

**Title: Supplementary Video 1**

**Description: BianqueNet demo in IVD degeneration quantitation**

The signal intensity quantitation result is divided into three parts: (1) signal intensity histogram of each IVD region; (2) the difference between the peak value of the disc signal intensity; (3) degeneration grade determination according to IVD signal intensity.

The geometric quantitation result is mainly divided into two parts: (1) DHI and HDR values of IVDs in each segment; (2) scatter diagram of each segment of IVD relative to the population standard.