

GHWP 26th Annual Meeting



Working Group1 Updates

Feb. 15th, 2023



Membership Update

Working Group 1

Chair

Dr. Seil Park

Ministry of Food and Drug Safety, Korea

Co-Chair

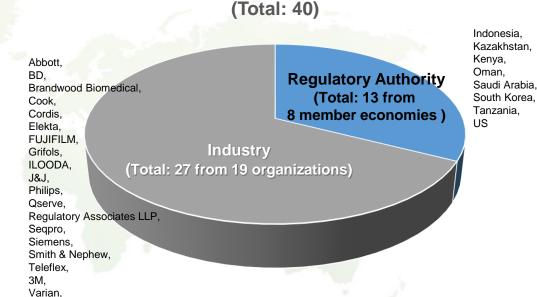
Ms. Mandy MyoungShim Kim

Johnson & Johnson MedTech

Secretary

Ms. Anna Yesong Park

Johnson & Johnson MedTech



WG1 Members



Proposed Work Items

WG1, 2020-2022



Proposed Work Plan

(WG1, 2020-2022)

Work Item	Deliverables	Key Milestones & Progress				
Revisit WG1 documents	Revise 'Handbook for Approval of Patient- matched Medical Devices Using 3D Printers'	 Revision completion (2020) ✓ Referred IMDRF guidance document to harmonize terms and definitions ✓ Added section of reference ✓ Added additional points of consideration and standardized terminology 				
	Revise 'Guidance for Minor Change Reporting'; comparing to AHWP/WG2-WG1-WG3/F001:2019 (Categorisation of Changes to a Registered Medical Device)	 Revision completion (2020) ✓ Added section of scope based on AHWP/WG2-WG1-WG3/F001:2019 ✓ Revised ambiguous terminology and added additional explanation 				
Document Development of EUA	Support document development driven by the joint WG1-3 for EUA(Emergency Use of Authorization)	 Document development completion (2021) ✓ Investigated and shared the status of EUA in AP economies ✓ Developed 'Regulatory mechanism for Medical Devices including In Vitro Diagnostic Medical Devices and Software as Medical Devices during a public health emergency' 				



Proposed Work Plan

(WG1, 2020-2022)

Work Item	Deliverables	Key Milestones & Progress					
Revisit documents co-worked by WG1,2, and 3	Revise 'Categorisation of Changed to a Registered Medical Device'	 Revision completion (2022), expected to be endorsed ✓ Added examples, especially in AI, Software, and					
	Revise 'Principles of Regulatory Requirements for Electronic Instructions for Use (eIFU) (AHWP/WG1-WG2-WG3/F002: 2019) Review the opportunity to modify or obsolete on 'Regulatory and treatment of e-IFU and e-Label of Medical Devices — Review of International Practice' (AHWP/WG1-WG2/F001:2017)	 Discussed to find out how the current regulations/guidelines are described in regards to user limitation, scope, benefit, and implementation of eIFU Developed the survey questions for current approaches Circulated survey and collected feedback from WG1,2, and 3 jurisdictions Composed drafting committee Plan to revise the document by 2023 					



Activities

WG1, 2022



2022 Activities

Working Group 1







2022 Activities

Working Group 1



- ✓ Joint meeting with WG2/3
- √ Sub-work item meeting (monthly)
- √ WG TC call





Work Items Update wg1, 2022



Proposed Work Item for Endorsement

Working Group 1

WG1-2-3 Joint Work Item



Revisit a GHWP Document
"Categorisation of Changes to
a Registered Medical Device,
AHWP/WG2-WG1WG3/F001:2019"

< Deliverables>

Update examples, especially in AI, Software, and Cybersecurity from WG1, 2, and 3 referring to various jurisdictions, including non-member economies across the globe

< Key Milestone>

- Submittd NWIP form
- Collect examples from WG1,2, and 3
- Aligned the scope,
 Shared action items/plan
 and interim output with
 WGs in regular meetings
- Revised GHWP Guidance, Submitted the proposed doc. for endorsement



Proposed Work Item for Endorsement

Revisit a GHWP Document "Categorisation of Changes to a Registered Medical Device"

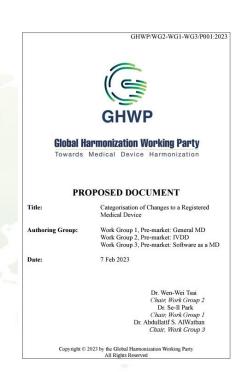
Examples Added to 5.4.4 Changes to Software

Non-significant

- Changes in operating environment, graphic interface, languages & translation, or storage methods w/o its safety and performance
- Changes in software to strengthen the cybersecurity such as adding encryption, passcode requirements, adding timeout, or changing the access of restricted user
- Changes in software to disallow use of specific characters to prevent ID barcode info truncation
- Changes in software to correct fluid bottle size parameter
- Changes in IVD analyzer software to prevent data merging or correct requirements to modify code in the control unit w/o modifying the core algorithm
- Changes in training dataset of a Machine Learning MD Software w/o any changes to labeled product design specification

Significant

 Changes in software to add product indication for use or its operating principles including diagnostic algorithm





Proposed Work Item for Endorsement

Revisit a GHWP Document "Categorisation of Changes to a Registered Medical Device"

GHWP/WG2-WG1-WG3/P001:2023 5.4.4 Changes to Software		Categorisation of Changes to a Registered Medical Device GHWP/WG2-WG1-WG3/P001:2023	Categorisation of Changes to a Registered Medical Device GHWPMC2-WG1-WG3P001-2023			
Example	Category (Significant / Non-Significant)	Change to software incorporating a change to the operation system platform, such as: A change in the software together with operating system change from	Significant	Change in IVD analyzer software to rewrite an incorrectly worded software requirement and to modify code in the control unit of the analyzer without modifying the core algorithm (such as detection or		
Change to software which impacts the control of the device that may be alter diagnostic or therapeutic function, such as: Software change causing the change of critical steps for laser delivery on eye treatment	Significant	Linux to another operating system platform. Addition, change, and deletion of OS version(s) (operating environment) within the same platform such as:	Non-significant	measurement module algorithm). Changes in software including the addition of product indication for use Significant or its operating principles including diagnostic algorithm such as		
Change to software initiated by manufacturer that modifies the algorithm that affects the diagnostic or therapeutic function, such as:	Significant	When Windows X is added for a product for which Windows 7 is specified as an OS		machine learning that may alter diagnostic or therapeutic function. Change in accuracy of Machine Learning Medical Device software via Non-Significan		
In X-ray Lung Nodule Assessment Software is used along with a Digital Radiography System to support physicians in the visualization, dentification, evaluation and reporting of pulmonary lesions/nodules in thest images. An algorithm change improves the detection rate for small		Change in software to alter colors and location of menu on graphic user interface of medical devices that does not affect safety and performance of the device but results in version change	Non-significant	modification and expansion of the training dataset without any changes to labeled product design specification.		
nodules. Change to software with addition of new features or software	Significant	Change in software to add languages for users that does not accompany changes in the main features and misunderstanding in translation for intended use, principle of operation, and performance	Non-significant			
applications that affect any diagnostic or therapeutic functions of a medical device, such as:	Significant	Change in the distribution/storage method of software among physical	Non-significant			
Insulin Pump - Software changes that allow for wireless communication with compatible (continuous) blood glucose monitors.		media (USB, CD, DVD), digital means (download), etc.				
Change to software that includes addition or removal of alarm function, uch that a response to this change affect the treatment of patient, such \$2. lectrocardiogram Addition to software of an early warning alarm to ignul a potential cardiac event such as airial fibrillation.	Significant	Change in software to strengthen the cybersecurity such as: 1. Adding encyption to the configuration file of the device, 2. Adding passoode requirements for remote users, in addition to the password needed to access the device, and 3. Adding a timeout for remote user or changing the access of the restricted user extinent or unproprietal levels.	Non-significant			
Change to software that affect the safety and performance of the registered medical device such that treatment or diagnostic of the patient is altered, such as:	Significant	Change in software to disallow use of the specific characters that are invalid as defined in the instrument host interface specification for the prevention of Specimen Identification (ID) barcode information truncation.	Non-significant			
Blood Oxygen Monitor - A software change that allows the monitor to report blood CO2 concentrations with higher accuracy up to 0.5% deviation. Upgrade of software version changes the performance		Change in software to return the system into specification of the most recently cleared device regarding DICOM(Digital Imaging and Communications in Medicine standard, http://dicom.nema.org/) conformance allowing the automatic fetching of prior studies from	Non-significant			
 Opgrade of software version changes the performance characteristics like specificity or sensitivity of the In-vitro diagnostic medical device. 		radiology information system using PACS (Picture Archiving and Communication System).				
A simple bug fix to correct the display error on the data table from the software analysis result.	Non-significant	Change in software to correct the bottle size parameter of the cleaning solution to prevent the fluid detection errors.				
Change in software which only introduces non-therapeutic and non- liagnostic features such as printing, faxing, improved image clarity or eporting format	Non-significant	Change in IVD analyzer software to ensure new data of the administrative records for reagents is not merged with the existing data in the table within the software by correcting software code in the control unit of the analyzer to modify the table to add new columns.	Non-significant			
Change in software to disable certain functions that does not interact with other functions	Non-significant					

References

- Japan: PMDA document
 (PSEHB/MDED Notification No.
 1020-1) Handling of procedures
 for minor changes made in
 association with partial changes of
 medical device programs –
 October 20, 2017
- US: Guidance for Industry and FDA Staff – Deciding When to Submit a 510(k) for a Software Change to an Existing Device – October 25, 2017
- Korea: Guidance for Review and Approval of Artificial Intelligence-Enabled Medical Devices, May-2022



Proposed Work Item for eIFU

Working Group 1

WG1-2-3 Joint Work Item



Revisit a GHWP Document
'Principles of Regulatory
Requirements for Electronic
Instructions for Use
(eIFU):2019'

< Deliverables >

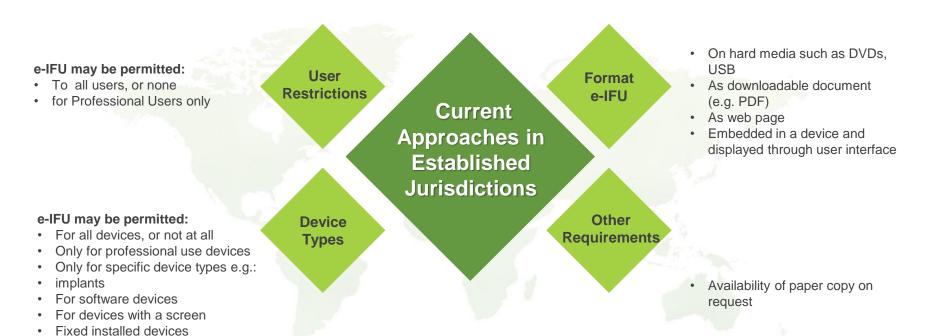
Revisit WG1 Document to see the opportunity to modify or obsolete, reviewing consideration on risk factors and current approaches in established jurisdictions

< Key Milestone>

- Submitted NWIP form
- Developed the survey questions for current approaches
- Circulated survey and collected the feedback of WG1,2, and 3 jurisdictions
- Composed drafting committee



Revisit "Principles of Regulatory Requirements for Electronic Instructions for Use (eIFU)"





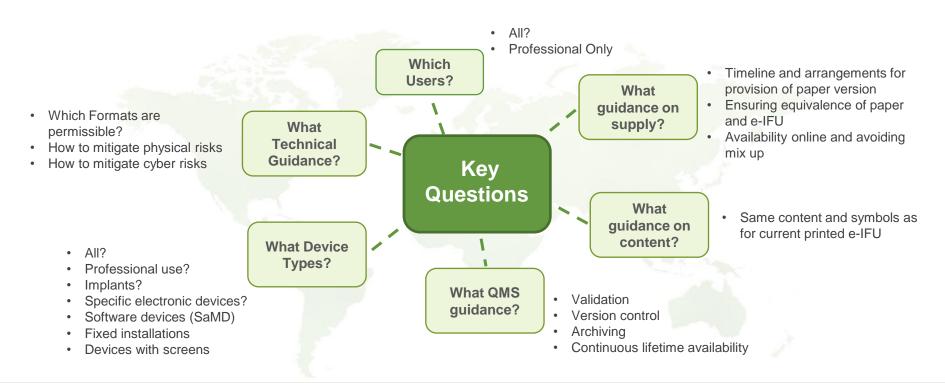
Revisit "Principles of Regulatory Requirements for Electronic Instructions for Use (eIFU)"

Risk Factors of e-IFU Implementation

Quality Systems	Physical Impact	Cyber Risks	Paper Copies	Online Supply	Content
 Validation of e-IFU Accuracy Languages and translations Method of delivery and user instructions on how Change management Identification of versions and avoiding mix ups 	 Sterility revalidation if paper copy is removed Advice on location of e-IFU on physical packaging 	 Online security – cannot be removed or replaced. Archival procedures Privacy – e.g. impact of cookies placed on visit to e-IFU website 	 Timeline for provision on request Ensuring equivalence of paper and e-IFU 	Need to be easy to find by simple web search, e.g. <manufacturer name=""> + <device name=""> + "IFU"</device></manufacturer>	Same content requirements and use standard symbols as for paper labelling



Revisit "Principles of Regulatory Requirements for Electronic Instructions for Use (eIFU)"





Revisit "Principles of Regulatory Requirements for Electronic Instructions for Use (eIFU)"

Survey Circulation

User scope of eIFU, Device Scope of e-IFU, e-IFU formats, Risk mitigation, QMS requirements, Hard copy supply and equivalence, and Contents of e-IFU

ltem← User scope	Question e ³ For which users may an e-IFU be provided?e ⁴	Name and Regulation deployment in your jurisdiction. (Country,	r	egulation⊖ If n	ee to proposal from WG? o, please input your gestions/thoughts						
of eIFU←	All? Professional Only? ✓		Item	e-IFU related Questi	ions E	1	Japan	India	HongKong	Taiwan	Korea
Device Scope of e- IFU ⁴²	For which device types is it permissible to provide an e-IFU. E.g.;** All devices** Software devices (SaMD)** Implants** Specific electronic devices such as;** Fixed installations ** Devices with screens**	ą.			n e-IFU Professional only And for IVD, exclu patient testings Related regulation (EU) 2021/2226 A	sive of near-	Hospital use only Related regulation: -Medical Devices Act (PMD Act) -Guidance on package insert digitization requirements	All (Not specified)	No specific regulation on eIFU being developed		Yes. Middle Class Devices only used in hospitals. Related regulation: Article 22 of Medical
e-IFU formats← Risk mitigation←	Which Formats are permitted? (e.g. PDF, HTML, DOC.+4 How are risks mitigated including:+4 physical risks and+4	€			instructions for us form instead of in	Manufacturers may provide instructions for use in electronic form instead of in paper form for the devices listed in paragraph 1				Instructions May Be Replaced by Electronic Instructions and Medical Device Firms Shall	
QMS requirement s ^c	cyber risks ⁶² What are expectations for: ⁶⁴ • Validation ⁶⁴ • Version control ⁶² • Archiving ⁶² • Continuous lifetime availability ⁶²	42	of eIFU		under the followir (a)the devices and intended for exclu professional users	ng conditions: d accessories are usive use by s; and				Indicate the Particulars on the Labels or Package	
Hard copy supply and equivalenced	What are requirements for availability of paper version including: ■ Timeline ■ Equivalence ■ Download/online versions ■	4			(b)the use by other reasonably forese IVDR Annex I 20.1	eable.					
Content₽	Avoidance of version mix upsel What is the guidance on e-IFU contentel	4			When the device i professional use o	nly, instructions					

^{*}Covered Jurisdictions: EU, Japan, India, Hong Kong, China, Taiwan, Australia, Korea, US



Revisit "Principles of Regulatory Requirements for Electronic Instructions for Use (eIFU)"





Thank You.

GHWP 26th Annual Meeting Working Group1 Updates