

110年醫療器材優良運銷準則 主題論壇 <自有倉儲規劃與管理>

Sysmex Taiwan Co., Ltd. 2021, Jun 2nd



Index	

About Sysmex

STW & GDP

What STW did for GDP

About STW's warehouse

What STW did for New GDP regulation

Visions of STW's warehouse



About Sysmex







Lighting the way with diagnostics





Sysmex by the Numbers

This section uses numbers to introduce Sysmex's businesses,

characteristics and strengths.

Sysmex by the Numbers



Global NO.1 in Hematology

Sysmex holds the No. 1 share of the global market in the hematology field (the field of *in vitro* diagnostics that determines whether precise testing is necessary by analyzing the number, type and size of red, white and other blood cells). To ensure that accurate testing results are delivered swiftly, we provide products of high quality and high usability and offer extensive after-sales support.



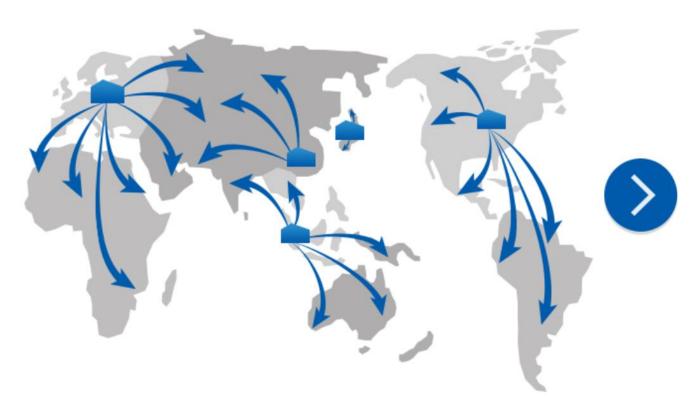




More than 190

Countries around the World

Sysmex's business is in the *in vitro* diagnostics field. We are an integrated manufacturer that conducts everything from R&D to manufacturing, sales and after-sales services on the instruments, reagents and software used to analyze blood, urine and cell specimens. We provide products and after-sales support to customers in more than 190 countries around the world.

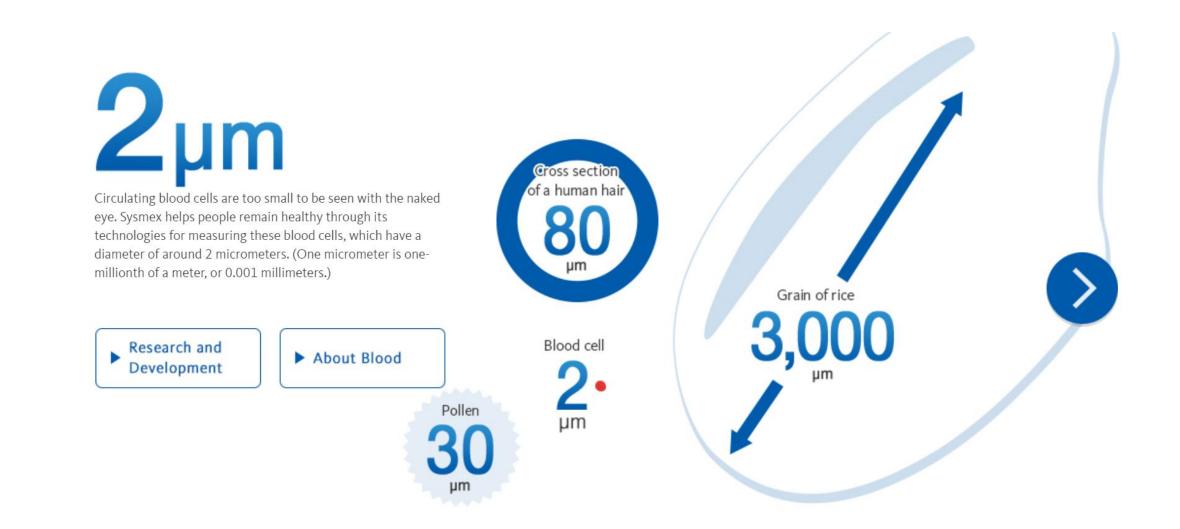


Introducing Our Business Activities

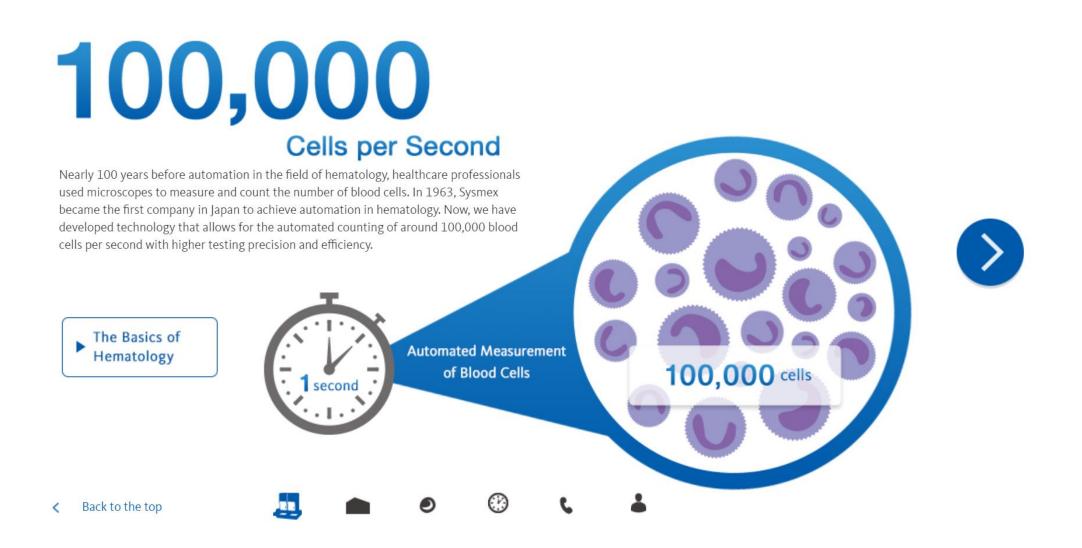
Sysmex Near You

Sysmex by the Numbers









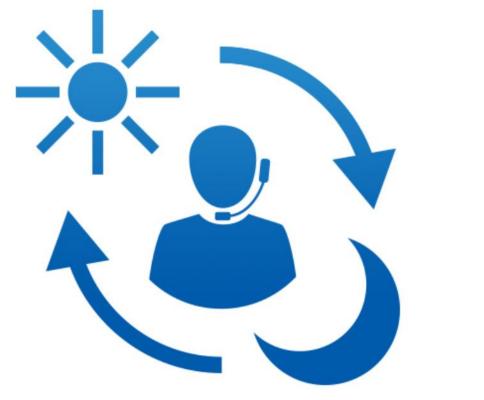


Around the Clock, 365 Days a Year

Sysmex provides medical instruments that are closely connected with people's lives. For this reason, we have in place call centers for customer service contacts staffed with highly knowledgeable, dedicated staff that operate around the clock, 365 days a year^{*1}.

In Japan and at our regional headquarters overseas, we provide call center support to our customers. We also operate the Sysmex Network Communication Systems (SNCS^{*2}), which provides real-time monitoring and remote maintenance.

- *1 A separate agreement is required.*1
- *2 SNCS is a support service for the online provision of remote instrument maintenance and quality control by connecting the Customer Support Center and customers' products via an online network.*2



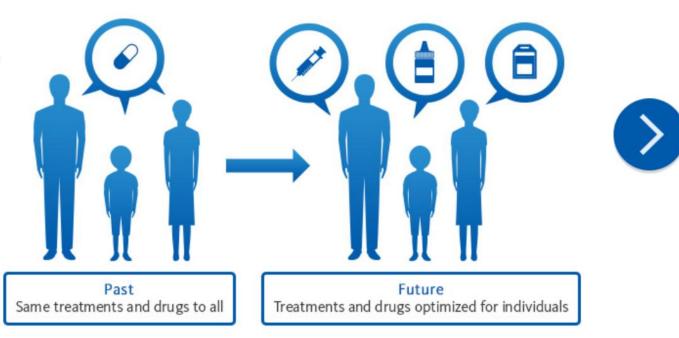
10



person, treatment method

Disease states differ by person, so it is understood that the same treatment method may not be appropriate even for people with the same disease. In recent years, progress in genetic analysis technology has made it possible to determine optimal treatment methods for individual patients. Selecting the optimal treatment method can help reduce the physical burden on patients, as well as curtail medical expenses.

About Personalized Medicine



Sysmex's History



• TOA MEDICAL ELECTRONICS CO., LTD. Sysmex •東亞醫用電子(現希森美康)株式会社 1968 • Launched the corporate brand name "Sysmex." 1978 Formulated the Sysmex Group corporate philosophy, • the "Sysmex Way." 2007 **SYSMEX** • Redesigned Sysmex's logo (the 40th anniversary) 2008 **Sysmex Way** Mission • Established Sysmex TAIWAN Co., Ltd (STW) 2011 Shaping the advancement of healthcare. Value We continue to create unique and innovative values. • New STW (merged San Tung Instrument Co. Ltd.) while building trust and confidence. 2017 Mind With passion and flexibility, we demonstrate our individual competence and New STW relocation unsurpassed teamwork. 2020

The automated hematology analyzer CC-1001

Sysmex Way



Mission

Shaping the advancement of healthcare. 實現發展保健醫療系統。

Value

We continue to create unique and innovative values, while building trust and confidence. 我們持續追求獨創價值,以贏得客戶信賴。

Mind

With passion and flexibility,

we demonstrate our individual competence and unsurpassed teamwork. 我們透過熱忱及靈活的個人工作態度,以展現單一無二的卓越團隊。

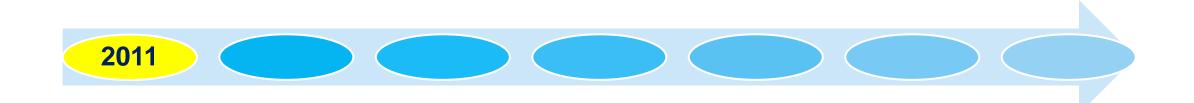


STW & GDP









STW established

15





- MIRDC started GDP promotion
- STW participated in related seminars actively







ST W. LICENSE HOIDER, IMporter

ST: Distributor, responsible for storage, transportation and distribution.



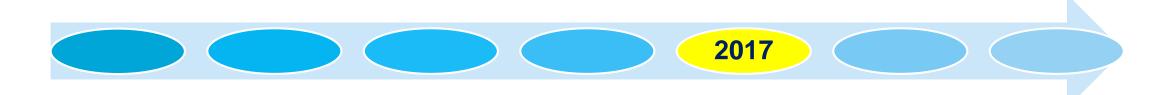


• STW got "Good performance" of GDP in counselling plan









New STW was established

(merged SAN TUNG instrument Co. Ltd.)





New Quality Management System released

STW Quality management system Management responsibility Resource management Product realization Measurement, analysis and improvement SOP #20

Distributor

Quality management system

Management responsibility

Resource management

Product realization

Measurement, analysis and improvement

SOP #55

New STW
Quality management system
Management responsibility
Resource management (human, environment, equipment)
Product realization
Measurement, analysis and improvement
SOP #48





• New STW got qualification of Pilot Audit Program.

DA 读述	福利部食品藥物管理署
109 #	·皮「醫療器材優良運綿早則推廣計畫」項日二:醫療器材優良運綿早則試辦計畫
109年)	度『醫療器材優良運銷準則(GDP 準則)試辦檢查
	方案』徵求參與廠商
一、目的	:
衛生	编利部食品藥物管理署因應「醫療器材管理法」公布,於109年預告
「醫療器材	才優良運銷準則(GDP 準則)」草業。醫療器材管理法第 24 條已明定「經
中央主管核	爽關公告之醫療器材及其販賣業者,應建立醫療器材優良運銷系統,
就產品之信	诸存、運銷、服務、人員配置及其他相關作業事項予以規範,並應符
合醫療器構	才優良運銷準則。且醫療器材販賣業者依前項準則規定建立醫療器材
優良運銷	系統,並報中央主管機關檢查合格,取得運銷許可後,始得批發、輸
入或输出	 」。為此,衛生福利部食品藥物管理署特別委託工業技術研究院量測
技術發展。	中心辦理109年度『醫療器材優良運銷準則(GDP準則)試辦檢查方案』,
以協助醫療	祭器材業者瞭解醫療器材新法之要求及相關規定,並建立更完善之醫
泰 器 材 產 1	業管理制度 。
	all at the set of
二、力乘	實施內容:
	f『醫療器材優良運銷準則(GDP 準則)試辦檢查方案』,協助廠商符合
	「醫療器材優良運銷準则(GDP 準則)試辦檢查方案」,協助廠商符合 優良運銷系統之法規要求,該方案實施內容如下;
醫療器材會	養良運銷系統之法規要求,該方案實施內容如下:
醫療 器材 f	養良運銷系統之法規要求,該方案實施內容如下: 醫会器材商符合「醫会器材優良運編原则」試明检查 (徽表20件) 国內從事醫差對於輸入、紹存、運輸、補售之醫委器材商 1. 指交符合「醫委器材養良運頻率別」現場指核。
醫療器材(項目 參與實格	委長運銷系統之法規要求,該方案實施內容如下: 醫療因材商符合「醫療因材優良運通岸时」以開始度(概束20件) 国内収容醫療因材給人、銀作、運輸、備先足磨勞因材高 1. 接受許合「醫療器材優良運備年前」或場借指。 2. 通過試開檢設者,設行符合指證明又片,業者得內含藥署接發五式醫
醫療 器材: 項目 多與資格 方案內容	委员運銷系統之法規要求,該方案實施內容如下: 醫療面材商符合「醫療因材優良運維原則」以同核查(職業20件) 國內政事醫產因材動人、錄作、運輸、銷售之醫產因材商 1. 換受許合「醫產因材優足運輸原則」或場指換。 2. 通過或同能處率,投行符合性證明文件,案者所向含解署抽發正式醫 產品材運銷許可品。
醫療器材(項目 參與實格	長民運銷系統之法規要求,該方案實施內容如下: 整合照相商符合「醫療器材優良運編原则」,这個核型(優處 20 件) 國內政學醫學品材輸入、總有、運輸、補助之醫療器材潤 」、總な算合。標盤出積度運輸等別,或局積損。 2. 通过試鋼檢查者,投資符合性證明文件,案者符內含審審檢發正民醫 希若於運輸用資訊試鋼檢查之醫療器材用皆數從能感、容報名素者超過
醫療 器材: 項目 多與資格 方案內容	委员運銷系統之法規要求,該方案實施內容如下: 醫療面材商符合「醫療因材優良運維原則」以同核查(職業20件) 國內政事醫產因材動人、錄作、運輸、銷售之醫產因材商 1. 換受許合「醫產因材優足運輸原則」或場指換。 2. 通過或同能處率,投行符合性證明文件,案者所向含解署抽發正式醫 產品材運銷許可品。
醫療 器材: 項目 多與資格 方案內容	養民運銷系統之法規要求,該方案實施內容如下: 醫務器材商符合「醫療器材優良運網率則」以納檢查(職業20件) 國內國家醫療器材檢良、運輸、備息之醫療器材商 1. 接受許合「醫療器材優良運備率引 、接受試例檢定者,投行符合推撥明受指件、雲者得內食藥署接發正式醫 應影材運動內方品。 有名参與 GDP 準則試例檢查之醫療器材商目數從臨為,若報名案者超過 成果件數,優長考量條件包括如:
醫療 器材: 項目 多與資格 方案內容	長民運銷系統之法規要求,該方案實施內容如下: 整合面材尚符合「關告器材優良運填原則」这個检查(讓來20件) 調切収容醫過品材輸入、總存、運輸、自己、增給之間將面材 1. 检疫符合、增易过程度運輸率則、現場損損。 2. 通過試鋼检查者。投行存位接明文件,累者作向含藥署接貸正式醫 溶差材運動和下面。 有名字與 GDP 準則試鋼檢查之醫療器材有皆數地板名,診瓶名累者超始 現果作款,優先考實無許危法知; 1. 常字與醫品計擾食為這種紙圖構态計橫食運填準則(GDP)管理制度
醫療 器材: 項目 多與資格 方案內容	委長運銷系統之法規要求,該方案實施內容如下: 醫療因材病符合「醫療因材優良運編年前」,这時檢查(職產 20 件) 」與內理管醫療因材驗及、建築、運輸、補助之醫療因材實 1. 起於符合「醫療因補養」或與者相。 2. 通過試辦檢查者,投予符合性證明又件,業者符內含醫臺檢發正式醫 亦名亦称。GPA 常認試解檢查之醫療因材质皆數迎就若,若能若案者超過 取名件教,優長考量條件必託知: 1. 常介病醫療用發展,這個服務局,醫療對使良運編年附(GDP)等理制度 及律療计算之間條或編纂性的查案者; 2. 第 考成醫療者的常常; 3. 并成商業者總書於1; 3. 并成商業者總書於1;
醫療 器材: 項目 多與資格 方案內容	委良運銷系統之法規要求,該方案實施內容如下: 醫療器材商符合「醫療器材優良運網率則」以納檢查 (職產20件) 國內國家醫療器材檢良運編率則」或得結構。 2. 通過以納檢查,於分子局依據與文件,黨者得內食藥署接發主式醫 應點排運鍋內方面。 有名参與 GDP 準則以納檢查、醫療器材有目數從概名,若根名業者超過 成果作數,優長考量條件包括如: 1. 增多與醫療器材優良這處規範層發品材優負運編率則(GDP)資理制度 支持處計量素以補成局層器計(含素將: 2. 第39 減醫委器材價的容量將: 3. 并成調要表醫層計: 4. 個人民醫委器杆:
醫療 器材: 項目 多與資格 方案內容	委長運銷系統之法規要求,該方案實施內容如下: 醫療因材病符合「醫療因材優良運編年前」,这時檢查(職產 20 件) 」與內理管醫療因材驗及、建築、運輸、補助之醫療因材實 1. 起於符合「醫療因補養」或與者相。 2. 通過試辦檢查者,投予符合性證明又件,業者符內含醫臺檢發正式醫 亦名亦称。GPA 常認試解檢查之醫療因材质皆數迎就若,若能若案者超過 取名件教,優長考量條件必託知: 1. 常介病醫療用發展,這個服務局,醫療對使良運編年附(GDP)等理制度 及律療计算之間條或編纂性的查案者; 2. 第 考成醫療者的常常; 3. 并成商業者總書於1; 3. 并成商業者總書於1;

	衛生福利部会品前 109 年度「醫療器 醫療器材優良運動	材優良運銷準則推廣	計畫」項目二:	ITRI Infuterial Technology Research Institute
109 年	醫療器材	優良運銷	準則試辦檢	查方案
醫	療器材業	者 GDP 祝	合性證明文	件
茲證明				
医療器材販	賣業者名稱:	台灣希森美康用	夏份有限公司	
医療 器材贩	賣業者地址:	新北市板橋區》	采丘里中山路一段	156號18樓
醫療器材貯	存場所:			
證明文件編	载:			
許可作業內	容:			
醫療器材之	輸入、儲存、	銷售等作業。	北京市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市市	A A MA CONTRACT
		射研究院 量测技		
) 光復路二段 321	號1館711室 109年12月31日	
	815 71 又件核管	□ - 加 · 干 平 氏 四	109 平 12 月 31 日	第1頁/共1頁
+ + = + 100 /	x	T 10 4 11 11 4 4	運銷準則試辦檢查:	





What STW did for GDP



- Top Management support on GDP establishment
- Cooperation with distributor to set up GDP system
- Warehouse visit to S-Corp in Japan to learn from their experience
- Internal audit training by Headquarter (S-Corp) in Japan





• Lectures

Description of the audit outline using of ISO 19011

• Training Role playing

• Site tour of a factory warehouse and moc audit











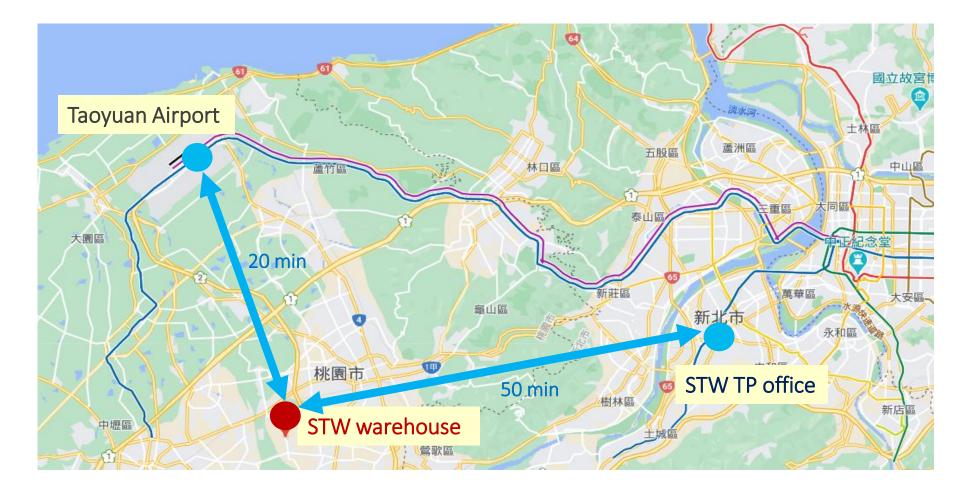


About STW's warehouse

Factors considered for choosing a warehouse



- ✓ Location (Industrial Area)
- ✓ Capacity
- ✓ Workflow
- ✓ Expense



Capacity & Product information

Product information

License: XX

Product:

- Medical device: XX
- Non-Medical device: XX
- Storage conditions:
 - 2 ~ 8°C
 - 2 ~ 10°C
 - 2 ~ 30°C
 - 2 ~ 35°C
- Safety stock: XX months

Capacity

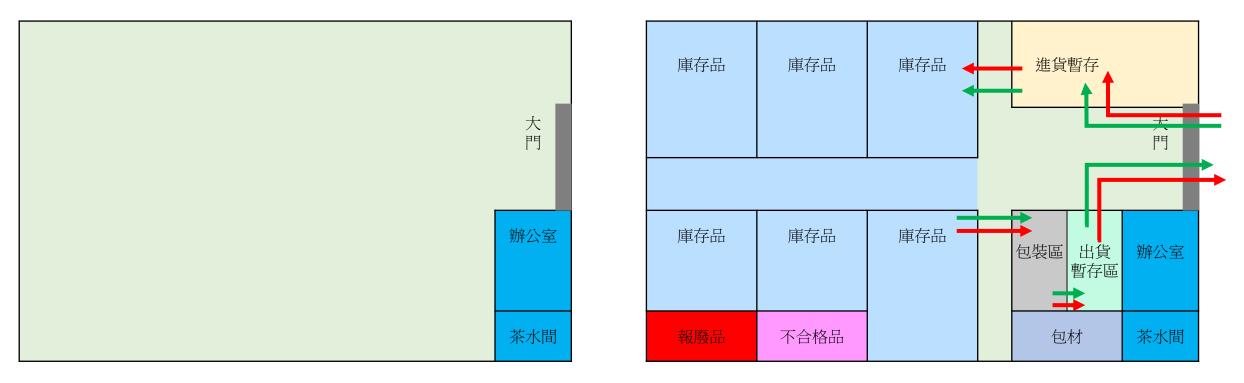
附件七、醫療器材清册↓

编號	醫療器材名稱	分類分級代碼	■材等級(<mark>許可證字號</mark> ↩	許可證持有業者名稱↔	│ 温度條件	放置地點(倉庫名稱/地址)↔	÷
14	(]	\leftarrow	ę	(7	⊂,	(€	÷
2↩□	÷	\in	ę	÷	¢		⊂>	÷
3€	4	4	÷	4	¢	Ŷ	⊊-	÷
4€	4	4	÷	4	€ ⁻	Ŷ	⊊-	÷
5⇔	€ ²	Ŷ	÷	4	ب ب	Ŷ	⊂ _{>}	÷
6↩□	4	4	÷	4	¢	Ŷ	⊂ ₂	÷
7↩	¢	÷	ę	4	¢-	Ą	< <u>−</u>	÷
8⇔	4	÷	Ą	4	⊂)	Ą	ت <u>ب</u>	÷
9⇔	(]	÷	ę	(⊂)	Ą	ت <u>ب</u>	÷
10	(]	¢	£	¢	÷	¢	¢-	÷



Layout & Workflow





- ✓ 進貨暫存區
- ✓ 庫存區
- ✓ 包裝區
- ✓ 出貨暫存區
- ✓ 不合格品區
- √ (報廢區)
- ✓ 短效期品區





STW's cold room







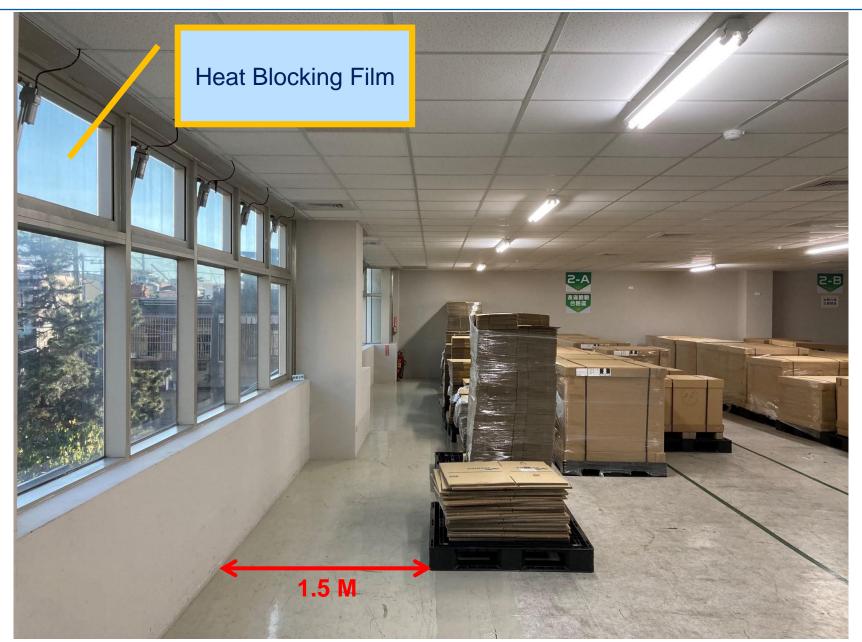
Tips for energy conservation





Tips for energy conservation







What STW did for New GDP regulation



Set up a Working Group



- Qualified Team Members
- > Well Experienced

Management Representative

- With more than 15 years of experience in QMS
- Medical Technologist
- ISO 15189 : 2012
- ISO 13485 : 2016

Quality Assurance Manager

- With more than 5 years of experience in QMS
- ISO 13485 : 2016
- ISO 14971 : 2019

Supply Chain Management Manager

- With more than 5 years of experience in GDP
- ISO 13485 : 2016

All STW members

Internal training of QMS and GDP

Compare the difference between 2 versions



✓ Compare GDP draft & GDP regulation ✓ Check if the SOPs meet new regulation

.

.

.

GDP regulation		SOP	Note
3	4.1.1~4.1.3	STW-001	0
4	4.1.4	STW-001	
5	4.1.5	STW-002	X

.

.

.

.

.

.

工業技術研究院 Industrial Technology Research Institute

「醫療器材優良運銷準則」草案與 ISO 13485:2016

醫療器材優良運銷準則要求項目	ISO 13485:2016章節
第3條	4.1 General requirements (4.1.1 -4.1.3)
第4條	4.1 General requirements (4.1.4)
第5條	4.1 General requirements (4.1.5)
第6條	4.2.1 General, Documentation requirements
第7條	4.2.4 Control of documents
第8條	4.2.5 Control of records
第9條	5.5.2 Management representative
第10條	5.6.1 General, Management review
	5.6.3 Review output

opyright 2021 ITRI 工業技術研究院

Compare the difference between 2 versions



• GDP regulation is harmonized with ISO 13485: 2016



Strengthen supplier management (GDP #16-18)



Supplier Evaluation Form*

Control list of Qualified Suppliers

Monitoring items* & Records

Reassessment

*****Quality-related procedures or items

<Note>

Supplier should send notification prior to implementation of any changes that affect the ability of purchased product.

Temperature Mapping (GDP #13)



Average

4.2

3.9

4.0

4.1

3.6

3.9

4.6

4.5

4.2

4.2

Min

2.5

2.2

2.1

3.2

0.9

2.8

3.4

3.1

3.0

2.9

✓ Outsourced to qualified laboratory (ISO 17025)

8

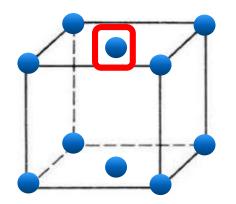
5

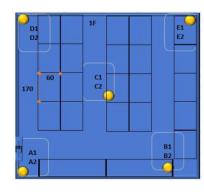
3

2

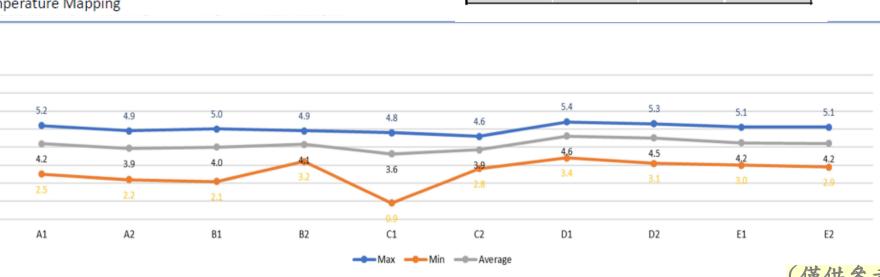
0

- ✓ Conducted by qualified engineers
- ✓ Calibrated all sensors within 1 year





Term: 2021/3/9 00:00:00 AM~2021/3/16 00:00:00 AM Temperature Mapping



Point

A1

A2

B1

B2

C1

C2

D1

D2

E1

E2

Max

5.2

4.9

5.0

4.9

4.8

4.6

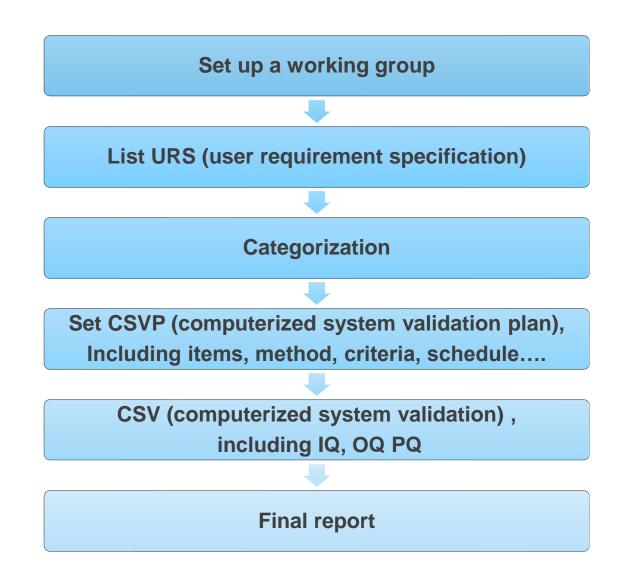
5.4

5.3

5.1

5.1





<Note>

If any change to the computerized system, evaluate the impact of the change and decide whether validation is necessary.

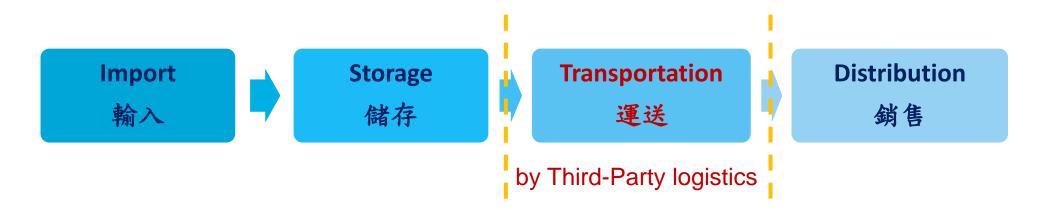


Visions of STW's warehouse





 Optimize the transportation monitoring process by strengthening cooperation with third party



- New ERP system
- ASRS, Automated Storage/Retrieval System



Lighting the way with diagnostics