

A panoramic view of the Berlin skyline at sunset, featuring the TV Tower (Fernsehturm) and various city buildings under a clear blue sky.

2024 CDISC + TMF
EUROPE INTERCHANGE

BERLIN

24-25 APRIL: CONFERENCE & EXPO | 22, 23, 26 APRIL: TRAININGS

Navigating Data Package Submission in the Chinese Regulatory Landscape

Rebecca Moretti, Lead Statistical Programmer, Chiesi Farmaceutici S.p.A
Emanuele Rocco Calabrò, Lead Data Manager, Chiesi Farmaceutici S.p.A



Meet the Speakers

Rebecca Moretti

Title: Lead Statistical Programmer

Organization: Chiesi Farmaceutici S.p.A

Rebecca graduated in Biostatistics Master of Science at University of Milano-Bicocca and is currently a Lead Statistical Programmer with more than 8 years of experience in the pharmaceutical sector. Before joining Chiesi, she worked in different CROs both as a Statistical Programmer and as a Real-World Evidence Analyst. She is currently Lead Statistical Programmer and SDTM Subject Matter Expert in Chiesi.



Emanuele Calabrò

Title: Lead Data Manager

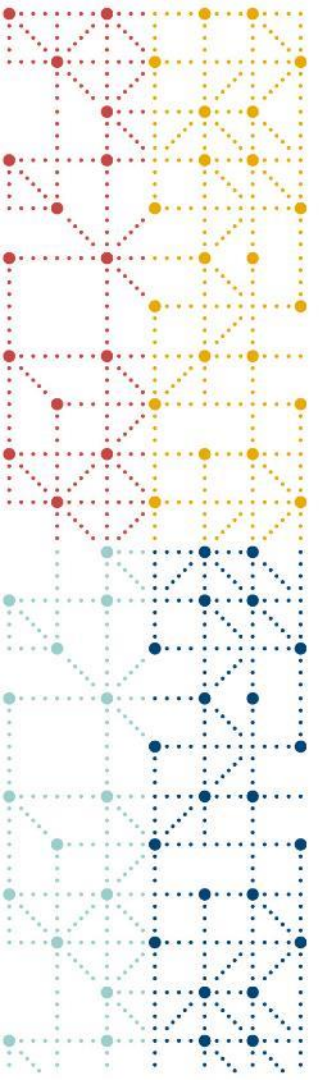
Organization: Chiesi Farmaceutici S.p.A

Emanuele has a Master of Science in Biostatistics, and he is a data management expert with over 13 years of experience in the pharmaceutical sector. He is a member of the CDISC Controlled Terminology Protocol Deviation sub-team, a member of Chiesi Protocol Deviation Organization Working Group, and a referent point in Chiesi on submission in Chinese Medicines Approval Authority (NMPA).



Disclaimer and Disclosures

- *The views and opinions expressed in this presentation are those of the authors and do not necessarily reflect the official policy or position of CDISC.*
- *The authors have no real or apparent conflicts of interest to report.*




Agenda

1. Setting the scene
2. Regulatory package
3. Clinical data package
4. Walls / Wins / Wisdoms



Setting the scene

Overview on our Drug Development process

The drug was developed and approved in Europe  and other countries (like Australia)

 **Chiesi** expansion into the Chinese market

Two studies were designed on a Chinese  population: PK study (on HV) and pivotal study

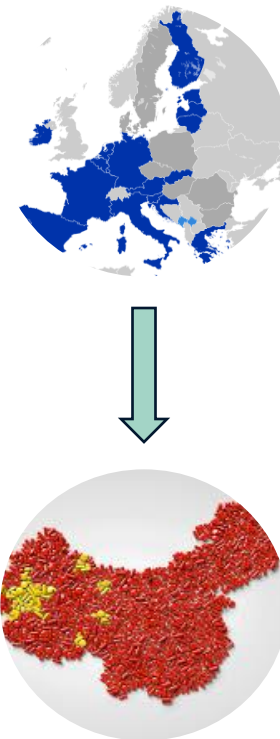
Application of the Chinese Clinical Technical Requirements 

PK: pharmacokinetics
HV: healthy volunteers

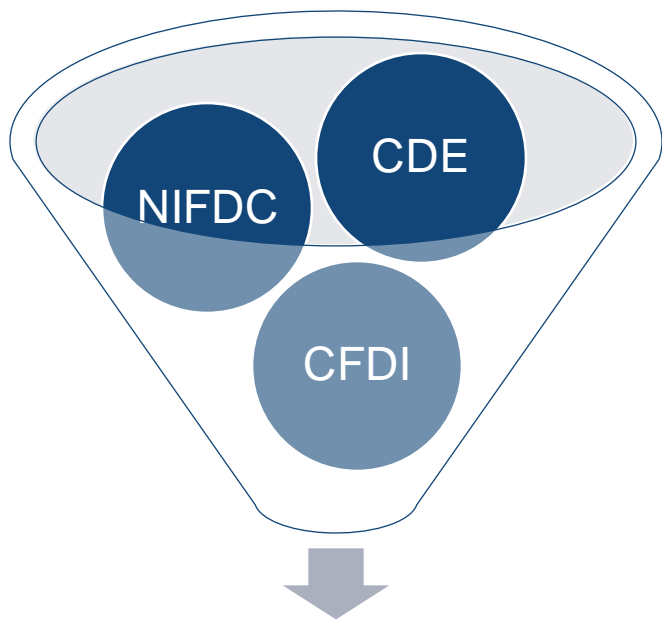
Source:

Drugs marketed overseas but not marketed in China – Clinical technical requirements

- <https://www.cde.org.cn/zdzyz/opinioninfopage?zdyzldCODE=4832fe1bef75686610c58cc092e0f911&rddt=1>
- http://english.nmpa.gov.cn/2020-11/18/c_568155.htm



Chinese national authorities involved in the NDA review



Role	Official name	Responsibility
Main authority	National Medical Products Administration (NMPA)	Administrative approval for NDA application
	Center for Drug Evaluation (CDE)	Technical review
Affiliated institutions	National Institutes for Food and Drug Control (NIFDC)	Quality test conduction and review of quality tests
	Center for Food and Drug Inspection (CFDI)	Inspection of drug clinical trial, non-clinical research institutions and sponsors



NATIONAL MEDICAL PRODUCTS ADMINISTRATION

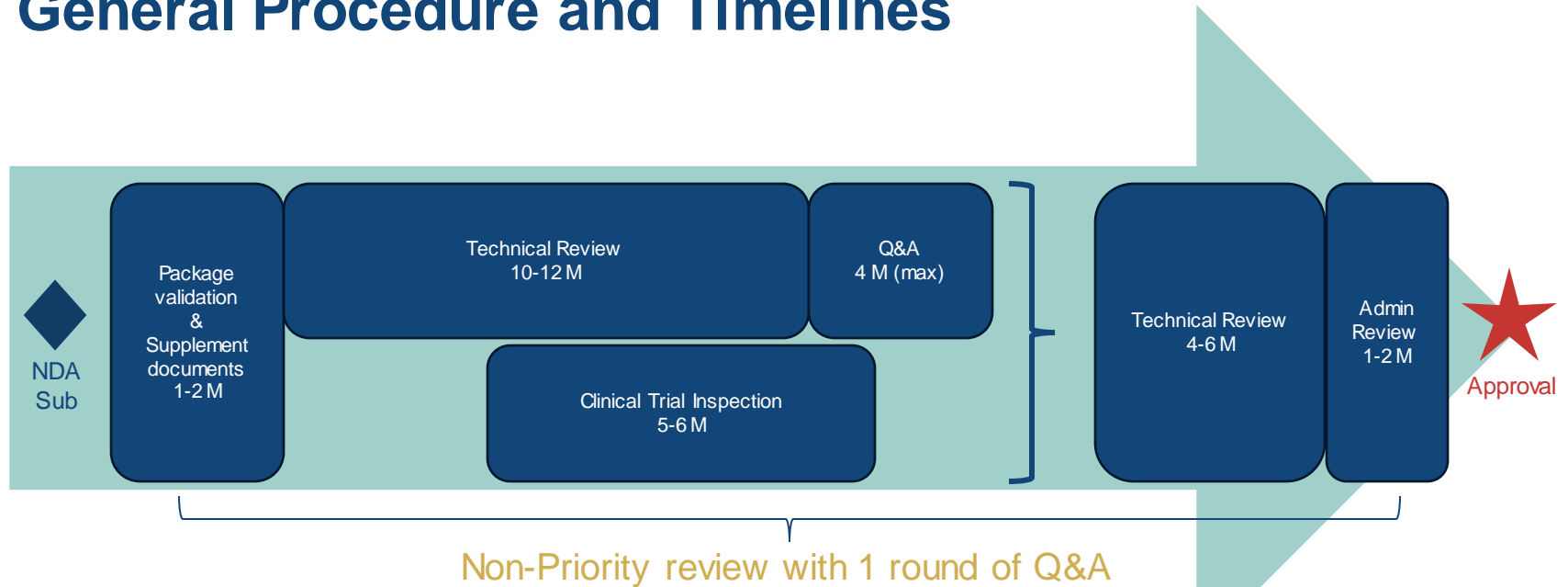
国家药品监督管理局

<https://english.nmpa.gov.cn/>



NDA submission

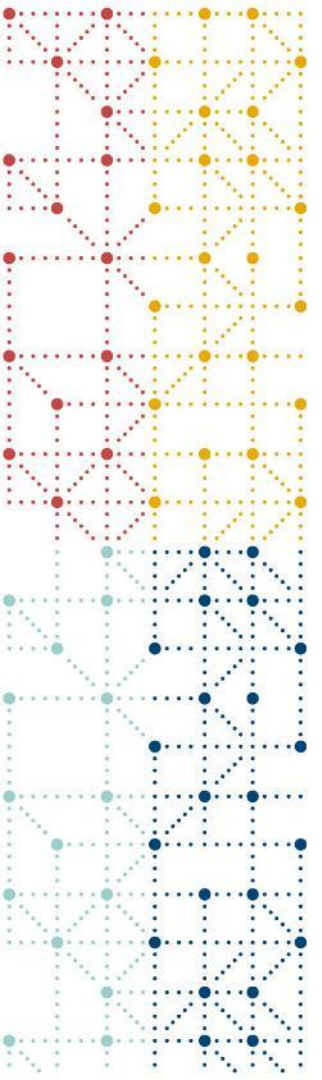
General Procedure and Timelines



Notes:

Q&A Timeframe highly depends on the duration of the preparation of response document;
8M extension if a 2nd round of Q&A is required

This time may vary due to the time frame of Q&A and inspection.



Regulatory package

Regulatory package



1

eCTD Clinical Modules on Europeans population

eCTD: electronic Common Technical Document

2

Clinical Study Reports of Chinese studies

3

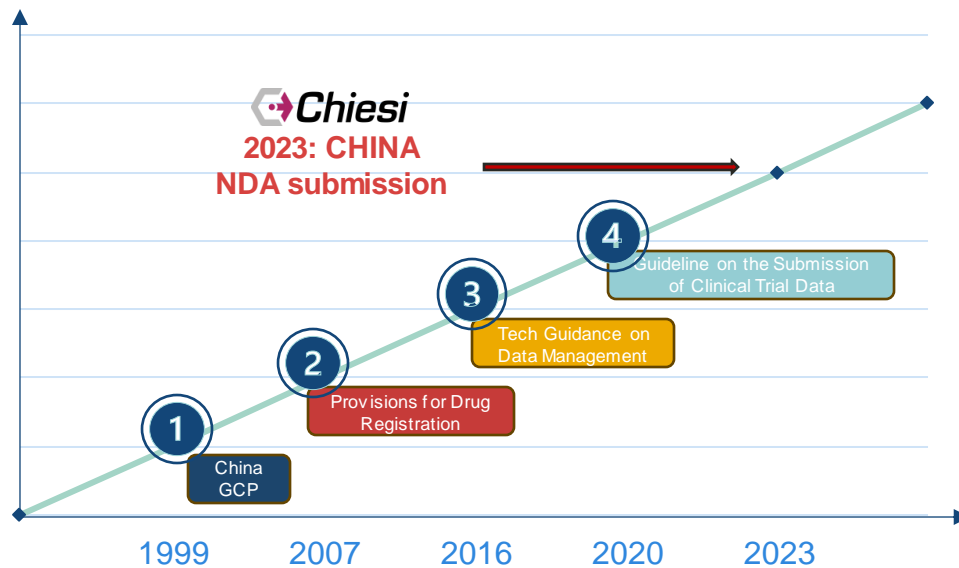
Additional documents on clinical development in China

4

Clinical Data Package

Regulatory package: Clinical Data

Clinical Data Submission in China



Source:

https://data42.cn/c3c/webinar/20200527/C3C_NMPA.mp4

Guideline on the Submission of Clinical Trial Data (Jul 2020)

Version:

• July 2020

Field of application

• This guideline is **primarily applicable to pivotal clinical trials** for the purpose of drug registration and marketing, as well as to clinical trials for non-registration purposes

Submission components of Clinical Trial Data:

• Study database
• Analysis database
• Data definition file
• Data reviewer's guide
• Annotated CRF
• Programming code

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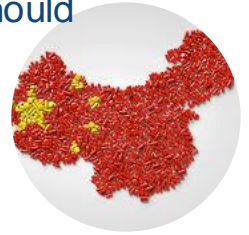
Guideline on the Submission of Clinical Trial Data (Jul 2020)



Aligns technical requirements for clinical data package supporting submission with international CDISC standards

Which studies should be submitted as part of the data-package?

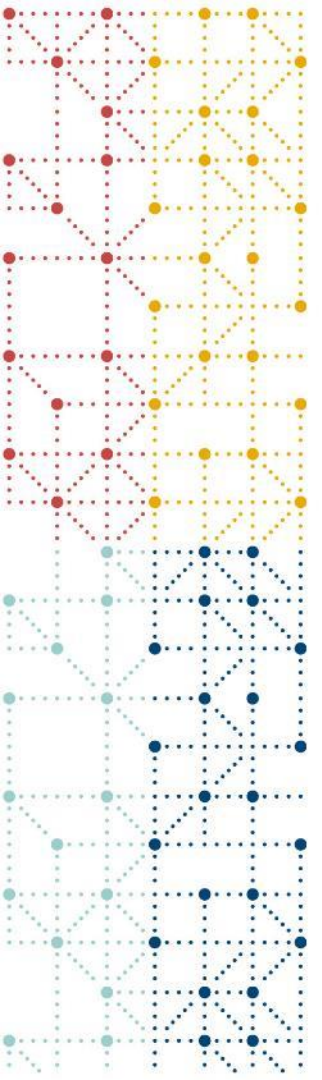
- Studies conducted in China should be submitted
- At the moment PK studies in Chinese HV are not required
- Data package related to studies conducted abroad (i.e., EU only) are not required



Details on:

- Components of the data package
- Format and conventions
- Additional details

PK: pharmacokinetics
HV: healthy volunteers



Clinical data package

Clinical data package: required elements

DATABASES: SDTM and ADaM

XPT V5 or above* DM and ADSL are mandatory

ANNOTATED CRF

aCRF.pdf*

DATA DEFINITION FILES

.xml* or .pdf*
.pdf is not required when .xml is used for submission

PROGRAMMING CODE

Readable and understandable
Do not include external program calls; Avoid to use nested macros.
.txt as the file extension

DATA REVIEWER'S GUIDE

.pdf*
Recommended but not mandatory

*Chinese translation requirement for foreign language database



Clinical data package: annotated CRF



NMPA requirements

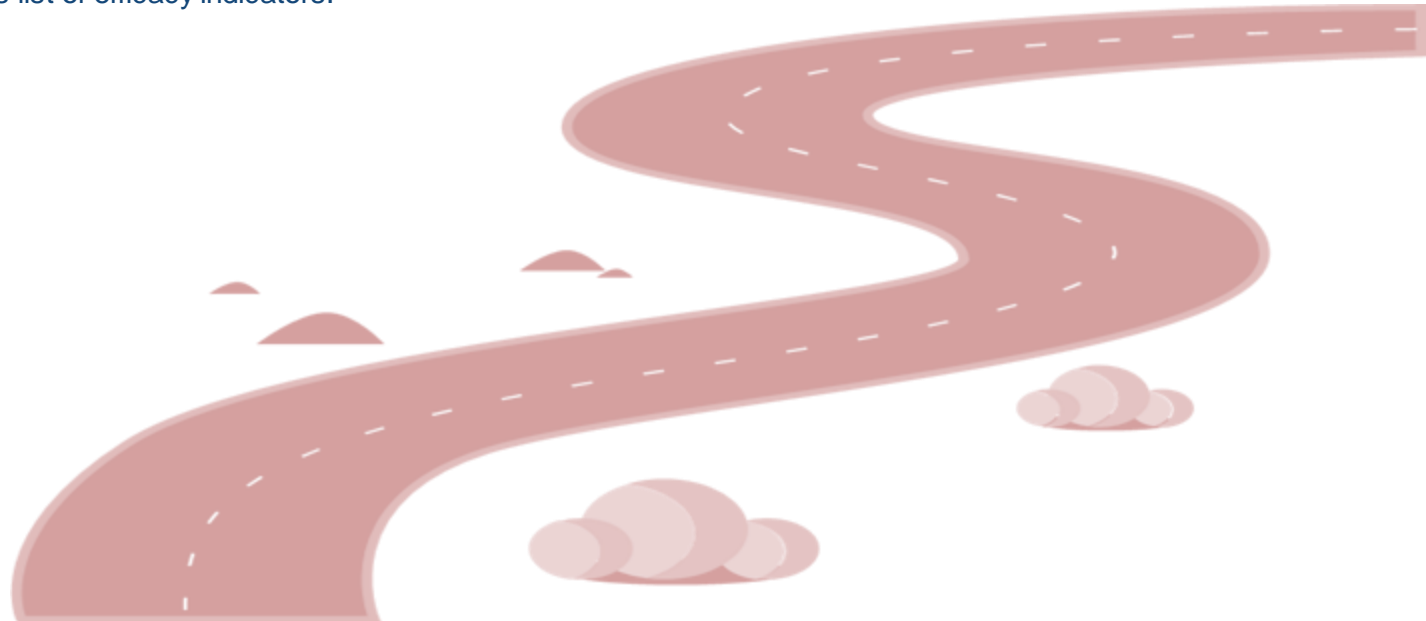


- Pdf format

Chinese translation:



- questions designed to collect data;
- values or codes list of efficacy indicators.



Clinical data package: annotated CRF



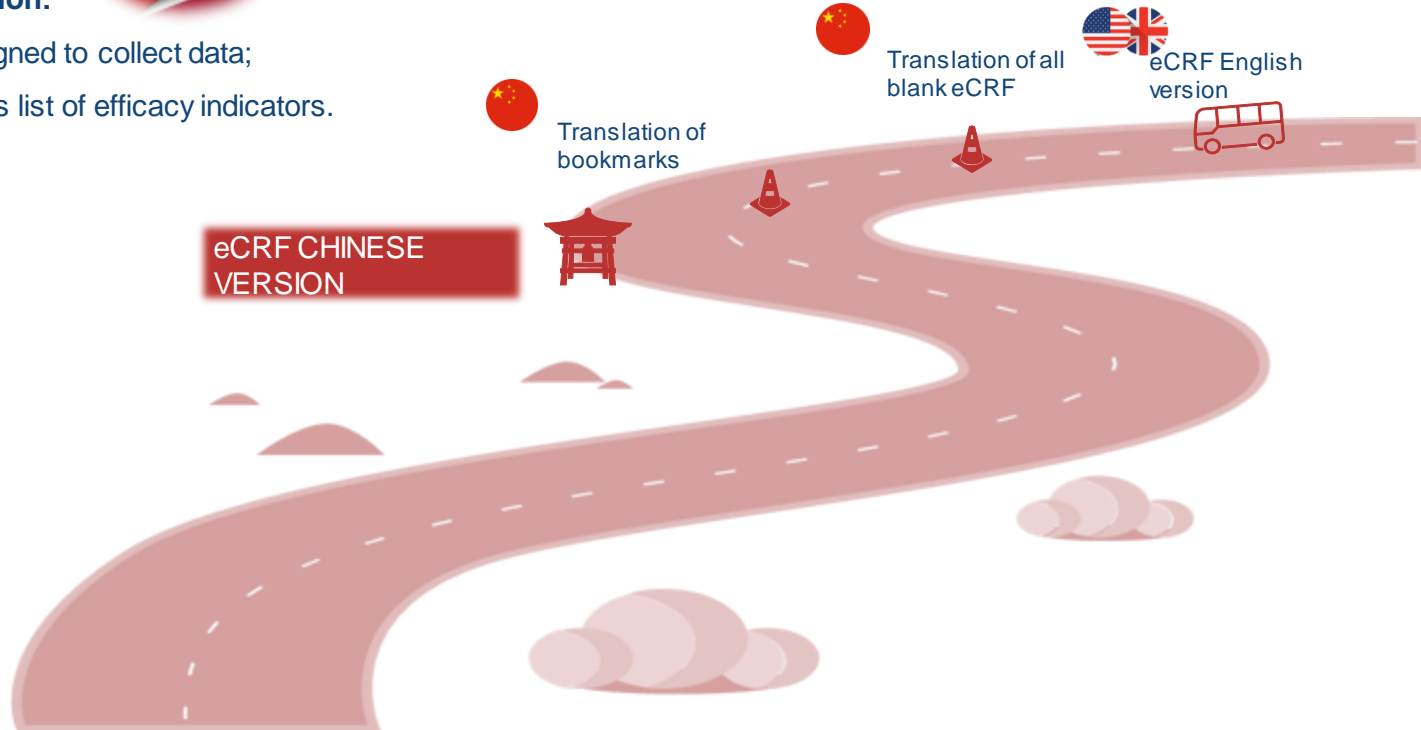
NMPA requirements



- Pdf format

Chinese translation:

- questions designed to collect data;
- values or codes list of efficacy indicators.



Clinical data package: annotated CRF



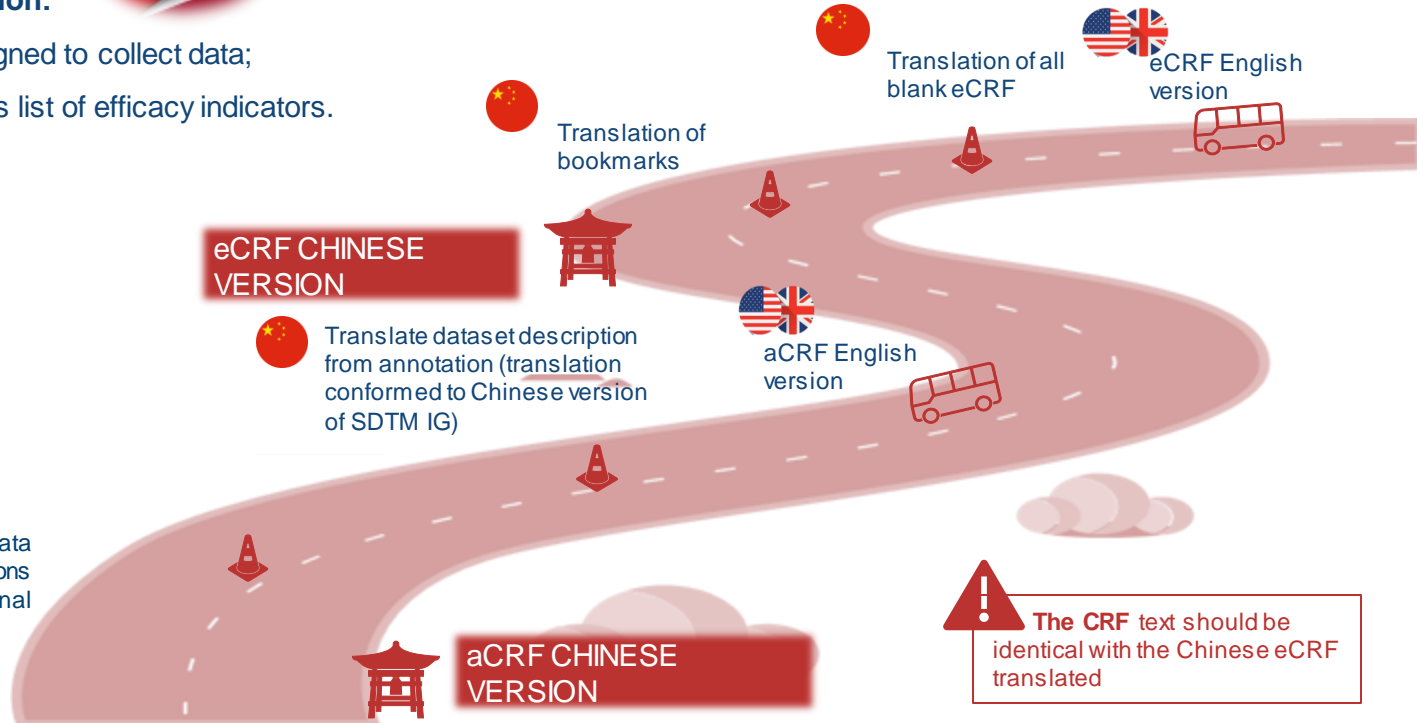
NMPA requirements



- Pdf format

Chinese translation:

- questions designed to collect data;
- values or codes list of efficacy indicators.



Translation of External data Data Transfer Specifications (DTS) because of external data not integrated in EDC

! The CRF text should be identical with the Chinese eCRF translated

Clinical data package: annotated CRF



Annotated Study Book - Page 19 of 91

[DM] Demography (DM)

1. Date of Birth [Date of Birth]	[Date of Birth] (DD/MM/YYYY) <input type="text"/> / <input type="text"/> / <input type="text"/> <input type="button" value="BRTHDTC"/>
2. Age [Age]	[Age] <input type="text"/> <input type="button" value="AGE"/>
3. Sex [Sex]	[Sex] <input type="button" value="SEX"/> <input type="radio"/> Male <input type="radio"/> Female
4. Race [Race]	[Race] <input type="checkbox"/> White <input type="checkbox"/> [Race] Asian <input type="radio"/> North East Asian <input type="button" value="SUPPDMQVAL when QNAM='ASIANNS'"/> <input type="radio"/> South East Asian <input type="checkbox"/> Black <input type="checkbox"/> [If Other ticked, please specify] Other If Other ticked, please specify <input type="button" value="SUPPDMQVAL when QNAM='RACEOTH'"/>

RACE, when more than one selected, RACE='MULTIPLE' and individual responses are in SUPPDMQVAL



Annotated Study Book - 第18页, 共91页

[DM] 人口统计学 (DM)

1. 出生日期 [出生日期]	[出生日期] (DD/MM/YYYY) <input type="text"/> / <input type="text"/> / <input type="text"/> <input type="button" value="BRTHDTC"/>
2. 年龄 [年龄]	[年龄] <input type="text"/> <input type="button" value="AGE"/>
3. 性别 [性别]	[性别] <input type="button" value="SEX"/> <input type="radio"/> 男 <input type="radio"/> 女
4. 种族 [种族]	[种族] <input type="checkbox"/> 白人 <input type="checkbox"/> [种族] 亚裔 <input type="radio"/> 东北亚 <input type="button" value="SUPPDMQVAL when QNAM='ASIANNS'"/> <input type="radio"/> 东南亚 <input type="checkbox"/> 黑人 <input type="checkbox"/> [如勾选“其他”，请说明] 其他 如果勾选其他，请说明 <input type="button" value="SUPPDMQVAL when QNAM='RACEOTH'"/>

当选择了多个种族时，RACE='MULTIPLE' 且各选项记录在 SUPPDMQVAL 中

Clinical data package: annotated CRF



Non-CRF Data Guidelines Page 8 of 14

Method	Medium	Zipped	Password Protected	Encrypted
<input type="checkbox"/> Counter	Recordable Media*, e.g., Diaries, CD/DVD, SD Card, etc. Please specify _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other (i.e., US Mail)	<input type="checkbox"/> Electronic Recordable Media*, e.g., Diaries, CD/DVD, SD Card, etc. Please specify _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Reason for more than one Transfer Method: _____
*Lame acronymly

6. TRANSFER FREQUENCY / SCHEDULE

Monthly (specify date: every 3rd Monday of each month)
 Bi-monthly (every 2nd and 4th Monday of each month)
 Quarterly (every 1st Monday of each quarter)
 Real Time Transfer: Production Transfer: Final Database Lock
 Other: As Specified in sponsor data table

NOTE: Transfers are to be received 3rd Monday of the month. If this schedule falls on a public holiday, the transfer should be received on or by the previous business day. Frequency of transfers is subject to change according to project deliverables; data transfers will occur more frequently, i.e., weekly when approaching major milestones and may be formally requested as needed by the Data Team Lead.

7. DATA LOADING METHODOLOGY

The data will be loaded into the format specified below from the transfer file received according to the format (Section 4) and structure (Section 8) specified in this document.

Load into SAS format

Load into Oracle table
 Load into Informatica Account
 Load into Informatica Account Table

Other: _____
 Not Applicable
 *File will not be used for data transfer purposes, only for reconciliation purposes.

Non-CRF Data Guidelines Page 9 of 14

USCAT = "STUDY MEDICATION"
ECSCAT = "Recorded in the patient diary"
ECROTB = RESPIRATORY INTENSIFICATION

USCAT = ASH (Autism Symptom Score)

8. FILE STRUCTURE

Variable Name	Variable Description/Label	Data Type	Size	Mandatory	Unique	Comment / expected output
STUDY	Study identifier	CHAR	20	X	X	
PT	Patient identifier USUBID	CHAR	8	X	X	Patient identifier range (Min: 1, Max: 8) Site identifier as the prefix, then 3 digits, range 10001-15730 PK must be between Min 100010001 - Max 1010000 Patient number range: (Min: 1, Max: 3) range 001 - 003 Center number range: number range 000-9, Max: 9 range 10001-15730 => Min 15601, Max 15730 19959 => Min 15731, Max 15739
AMSN	AM3 Serial Number	CHAR	10	X		6 digit twice number 123456
SN	Session Name	CHAR	16	X		Morning Session or Evening Session, see section 3.
SDTC	Session Date	CHAR	11	X		YYYYMMDD
TIME	Session Time	CHAR	8			HH:MM:SS (24:00 format)
M01	How many pills from the FOSTER PMOI did you take yesterday evening?	NUM	2			Range: 0 - 30 pills ECROTB when ECTRT="FOSTER PMOI 1000" and ECTPT="EVENING" and ECTPTNUM=2
M02	How many pills from the MOXIC FOSTER PMOI did you take yesterday evening?	NUM	2			Range: 0 - 30 pills ECROTB when ECTRT="FOSTER PMOI 1000" and ECTPT="EVENING" and ECTPTNUM=2
M03	How many inhalations from the MOXIC FOSTER NEXHALER did you take yesterday evening?	NUM	2			Range: 0 - 10 inhalations ECROTB when ECTRT="FOSTER NEXHALER" and ECTPT="EVENING" and ECTPTNUM=2

Non-CRF Data Guidelines Page 9 of 14

Method	Medium	Zipped	Password Protected	Encrypted
<input type="checkbox"/> Counter	Recordable Media*, e.g., Diaries, CD/DVD, SD Card, etc. Please specify _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other (i.e., US Mail)	<input type="checkbox"/> Electronic Recordable Media*, e.g., Diaries, CD/DVD, SD Card, etc. Please specify _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Reason for more than one Transfer Method: _____
*Lame acronymly

6. TRANSFER FREQUENCY / SCHEDULE

Monthly (specify date: every 3rd Monday of each month)
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 Quarterly (every 1st Monday of each quarter)
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Load into SAS format
 Informatica
 Load into Informatica Account
 Load into Informatica Account Table

Other: _____
 Not Applicable
 *File will not be used for data transfer purposes, only for reconciliation purposes.

Non-CRF Data Guidelines Page 9 of 14

USCAT = ASH (Autism Symptom Score)

8. 文件结构

变量名	变量描述/标签	数据类型	长度	必填	唯一	注释/预期输出
研究	研究编号	CHAR	20	X	X	
PT	患者编号 USUBID	CHAR	8	X	X	患者标识符范围 (最长 8 位, 最长 8 位) 以研究中心标识符作为前缀 (前 5 位, 前缀 15601-15730) PK 必须介于 Min 100010001-Max 101000000 之间 患者编号范围: (最长 3 位, 最长 3 位) 范围 000-999 中心编号范围: 编号范围 (最长 5 位, 最长 5 位) 范围 10001-15730 ->最小 15601, 最大 15730
AMSN	AM3 序列号	CHAR	10	X		6 位数字编号, 123456
SN	Session Name	CHAR	16	X		上午/下午或晚上/晚上, 无特殊字符
SDTC	记录日期	CHAR	11	X		年/月/日
TIME	记录时间	CHAR	8			HH:MM:SS (24:00 制)
M01	您昨天晚上服了多少颗 0.30 毫克 PMOI 片剂?	NUM	2			范围: 0-30 颗 ECROTB when ECTRT="FOSTER PMOI 1000" and ECTPT="EVENING" and ECTPTNUM=2
M02	您昨天晚上服入了多少颗 0.30 毫克 PMOI 片剂?	NUM	2			范围: 0-30 颗 ECROTB when ECTRT="FOSTER PMOI 1000" and ECTPT="EVENING" and ECTPTNUM=2
M03	您昨天晚上服入了多少颗 0.30 毫克 NEXHALER 吸入器?	NUM	2			范围: 0-10 颗 ECROTB when ECTRT="FOSTER NEXHALER" and ECTPT="EVENING" and ECTPTNUM=2

Clinical data package: DATABASES 1/6



NMPA requirements

--	--	--

Data from CRF and external sources

Sponsor is encouraged to submit SDTM according to CDISC

Chinese translation

Dataset and variable labels

--	--	--

Traceability
Analysis ready
Analysis metadata

Sponsor is encouraged to submit ADaM

Chinese translation

Adverse events terms

Generic name of concomitant medications

Medical history in CSR and other documents

Clinical data package: DATABASES 2/6



DATASET AND VARIABLE LABELS



VERBATIM



All unique verbatim terms in an excel file (--TERM, --TRT) translated in Chinese in a different column than the verbatim terms in English



Excel file imported using SAS to update --TERM and --TRT variables with the translated term. Independent double-programming applied to ensure correctness.

CODING TERMS



For datasets coded using MedDRA dictionary, --LLT, --DECOD, --HLT, --HLGT, --BODSYS and --SOC variables have been translated.



For CM, coded using WHO Drug dictionary, CMDECOD, CMCLASS, ATCNAME (1-4) have been translated.



Done programmatically using the Chinese version of the corresponding dictionary (the term codes are unique and identical between English and Chinese versions).

Translated terms extracted to check consistency with CSR tables

Clinical data package: DATABASES 3/6



⊕	AESEQ	⚠	AESPID	⚠	AETERM	⚠	AELLT	⊕	AELLTCD
	1	1			Upper respiratory tract infection		Upper respirator...		10046306
	2	2			Upper respiratory tract infection		Upper respirator...		10046306
	1	7			Alanine amino acid transferase increased		Alanine aminotr...		10001551
	2	11			Upper respiratory tract infection		Upper respirator...		10046306
	3	9			glucose increased		Glucose increased		10018421



⊕	AESEQ	⚠	AESPID	⚠	AETERM	⚠	AELLT	⊕	AELLTCD
	1	1			上呼吸道感染		上呼吸道感染		10046306
	2	2			上呼吸道感染		上呼吸道感染		10046306
	1	7			丙氨酸氨基转...		丙氨酸氨基转...		10001551
	2	11			上呼吸道感染		上呼吸道感染		10046306
	3	9			葡萄糖升高		葡萄糖升高		10018421

Clinical data package: DATABASES 4/6



CMSEQ	CMSPID	CMTRT	ACAT1	ACAT2	CMINDC	CMDECOD
1	19	Salmeterol Xin...	Asthma		Asthma	FLUTICASONE PROPIONATE;SALMETEROL X...
2	3	Acarbose Tabl...	Non-Asthma		MH: Type 2 dia...	ACARBOSE
3	1	Gliclazide Mod...	Non-Asthma		MH: Type 2 dia...	GLICLAZIDE
4	2	Rosiglitazone...	Non-Asthma		MH: Type 2 dia...	ROSIGLITAZONE
5	9	Thioctic Acid f...	Non-Asthma		MH: Type 2 dia...	THIOCTIC ACID



CMSEQ	CMSPID	CMTRT	CMDECOD
1	19	沙美特罗昔萘酸和丙酸氟替卡松粉吸入剂250/50 ug	丙酸氟替卡松;昔萘酸沙美特罗
2	3	阿卡波糖片	阿卡波糖
3	1	格列齐特缓释片	格列齐特
4	2	罗格列酮钠片	罗格列酮

Clinical data package: DATABASES 5/6



NMPA databases general requirement

If dataset needs to be split



Sponsor can just submit the split dataset*



Details to be included in cSDRG

NO INDICATION OF SUBMISSION REQUIREMENTS

 **Chiesi strategy** 

FDA REQUIREMENTS (5GB) HAVE BEEN CONSIDERED FOR THE SUBMISSION

*Different approach from FDA that requires also the non-split dataset to be submitted

Clinical data package: DATABASES 6/6



! POINTS OF ATTENTION



Additional challenges in Chinese translation:

- Chinese character = 3 bytes
- English character = 1 byte (generally)

- Length of variable might exceed the limit imposed by SAS xport format and CDISC requirements
- Chinese characters need UTF-8 encoding



Medications Dictionary used for English package creation IQ2018Q3

- Chinese WHO Drug Dictionary version Q12020 used for translation (first Chinese version available). In case a Chinese term was not available, the current English term has been displayed

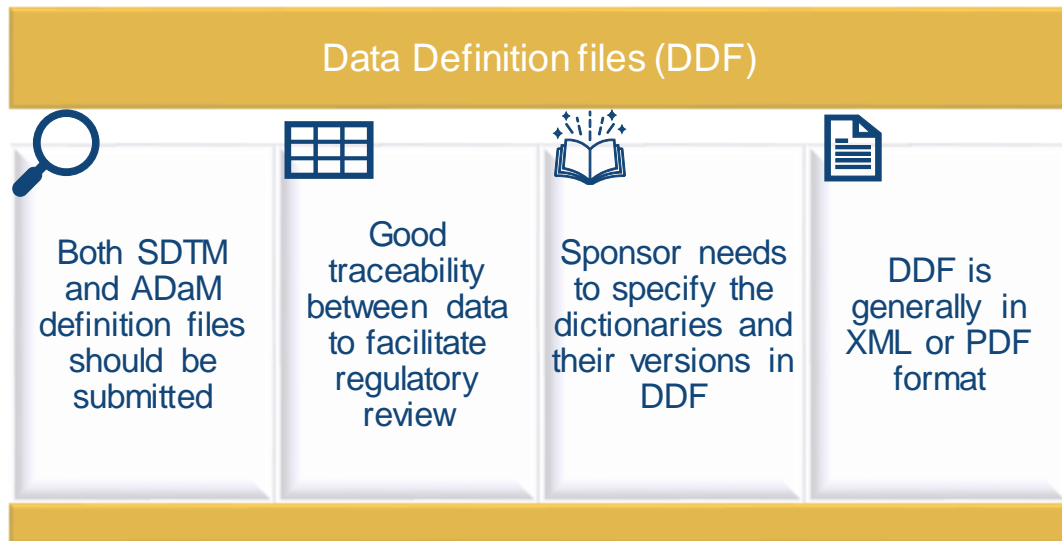
Source:

http://xml4pharma.com/publications/Poster_Jozef_Aerts_Chinese_characters_XPT.pdf
https://www.lexjansen.com/phuse-us/2021/dh/PAP_DH12.pdf

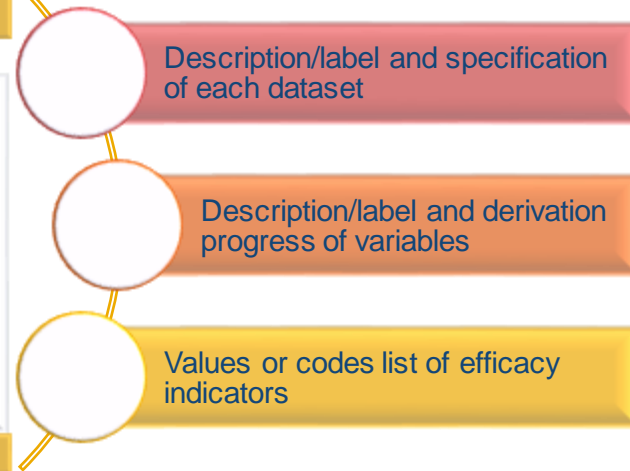
Clinical data package: Data Definition Files



NMPA requirements



Chinese translation



English SDTM and ADaM data definition files have been completely translated in Chinese

XML: Extensible Mark-up Language
PDF: portable document format

Clinical data package: Data Definition Files



DM (人口学) - SPECIAL PURPOSE						
相关补充修饰语数据集: SUPPDM (DM补充限定符)						
变量	标签/描述	类型	角色	长度或显示格式	受控术语或ISO格式	来源/源/方法/注释
STUDYID	研究标识符	text	Identifier	15		Protocol
DOMAIN	域名缩写	text	Identifier	2	SDTM Domain Abbreviation [31 术语]	Assigned 两个字符的域名缩写。
USUBJID	受试者唯一标识符	text	Identifier	24		Derived USUBJID由STUDYID和SUBJID连接组成, 用_分隔, 例如,
SUBJID	受试者标识符	text	Topic	8		CRF Annotated Case Report Form [80] [8]

Define:		2023-05-10T13:06:57Z
		Define XML版本: 2.0.0
		格式版本号: 2018-11-21
版本	ADaM-IG 1.1	
研究名称		
研究摘要		
修改名称		
元数据名称		
Table 14.2.1.1.1 Statistical Analysis: Change from Baseline over the Entire Treatment Period in Average Pre-Dose Morning PEF (L/Min)/ANCOVA Model (Intention-To-Treat Set) 临床数据在提交前是否经过验证 [1] 验证过数据在提交前是否经过验证 [2]		



POINTS OF ATTENTION

The pagination in aCRF has changed due to translation, page numbering in SDTM define has been updated accordingly

Define.xml and data have been validated through P21 community with CDISC engine

Clinical data package: Analysis Results Metadata (ARM)



Analysis Results Metadata include **statistical displays or inferential statements** such as p-values or estimates of treatment effect.

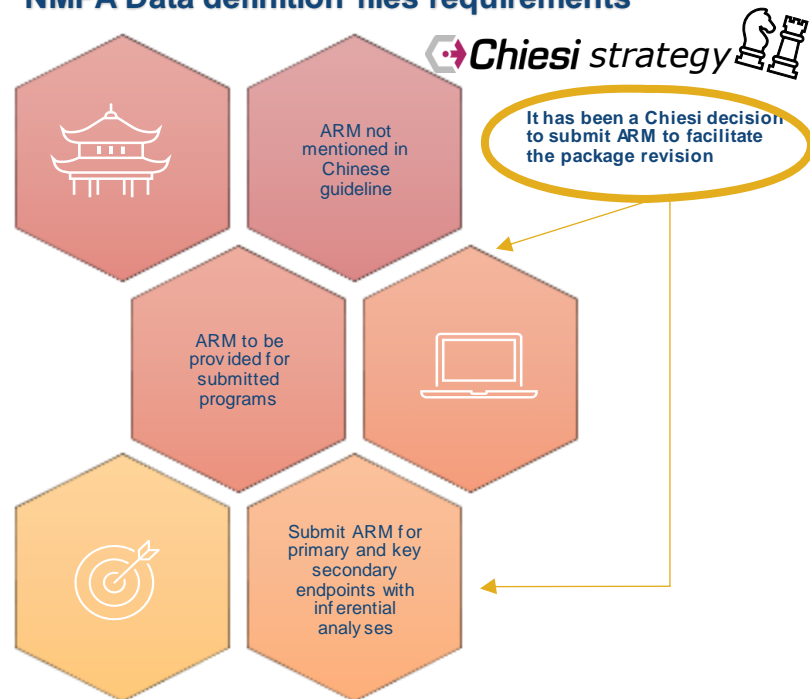


Analysis results metadata are not needed or even advisable for every analysis included in a clinical study report or submission. **The sponsor determines which analyses should have analysis results metadata.**

Table 14.2.1.1.2

显示	Statistical Analysis: Change from Baseline over the Entire Treatment Period in Average Pre-Dose Morning PEF (L/Min), ANCOVA Model (Intention-To-Treat Set)
分析结果	按治疗组在受试者中观察到的平均值 (e)
分析参数	PARAMCD = "PEFAMETP" (整个治疗期早晨给药前PEF均值 (L/min))
分析变量	ADPEE.TRT01P (剂量01+计划治疗)
分析器型	SPECIFIED IN SAP
分析目的	PRIMARY OUTCOME MEASURE
数据参考 (包括选择标准)	ADPEE (PARAMCD = "PEFAMETP" and BASE = missing and CHG = missing and ITTR = "Y" and REGION1 = "missing" and SEX = "missing")
文档资料	意向治疗 (ITT) 分析集中包含的受试者的唯一计数, 其中每个治疗组的协变量 (基线值) 未缺失, 预定效应 (区域和性别) 未缺失, 并且从随机治疗开始日期起第二天的早晨时点到治疗结束日期前早晨时点之间的时间间隔内至少有一个可评估的访视周期。 SAP 章节 1.1.1 节 [35] [36] SAP 附录 4 节 [38] [39]
编程语句	[SAS version 9.4] proc sql; select distinct TRT01P, count(distinct USUBJID) as n from ADPEE where ITTR="Y" and PARAMCD="PEFAMETP" and missing(CHG)=0 and missing(BASE)=0 and REGION1 and SEX group by TRT01P; quit; 114.2.1.1.2 [40]

NMPA Data definition files requirements



Submission package: Reviewer's guide

NMPA requirements



Both English SDTM and ADaM reviewer's guides have been translated

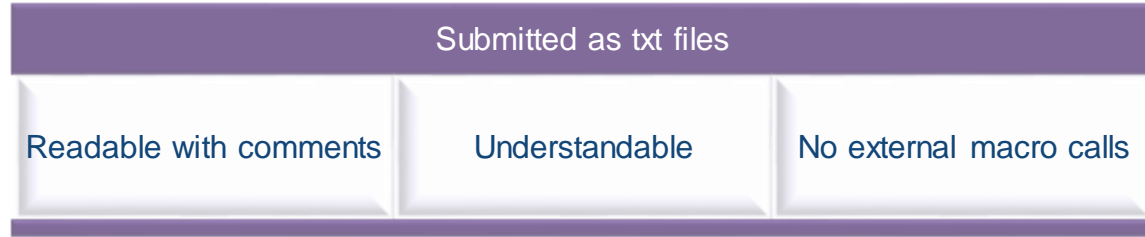
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Clinical data package: Programming code



NMPA programming requirements



No clear definition within the Chinese guideline of which programs should be submitted

Chiesi strategy



ADaM

- Dataset that contains primary endpoint
- Dataset that contains selected secondary endpoints



TABLES

- Tables used for primary endpoint
- Tables used for selected secondary endpoints



LISTINGS and FIGURES

- Not submitted



MACROS

- Only study specific macros

```
ods exclude all;
ods output ModelANOVA= ModelANOVA ContrastEstimate= ContrastEstimate;

proc phreg data = adam.adtte;
  CLASS TRTPN SITEGR1 EXP1YG2 FV1PPG1 SMSTT;
  MODEL AVAL*cnsr(1) = TRTPN SITEGR1 EXP1YG2 FV1PPG1 SMSTT / ties=exact type3(wald) RL=wald;
  CONTRAST "Study treatment vs Placebo" TRTPN 1 / estimate=exp;
  where ittf1 = "Y" and paramcd="TFMSEX";
run;

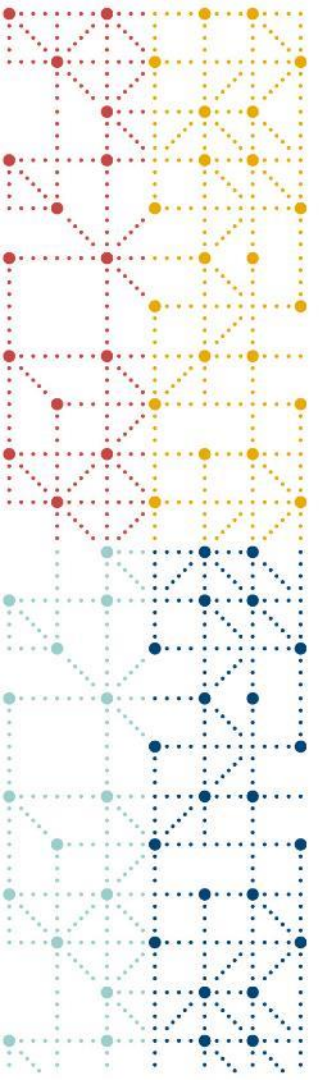
ods output close;
ods exclude none;

proc freq data=adam.adsl noprint;
  where ITTF1="Y";

  table TRT01PH*TRT01P / out=trtcnt_01 (drop=percent);
run;

data trtcnt_02;
  set trtcnt_01;
  format text $80.;
  printord="01";
  sort=TRT01PH;
  text=strip(put(TRT01P,$30.))||" (N="||strip(put(count,4.))||")";
run;
```





Walls / Wins / Wisdoms

Walls

1. **Chinese requirements:** evolving regulations with continuous updates and China-specific activities
2. **It is not all about translation:** Chinese SDTM IG and ADaM IG should be applied and consistency between documents should be ensured
3. Complex review of the **Chinese translation** of e-submission package



Wins

1. **Strong internal know-how** on FDA package preparation
2. **Cross-functional team-work is the key:**
 - Close cooperation between **clinical, regulatory and company team based in China** to ensure full alignment on the strategy
3. Constant **support to translation**, regulatory and medical writers to ensure consistency



Wisdoms

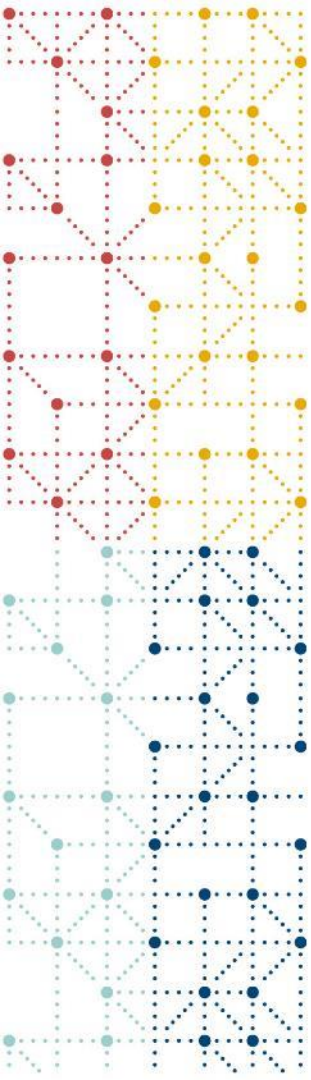
1. **Plan ahead:**
 - **Define internal standards** for Chinese data submission
2. Chinese Guideline to be more and more **aligned with requirements from other countries**
3. **...and a dream:** that in the mid term Chinese authority will not longer ask the translation of the database!



A big big thank to..

Chiesi data package team:

- Paola Vaghi (Head of Statistical Programming)
- Glauco Cappellini (Lead Statistician)



Thank You!

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cdisc