



How to Get the Business Started?

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EBF / CBF Knowledge Exchange China Days 12. September 2014



Agenda

- o How to start?
- Scope of the "audits"
- Outline of the process
- Preparation
- Conduct
- Evaluation
- Conclusion





How to start?

Collect Information

- Search the internet / literature
- Use your professional network
- Meet relevant people
- Prepare and discuss your strategy with experienced people
- Be aware of the timeframe







- In depth evaluation of the bioanalytical facilities
- Evaluation of the Phase I units
- Evaluation of the animal facilities
- Evaluation of the cooperation between CRO and CFDA
- Evaluation of internal alignment possibilities
 - Departments at Bayer with outsourcing activities in China
 - "One face to the customer"



Outline of the process

- Preparation
 - CROs were asked to complete a survey
- Evaluation based on a general procedure
 - Bioanalytical Laboratories, Clinical Phase I, Non-clinical PK and Toxicology Units
- Requirements for the evaluation
 - Application of a standardized procedure
 - Enable an unbiased evaluation
 - Collect as much information as possible within the given time frame
- Classification the CROs according to their business orientation



Main Topics in Survey

- Company Core Data
- Personnel
- Qualifications
- Documentation systems
- Experiences with Small Molecules
- Experiences with Biologics
- Sample management
- Communication





Evaluation Criteria

- Facilities
- Experiences
- Quality
- Quality systems site
- Quality systems equipment
- SOPs
- Procedures
- Overall impression of the laboratory
- Importance of CRO for Bayer
- Importance of Bayer for the CRO





Evaluation Measures

- Availability
- o Score 1-4
 - Reasonable
 - Acceptable
 - Good
 - Excellent
- Clustering of CROs based on their business orientation (colour code)
 - Commercial CROs
 - Academic CROs
 - Commercial CROs with Academic Phase I Units





Clinical Phase I Units

- Interviews with site staff on patient pool, past experiences and standard procedures in practices
- Facilities, including the wards, alarm systems, back-up power, emergency care medications and systems
- Phase I units were evaluated and scored from the following aspects:
 - Experience
 - Number of completed trials (may be adjusted based on trial complexity)
 - Clinical trial population
 - Principal Investigators/Clinicians/Site staff
 - Quality and process management





Facilities

- Bioanalysis
- Non-clinical Pharmacokinetics
- Toxicology
- O Phase I unit
- Clinical laboratory
- Central laboratory
- Clinical operations
- Long-term storage facilities
- o CMC



Evaluation based on availability



Experience

- O Global clinical studies:
 - Most experienced in group based on information received internally and at the CROs
 - Number of conducted studies
 - Preparation of submission to FDA or EMA
 - Experienced in clinical operations
 - Phase I part in global Phase III clinical studies



- Local clinical studies:
 - Experience based on information received internally and the CRO (Phase I studies)
 - Number of conducted studies
 - Preparation of local submission to CFDA
 - Experienced in clinical operations



Experience

- Bioanalysis: Experience judged on visit
 - Method development and validation
 - Study sample analysis



- Animal studies: Experience judged on visit
 - Animal facilities and procedures
 - Quality of surgery room



Experience										
Score	3 - 4			3 – 4				2 – 3		
Global Studies			Х		Х					
Local Studies					Х			Х	Х	Х
Bioanalytics	X	Х	Х	Х		Х		Х	Х	Х
Animal Studies		X	X							



Quality System - Systems and Equipment

- Maintenance of refrigerators, freezers and alarm systems
- Backup power supply for the facility
- Backup storage of e-Data
- Alarm system of the archive and its maintenance
- Safety instruction for personnel
- Training procedures of person
- Computer system alidation procedures (brief check)
- O Documentation of IQ, OQ, PQ and instrument maintenance incl. small laboratory equipment
- Documentation of calibration and maintenance of pipettes and balances



SOPs

Score 4: Bilingual high quality SOPs

- Statement on priority language in terms of conflicts is available
- All relevant topics for BA, sample and quality management are covered

Score 3E: High quality SOPs written in English

• All relevant topics for BA, sample and quality management covered

Score 3C: High quality SOPs written in Chinese

• All relevant topics for BA, sample and quality management covered

Score 2: **SOPs** written in English

• All relevant topics for BA, sample and quality management listed





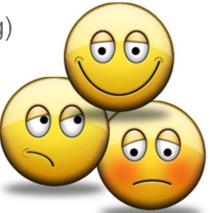
Procedures

- Quality of procedures and documentation in the bioanalytical lab
 - Sample receipt, storage, transfer and disposal
 - Sample preparation
 - Sample analysis
 - Report template for method ya to ation and study sample analysis
- QA performance
 - Aums tedul
 - Lifecy e of SOPs
 - Documentation of training
 - Archive (restriction of access, paper archive, e-Archive)



Overall Impression of the Laboratory

Overall impression of the laboratory (gut feeling)



- Communication with scientific and technical personnel
- Impression on flexibility and cooperativeness





Importance of CRO for Bayer

- Score 4: CRO can be seen as future partner for global <u>and</u> local clinical including bioanalytics.
 Cooperation with other Bayer group's are already established
- Score 3: CRO can be seen as future partner for global <u>and</u> local clinical studies including bioanalytics
- Score 2: CRO can be seen as future partner for global <u>or</u> local clinical studies including bioanalytics.
- Score 1: CRO can be seen as future partner for <u>local</u> clinical studies including bioanalytics
- ++ CRO provides non-clinical PK and toxicology studies
- + CRO provides clinical operations



Importance of Bayer as a client for the CRO



- Score 4: Preferred cooperation partner for global and local clinical and non-clinical PK, toxicological and bioanalytical studies
- Score 3: Preferred cooperation partner for global <u>and</u> local clinical and bioanalytical studies
- Score 2: Preferred cooperation partner for global <u>or</u> local clinical and bioanalytical studies
- Score 1: Minor cooperation partner, Bayer is one small client amongst many other important clients



List of Documents received / reviewed

- Completed survey
- Organizational charts
- Floor plan
- Company profile
- Index of BA SOPs
- Copies of Certificates
- Study protocol and report template(s)
- Work sheets
- Training documentation
- Disaster plan
- Computer Systems Validation Documentation







Conclusion

- Highly efficient process to evaluate and compare bioanalytical CROs and Phase I Units in a very limited period of time
- Survey was very helpful for the preparation of the audits
- Standardized template for laboratory tour enabled straight forward documentation
- Evaluation procedure using scores and business clusters was helpful to achieve an unbiased judgement
- Cooperation of several internal functions was very supportive for the establishment of streamlined processes





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Thank you