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## PREPARATION FOR DRUG MANAGEMENT AND ACCOUNTABILITY IN A CTN CLINICAL TRIAL

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### Learning Objectives

- Describe drug management planning and preparation activities.
- Discuss tools for drug inventory and drug accountability tracking.
- Define implementation challenges and quality assurance considerations.

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### What is Drug Accountability

- More than simply counting pills.
- A process to ensure that research participants receive the correct study drug and dosage, so that effects seen in the study can be linked to the medication administered.
- The FDA has listed drug accountability as number 3 in a list of top 5 pitfalls.



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## IP Management and Preparation

- Everyone involved in early development, training, and implementation of the IP management and accountability
  - **CCTN** → guidance, supportive resource
  - **Lead Node** → procedures and logs for tracking
  - **CCC** → drug manufacturing and supply with subcontract vendors
  - **DSC** → electronic data capture system setup/maintenance
  - **Site staff** → approvals/certification, trained on the procedures and requirements, site level SOPs

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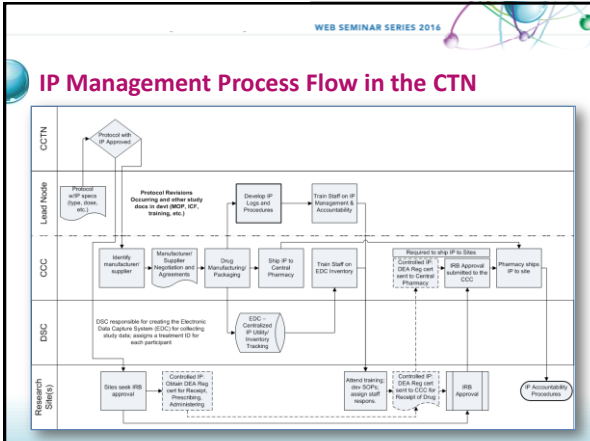
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## GCP Standard and Regulations with IP Management

- GCP guidelines require (GCP (E6) 8)
  - Documentation of IP and trial-related materials shipment.
- Federal regulation (21 CFR 312.62) requires
  - Investigators to maintain adequate records of the disposition of investigational drugs, including dates, quantities, and use by participants [and]...records of receipt
  - Maintain adequate case histories for all participants in studies that involve the use of investigational products
- Retain IP records
  - 2 years after the date a marketing application is approved for the drug for the indication for which it is being investigated by the U.S. Food and Drug Administration (FDA) or for 2 years after the study is discontinued and the FDA is notified
  - CTN requires 3 years documentation retention

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### Clinical Coordinating Center (CCC) – Prep for IP Manufacturing and Supply

- **Manufacturer/Supplier**
  - Vendor Identification
  - Negotiation/agreement/funding
  - Packaging/shipping
  - Central Pharmacy Coordination
- IP Analytical Testing and Reporting
- Collect requirements for drug shipping to sites, drug returns, replacement, and destruction



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### Regulatory Requirements and Supplier Reporting

- Sites must provide the CCC with their IRB approval prior to shipment of IP to sites
- For controlled drug (e.g., Buprenorphine or Suboxone), site PI, physician, clinician must provide the DEA registration for Receipt of Drug for the central Pharmacy to ship IP to the site address
- CCC provides reports to regulatory authorities, which may include the IP testing certification or IP accountability logs
- CCC provides additional reports to IP suppliers (reporting requirements vary)

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### IP Management and Coordination Challenges

- Multisite trials with sites located in various regions
- Determining when to Manufacture and Supply
  - Shelf-life; expiration and replacement of IP
  - Site readiness for study implementation
  - Avoid wasted IP and money
- Maintaining On-Site Adequate Study IP
  - Supply hoarding and last minute requests that occur with manual reordering process
  - Rate fluctuations in enrollment across sites and time

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### CCC's solutions: A centralized medication and supply inventory tracking and reordering process

- Advantage eClinical or AdvantageEDC<sup>SM</sup> for inventory tracking
- Programmable reports communicate with the EDC
- 3-step process:

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    graph LR
      A[Site staff enters into EDC inventory levels and expiration dates on last day of the week] --> B[Data from EDC is populated into inventory report the next day following entry]
      B --> C[Supplies at or below threshold are populated into re-order spreadsheet]
      C --> D[Administrative Coordinators process re-order spreadsheet data and submit order requests to the vendor]
      E[Reminder sent to the site next business day, if inventory levels were not updated.]
      A -.-> E
      B -.-> E
      C -.-> E
  
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### Advanced Features for Drug Utility

- More complex customizable drug utilities can be developed within the electronic randomization system, if needed.
- For example, for blinded medication the system could be set up to send the drug supplier an email containing a list of drug kits to ship to sites.

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### Strategies for Ensuring Receipt of Drug

- Sites will receive an email from EMINENT indicating that their medication shipment is in route (with relevant tracking numbers provided)
- Upon receipt of medication from EMINENT, sites must :
  - Immediately open carton and inspect and confirm that all listed contents were received in appropriate and usable condition.
  - Fill out and return shipping acknowledgment form to EMINENT via fax provided on shipping form.

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### Local Procurement of Medications

- Medications that are not study drugs and the research site is responsible for obtaining and re-ordering directly, not through the CCC.
- For example, naloxone (used for the naloxone challenge in CTN-0051, CTN-0055)

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CTN-0051

### DEVELOPING AND MAINTAINING IP ACCOUNTABILITY LOGS

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### Developing Tools for Site Tracking – Lessons from CTN-0051

- Inventory
- Storage
- Dispensing
- Documentation



*CTN-0051 is an open-label study. The medications are Suboxone, a scheduled drug donated by Indivior (formerly Reckitt-Benckiser), Vivitrol, a drug purchased by NIDA for the study, and naloxone, which was to be provided by the sites.*

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### Documentation

- Logs
- Copies of shipping receipts
- Prescriptions
- Signature log(s)
- Training
- Binders



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### Site Challenges – CTN-0051

- **Open label** – sites already using these medications, extra precautions to keep inventories separate
- **Process** – sites don't necessarily use individual prescriptions in the regular course of business
- **SOPs** – SOPs developed for the study weren't necessarily followed by site staff that were used to doing things differently
- **Staff turnover** – in a long trial, folks trained initially may not still be the ones handling the study drug



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Before, during, and at closeout of studies

### QUALITY ASSURANCE (QA) IN IP ACCOUNTABILITY

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### Quality Assurance in IP Accountability

Based on GCP guidelines, site monitors review:

- IP and shipping records to ensure they are on file before the study begins (ICH (E6) GCP 8.2) and accountability procedures are adequate for study conduct (ICH (E6) GCP 6.4.7).
- IP documentation during the trial to ensure that IP has been used according to the protocol (ICH (E6) GCP 8.2.23).
- After trial completion for the final accounting of IP, including drug received, dispensed, returned, and destroyed (ICH (E6) GCP 8.4).

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### QA of IP On Site

- Sites should ensure that all IP shipment records are accurate
- Reconcile IP accountability logs and ensure storage monitoring logs are current inventory
- Ensure that any excursions are documented appropriately
- Consult the MOP module for IP procedures at closeout, Destruction Instructions, and Site Readiness for Closeout Checklist

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### QA of IP On Site

- CCC Monitor to work with site staff on drug return
- Site staff required to complete the **Agent Return (IP) Form**

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## Guidance for Medication Return for CTN-0051

NIDA CTN-0051 BUP-NX Medication Return October 7, 2014  
Version 1.0

**CTN-0051 BUP-NX Medication Return**

BUP-NX (provided as Suboxone®) sublingual film, 4mg and (8mg) that is returned by a participant may not be re-issued for use. All unused study medication will be logged into a cumulative inventory which tracks the return of study medication. All damaged, returned, expired or unused study medication must be reconciled by the NIDA CCC site monitor before the medication can be sent to the central distributor or a reverse distributor for destruction, as per the protocol (Section 3.6.4 Unused/Unissued Medication).

During an on-site monitoring visit, the NIDA CCC site monitor will perform drug reconciliation. The monitor, along with a site staff member, will then complete the Agent Return Form. The site staff member who is observing the reconciliation and consolidation process and the monitor who is performing the process must sign and date the form.

After the form is completed, make two photocopies of the Agent Return Form. Place the original inside the package (to be returned to EMMES®), give one copy to the monitor, and keep the second copy in the site records.

The monitor will provide all the necessary supplies (envelopes, baggies, syring) needed to return study medication.

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**EMINENT SERVICES CORPORATION**     **The EMMES Corporation - NIDA (Protocol# CTN-0051)**  
**AGENT RETURN FORM**

The Agents listed below were returned by:

Site Name: \_\_\_\_\_  
Street: \_\_\_\_\_  
Address: \_\_\_\_\_

**INSTRUCTIONS FOR WEB SITE TRAINING**  
 Use of your computer is required to complete this form. The form will be submitted to the NIDA CCC site monitor. The NIDA CCC site monitor will review the form and return it to you. The NIDA CCC site monitor will also provide you with a copy of the form. The NIDA CCC site monitor will also provide you with a copy of the form. The NIDA CCC site monitor will also provide you with a copy of the form.

Agent Name	Unit	Status (Used / Unused)	Quantity	Lot #	For EMMES Use Only	
					Rec. No.	Received by Date
Suboxone® (buprenorphine and naloxone) sublingual film, 4 mg/1 mg	1 Film Pouch	Unused				Checked by: _____ Date: _____
Suboxone® (buprenorphine and naloxone) sublingual film, 8 mg/2 mg	1 Film Pouch	Unused				

To be completed by site investigator (unless otherwise specified):

Name (Site Staff): \_\_\_\_\_ Title: \_\_\_\_\_  
 Signature and Date (Site Staff): \_\_\_\_\_ Telephone No.: \_\_\_\_\_  
 Name (CCC Monitor): \_\_\_\_\_ Title: \_\_\_\_\_  
 Signature and Date (CCC Monitor): \_\_\_\_\_ Telephone No.: \_\_\_\_\_

Comments: \_\_\_\_\_

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## Quality Assurance of IP Records after Closeout

- Address any outstanding issues and action items related to the IP records
- Prepare the IP records for long term storage
- Answer any questions the CCC may direct to the site in the process of reconciling drug logs



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### Additional IP Accountability after Study Closeout

- All drug logs supplied to Regulatory entities and suppliers
  - Sites to provide final drug logs to CCC for summary reporting
- CCC to do overall Reconciliation (between distribution, receipt, administration, disposition, loss, destruction records)
- IP Disposition Procedures
  - IP returned to the central pharmacy for destruction or storage, or
  - Sites may donate the remaining IP (if not expired) per local and institutional policy

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### QA – Challenges in IP Accountability

- Long visit intervals can lead to participants missing doses or misplacing medication
- Incomplete logs lead to unaccounted medication
- Missing information on logs can lead to impossible reconciliations
- Omission of transfer documentation (e.g., shipping receipts) can lead to unaccounted medication

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**TAKE AWAY**

**WRAP UP**

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### Take away messages...

- Drug Management and Accountability is required based on GCP guidelines and other regulatory standards
- Everyone is involved, from the sponsor to the Lead Node, CCC/DSC, and the research site staff
- Drug management has a lot of moving parts and can be complex
- Plan for drug accountability early in the development phase of the study; effort up front may save time in the end
- Don't remake the wheel; there are tools out there that can be used when creating drug logs for your study

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### References

- ICH Guideline for Good Clinical Practice E6(R1). (1996). Retrieved from <http://www.ich.org/products/guidelines/efficacy/efficacy-single/article/good-clinical-practice.html>.
- CFR - Code of Federal Regulations Title 21. (2016). Retrieved from <http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcfr/CFRSearch.cfm?fr=312.62>.

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### Questions / Comments



*Alternatively, questions can be directed to the presenter(s) by sending an email to [CTNtraining@emmes.com](mailto:CTNtraining@emmes.com).*

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<http://ctndisseminationlibrary.org/ctntraining.htm>

A recording of this presentation will be available electronically.

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Next Topic...

**PERCEPTIONS OF HARM AND ADDICTION OF SNUS**

**Wednesday, November 30, 2016 at 1:00 pm ET**

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**THANK YOU FOR YOUR PARTICIPATION**

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