

SPECIAL 510(k): Device Modification
OIR Review Memorandum (Decision Making Document is Attached)

To: THE FILE

RE: DOCUMENT NUMBER K141867

This 510(k) submission contains information/data on modifications made to the SUBMITTER'S own Class II, Class III or Class I devices requiring 510(k). The following items are present and acceptable for the ACCU-CHEK Aviva Connect System:

1. The name and 510(k) number of the SUBMITTER'S previously cleared device. (For a preamendments device, a statement to this effect has been provided.) **ACCU-CHEK Aviva Plus System (k133862).**
2. Submitter's statement that the **INDICATION/INTENDED USE** of the modified device as described in its labeling **HAS NOT CHANGED** along with the proposed labeling which includes instructions for use, package labeling, and, if available, advertisements or promotional materials (labeling changes are permitted as long as they do not affect the intended use).
3. A description of the device **MODIFICATION(S)**, including clearly labeled diagrams, engineering drawings, photographs, user's and/or service manuals in sufficient detail to demonstrate that the **FUNDAMENTAL SCIENTIFIC TECHNOLOGY** of the modified device **has not changed**.

This change was for:

- a. Changes to the meter housing including:
 - i. Button functionality from 2 to 3 buttons
 - ii. Addition of USB port
 - b. Addition of Bluetooth Low Energy (BLE) communications,
 - c. Removal of Alternate Site Testing (AST) claims for palm, upper arm, and forearm
 - d. Name change: ACCU-CHEK Aviva Plus System to ACCU-CHEK Aviva Connect System
 - e. Embedded reports available for transmission to a Personal Computer
4. **Comparison Information** (similarities and differences) to applicant's legally marketed predicate device including, labeling, intended use, physical characteristics, and communication features (USB and BLE).
 5. A **Design Control Activities Summary** which includes:
 - a) Identification of Risk Analysis method(s) used to assess the impact of the modification on the device and its components, and the results of the analysis
 - b) Based on the Risk Analysis, an identification of the verification and/or validation activities required, including methods or tests used and acceptance criteria to be applied

The labeling for this modified subject device has been reviewed to verify that the indication/intended use for the device is unaffected by the modification. In addition, the submitter's description of the particular modification(s) and the comparative information between the modified and unmodified devices demonstrate that the fundamental scientific technology has not changed. The submitter has provided the design control information as specified in The New 510(k) Paradigm and on this basis, I recommend the device be determined substantially equivalent to the previously cleared (or their preamendment) device.

The ACCU-CHEK Aviva Connect System is intended for single patient use. Disinfection efficacy studies were performed by an outside commercial testing laboratory demonstrated complete inactivation of hepatitis B virus (HBV) with the chosen disinfectant, Super Sani-Cloth (EPA Registration #9480-4). Robustness studies demonstrated that there was no change in performance, functionality or external materials after 260 cleaning and 260 disinfection cycles designed to simulate a 5 year use life of the device. Adequate instructions for the validated cleaning and disinfection procedures are provided in the labeling of the device.