What is a femoral condyle cartilage defect?

The knee joint consists of three bones; the femur, the tibia, and the patella or knee cap (not shown). The ends of the femur and tibia rub and slide against each other as you stand and move. Cartilage is the slippery shock absorbing material that covers the ends of bones to allow pain free movement. A femoral condyle cartilage defect disrupts this surface which can lead to pain and loss of motion. If these defects are not treated they typically grow in size and depth due to the altered knee biomechanics until the pain is unmanageable.
Biological Treatments (microfracture, OATS, Allograft, ACI, etc.)
Many patients for various reasons including age are not good candidates for biological treatments (or they have had a failed prior treatment).

Artificial joint replacement
Many patients have pain but due to age and/or activity are not ready for an invasive artificial joint replacement.

What is the BioPoly RS Device?

BioPoly RS is an implant utilizing an advanced biomaterial to resurface (RS) cartilage defects. The BioPoly material has interpenetrated hyaluronic acid (HA), a naturally occurring molecule found in the joint fluid. This gives the implant enhanced lubricity and a lower coefficient of friction compared to traditional orthopaedic implant materials.

So what does this mean?
Your surgeon can now replace only the damaged portion of cartilage with an implant that interacts favorably with the surrounding tissues and the opposing cartilage surface. Since only a limited amount of joint disruption occurs during the surgery you can rapidly recover and return to activity.

How much time will I be off work and what is the recovery process?
Only you and your doctor can determine the exact amount of time you will need to recover before going back to work but typically the surgery is done as an outpatient surgery followed by a period of short rehabilitation.