

# Advanced Endoscopy

Our highly skilled endoscopists have extensive expertise in performing the most cutting edge procedures using the latest endoscopes and equipment. The following is a list of the advanced services we provide:

**Endoscopic Mucosal Resection (EMR):** using an endoscope the physician injects a solution under the tissue that contains the abnormal cells. A bubble forms “lifting” the cells up thus allowing the physician the cut and cauterize away the abnormal tissue without damaging the underlying normal tissue.

## Palo Alto Division Only:

**Endoscopic Submucosal Dissection (ESD):** a minimally invasive, advanced technique used to remove an abnormal gastrointestinal mass of tissue. As with an EMR, the physician uses an endoscope to inject a solution under the tissue that contains the abnormal cells. A bubble forms “lifting” the cells up thus allowing the physician to dissect and cauterize the submucosa (second layer of GI muscle wall) beneath the abnormal tissue. Previously these types of lesions were only removed surgically..

**Double/Single Balloon enteroscopy:** These balloon systems are attached to the endoscope allowing the physician to traverse the entire small bowel. This allows them to treat examine and treat lesions and bleeding vessels in the small bowel.

**Radiofrequency ablation for Barrett’s esophagus:** this technique delivers a uniform depth of ablation (burning) of the abnormal esophageal cells (Barrett’s) without damaging underlying tissue.

**Endoscopic Ultrasound (EUS)** with fine needle aspiration (biopsies), celiac plexus block (pain control) and gold fiducial placement (radiation usage).

**Endoscopic Retrograde Cholangiopancreatogram (ERCP)** in complex and high risk patients with techniques including cholangioscopy (direct images of the biliary tract).

Advanced colonoscopy techniques and prototype colonoscopies which may allow completion of previously incomplete colonoscopies.