

5. 510(k) Summary

In accordance with 21 CFR 807.87(h), a 510(k) Summary is included that meets the conditions as outlined for a 510(k) summary in 21 CFR 807.92.

Submitter Information:

510(k) Owner/Submitter: Biomat USA, Inc.

Official Correspondence regarding this 510(k):

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Establishment Registration Number: 3005488132

Device:

Device Classification Name:	Software, Blood Bank, Standalone Products
Trade Name:	GDS version 2.0 (Grifols Donation System)
Common Name:	Donor Center Computer Software
Review Panel:	Hematology
Classification Product Code:	MMH
Device Classification Regulation:	21 CFR 864.9175
Device Class:	Class II
MDUFA PIN:	MD6116788

Predicate Device:

	Trade Name	Manufacturer	510(k) Number	Classification Product Code
Predicate 1	GDS version 1.0 (Grifols Donation System)	Biomat USA, Inc.	BK180240	MMH
Predicate 2	NextGen 3.0.0	Haemonetics Corporation Software Solutions	BK150330	MMH
Predicate 3	ePROGESA – Version 5.0.1	MAK-System SAS International Group	BK080002	MMH

Device Description and Intended Use

GDS (an acronym for Grifols Donation System) is an application designed to manage plasma donor center activities such as donor eligibility, unit suitability, shipments (units and samples), and sample management. GDS software provides management controls and information services modules that have been designed to assist personnel in the operational core functions in the company’s plasma donor centers.

GDS medical device functions by modules:

- **Donor Registration:** processes donor registration data and schedules donor visits. This module records and tracks essential and mandatory donor checks applied to a donor during the registration process before considering further processing.
- **Donor Assessment:** manages a series of processes that are used to determine donor eligibility that include the administration, recording, and tracking of various screening tests, medical questionnaires, consent agreements, and medical evaluations. In addition, it has the capability to receive information from a Computer Assisted Self-Interview (CASI) system.
- **Phlebotomy and Unit Processing:** records the results of the plasmapheresis process in the GDS system, as well as any deviation (i.e., collection incident) that occurred during the collection process.
- **WIT (Wireless Innovation Technology):** manages the actions required for the phlebotomy process in real time, including, but not limited to: donor identification, supplies and equipment usage, process setup, unit and samples data collection; and donor symptoms and incidents recording during the collection process.

- **Inventory and Shipment:** manages the tasks required to handle units from the moment they are collected until they are shipped/released; which includes unit packing and shipment staging & verification. It also includes:
 - inventory management tools designed to update unit information, determine the Unit Release Status automatically, based on information received/entered in the application;
 - capture, track/report unsuitable units at the center;
 - track/report lookbacks (i.e., units implicated on a post donation event that are no longer at the center).
- **Samples Management:** includes the tasks required to collect and ship samples, receive test results, and decide on donor and unit status based on test results.
- **Special Plasma Programs:** management of specific collection and donor immunization programs.

Technological Characteristics

The proposed GDS version 2.0 computer software system is substantially equivalent to the legally marketed devices GDS (Grifols Donation System) version 1.0 (Predicate 1), NextGen version 3.0.0 (Predicate 2), and ePROGESA version 5.0.1 (Predicate 3), in intended use, features, and technological characteristics.

All four software devices provide management controls and information service modules that have been designed to assist personnel in the operation of donor center core functions including, but not limited to, donor registration, donor eligibility assessment, unit suitability, inventory and shipment, samples management, supplies management, equipment maintenance, and quality management.

GDS version 2.0 and GDS version 1.0 core applications are based on Oracle Database, Oracle ADF, Java development technologies and PL/SQL, running on a Weblogic Server and RedHat platform, and designed for Internet Explorer. Also, GDS version 2.0 uses Spring and Angular development frameworks, Tomcat server, and Chrome web browser for the design and implementation of the WIT module. NextGen and ePROGESA predicate devices also use Java development technologies. All three predicate devices are based on Oracle Database and use similar technology in operating systems and hardware. The differences in technological characteristics and principles of operation among the systems do not pose device safety or effectiveness concerns.

Clinical Trials

Clinical performance testing does not apply to GDS, as it is a software only product.

Summary of Safety and Effectiveness

The GDS device was developed in accordance with relevant regulations. The software was thoroughly tested including verification and validation to ensure that the system was properly developed and functions in accordance with its intended use.

Based on the testing results and the functional and technological comparison, the GDS device is safe for its intended use and it is substantially equivalent to the predicate devices in terms of intended use, functionality, technological characteristics as well as safety and effectiveness.

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Signed_ **/s/** _____ Date Aug 14, 2020
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Revision History

Version	Revision Detail
1.0 – 4.0	Initial versions before the initial 510(k) submission.
5.0	<p>Document information evaluated and updated in order to include the changes associated with GDS v2.0 implementation (CR # 2019-0561; Release 3). The modifications performed under the current version are listed below:</p> <ul style="list-style-type: none">• MDUFA PIN updated.• Predicate 1 was updated throughout the document.• Added the information associated to the Wireless Innovation Technology new module. <p>Revision History section added to the document to track occurred changes.</p>