#### **IPA** Meeting with the FDA



## **Quality Forum**

by D G Shah Secretary General Indian Pharmaceutical Alliance

> Washington DC 17 November 2015

#### **Outline of Presentation**

- About IPA
- IPA Quality Forum
  - Context and Focus
  - Vision and Mission Statement
  - Near Term Objectives and Initiatives
  - Impact Assessment
  - Subgroup 1: Data Integrity and Reliability
  - Subgroup 2: Best Practices and Metrics
  - □ Subgroup 3: Culture and Capacity Building
- 1<sup>st</sup> IPA Annual Conference: Focus on *Quality*

### About IPA

#### **Current Members (20)**

- Alembic
- Alkem
- Cadila Healthcare
- Cadila Pharmaceuticals
- Cipla
- Dr Reddy's
- Glenmark
- INTAS
- IPCA
- J B Chemicals

- Lupin
- Mylan
- Micro
- Natco
- Panacea Biotech
- Sun
- Torrent
- Unichem
- USV
- Wockhardt

#### Contribution

- 85% of Private Sector Spend in R&D
- 60% of Exports of Pharmaceuticals
- 43% of Domestic Sales\*
- 75% of Exports to USA
- 43 % of Total NLEM Sales\*
- \* AIOCD Pharmasoftech AWACS Pvt Ltd, MAR MAT 2014

#### "Pharmacy of the World"

#### **IPA Quality Forum**

#### Established to Jointly Develop Solutions and Address Quality Challenges

#### Context

- Challenges about quality of products from India
- Quality a bottleneck for access to affordable healthcare
- In this context a few questions stood out:
  - Below by the industry learn and implement best practices?
  - How can we help the industry engage various stakeholders to help shape initiatives for Quality improvement?

Hence, the Quality Forum to address cross cutting challenges in quality

#### Focus

- Near term focus on a pragmatic set of Quality related interventions
- Post that, scale up portfolio of initiatives and broaden participation

#### IPA Quality Forum

#### **Developed a Joint Vision and Mission Statement**

Vision	Help Indian Pharmaceutical Manufacturers be the global benchmark in Quality
Mission	<ul> <li>Demonstrate true partnership to customers, patients and regulators by improved quality and reliability</li> </ul>
	Be the conduit of change – Provide thought leadership, knowledge development and best practice sharing
	Measure, benchmark and publicize achievements in Quality
	Expand skill and capability of quality talent
	Deepen and strengthen industry's relationship with key stakeholders – in and outside India
	Provide platform for members and other stakeholders to interact and network

#### IPA Quality Forum Near Term Objectives

We have identified and prioritized a set of initiatives to drive the Quality Forum over the next few months:

- Ensuring data integrity guidelines are accurately interpreted and adopted
- Developing right Quality metrics to benchmark, diagnose and track improvements in Quality performance
- Building capability and the right quality culture



#### **IPA Quality Forum**

#### Near Term Initiatives to Address the Immediate Priority Topics



#### **IPA Quality Forum** Will Track and Measure Impact of These Initiatives

- Monitor implementation and • Objective: impact:
  - Year 1 adopt five best practices across companies, data reliability guidelines, metrics, middle management capability building
  - Year 2 show progress on lower 483s for data reliability and five areas of focus
- Share updates with FDA:

Based on individual work stream goals and milestones

- Solicit FDA inputs on the initiative design before and during implementation
- Seek FDA suggestions to solve problem and effectively address each area

#### Subgroup 1: Data Integrity and Reliability **Guidelines and Implementations**

Learn and integrate existing guidelines	Develop a set of guidelines and tools to help drive effective implementation		
Learn and integrate various existing guidances e.g. FDA, MHRA, WHO (draft), PDA etc. and capture the common themes:	<ul> <li>Translate common themes, requirements and learnings from various guidelines into one single implementation guideline and associated tools with the following features</li> <li>Comprehensive – covering elements such as data integrity related culture, awareness and capability, process design, IT system frameworks, governance and risk mitigation</li> <li>User-friendly – Presented in a way that can be easily understood through use of innovative delivery forms e.g. infographics, visualization schemes, other technology enabled elements</li> </ul>		
<ul> <li>Paper printouts are not true copies; System generated data should be retained in electronic form i.e. Electronic data is the raw data</li> </ul>			
<ul> <li>Data must be ALCOA+ i.e. Attributable, legible and permanent, contemporaneous, original and accurate as well as complete, consistent, enduring and available;</li> </ul>			
<ul> <li>A data integrity</li> <li>If using a computerized system, the</li> </ul>	<ul> <li>Pragmatic and flexible – Taking into account current starting position of various companies</li> </ul>		
<b>software should prevent</b> unauthorized modification of data	<ul> <li>e.g. separate treatment for 11 systems of different maturity levels, practical dos and dont's</li> <li>Proactive – Developed to be used for proactive</li> </ul>		
Review of electronic data control.      SOURCE: MHRA, FDA guidelines, Expert interviews, sub-group discussions	reduction, not just post-mortem analysis. Includes working with vendors etc. if required		
	PRIVILEGED AND CONFIDENTIAL 10		

# Subgroup 1: Data Integrity and Reliability Seven Elements of the Overall Guideline



#### Subgroup 1: Data Integrity and Reliability Develop a Draft Version by End-April 2016



SOURCE: Sub-group 1 discussion

#### Subgroup 2: Best Practices and Metrics Context, Vision and Objectives

#### Context

- Quality Forum realizes the need to benchmark Quality processes in India with international best practices and refine metrics-based performance tracking in-line with the recent FDA draft guidelines
- IPA offers an ideal platform for companies to leverage their collective wisdom / expertise in these areas, and lead the journey of Quality transformation for Indian pharma industry

#### **Our vision**

- To lead the Indian pharma industry in transformation of quality processes and performance
- Establish consistent set of metrics and methodology to benchmark the quality performance across the core companies
- Strive to achieve best-in-class Quality systems and processes globally

#### **Objectives**

- Best practice processes:
  - Identify and strengthen key Quality processes with best-inclass practices
  - Standardize and implement best practices/processes across organizations

#### Metrics:

- Adopt a standard set metrics to monitor quality performance and benchmark against Indian and global peers
- Identify performance gaps and come up with set of interventions to achieve best-inclass quality performance

#### Subgroup 2: Best Practices and Metrics Initiatives to Achieve Objectives

#### Quality processes

- Identified an exhaustive list of processes to be shared, harmonized and improved across the companies
- Four processes prioritized for 1<sup>st</sup> wave of bestpractices
  - Process validation<sup>1</sup>
  - Investigations and root-cause assessment
  - Media fill + Environment monitoring and recording of results
  - Good laboratory practices e.g., documentation, analyst qualification, data review, batch testing records<sup>2</sup>
- Shared practices with the forum, generating ideas internally and engaging with the subject matter experts to benchmark processes with global best practices

#### **Metrics**

- Defined 5 metrics, in-line with recent FDA draft guidelines, to be calculated and tracked periodically. These are:
  - Lot acceptance rate
  - Product quality complaint rate
  - Invalidated OOS rate
  - Annual product review / product quality review time rate
  - CAPA Effectiveness rate<sup>3</sup>
- Currently being implemented at 2-3 pilot sites per company. Will be rolled out across the network subsequently

Additionally, developing a collective response to FDA draft guidelines.

<sup>1</sup> Pre requisite, environmental, scalable machines harmonization unit operation wise

<sup>2</sup> Additionally QbD in Analytical method development (capturing observation during sample preparation, during validation batches analysis) 3 To be calculated based on re-trainings (as per FDA draft guidance) as well as based on repetition of failures

#### Subgroup 2: Best Practices and Metrics Implementation of Work Plan

	Sept 2015	Oct – mid Nov 2015	<i>mid Nov – Dec</i> 2015	Jan-Mar 2016
Best- practice processes	<ul> <li>Identify and prioritize processes for best-practices</li> <li>Share current practices across the Quality Forum</li> </ul>	<ul> <li>Develop draft master SOPs based on current practices to brainstorm improvement ideas</li> <li>Engage with SME's and cross- functional teams to develop final SOPs</li> </ul>	<ul> <li>Finalize best practice SOPs / Protocols across diff dosage forms and API</li> <li>Implement best- practices and train employees</li> </ul>	<ul> <li>Identify 3-4 additional process for best-practices</li> </ul>
Metrics	<ul> <li>Finalize metrics, definitions and pilot sites</li> </ul>	<ul> <li>Launch pilot at 10- 12 pilot sites across six companies</li> <li>Share response with FDA on draft metrics guidelines</li> </ul>	<ul> <li>Plan to scale up metric pilot and IT-enablize</li> </ul>	<ul> <li>Analyze outcome of metrics pilot</li> <li>Scale to other sites including Non-orals and API</li> <li>Identify additional metrics to be taken up</li> </ul>

#### Subgroup 3: Culture and Capability Building *Findings*

	We note cultural/behavioral challenges and technical/training gaps
Major Findings	<ul> <li>Cultural/behavioral gaps lay in areas such as: accountability and ownership, openness and transparency, discipline and professionalism as well as managerial courage to dissent.</li> <li>Technical/training gaps in Investigation management, Sterility Assurance, Regulatory requirements, Facility &amp; equipment lifecycle management, Data integrity.</li> <li>Urgent need to close the above cultural and technical shortcomings.</li> </ul>

#### Subgroup 3: Culture and Capability Building Measures

Measure 1: Run a structured gap assessment survey, aimed at substantiating and validating major findings (gaps) with granular fact-based data. Measure 2: Generate cultural/behavioral shifts at plant management level, by focused sessions during which current Suggested Measures individual and group behavior will be analyzed. Then, desired

behaviors will be defined and piloted. This will be followed by company-wide roll out of these new behaviors.

- Measure 3: Close technical gaps by developing joint training modules, emphasizing theory, regulatory expectations and case studies. A total of 15 subjects are identified where technical gaps exist.
- Measure 4: Perform relevant effectiveness checks focusing on the above capability building efforts. Identification Of continuous improvement plans.

problem areas

overcome

to

the

#### Subgroup 3: Culture and Capability Building Implementation Timelines

The training programs will first target middle management in six of India's leading companies and subsequently be spread more widely across the industry

	November 2015	December 2015	Q1 CY 2016	Q2 CY 2016	Q3 CY 2016
Technical	<ul><li>Launch of modules:</li><li>Data integrity</li><li>Regulatory Requirements</li></ul>	<ul> <li>Launch of modules:</li> <li>Investigations</li> <li>Facility and Equipment Qualification Lifecycle</li> </ul>	Launch of module: Sterility Assurance	Offer the modules to other Companies Phase 2 modules	
Behavioral	<ul> <li>Launch gap survey (to validate gap findings and establish baseline)</li> </ul>	<ul> <li>behavior shift forums covering ~70 managers of two plants per company</li> </ul>	<ul> <li>continue with behavior shift forums with more plants per company</li> </ul>	Offer the modules to other companies	

#### 1<sup>st</sup> IPA Annual Conference Focus on Quality

#### Purpose of the Annual Conference

 Marquee event for the IPA to share and promote initiatives, knowledge and publications with all relevant stakeholders (government, regulators, patients, media)

#### 1<sup>st</sup> Conference in February 2016

- Theme: Towards Excellence in Quality and Compliance
- Speakers from regulatory agencies and industry experts
- Topics to be covered
  - Data Integrity Guidelines
  - Quality Metrics and Benchmarking
  - Capability Building

# THANK YOU

dgshah@vision-india.com

PRIVILEGED AND CONFIDENTIAL 20

IPA: 29X15