HELPING RESTORE VISION

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End stage AMD

- The leading cause of blindness in older Americans
- Causes central vision loss in both eyes due to damage to the macula
  - Macula: central part of the retina that allows us to see fine details
  - Damage causes blurring or darkness in the center of vision
  - Leads to loss of central vision
  - Peripheral vision usually retained
- Treatment options have been limited until now
End stage age-related macular degeneration

View through the eyes of a patient with AMD
Implantable Miniature Telescope

- VisionCare Ophthalmic Technologies, Inc
  - Developer of advanced visual prosthetic devices
- Purpose is to improve vision in patients with end stage age related macular degeneration
- FDA approved – July 2010
Function of implant

- Implant designed to improve visual acuity
- Magnification provided by the implant reduces the impact of the blind spot
- Restores vision by spreading light to healthy cells on the retina's perimeter
Clinical trial results

- Results from the two U.S. clinical trials:
  - Conducted at 28 leading ophthalmic centers
  - Proven success in placement of prosthesis inside the eye
  - Patients achieved clinically meaningful gains in visual acuity & quality of life with implant

- Published in peer-reviewed scientific journals:
Post implant view

Patients simulated view after telescope implantation
Telescope implantation

- Performed by a specially trained ophthalmic surgeon
- Implanted in one eye in a one hour outpatient surgical procedure
- Device enlarges central vision images over a wide area of the retina
  - non-operated eye provides peripheral vision for mobility & orientation
- Brain adjusts to implant in a few days
  - Requires a few months of visual training & rehab
Miniature telescope

Images of patient with implanted miniature telescope
Results

- Patients gain improved vision & quality of life
  - A result of years of scientific & clinical development
- VisionCare will conduct a post-approval study to monitor patient outcomes under commercial conditions
- VisionCare is submitting an application to the Centers of Medicare and Medicaid Services for a new code to establish Medicare beneficiary access to this implantation procedure
Questions?