

Our alumni continue to achieve global acclaim. Among so many, we are proud of David Chang, MD, who leads here and abroad. Faculty continue to advance UCSF's contributions to visual improvement worldwide.

In challenging times, your support makes a real difference, now more than ever. The future holds great promise, and your loyalty to our cause is what empowers us to move critically important research forward, providing hope that, one day, all may see. Thank you.

Sincerely,

**Stephen D. McLeod, MD** Theresa M. and Wayne M. Caygill, MD, Distinguished Professor and Chair

### The Doctor Will See You Now

Continued from page 1

### Enter the Eye Van

Gifts from the Friends of the Congressional Glaucoma Caucus Foundation, the San Francisco Health Plan, and That Man May See allowed purchase of a van in 2004 that is used by a collaboration of UCSF, San Francisco General Hospital (now Zuckerberg San Francisco General Hospital or ZSFGH), and the San Francisco Community Health Network (CHN). This van provides mobile eye care as well as glaucoma and retinal screenings for San Francisco's underserved population.

With funding from the city and county of San Francisco, grants from the state of California, UCSF, and ZSFGH, and the teamwork of UCSF Retina faculty **Armin Afshar, MD, MBA,** Director of Tele-Ophthalmology for the San Francisco Department of Public Health, and **Jay Stewart, MD,** Chief of Ophthalmology at ZSFGH, the 28-foot Eye Van was refurbished in 2017. This allowed a state-of-the-art ultra-widefield fundus camera to be mounted inside. This camera captures images of the back portion of the eye: the retina, macula, fovea, optic disc, and posterior pole.

### **How It Works**

With a technician, the Eye Van is sent on a rotational schedule to primary care clinics in areas of need throughout San Francisco. Additional retinal cameras in four community health center primary clinic locations in the city allow patients to receive diabetic retinal screenings at the same time and location as their physician visits.

Dubbed the "ZSFGH Eye Clinic on Wheels," the van connects to Wi-Fi at each primary care health center as it arrives. The patient's electronic health record is accessible from an on-board computer and demographic/ clinical information is collected at the time of the screening.

Retinal images are taken without the need for dilating eye drops, then uploaded wirelessly to the server. These photographs are transmitted to a reading center at ZSFGH where they are graded by trained readers for diabetic retinopathy (DR) and other sight-threatening diseases, such as glaucoma and cataracts. If potential eye issues are identified, the patient is referred to the ZSFGH ophthalmology clinic.

### Analyzing the Impact

In an article published in *Ophthalmology Retina* in 2019, the Proctor Foundation's **Catherine Oldenburg, ScD, MPH,** joined Drs. Afshar and Stewart in reporting on initial results of the ZSFGH tele-retinal screening program. A total of 2,788 patients were screened in the diverse urban population of San Francisco, which included the underserved, the disabled, the homeless, and the prison population.

### **Beyond the Eye Van**

A \$51,000 UCSF President's Innovation Fund Award to optimize screening for pediatric diabetic retinopathy with a telemedicine screening program was given to Pediatric Endocrinology Fellow **Fatema Abdulhussein, MD**, in collaboration with UCSF Pediatric Ophthalmology Director **Alejandra de Alba Campomanes, MD, MPH**, resident **Murtaza Saifee, MD**, and Dr. Afshar.

The award covers the purchase of an ultra-widefield retinal camera for the UCSF Madison Pediatric Diabetes Clinic at Mission Bay, so that children with the disease can conveniently have retinal photographs taken during their endocrinology visits. These images are then transmitted to UCSF ophthalmology faculty for screening for diabetic eye disease.

### Thailand Diagnosis Beyond the Clinic

In the city of Chiang Mai, Thailand, Francis I. Proctor Foundation's **Jeremy Keenan, MD, MPH,** researched the use of telemedicine for diagnosing cytomegalovirus (CMV) retinitis, a potentially blinding complication from acquired immunodeficiency syndrome (AIDS). Because people are unlikely to see an ophthalmologist before vision loss has already begun to occur, CMV retinitis is often not caught at an early phase.



Optical camera device, developed by a team including UCSF's Tyson Kim, MD, PhD, and Jeremy Keenan, MD, MPH, attaches to a smartphone for easy, in-field data gathering.

The Eye Van: UCSF's ophthalmology mobile diagnostic clinic

The Doctor Will See You Now Continued from page 2

Telemedicine is now providing far more opportunities to save vision. Portable retinal cameras capture an image of a patient's eyes and are sent electronically to remote retinal specialists to determine whether there is development of CMV retinitis. In Thailand, ophthalmologists and health care providers are a scarce resource, so being able to prioritize their time by having non-medical photographers assist with the detection process makes a huge impact. Additionally, this expands the number of individuals who can be screened since the photographer can easily travel to take the photos.

### **Ever Improving**

Dr. Keenan is working with **Daniel Fletcher**, **PhD**, of UC Berkeley, and **Todd Margolis**, **MD**, **PhD**, of Washington University, to develop an attachment to convert a smartphone into a retinal camera and anterior segment camera, offering a cost-effective approach to screening in resource-limited settings. Masters students in the Berkeley bioengineering program have been vital to this project. Supporting more students to work with the team is the next step in the process of creating an improved telemedicine option.

### **A Broader Impact**

The COVID-19 pandemic has highlighted the need for telemedicine like never before, and it is especially important in areas like Thailand, where medical resources can be sparse. As Dr. Keenan's team is currently engaged in more hospital-based work, the goal is to include more communitybased service. The addition of another retinal camera will allow for more diagnoses to be made while the handheld retinal camera is still in development.

With initial seed funding from That Man May See, the impact of research like Dr. Keenan's has given a second chance at sight for those who might not have otherwise been diagnosed in time.

### **Looking Forward**

Telemedicine makes it easier for patients to receive high-quality ophthalmic care regardless of their location. It also enables health care providers to offer services to broader, more diverse patient populations. The future will bring patient and provider closer together, no matter how far apart geographically.

## Serving San Francisco's Homeless



Pre-COVID-19, Neeti Parikh, MD, (right) coordinates patient information with volunteer Sarah Menchaca.

By the Numbers:

**145** Patients have received care

**81** Referrals for free eyeglasses

**38** Referrals for further care Help is Needed to Shift to Telehealth

People without secure housing represent one of society's most vulnerable populations. While the overall ocular health status and needs of the homeless are not fully understood, poor visual acuity has been correlated with reduced well-being and could pose cascading health implications.

Thanks to The California Endowment and That Man May See, UCSF Ophthalmology opened a monthly shelter clinic in 2017. With a volunteer staff of medical students and residents overseen by UCSF ophthalmology faculty, the program serves patients at San Francisco's Multi-Service Center South and Division Circle Navigation Center homeless shelters.

Services range from ophthalmologic screening exams and follow-up care to free eyeglasses (through Project Homeless Connect).

"Unfortunately, the pandemic had a tremendous impact on clinic operations" said **Alejandra de Alba Campomanes**,

**MD, MPH,** UCSF faculty lead for the clinic. "While our team has not been able to care for patients in-person since March, we are working with the San Francisco Department of Public Health nurses at the homeless shelters to begin telemedicine visits and streamline a referral process for shelter residents."

To be able to provide needed telehealth services, the clinic is seeking a specialized camera designed to obtain detailed images of the eyes of patients with possible diabetic retinopathy, while also screening for other sightthreatening conditions. Funds are also needed for UCSF staff to develop a monitoring and training program. This program would provide basic training in eye examination for the public health nurses that have in-person access to this high-risk population. These efforts will help identify patients who warrant referral for advanced ophthalmologic care. 📀

Help UCSF Ophthalmology shift to telehealth services to resume serving these patients: www.thatmanmaysee.org/donate

## Alumni Highlight



### David F. Chang, MD, World-Renowned Cataract Surgeon

UCSF ophthalmology alumnus **David F. Chang, MD,** has one of the most recognizable names in cataract surgery, thanks to scores of lectures and peer-reviewed papers. He is the recipient of some of the most prestigious international awards in his field. Dr. Chang is one of the few Americans to receive the European Society of Cataract and Refractive Surgery's Ridley Medal, as well as being voted by the international readership of *The Ophthalmologist* as one of the five most influential ophthalmologists in the world. However, he believes one of his most important professional legacies will be his commitment to resident education at UCSF.

Upon graduating from Harvard Medical School, Dr. Chang was attracted to the UCSF residency program because of its academic excellence and the priority given to resident training. He attributes his professional success to that training and mentorship from both the fulltime and volunteer clinical faculty.

However, his proudest achievement is in giving back to the department

## More Than Meets the Eye

More Than Meets the Eye is a new, ongoing column in Vision magazine. It will highlight UCSF Ophthalmology faculty research that has implications that reach beyond the eye — not only to the brain, but diseases that affect the entire human body. This essential research holds profound promise to change the lives of patients suffering from neurodegenerative diseases worldwide.

### ALS, Dementia, Glaucoma: A Genetic Link

**Erik M. Ullian, PhD,** is a UCSF neurobiologist and principal investigator seeking to understand the genetic mechanisms underlying neurodegenerative diseases (the degeneration or death of nerve cells, causing debilitating conditions).

Dr. Ullian first became interested in this area through studies indicating a mysterious genetic link connecting a specific group of genes to both glaucoma and the neurodegenerative diseases of amyotrophic lateral sclerosis (ALS) and frontotemporal dementia (FTD). Strangely, some cases showed the loss of function of a specific gene is implicated in ALS but the *gain* of function of the same gene is implicated in glaucoma. This suggests that the genes may have different relative functional roles in some cell types, or that some cell types have different sensitivities to the functions of these genes.

throughout his 36 years in private practice, his way of honoring the "pay it forward" tradition of volunteer clinical faculty in ophthalmology at UCSF. Most recently, Dr. Chang is inspiring future generations of ophthalmologists with his generous lead philanthropic contributions to resident education through two endowed lectureships, as well as a dedicated resident teaching space in the new Wayne and Gladys Valley Center for Vision at Mission Bay.

His contributions to resident education have been recognized with the highest clinical faculty honor given by the UCSF School of Medicine: The Charlotte Baer Memorial award for distinguished service by volunteer faculty. This award has been bestowed upon an ophthalmologist only two other times since its inception 41 years ago.  $\textcircled{\cite{clinet}}$ 

Utilizing novel Clustered Regularly Interspaced Short Palindromic Repeats (CRISPR) approaches, Dr. Ullian seeks to understand how this group of genes function in both the central nervous system and in the retina – and why their dysfunction can lead to cell death. Understanding this could unravel the mystery of these genetic celltype susceptibilities that can lead to either ALS or glaucoma or, in some cases, both.

In addition, Dr. Ullian has developed complex 3D models showing a remarkable ability to reproduce many of the hallmarks of neurodegeneration currently missing from animal models. The hope is to use these models as a platform for drug screening, finding new therapeutic strategies to target disease. This approach is attracting the attention of industry, inspiring speedy drug discovery to bona fide treatments.

## Looking Forward to 2021



The Wayne and Gladys Valley Center for Vision opens at Mission Bay this fall.

### **New State-of-the-Art Facility**

The Wayne and Gladys Valley Center for Vision in Mission Bay, incorporating the Koret Vision Clinics and the Francis I. Proctor Foundation Clinic, is now open and seeing patients. Although delayed by the COVID-19 pandemic, this cutting-edge facility brings the UCSF Ophthalmology community together in one space for the first time, allowing enhanced collaboration in patient care, research, and education.

### New Year, New Look for Vision

In 2021, That Man May See will launch a new website and introduce a new, digital magazine format of *Vision*. We hope to provide an enjoyable and accessible experience for everyone and we are excited about these upcoming transitions.

### Are you a patient?

The ophthalmology and optometry practices started seeing patients in our new facility in early November. Appointments can be made at 415.353.2800.

### Resident Class of 2024



Tessnim Ahmad, MD MD: UCSF Internship: UCSF College: Weber State University (Psychology) Birthplace: Utah



Alice Jiang, MD, MS MD: Case Western University Internship: UCSF College: Johns Hopkins University (Molecular and Cellular Biology) Birthplace: Canada





Jacob Lifton, MD MD: University of Southern California Internship: UCSF College: Cornell University (Spanish) Birthplace: Arizona

Paul Micevych, MD MD: Northwestern University Internship: UCSF College: Washington University (Neuroscience) Birthplace: Minnesota



That Man May See at 50

That Man May See's 50th year

of supporting patients, clinical

scientists, and researchers in the fight

against blindness is in 2021. This

work is accomplished through the

generosity of donors like you and

incredible achievement with you.

we are thrilled to celebrate this

Stephanie Yi Zhang, MD MD: Northwestern University Internship: UCSF College: Johns Hopkins

University Birthplace: China

## New UC President: An Old Friend of UCSF

### **DID YOU KNOW?**

## Dr. Drake was on the faculty of UCSF's Department of Ophthalmology for over 20 years.

Michael V. Drake, MD, has been selected as the 21st president of the University of California (UC) world-renowned system of ten campuses, five medical centers, three nationally-affiliated labs, more than 280,000 students and 230,000 faculty and staff. He is the first person of color to serve as UC President in the system's 152-year history.

With a long and distinguished career in higher education, Dr. Drake most recently served as president of Ohio State University (OSU) since 2014. Prior to his six years at OSU, his entire academic career has been at UC, including as chancellor of UC Irvine from 2005 to 2014 and as the systemwide vice president for Health Affairs from 2000 to 2005.

His appointment is especially exciting as Dr. Drake is a longtime UCSF colleague. He received his medical degree is from UCSF, did his residency and fellowship in ophthalmology here, and subsequently spent more than two decades on the faculty of the UCSF School of Medicine, including as the Steven P. Shearing Professor of Ophthalmology. He was also Vice Chair of the Department of Ophthalmology and Senior Associate Dean for Admissions and Extramural Academic Programs in the School of Medicine.

Under his leadership as Chancellor, Dr. Drake greatly enhanced UC Irvine's reputation as a premier university. UC Irvine rose to join the Top 10 Public Universities in U.S. News & World Report's annual list and was ranked by *Times* Higher Education as the No. 1 university in the US under 50 years old. During his tenure, the fouryear graduation rate increased by more than 18 percent, while undergraduate enrollment and diversity significantly increased. In addition, Dr. Drake oversaw the establishment of new schools of law and education as well as programs in public health.



He has published numerous scientific articles and co-authored six textbooks. Dr. Drake is a member of several national scientific and scholarly societies including the American Academy of Arts and Sciences, the Institute of Medicine, and the National Academies of Science. He has received several awards for teaching, public service, mentoring, and research.

Dr. Drake and his wife, Brenda, have two grown sons and four grandchildren.  $\bigcirc$ 

### Clinical Fellows of 2020





Davin Ashraf, MD Oculoplastic Surgery MD: University of California, Los Angeles Residency: UCSF Fellowship: UCSF (Oculoplastics) Birthplace: California

Amit Reddy, MD Uveitis MD: University of Iowa Residency: University of Colorado Birthplace: New Jersey





Jing (Meghan) Shan, MD, PhD Glaucoma MD: Harvard University Residency: University of Southern California, Roski Eye Institute Birthplace: China

Miel Sundararajan, MD Cornea MD: Baylor University Residency: New York Eye and Ear Infirmary of Mount Sinai Hospital Fellowship: UCSF (Uveitis) Birthplace: Cuba





Amol Sura, MD Uveitis MD: Louisiana State University Residency: University of Alabama, Birmingham Birthplace: Louisiana

Youning Zhang, MD Vitreoretinal Surgery MD: University of Southern California Residency: University of Southern California, Roski Eye Institute Birthplace: China

## Faculty News

### Increasing Eye Injuries during Social Justice Marches

The upcoming issue of *Ophthalmology*, internationally recognized journal of the American Academy of Ophthalmology (AAO), will include a research article from specialists in the Department of Ophthalmology and Francis I. Proctor Foundation at UCSF including Julie Schallhorn, MD; Saras Ramanathan, MD; Julius Oatts, MD; Alejandra G. de Alba Campomanes MD; and Gerami Seitzman, MD.

A collaborative project of UCSF faculty with the University of Southern California (USC) and the AAO, the article captures the scope of eye trauma related to civil protests and the use of force as dispersal techniques.

During protests in the United States in the late spring of 2020, law enforcement agencies across the country utilized tear gas, pepper spray, batons, shields, and rubber bullets. Concern has been raised by protestors, activists, and health care organizations over the use of these devices, especially during peaceful protests. Rubber bullets have been associated with ocular trauma and subsequent vision loss.

The study identified 30 cases of ocular injuries during the protests, with 27% suffering a ruptured globe, 23% with an orbital fracture, 20% with a resultant macular hole, and 33% with permanent blindness in the involved eye.

In one large review, 2.7% of those struck by rubber bullets subsequently died from their injuries, with 15.1% developing a permanent disability. Reports from the news media from Chile, Venezuela, Hong Kong, and the United States recount the loss of sight in one or both eyes due to rubber bullets used against both protestors and journalists.



October 2020 issue of the journal of the American Academy of Ophthalmology. www.aaojournal.org.

### Kubber bullets have been associated with ocular trauma and subsequent vision loss.



LaToya Ratlieff, 34 Fractured skull and orbital bones



Adam Keup, 23 Vision-threatening bleeding



Russell Strong, 35 Lost an eye

**VISION** is produced by **That Man May See**, a 501(c)3 public charity. Its mission is to raise funds for the dedicated faculty of UCSF Ophthalmology to make possible breakthroughs in vision research, state-of-the-art patient care, educational opportunities for residents and fellows, and community service.

That Man May See, 490 Illinois Street, UCSF Box 0352, San Francisco, CA 94158 | tmms@vision.ucsf.edu

## Faculty News



### Oral Metformin Use and Age-Related Macular Degeneration (AMD)

Jay Stewart, MD, recently had a paper accepted in *Ophthalmology Retina* entitled "Relationship between Oral Metformin Use and Age-Related Macular Degeneration." In researching the effects of metformin, a drug prescribed to diabetics to improve how a body handles insulin, he discovered a lower occurrence of age-related macular degeneration (AMD) in diabetic patients taking metformin compared to those not taking it.

### **Pathway Visionary Award**

Michael Deiner, PhD, received a 2020 STAR (Staff Appreciation and Recognition) award from the office of the UCSF Chancellor. The STAR program recognizes individuals for sustained. exceptional performance and significant contributions to the University. Dr. Deiner was enthusiastically nominated by Drs. Stephen McLeod, Thomas Lietman, and Yvonne Ou for developing tools, collaborations, and funding to support and promote vision research and education for the Department of Ophthalmology

and individual staff, students, and faculty.

A highly-dedicated member, Dr. Deiner has excelled in many roles over 26 years: Developmental Neuroscientist, IT/Web Director, Contracts and Grants Director, Clinical Trials Liaison, Clinical Big Data Scientist, and Research Associate at the Proctor Foundation and the San Francisco Veterans' Administration Medical Center. Congratulations to Dr. Deiner for his dedication that makes a difference in the lives of others.

These findings suggest that this drug could have a protective effect against AMD; further studies on this topic are being conducted. As part of this effort, Dr. Stewart was awarded an R34 grant from the National Eye Institute to plan a prospective clinical trial to further study the effect of metformin on AMD. He will be working to design the trial with **Jeremy Keenan, MD, MPH,** and **Travis Porco, PhD, MPH,** both from the Francis I. Proctor Foundation.





### **\$2.6 Million NIH/NEI Grant** for Macular Degeneration Research

**Aparna Lakkaraju, PhD,** has been awarded a \$2.6 million grant from the National Institutes of Health (NIH) National Eye Institute (NEI) to study the mechanisms of retinal pigment epithelium (RPE) dysfunction in macular degenerations and the role of intracellular complement activation.

Autophagy is a "garbage disposal" mechanism in which unwanted or harmful material is digested and recycled within the cell. Defective autophagy can contribute to many diseases, including age-related macular degeneration (AMD), which causes vision loss in over 30 million older adults worldwide. This research seeks to understand how autophagy is regulated in the retinal pigment epithelium (a key site in macular degenerations), how inefficient "garbage disposal" impacts cell function, and how this knowledge can be exploited to identify novel therapies that target the earliest stages of disease to preserve vision.

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from the Department of Ophthalmology and the Francis I. Proctor Foundation please contact That Man May See.

## New to Amazon Prime





A moving documentary about doctors battling blindness in East Africa



### Battling Blindness in East Africa

Acclaimed film producer and director Neil Riha's Eyes of Amhara, a 2020 documentary recently released on Amazon Prime Video, explores the history of a potentially blinding bacterial infection called trachoma. The film follows doctors Jeremy Keenan, MD, MPH; Michael Seider, MD; Sun Cotter, MPH; Nicole Stroller, MPH; and **Tom Lietman**, **MD**, from the Francis I. Proctor Foundation and Orbis International (an international nonprofit, non-governmental organization dedicated to saving sight) as they fight to eliminate trachoma in East Africa. A "disease of poverty," trachoma can have

devastating effects, not only on those afflicted, but their families as well.

Journeying from San Francisco to rural Ethiopia, the brilliant medical knowledge and heartfelt care of these doctors brings unexpected results to light as they strive to positively impact not only individual lives, but the world at large.  $\bigcirc$ 

Eyes of Amhara was funded through generous donations to That Man May See. You can help Director Riha finish a sequel, A Vision of the Mountains, featuring Proctor's work in the foothills of the Himalayas, by making a donation today: www.thatmanmaysee.org/donate

Watch the documentary on Amazon Prime Video: www.amazon.com/Eyes-Amhara-Dr-Tom-Lietman/dp/B08BJZS8W5 Learn more about the film: www.eyesofamhara.com

## Recent Gifts to That Man May See

That Man May See thanks you for generous contributions and new pledges for the UCSF Department of Ophthalmology and Francis I. Proctor Foundation, made between June 1, 2020 and October 5, 2020. Gifts at every level make a difference.

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