

Update from Center for Devices & Radiologic Health (CDRH)

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Partners in Progress: Cancer Patient Advocates and FDA November 13, 2017



Office of Device Evaluation (ODE)

Division of Cardiovascular Devices (DCD)

Division of
Anesthesiology, General
Hospital, Respiratory,
Infection Control, and
Dental Devices (DAGRID)

Division of Surgical Devices (DSD)

Division of Neurological And Physical Medicine Devices (DNPMD) Division of Ophthalmic and Ear, Nose, and Throat Devices (DOED)

Division of Reproductive, Gastro-Renal, and Urological Devices (DRGUD)

Division of Orthopedic Devices (DOD)



Types of Devices

- □ **Diagnostic** *in vitro* diagnostic device or an imaging tool that provides essential information to the clinician.
- □ Therapeutic Includes devices often used in combination with chemotherapy.
- □ Palliative relief of symptoms and improvement in quality of life.



Targeted
Therapeutic



Companion Diagnostic



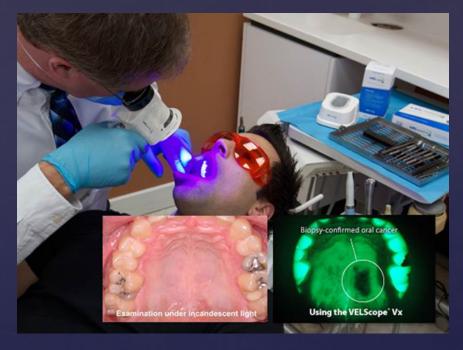


Companion Diagnostic Devices

- PD-L1 assays pharmDx to choose best treatment for melanoma and non-small cell lung cancer.
- RealTime DH2 assay- to detect specific mutations in patient with AML
- ClearLLab reagents flow cytometric test system first agency authorized test for use with flow cytometry to aid in the detection of several leukemias and lymphomas



Diagnostic (cont.)



VELscope® Vx - Screening for Oral Cancer



Diagnostic (cont.)



QuantX - Assessment of breast lesions



Diagnostic (cont.)





Nevisense - diagnostic support tool for non-visual detection of malignant melanoma.





Therapeutic

Tumor Ablation Technologies

- □ Radiofrequency Ablation (RFA)
- □ Microwave Ablation
- □ Laser ablation
- □ High-intensity focused ultrasound (HIFU) ablation
- Cryoablation



Therapeutic (cont.)



Optune® - for treatment of a type of brain cancer



Therapeutic (cont.)



DigniCap Scalp Cooling System - Reduces chemotherapy-induced hair loss



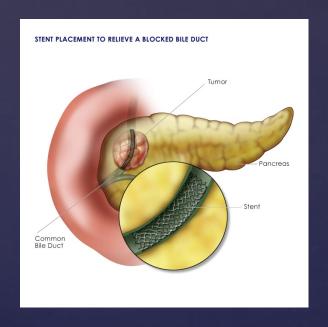
Therapeutic (cont.)



Proton Therapy



Palliative Devices





Stents

Dilatation Balloons



Palliative Devices (cont.)



Intrathecal pain pumps



Devices in Clinical Trials

- Systems that provide real-time tissue classification during prostate biopsies.
- Use of electric fields for the treatment of nonsmall cell lung cancer (NSCLC)



Thank you



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