

'RELIANCE' ON INSPECTIONS: NOT JUST A BUZZWORD BUT A REAL OPPORTUNITY

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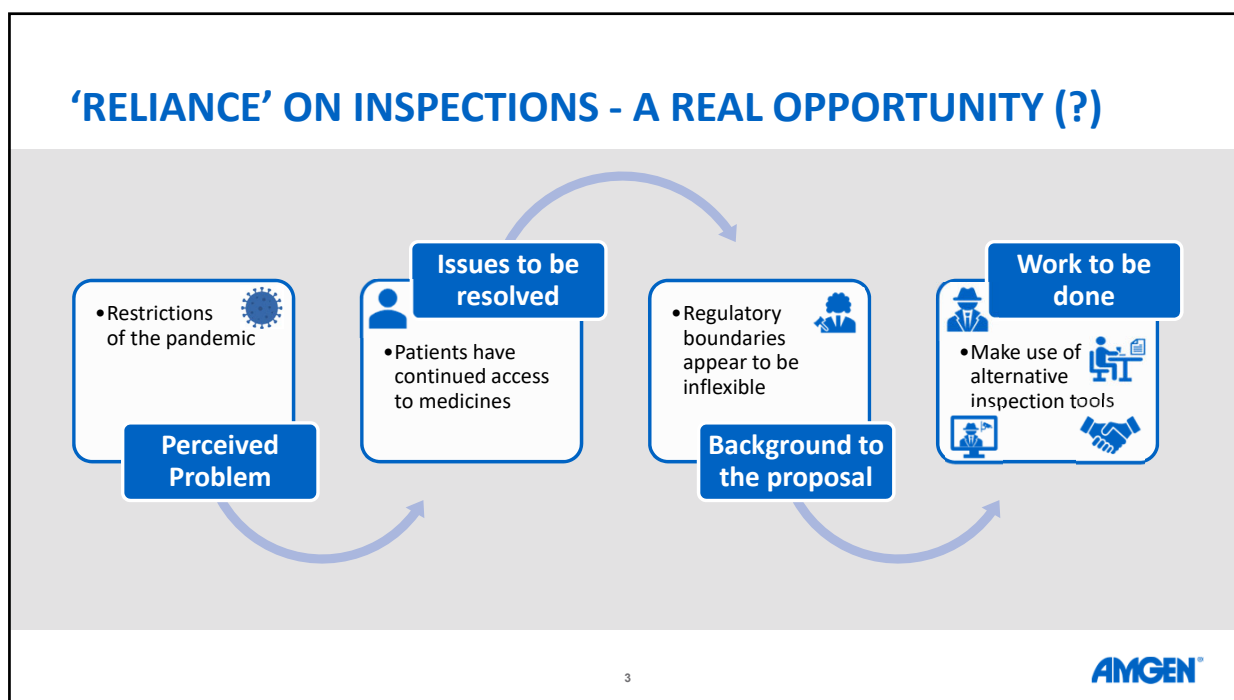
ABSTRACT

The Pandemic situation has created challenges and opportunities in the inspection landscape. The aim of the inspection is to make the case of assuring the overall state of control. Opportunities for risk-based inspection planning follow a simple qualitative tool provided by PIC/S. Reliance on inspection results is possible based on understanding of the principles to protect patients to waive import testing. Risk-based approaches seem to gain broader acceptance for waiving foreign inspections by LA countries. The value is to serve patients but inspections and in-country testing can negatively impact on-time access.

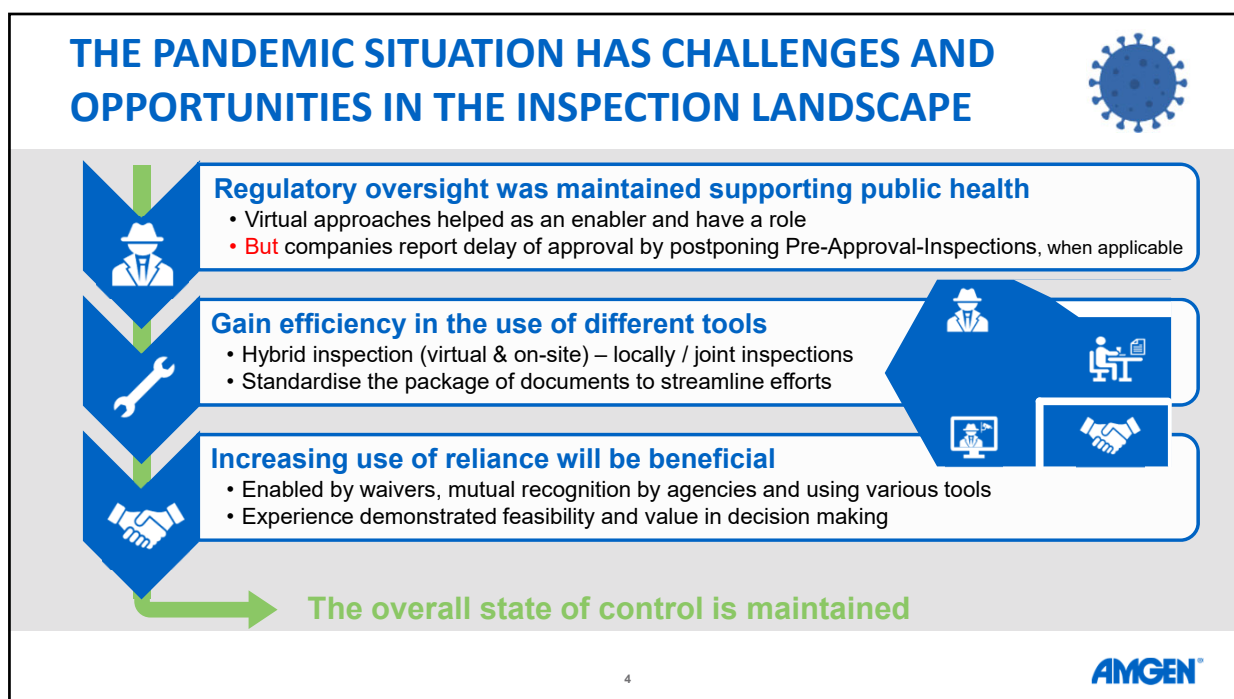
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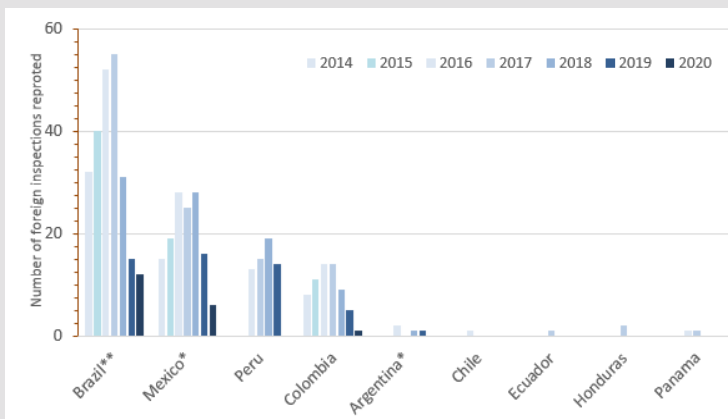


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RISK-BASED APPROACHES SEEM TO GAIN BROADER ACCEPTANCE FOR WAIVING FOREIGN INSPECTIONS BY LA COUNTRIES



Reported LA countries which performed foreign inspections

Mexico / COFEPRIS	16
Brazil**	5
USA*	4
Singapore*	3
Austria*	1
France*	1
Germany*	1
Switzerland*	1
Brazil / ANVISA	15
USA*	7
Japan*	2
Belgium*	1
Chile	1
Germany*	1
Italy*	1
Norway*	1
Singapore*	1
Peru / DIGEMID	14
Slovenia*	4
Brazil**	3
USA*	2
Austria*	1
Chile	1
Mexico*	1
Romania*	1
Turkey*	1
Colombia / INVIMA	5
Mexico*	2
Brazil**	1
Chinese Taipei*	1
USA*	1
Argentina / ANMAT	1
Ireland*	1

efpia Annual Inspection Survey 2020, May 2021
data bases: 25 multinational companies; 7 local manufacturers
https://www.efpia.europa.eu/media/10000/efpia-2020-annual-inspection-survey_v10.pdf

* PIC/S member inspectorate
** PIC/S accession inspectorate

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efpia Annual Inspection Survey 2019, May 2020
data bases: 26 multinational companies; 10 local manufacturers
https://www.efpia.europa.eu/media/10000/efpia-2019-annual-inspection-survey_v10.pdf



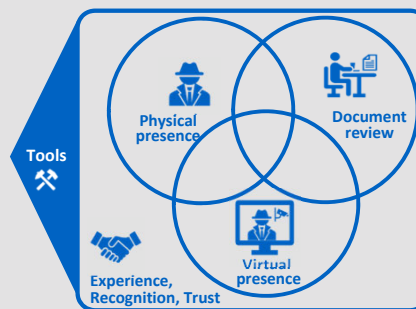
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AIM OF THE INSPECTION IS TO MAKE THE CASE OF ASSURING THE OVERALL STATE OF CONTROL

Inspections of a firm's manufacturing operation are essential to evaluate

- **C**apability of commercial manufacturing,
- **A**dequacy of production and control procedures,
- **S**uitability of equipment and facilities, and
- **E**ffectiveness of the quality management system

Combining to ensure the overall state of control.



Notably, pre-approval inspections include the added evaluation of authenticity of submitted data and link to dossier

ICH Q-1WG training, October 2011

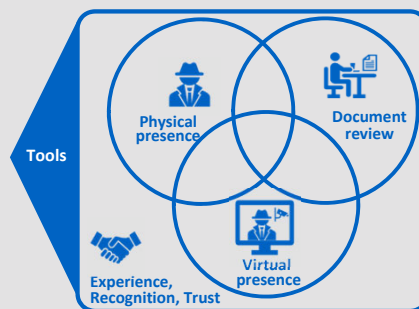
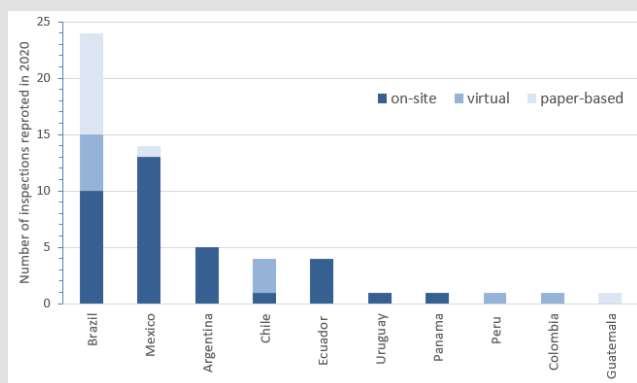
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AIM OF ANY INSPECTION IS TO MAKE THE CASE OF ASSURING THE OVERALL STATE OF CONTROL

Agencies are using different inspection tools



- Sometimes in combination
- They are not equivalent - each tool has advantages and disadvantages

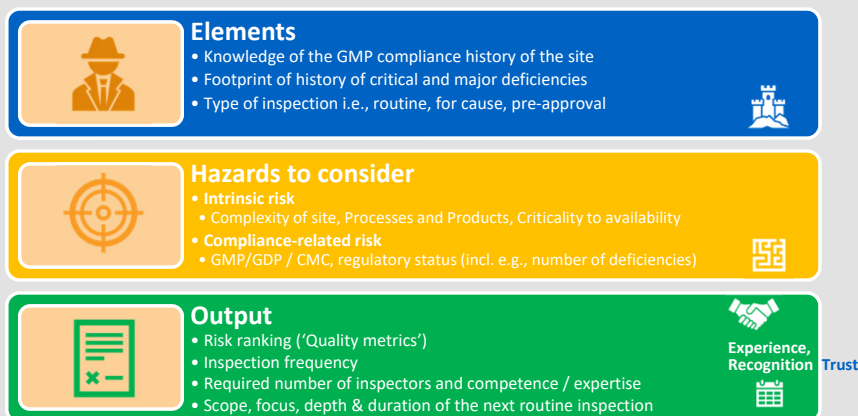
efpia Annual Inspection Survey 2020, May 2021
 data bases: 25 multinational companies; 7 local manufacturers
https://www.efpia.europa.eu/media/1000/efpia-annual-inspection-survey_2020.pdf

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OPPORTUNITIES FOR RISK-BASED INSPECTION PLANNING TO FOLLOW A SIMPLE QUALITATIVE TOOL

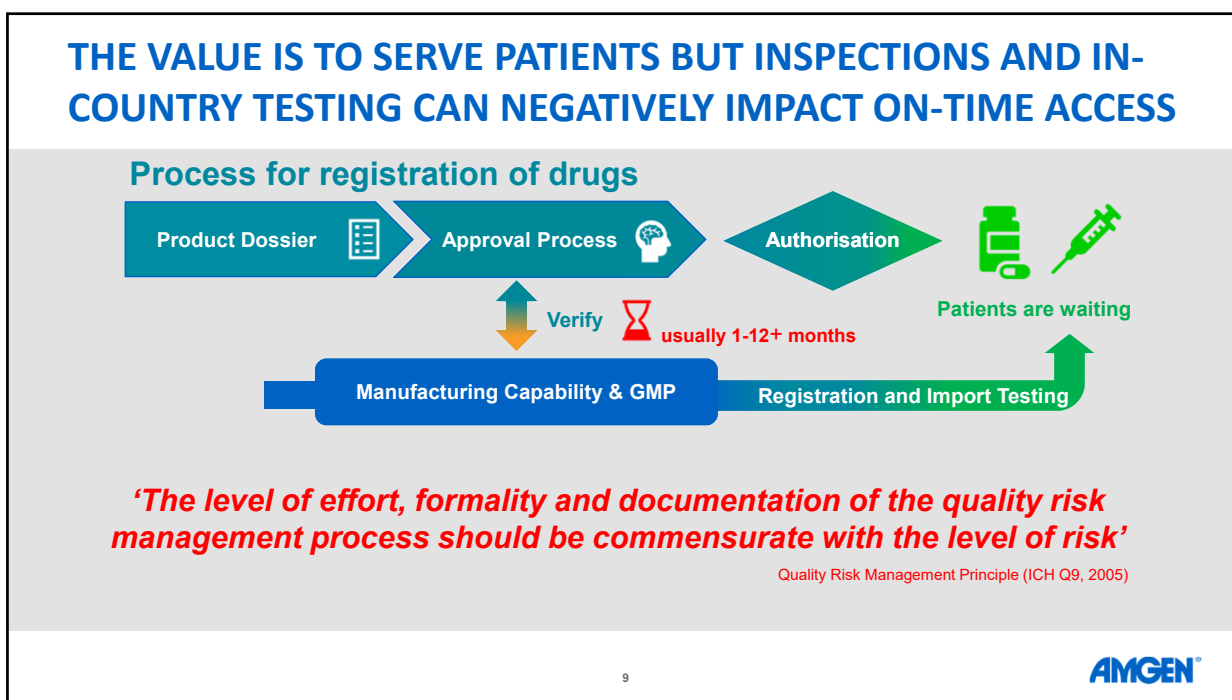


EudraGMDP

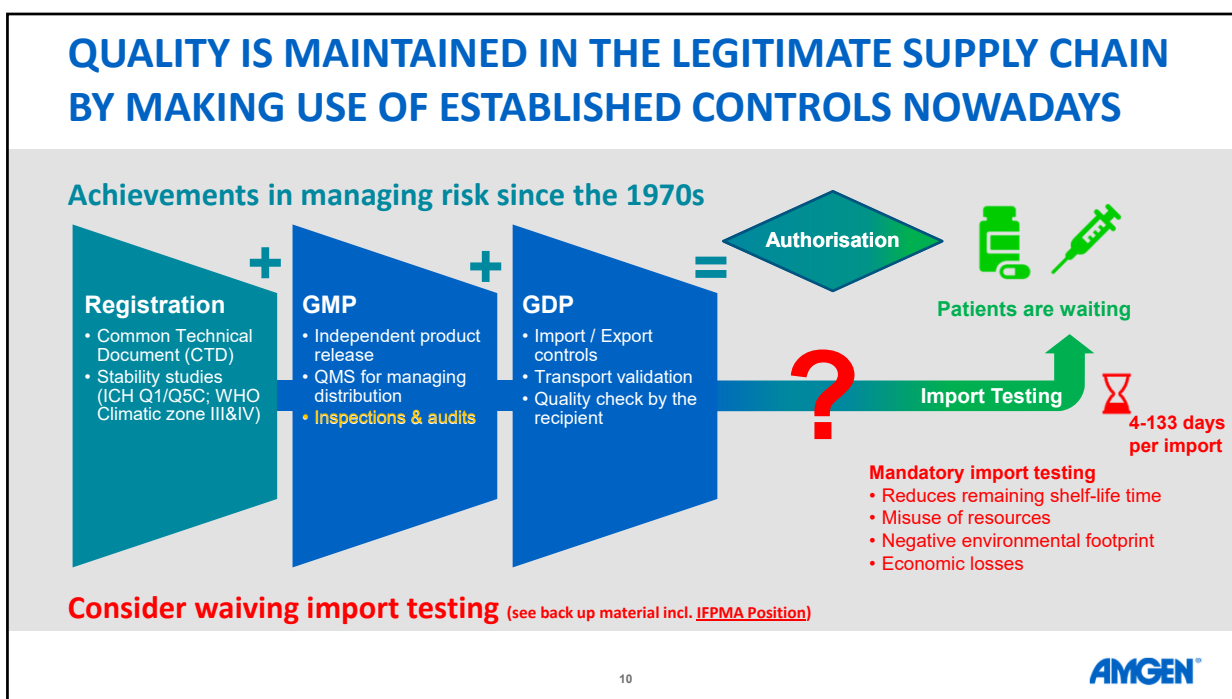
PIC/S RISK-BASED INSPECTION PLANNING, PIC/S GUIDELINE PI 037-1, 1 JANUARY 2012



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RELIANCE IS POSSIBLE BASED ON UNDERSTANDING OF THE PRINCIPLES TO PROTECT PATIENTS

- **Regulatory process are quite different between countries**
 - Assessment
 - Inspections
 - Testing regimes
- **They follow similar principles***
 - Quality Systems for inspectorates
 - Handling rapid alerts and recalls arising from quality defects
 - GMP-Inspection reliance
 - Risk-based inspection planning
 - Notification of foreign inspections
 - Team inspections
 - Classification of GMP Deficiencies
 - Inspection report format





Patients are waiting

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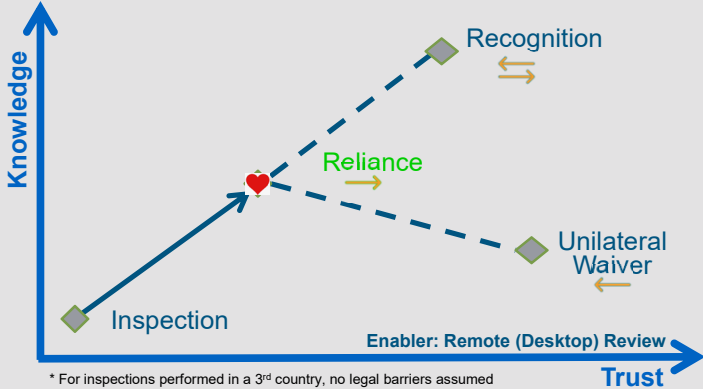
Patient

*  Best practices for inspectorates provided by PIC/S www.picscheme.org
 Good reliance practices in the regulation of medical products: high level principles and considerations, WHO, TRS 1033, Annex 10, 2021, 237-267. 11




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PANDEMIC SHOWCASES DEMONSTRATE OPPORTUNITIES TOWARDS AN IDEAL STATE OF RELIANCE




* For inspections performed in a 3rd country, no legal barriers assumed





Patients are waiting

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Patient

 Good reliance practices in the regulation of medical products: high level principles and considerations, WHO, TRS 1033, Annex 10, 2021, 237-267.

 • Risk-based inspection planning, PIC/S guideline PI 037-1, 1 January 2012

• GMP-Inspection reliance, PIC/S guideline PI 048-1, 1 June 2018

• Classification of GMP Deficiencies, PIC/S guideline PI 040-1, 1 January 2019

 Convergence of GMP standards and Related Inspections, IFPMA Position paper, January 2020

S. Rönninger, P. Gough, V. Davoust, Opportunities for Saving Resources in the Regulatory Inspection Process: Mutual Recognition Agreements (MRA) Example EU/US, Pharm. Tech. Japan, 35, 2019, 15-25..

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PATIENTS RECEIVE THE SAME MEDICINE WHEREVER THEY ARE

It is time for reliance

Acknowledgement
• Joerg Garbe, Roche

*Picture by Lale Ayanoglu Seher, Amgen

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FOR FURTHER READING

◆ **References**

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THE WORLD HEALTH ORGANIZATION NOW RECOMMENDS THE KEY CONCEPTS OF RELIANCE GLOSSARY

- **Recognition** must
 - Acceptance of the regulatory decision of another regulator or trusted institution
 - Recognition should be based on evidence that the regulatory requirements of the reference regulatory authority are sufficient to meet the regulatory requirements of the relying authority
 - Recognition may be unilateral or mutual and may, in the latter case, be the subject of a mutual recognition agreement

- **Reliance** may
 - The act whereby the regulatory authority in one jurisdiction takes into account and gives significant weight to assessments performed by another regulatory authority or trusted institution, or to any other authoritative information, in reaching its own decision
 - The relying authority remains independent, responsible and accountable for the decisions taken, even when it relies on the decisions, assessments and information of others



Good reliance practices in the regulation of medical products: high level principles and considerations, WHO, TSR 1033, Annex 10, 2021, 237-267 – chapter 4: glossary

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ADDITIONAL REFERENCES ON INSPECTIONS

- **Guidance for regulators incl. inspectors**
 - PIC/S, A recommended model for risk-based inspection planning in the GMP environment, *Guideline PI 037-1*, 01. Jan 2012
 - PIC/S, GMP Inspection reliance, *Guideline No PI 048-1*, 01. June 2018
 - PIC/S, Classification of GMP Deficiencies, *Guideline No PI 040-1*, 01. January 2019
 - WHO, Good regulatory practices in the regulation of medical products, WHO Technical Report Series, 1033, Annex 10, 2021, 237-267.
- **Scientific Papers**
 - S. Rönninger, P. Gough, V. Davoust, Opportunities for Saving Resources in the Regulatory Inspection Process: Mutual Recognition Agreements (MRA) Example EU/US, *Pharm. Tech. Japan*, 35, 2019, 15-25.
 - A. Meshkovskij, S. Rönninger, National GMP Inspection Practice for Biotech Pharmaceuticals: Commonalities, Differences, Opportunities, *CIS GMP News*, 2018, 1, 26-31. <https://gmnews.net/magazine/gmpnews-eng-2-1-2018/#page/26>
 - H. Jin, N. Carr, H. Rothenfluh, TGA, Medicines Regulations: Regulating Medicines manufacturers: Is an onsite inspection the only option?, *WHO Drug Information*, 31/2, 2017, 153-157. https://www.who.int/medicines/publications/druginformation/issues/WHO_DI_31-2_RegMedManuf.pdf
 - EMA, WHO, TGA, US-FDA, EDQM, Council of Europe, ANSM, DMA, HPRA/AIFA, MHRA, Report on the International Active Pharmaceutical Ingredient Inspection Programme 2011 – 2016, March 2018, 1-13.
 - S. Rönninger, J. Berberich, V. Davoust, P. Kitz, A. Pfenninger, Landscape of GMP/GDP inspections in research-based pharmaceutical industry, Part I: Data, *Pharm. Tech. Europe*, January, 2017, 6-10. <http://www.pharmtech.com/gmpgdg-inspection-landscape-part-1-data>; Part II: Considerations and Opportunities, *Pharm. Tech. Europe*, February, 2017, 5-9. <http://www.pharmtech.com/gmpgdg-inspection-landscape-part-2-considerations-and-opportunities>
 - A. Meshkovskij, S. Rönninger, GMP Inspection practice: a case for global benchmarking, convergence and mutual reliance/recognition, *The GMP News*, 2017, 2-9 (Rus).
 - EFPIA Annual Inspection Survey, results 2018 https://www.efpia.eu/media/361948_efpia-2018-reg-inspection-survey_public-summary.pdf
- **Industry Position Papers**
 - EFPIA: Annual Regulatory GMP/GDP Inspection Survey's https://www.efpia.eu/media/361948_efpia-2018-reg-inspection-survey_public-summary.pdf
 - EFPIA: Enhanced Good Manufacturing and Good Distribution Practices (GMP/GDP) Inspection Efficiency, 19. May 2014.
 - EFPIA / PHRMA: A Concept for Harmonized Reporting of Inspections, 29. May 2015; addendum of the PHRMA White Paper: 'Mutual Recognition of Drug GMP Inspections by U.S. & European Regulators', 15. May 2015. https://www.phrma.org/~/media/PhRMA/White_Paper_A_Concept_for_Harmonized_Reporting_of_Inspections_Ann.pdf
 - IFPMA: Convergence of Good Manufacturing Practice (GMP) standards and Related Inspections, IFPMA Position paper, June 2017; update January 2020. <https://www.ifpma.org/wp-content/uploads/2017/06/IFPMA-Position-on-GMP-Convergence-Final-3-June2017.pdf>
 - IFPMA Infographic: https://www.ifpma.org/wp-content/uploads/2018/02/GMP_IFPMA_02-20-2018-WEB.pdf
 - IFPMA: Points to consider for virtual inspections, 2021 <https://www.ifpma.org/taq/gmpgdg-inspection/>

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FOR FURTHER READING

◆ Inspection process



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INSPECTIONS BY A LOCAL INSPECTORATE CAN BE MORE EFFICIENT AND MATURE THAN AN INSPECTION FROM A 3RD COUNTRY

Prerequisite


- High quality standards embraced and supported by the local government
- Evaluation of national regulatory systems by an independent control / maturity metrics e.g., PIC/S member inspectorates, WHO Global Benchmarking Tool

Advantage

- The local inspectorate has
- Flexibility regarding coming back and following up on issues
 - Knowledge on the site specific history
 - Insight on culture i.e., do/don'ts in the local area
 - Optimisation of resources
 - Benefit from improved inspection logistics e.g., no language barrier, less travel / environmental friendly

Transparency

- A non-compliant local site may put the integrity of the local inspectorate at risk
- Direct access for feedback on CAPAs
- Inspectorates may not like to see their local manufacturing sites in the headlines

 GMP-INSPECTION RELIANCE, PIC/S GUIDELINE PI 048-1, 01 JUNE 20, CHAPTER 5.2 – as basis

◆ Inspection process

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COLLABORATION, RELIANCE, DELEGATION ARE POTENTIAL STRATEGIES TOWARDS THE FUTURE

Plan inspections based on risk

Consider

- Basics: compliance history, product criticality, etc.
- Coordination of inspections among agencies
- Expired GMP certificates may impact regulatory procedures
- Flexibility by using alternative tools including virtual inspection (also for PAIs) instead of postponing
- Coordination of certification audits by different notified bodies (note: privacy agreements)
- Support by a tool to coordinate inspections worldwide (e.g., by PIC/S)

Evolve the traditional on-site approach

Adopt

- A hybrid approach with a focused on-site presence
- A clear, defined and followed timetable
- Using surveillance inspection to build in PAI elements, as applicable
- Allowing reliance on domestic inspections for license renewals or use virtual tool especially in 3rd countries

Build reliance

Leverage

- Complete inspection history
- Reliance on domestic inspections especially if performed by PIC/S members
- Regional certificates (e.g. EAEU)
- MRAs: implement and extend

Ensuring compliance

◆ Inspection process
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FOR FURTHER READING

◆ Import Testing

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IN THE 1970s IMPORT TESTING WAS INTRODUCED IN THE EU AND OTHER COUNTRIES TO CONTROL HAZARDS

- **Historically, re-testing requirements may have been necessary**
(EU directive 75/319/EEC Article 22, 1975)
 - Mistrust of having quality products imported
 - Limited development of regulations and enforcement procedures - outside the EU
- **Arguments made to control hazards; for example:**
 - Issues with the original product quality that may not have been found
 - The release testing was not performed adequately
 - Potential for disreputable suppliers to provide substandard product
 - Loss of economic value in a country/region through the provision of employment
 - Failure to detect deterioration on transportation
 - Loss of public confidence in imported medicines
 - Failure to detect counterfeit finished products

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IN A REGULATED ENVIRONMENT TODAY THE REQUIREMENT FOR IMPORT TESTING IS REGARDED AS BEING REDUNDANT

Additional regulations introduced additional controls; for example:

1. **Development: Quality is built in**
 - Filing and approval of manufacturing process including release specification
2. **Manufacturing: According to current good manufacturing practices (GMPs)**
 - Quality management systems (QMSs) are in place
 - Supplier management including quality agreements, audits and domestic inspections
 - Validated process and analytical methods
3. **Supply Chain: Quality is controlled and maintained**
 - Shipping is under good distribution practices (GDPs) - including validation, qualification, monitoring, stability studies
 - Additional requirements, controls and enforcement (e.g. EU Falsified Medicines Directive, inspections)
4. **Safe and efficacious product for the patient**
 - Uninterrupted control through the whole supply chain

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REALITY WITH IMPORT TESTING TODAY WHILE QUALITY IS MAINTAINED IN THE LEGITIMATE SUPPLY CHAIN

- **Delay in delivery to patients**
 - Bounded stock in quarantine
- **Delay in registration and license renewals**
 - Testing is often established during product registration to later support import or surveillance testing
- **Managing a variety of waivers**
 - Legal, regulatory, compliance and technical approaches implemented
 - Not allowing, refusal of, and/or time it takes to obtain a waiver
- **Increasing the drug shortage risk**
 - Blocked stock reduces the remaining shelf-life time (RST)
- **Misuse of resources**
 - Redundant tests occur along the global supply chain in an isolated manner
 - Import testing does not reveal any additional risks to quality: 0.005% batch rejection rate*
 - Economic losses
 - Environmental aspects of testing and waste creation

*IFPMA survey: 1 out of 18'616 analysis; may be explainable by transport monitoring data

◆ Import Testing

<https://www.ifpma.org/subtopics/import-testing/>

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PROGRESS IN DISCUSSIONS REGRADING WAIVING OF REGISTRATION AND IMPORT TESTING

- **Refocusing in the area of registration and import testing**
 - Discussed in [Argentina](#), [Chile](#) and [Paraguay](#)
 - COFEPRIS in [Mexico](#) are about updating process and guidelines (NOMs). However waving of Import testing for biological products if the manufacturing, packaging and tests sites only if are certified by COFEPRIS
- **Reliance on reference countries in the Central America region (CAC)**
 - [Costa Rica](#) implemented a waiver from first batch testing for biological products approved in a SRA country in 2020 - Circular MS-DRPIS-909-05-2020 "Empresas-Fabricantes-Importadoras y Distribuidoras de Medicamentos, 25 May 2020.
 - [Guatemala](#) grants waivers from first batch testing for products approved by a WLA ML4 as of 2018 - Acuerdo Gubernativo No. 104-201, 12 June 2018
 - [Honduras](#) introduced waivers from registration testing dependent on the product approval by a reference authority (WLA ML4 and South Korea) in 2018 - Comunicado C-003-ARSA-2018, 22 March 2018
 - [Panama](#) implemented a waiver from registration testing for biological products approved in a SRA country in 2017 - Gobierno De La República De Panamá (2017): Abbreviated procedure to register products approved by Health Authorities with high standards. Resolution No. 58.
- **Major markets stopped routine import testing**
 - [EU](#) when importing from countries where Mutual Recognition Agreements (MRA) are established with e.g., [Japan](#), [Australia](#), [Israel](#), [Switzerland](#) and [US](#)
 - [ASEAN](#) member economies have established and MRA when in the inspectorate in countries
 - [China](#) replaced routine import testing for chemical products by post-marketing surveillance testing in 2018. The change was justified by a very low rejection rate (0.16%) confirming that the established controls are efficient - NMPA Announcement on matters related to customs clearance and import testing of imported chemical drugs, 2018.
 - [Russia](#) completely replaced routine import testing by risk-based post-marketing surveillance testing in 2019 - Russian Federation: Federal Law N 449-FZ "On Amendments to Certain Legislative Acts of the Russian Federation on the entry into civil circulation of medicines for medical use, 28 November 2018.

◆ Import Testing

<https://www.ifpma.org/subtopics/import-testing/>

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IMPORT TESTING: FOR FURTHER READING

- IFPMA Position Papers
Appropriate Control Strategies Eliminate the Need for Redundant Testing of Pharmaceutical Products, Feb. 2016
<http://www.ifpma.org/wp-content/uploads/2016/02/IFPMA-Position-Paper-on-Redundant-Testing-vF.pdf>
Best Practices for In-Country Testing and Sample Management, Oct 2020.
www.ifpma.org/resource-centre/position-paper-best-practices-for-in-country-testing-and-sample-management
- J. Garbe, S. Rönninger
The Value of Import Testing versus Surveillance Testing,
Infographic, PDA letter, September, 2015, 34.
<http://www.ifpma.org/resource-centre/the-value-of-import-testing-vs-surveillance-testing/>
- J. Garbe, K. Ennis, G. Furer, M. Jacobs, S. Rönninger
Import Testing of Pharmaceutical Products Has Limited Safety Benefits and Can Add Risk to Patients,
Pharm. Tech. Europe, September, 2015, s6-s20 Including knowledge base: Import testing requirements by country
<http://images2.advanstar.com/PixelMaqs/pharma-tech-eu/digitaledition/08-2015-sp.html#12>
- S. Rönninger, J. Garbe,
Import testing turned into an unnecessary limitation of patient access to medicines as risks are managed effectively, *Pharmaceuticals Policy and Law*, 18, 2016, 141-156
<http://www.ifpma.org/wp-content/uploads/2016/11/13-Import-Testing.pdf>
- J. Garbe, M. Jacobs, S. Rönninger,
Import Testing: An Outdated Practice? Opportunities for Improved Access to Safe and Efficient Medicines,
Therapeutic Innovation and Regulatory Science 2017, 1-5.
<http://journals.sagepub.com/doi/10.1177/2168479017701980>



◆ Import Testing

<https://www.ifpma.org/subtopics/import-testing/>

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