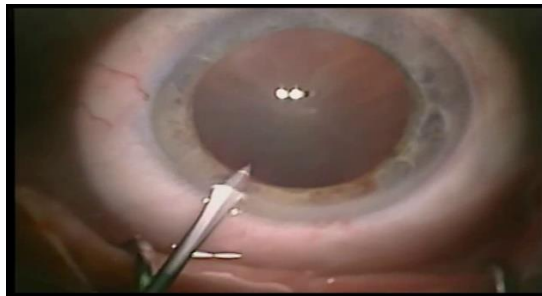


## **Phase Detection and Tool Detection of Cataract .**

### **1. Incision Phase: (0 seconds - 33 seconds)**

Tools Used: Bonn Forceps, Primary Knife, Secondary Knife

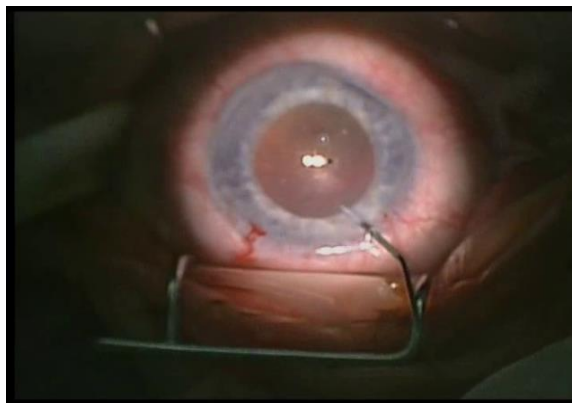
Eye parts detected: Cornea, Iris, Cataract Lens, Sclera



### **2. Viscous agent injection Phase: (34 seconds - 94 seconds)**

Tools Used: Rycroft Cannula, Visco Cannula

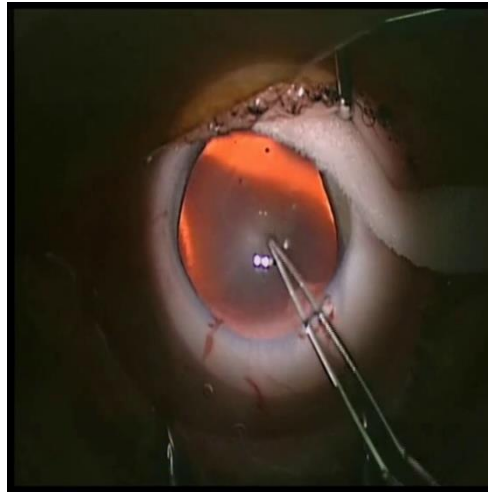
Eye parts detected: Cornea, Iris, Cataract Lens, Sclera



### **3. Rhexis Phase: (95 seconds - 120 seconds)**

Tools Used: Cap Cystotome, Cap Forceps

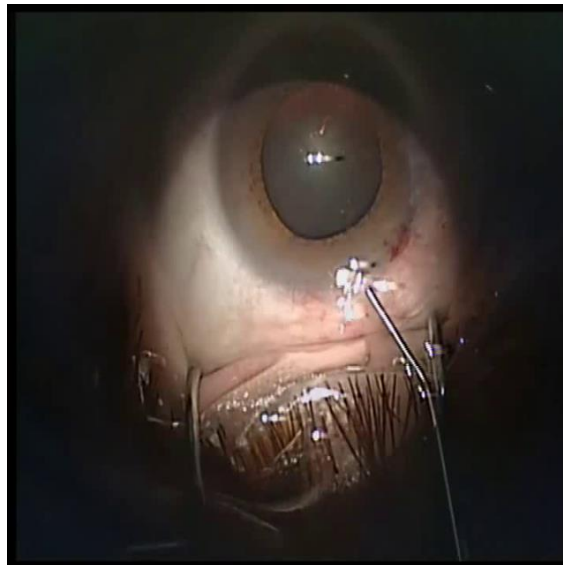
Eye parts detected: Cornea, Iris, Lens Fragments, Sclera



#### **4. Hydrodissection Phase: (121 seconds - 156 seconds)**

Tools Used: Hydro Cannula

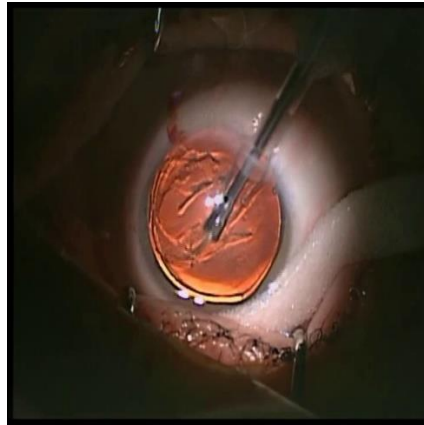
Eye parts detected: Cornea, Iris, Lens Fragments



#### **5. Phacoemulsification Phase: (157 seconds - 229 seconds)**

Tools Used: Phaco Handpiece

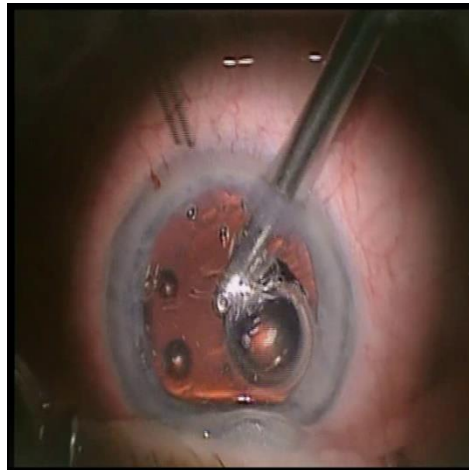
Eye parts detected: Cornea, Lens Fragments, Sclera



**6. Irrigation and aspiration Phase: (230 seconds - 273 seconds)**

Tools Used: A/I Handpiece

Eye parts detected: Cornea, Capsule, Sclera



**7. Capsule polishing Phase: (274 seconds - 285 seconds)**

Tools Used: Rycroft Cannula, Visco Cannula

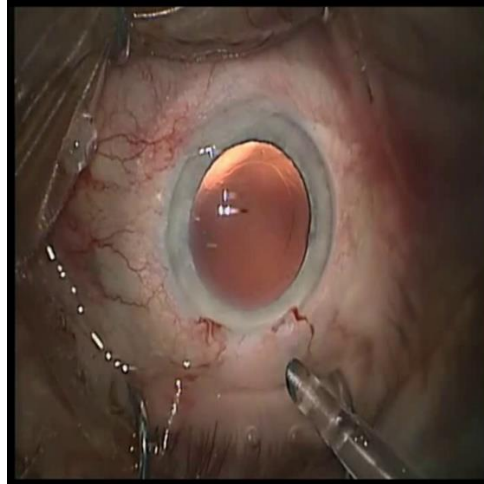
Eye parts detected: Cornea, Capsule, Sclera



**2. Viscous agent injection Phase: (286 seconds - 293 seconds)**

Tools Used: Hydro Cannula, Visco Cannula

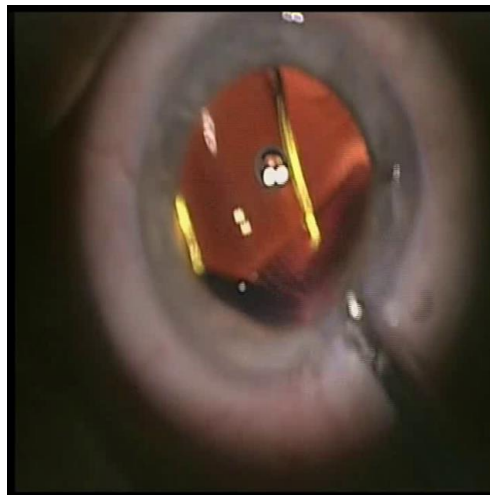
Eye parts detected: Cornea, Sclera



**8. Lens implant setting-up Phase: (294 seconds - 314 seconds)**

Tools Used: Micromanipulator, Lens Injector

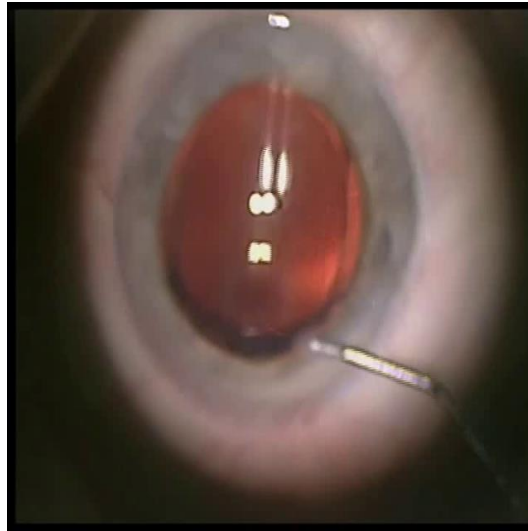
Eye parts detected: Cornea, Artificial Lens, Sclera



**9. Viscous agent removal Phase: (315 seconds - 340 seconds)**

Tools Used: Micromanipulator, A/I Handpiece

Eye parts detected: Cornea, Artificial Lens, Sclera



**10. Tonifying and antibiotics Phase: (341 seconds - 358 seconds)**

Tools Used: Rycroft Cannula, Visco Cannula

Eye parts detected: Cornea, Artificial Lens, Sclera