

BARBARA W. UNGER

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US & EU GMP REGULATORY INTELLIGENCE & QUALITY ASSURANCE

Demonstrated expertise in GMP auditing and associated remediation for both traditional small molecule drugs and biotechnology products. Auditing experience includes evaluations of data management and data integrity. Deep understanding of history and intent of CDER, CBER, and EMA GMP requirements. Ability to interpret requirements and impact of potential changes and trends. Able to quickly identify and analyze new GMP enforcement requirements and trends and communicate impact to relevant functional areas and senior management to set priorities, initiate policy changes and identify advocacy opportunities. Developed and implemented comprehensive GMP Regulatory Intelligence program within Fortune 500 pharmaceutical company.

Areas of expertise:

- GMP Regulatory Intelligence
- GMP Enforcement
- GMP Enforcement Trends
- GMP auditing and remediation
- GMP inspection readiness evaluations
- Drug Recall Trends
- Device Recall Trends
- GMP Audit
- GMP Training
- Policy Issues & Interpretation
- Advocacy Strategies

SELECTED ACCOMPLISHMENTS

- Led Corporate GMP audit group focused on API and Quality Systems for primarily biotechnology products.
- GMP Consultant to pharmaceutical industry with emphasis on biotechnology products.
- Developed, implemented and maintained comprehensive GMP Regulatory Intelligence program within Amgen Inc. for eight years, including surveillance, analysis and communication of new or revised legislation, regulations, guidance and GMP inspection trends for major regulatory jurisdictions.
- Founding chairperson and 5 year leadership of Rx-360 working group for GMP/GDP Intelligence Reporting.
- Led GMP Intelligence subgroup of the Midwest Discussion Group 2010-2014.

PROFESSIONAL EXPERIENCE

Unger Consulting Inc., Newbury Park CA

2014 – present

Provide GMP auditing and consulting services to the pharmaceutical and biotechnology industry including in the areas of data management and data integrity. Editor-in-Chief for weekly GMP Newsletter published by FDAzilla.

AMGEN Inc., Thousand Oaks, CA

2004—2014

Director, External Quality, 2009-2014

Director, Corporate Quality Compliance, 2006-2009

Developed, implemented and maintained a comprehensive GMP Intelligence program for 8 years. Included surveillance, analysis and communication of new or revised legislation, regulations, guidance and GMP inspection trends for major regulatory jurisdictions.

- Published bimonthly newsletter with readership of >1000 Amgen staff.
- Special data collection and analysis for Quality Senior Vice President.
- Led or participated in industry trade group efforts to influence regulatory authority policy decisions.
- Founding Chairperson of the Monitoring and Reporting work stream of Rx-360 Supply Chain Trade Organization (2009 – 2014).
- Chairperson of the GMP-Intelligence Subgroup of the Midwest Discussion Group (2010-2014).

Associate Director, Corporate Quality Compliance, 2004-2006

Led group of up to six auditors responsible for internal audits of Active Pharmaceutical Ingredients (API) manufacturers, both Amgen owned and contract manufacturers located outside the US. Audited Corporate Quality Systems. Scheduled, coordinated and conducted audits, wrote reports, assigned criticality, followed up corrective actions, developed and communicated metrics / issues to management.

DON HILL & ASSOCIATES Inc.

2001-2004

Consultant to Biologics and Pharmaceutical industries regarding CGMP Compliance, Quality Programs and CMC aspects of Regulatory Affairs.

Principal Consultant

- Assisted mid and large cap pharmaceutical clients in development and implementation of Quality System improvements.
- Performed mock inspections as preparation for regulatory agency inspections, developed gap analysis and prioritized remediation activities.
- Assisted clients responding to FDA 483 inspection observations and warning letters.

ELI LILLY AND COMPANY, Indianapolis, IN.

1994-2001

Associate Regulatory Consultant, Quality Unit, 2000-2001

Developed and implemented project management plan to prepare both company owned and contract manufacturing sites for pre-approval inspection (PAI) for a novel recombinant protein product.

Associate Regulatory Consultant, Regulatory Affairs, CMC, 1996-2000

Senior Regulatory Representative, Regulatory Affairs, CMC, 1994-1996

Responsible for global CM&C and facility regulatory issues for selected biotechnology pharmaceuticals. Developed regulatory plan and strategy relative to CM&C and facility issues ensuring that regulatory issues align with other areas within the project team. Served as technical mentor to new department members assigned to biotechnology products.

- Coordinated, wrote and edited CM&C sections of regulatory submissions such as IND's, IND amendments, CTX, annual reports and BLAs or NDAs for the development phase project teams. Additionally, coordinated interaction with FDA reviewers as needed to resolve issues
- Provided due diligence assessment of potential joint business ventures for Business Development group, provided input on structure of contractual agreements for joint ventures.

EDUCATION

B.S., Chemistry major, Microbiology minor, University of Illinois, Urbana, Illinois.

SELECTED INVITED PRESENTATIONS

- PDA Southern California Chapter, May 10, 2012, *Data Integrity Including Electronic Records: Still an Issue to the Industry*
- Puerto Rico Pharmaceutical Quality Association / U of WI School of Pharmacy, January 2012, *Data Integrity Including Electronic Records: Still an Issue to the Industry*