Massachusetts Eye and Ear is a specialty hospital focused on diseases and conditions of the eyes, ears, nose, throat, head and neck. World-renowned for care, research and teaching in these areas of expertise, Mass. Eye and Ear physicians and scientists are driven by a mission to find cures for blindness and deafness. Mass. Eye and Ear has operated continuously since its founding in Boston in 1824 and leads the Harvard Medical School Departments of Ophthalmology and Otolaryngology. In 2018, Mass. Eye and Ear became a proud member of the Partners HealthCare System, offering high-quality and affordable care at twenty locations in Massachusetts and Rhode Island.

On the Cover: Jack Hogan, 14 years old, has his vision tested after Mass. Eye and Ear surgeons performed the first FDA-approved gene therapy administration for a hereditary eye condition.

**KEY HIGHLIGHTS**

- **315,492** Outpatient Visits
- **27,956** Surgical Procedures
- **1,187** Inpatient Discharges
- **41** Licensed Beds
- **20,740** Emergency Department Visits

*Not all results are parallel to previous years.*

**MAJOR INITIATIVES**

- Performed the first FDA-approved gene therapy procedure for inherited disease
- Formally joined Partners HealthCare
- Expanded to Cape Cod by opening new clinical care centers in Mashpee and Harwich
- Opened state-of-the-art MRI to improve patient access and experience
- Recognized as “Employer of the Year” by Massachusetts Commission for the Blind
Mass. Eye and Ear is home to the world’s largest vision and hearing research centers, offering hope and healing to patients everywhere through discovery and innovation. In 2011, Mass. Eye and Ear joined forces with the Schepens Eye Research Institute. Their combined work is reflected in this report.

### ADVANCING RESEARCH

#### KEY STATISTICS

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#### SELECTED HIGHLIGHTS

**Benjamin Bleier, MD, and Suzanne Freitag, MD,** pioneered a new method for removing eye tumors through the nose – rather than through invasive craniotomies.

**Zheng-Yi Chen, DPhil,** led a research team that preserved hearing in a progressive deafness model using state-of-the-art gene editing techniques.

A team led by **Derrick T. Lin, MD,** created the first atlas of head and neck cancer, revealing the many different kinds of cells in primary head and neck tumors and their metastases. This knowledge provided important clues as to how common cancers metastasize.

**Janey L. Wiggs, MD, PhD,** and research collaborators identified several new genetic risk factors for glaucoma.
As a Harvard Medical School teaching hospital, Mass. Eye and Ear trains future medical leaders in ophthalmology and otolaryngology through residency programs, as well as clinical and research fellowships.

**HMS TRAINING PROGRAMS**

**Otolaryngology:**
- **27 Residents**
- **10 Clinical Fellows**
- **81 Research Fellows**
- **3 Research Residents**

**Ophthalmology:**
- **24 Residents**
- **26 Clinical Fellows**
- **108 Research Fellows**
- **1 Optometric Resident**

**SELECT ACHIEVEMENTS**

**Kevin S. Emerick, MD,** recipient of the 2018 Chris O’Brien Traveling Fellowship

**Eric H. Holbrook, MD,** joined the American Rhinologic Society Board of Directors

**Joan W. Miller, MD,** only individual to win Lucien Howe Medal, American Ophthalmological Society; Gertrude D. Pyron Award and Lecture, American Society of Retina Specialists and Retina Research Foundation; Charles L. Schepens, MD Award and Lecture, American Academy of Ophthalmology, Retina Research Foundation and Schepens International Society

**Shizuo Mukai, MD,** first incumbent of the William and Carolyn Aliski Distinguished Scholar in Ophthalmology, Mass. Eye and Ear (inaugural)

**Mark G. Shrime, MD, MPH, PhD, FACS,** recipient of the 2018 Arnold P. Gold Foundation Award for Humanism in Medicine by the American Academy of Otolaryngology–Head and Neck Surgery

**Janey Wiggs, MD, PhD,** elected to the National Academy of Medicine

**COMMUNITY HEALTH**

**Leaders in Bringing Care to the Community:**

- More than 500 vision and hearing screenings for children and homeless families
- Head and neck cancer screenings conducted in Mission Hill
- Free public seminars/health fairs to share research and clinical advances in specialties
- Continued innovative internship programs for inner-city high school students and visually impaired adults
- Community organization sponsorships and volunteerism
- Hosted Boston Creates, a pilot program in partnership with the City of Boston, to provide local artists with rehearsal space
A campaign focused on investing in people, programs and state-of-the-art facilities to advance world-leading research and bring urgently needed treatments in vision and hearing to millions of people around the world.