

DSCSA Verification to Improve Product Traceability at FMOL Health System

FDA Pilot Program
Project Pilot Report

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Reviewed and Approved by:

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Date (YYYY-MM-DD)

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Revision Log

| Revision | Date (yyyy-mm-dd) | Description of Changes |
|----------|----------------------|--|
| 00 | 2019-05-31 | Progress Report Month 1 |
| 1.1 | 2019-06-30 | Progress Report Month 2 |
| 1.2 | 2019-07-30 | Progress Report Month 3 |
| 1.3 | 2019-08-30 | Progress Report Month 4 |
| 1.4 | 2019-10-17 | Progress Report Month 5 |
| 1.5 | 2019-11-26 | Progress Report Month 6 |
| 1.6 | 2020-03-31 | Progress Report Month 10 |
| 1.62 | 2020-06-24 | Final Report |
| 1.63 | 2020-07-31 | Final Report with detail requested by FDA |
| 1.64 | 2022-12-01 | Final Report with links to latest findings |

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I. Executive Summary

- **Goals-** automate the delivery and confirmation the Dispenser has valid T3 for each product received from trading partners to the last mile.
- **Objectives-** capture and achieve perfect order via electronic data interchange (EDI) and automatic identification and data capture (AIDC) for a touch-less process from supplier through pharmacy receiving areas.
- **Processes that will be studied-** validation via DSCSA business rules running in the background of established supply chain practices to compare wholesaler T3 (EDI 856) with the bar code scanning data captured by the Dispenser upon receipt of the shipment. We (FMOL, MCK, CTX) acknowledge the FDA's request for unit-level traceability, however lot and serial numbers are not electronically shared from the Wholesaler to Dispenser at this time.
- **Evaluation methods-** Evaluate the success rate of automatically matching the EDI 856 and barcode scanning data from receipt of the Product. Identify any data, system, or process challenges which limit the ability to automate this process of documentation to meet DSCSA requirement. *For the full intent of DSCSA to improve the recall process via a secondary objective- in future pilots to carry the traceability to the patient record at administration or dispense or final decommission via return or destruction with a mock recall as proof of concept as previously studied by*
[https://www.gs1.org/docs/healthcare/12h05 Traceability put into praxis MAGER BONE DREES CHANDLE R_eng.pdf](https://www.gs1.org/docs/healthcare/12h05_Traceability_put_into_praxis_MAGER_BONE_DREES_CHANDLE_R_eng.pdf)
 - From Sep 5-16th 2019 we matched all 1017 lines of T3 (EDI 856) from McKesson at one of our Medical Centers with 994 NDC Receipt scan lines (EDI 861) with a 98% match; 2% (23) T3 lines did not have a receiving scan match due to item mismatch or failed scans resulting in manual receiving via McKesson Connect software program.
- **Proposed start and finish dates of the pilot project-** Testing of the additional invoice field in EDI at McKesson began April 2019 and will be reported to the FDA at the end of each month starting May 31 2019 with a final to our Healthcare Transformation Group Summit at FMOLHS in Oct 2019
<https://www.healthcaretransformationgroup.com/summit>.

II. Progress Reports- Description of tasks, effort and schedule

| Task | Who | Status | Notes |
|---|------------------|----------|--|
| Flow Chart Procedures and EDI | Chris | Complete | Collect process flow diagrams from each partner and combine for FMOLHS 3-way match process flow diagram for EDI verification (see references) |
| FMOLHS Pharmacy receiving scans to generate 861 | All | Complete | <ul style="list-style-type: none"> Dispenser account #47768 using McKesson Connect handhelds to generate an 861 receive event Sync malfunction 7/10 for 7/9 order and 861 output was lost; McKesson suggests using tech support in the future to preserve handheld data |
| McKesson modify 861 map; format specs to ConsortiEX | McKesson-David | Complete | Initial 856 modifications; final decision use 861 format with specs by 6/6/19 <ul style="list-style-type: none"> Add REF segment "IV" qualifier for invoice (example below in references) ASN invoice# and 856 invoice# match however can have multiple 856 for 1 invoice |
| ConsortiEX 861 preparation to receive | ConsortiEX-Kate | Complete | ConsortiEX and McKesson EDI teams: <ul style="list-style-type: none"> 856 UoM CA=case, change 861 CS to match (810 also uses CS), add invoice # to both 861 MAN segment is shorter (only 7 digits) vs 856; McKesson logic build to match Status on the handhelds is "received" or "not received"; use the "received quantity" 861 receipt logic matches the corresponding 856 line of data based on item #; note the 856 may have the same NDC number appear multiple times |
| McKesson purchases with alternate T3 supplier for drop ship-alert via 855 | McKesson-David | Phase 2 | Problems encountered-Drop shipments <ul style="list-style-type: none"> Drop ships- notification from McKesson via PO or Ack EDI 855 on alternate source for T3 MPB drop ship T3 from McKesson- corrected/missing T3 for replacement items from McKesson MPB- TBD correct ship date on T3 Logic built to assume UoM matches the saleable unit 9/6/19 completed 855 setup and mapping all MPB documents 9/27/19 remapped 855 as discussed above 10/14/19 updated 855 map to include the BAK10: DO on MPB items and drop ships |
| ConsortiEX 855 preparation to receive | ConsortiEX-Katie | Phase 2 | ConsortiEX reviewing specs and sample data <ul style="list-style-type: none"> 9/10/19 transmit all 855 data (not just drop ships) 10/1/19 855 leave BAK10 field Blank for MPB (blank for all McKesson 855) Software Enhancements- bar code scanning T3 verification: <ul style="list-style-type: none"> Auto-match T3 via Advance Ship Notice EDI 856 or PO Ack EDI 855 (ordered, to include drop ships and alternate suppliers) and generate EDI 861 (pharmacy receiving) Manual-match T3 via 856; paper scan auto-upload Quarantine- alert receiver of missing T3 Push scan of DSCSA Product Identifier, Lot Number, Expiration Date and Serial Number to supplier, inventory system, point-of-care cabinets or EHR Drop shippers not supporting EDI connection- notification (see attached); work with suppliers and FDA on paper or portal only or supplier exemptions |

III. Lessons Learned Report (include Interfaces, Dependencies, Risks, Results including unplanned)

FMOLHS

- EDI process flow for FMOLHS 3-way match process differs for accounts payable (Infor format) versus missing product/data exceptions upon receiving with wholesalers requiring additional manual processes.
- EDI 861 can only be generated if the policy is handheld use only. Sync malfunctions do not result in loss of 861 output; calling McKesson tech support preserves handheld data download.
- EDI connections for drop shipment and direct supplier T3 remain inconsistent; we are still not 100% electronic and continue getting paper and/or directed to portals. Also lack a standard listing of products exempted from providing DSCSA T3.

ConsortiEX

- McKesson Plasma & Biologics orders, other Drop Shipments, and Non-McKesson orders need manual verification.
- The matching process required customization to the EDI transactions which needs to be maintained, and also replicated if this was expanded to other trading partners.
- If for any reason the barcode scanner is not used for receiving, even for McKesson Pharma items - the orders need to be manually verified.
- This verification process occurs after the product has been received and accepted into Inventory. The goal is to catch any suspect product/product missing T3s prior to receipt.
- This process does not capture the Lot/Expiration info off the product, so can't be automatically added to the T3 record for search ability.

Future Opportunity- continue for Phase 2 <https://info.consortiex.com/fda-epilogue-request-form> to develop a comprehensive solution that will:

- Incorporate 855 Order data and bar code scans to proactively identify drop-shipments
- Handle all received shipments – not just the ones with electronic EDI records, or just from one trading partner
- Capture Lot # and Expiration date directly from 2D barcodes on delivered drugs
- Check for a T3 at the time of receiving, and prevent receiving product that does not already have a valid T3
- Further insight to a secure supply chain as noted in February 2020 Office of the Inspector General Report “Ownership—But Not Physical Movement—of Selected Drugs Can Be Traced Through the Supply Chain” www.oig.hhs.gov/oei/reports/oei-15-17-00460.asp

McKesson

- MPB drop ship process for corrected/missing T3 for replacement items is under development.

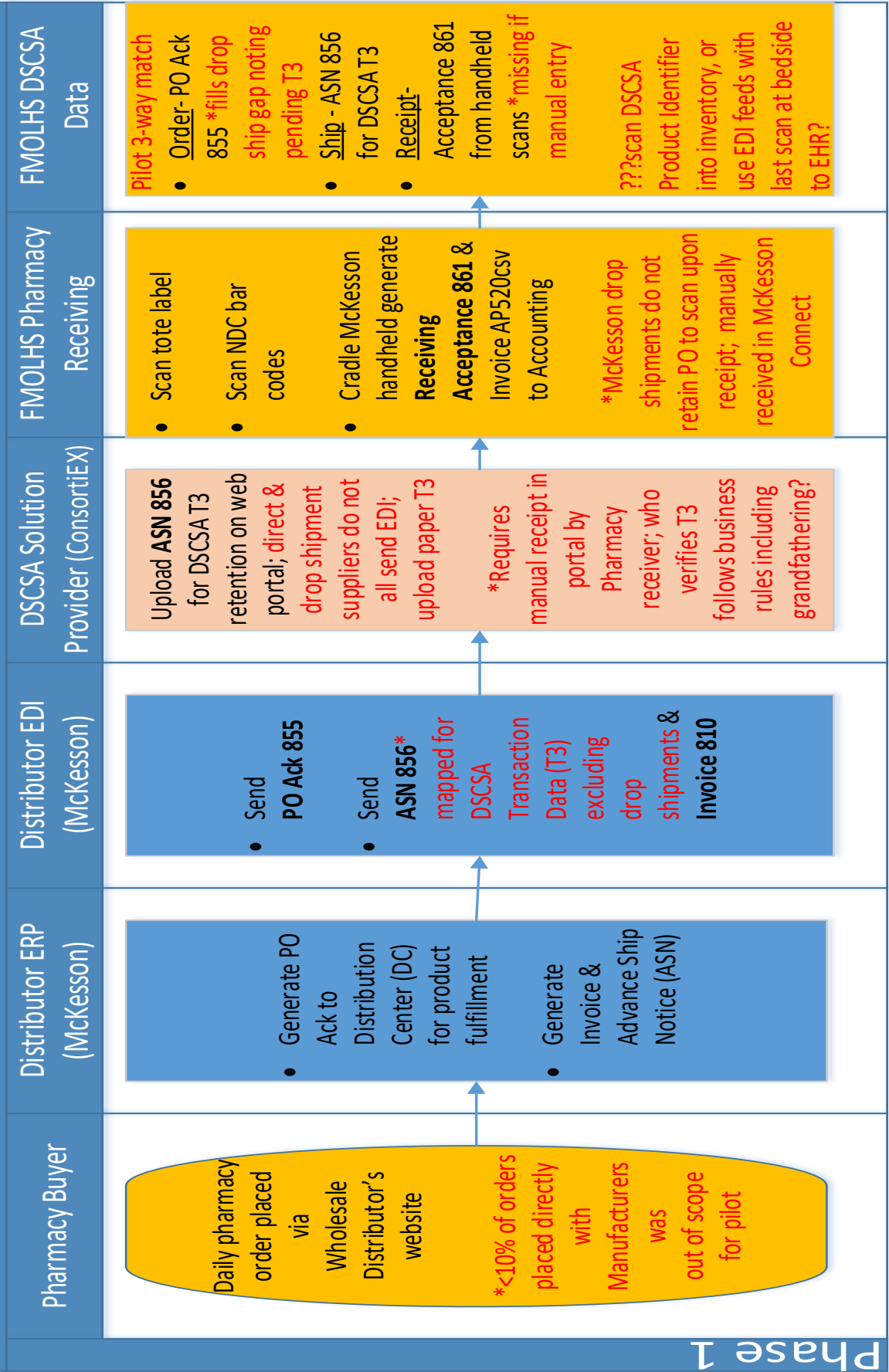
IV. Resources

- **Submitter:** Chris Chandler , PharmD (FMOLHS Logistics One 12100 Little Cayman Ave Baton Rouge LA 70898 630-815-6183 chris.chandler@fmolhs.org chriscollinschandler@gmail.com William Mosser VP William.mosser@fmolhs.org and Lakisha Bowie Lakisha.bowie@fmolhs.org (FMOLHS 14,000+ employees Logistics One 12100 Little Cayman Ave Baton Rouge LA 70898).
- **Partners** for procurement DSCSA T3 portals for all FMOLHS 20 Pharmacies
 - a. ConsortiEX 3rd party DSCSA Service Provider 1000 N Water St Suite 950, Milwaukee WI, 53202; Company Size under 500 employees.
 - i. Neal Long (attending FDA Strategy Meeting in-person) neal.long@consortieux.com
 - ii. Kate Edwards (attending FDA Strategy Meeting telecon) kate@consortieux.com
 - b. McKesson Pharma Wholesale Distributor 6555 Hwy 161, Irving, Texas and the company size is 80,000 employees.
 - i. Scott Mooney (attending FDA Strategy Meeting telecon) Scott.Mooney@McKesson.com
- **Product(s) that will be used in the pilot project and Location(s) where pilot project will be performed** DSCSA T3 for all FMOLHS 20 Pharmacies (Headquarters FMOLHS Logistics One 12100 Little Cayman Ave Baton Rouge LA 70898).

V. References

- Acronyms
 - EDI Electronic Data Interchange
- FDA Pilot Program <https://www.federalregister.gov/documents/2019/02/08/2019-01561/pilot-project-program-under-the-drug-supply-chain-security-act-program-announcement>
 - **Publication-** To ensure that all supply chain members benefit from the information generated by the DSCSA Pilot Project Program, FDA intends to make the following information about each pilot project of the program available to the public in a final program report: (1) The names and industry sector(s) of the pilot project participant(s); (2) the pilot project's objectives and evaluation methods; (3) the duration of the pilot project; and (4) the key findings and lessons learned from the pilot project. FDA intends to post the information related to the DSCSA Pilot Project Program and the final program report on FDA's website.
 - **Records Retention-** Any records generated by a participant while conducting a pilot project should be maintained in accordance with the participant's normal recordkeeping practices. For pilot projects that involve partnering entities, the partnering entities should decide who is responsible for the records generated in the course of conducting the pilot project. FDA recommends that participants maintain the progress reports and final report for its pilot project for at least 1 year after completion of the pilot project.
- OIG Report "Ownership—But Not Physical Movement—of Selected Drugs Can Be Traced Through the Supply Chain" OEI-05-17-00460 February 2020 www.oig.hhs.gov/oei/reports/oei-15-17-00460.asp

FDA Pilot Project- DSCSA Verification to Improve Product Traceability



Phase 1

FDA Pilot Project- DSCSA Verification to Improve Product Traceability at FMOL Health System

Sample 861:

ISA*00* *00* *01*177667227 *ZZ*CONSORTIEX *190620*1126*U*00401*200170067*0*P*>~
GS*RC*177667227*CONSORTIEX*20190620*1126*200001307*X*004010~
ST*861*0001~
BRA*127S370400*20190509*06*1~
REF*IV*7133611253~
DTM*050*20190509~
PRF*rhino ~
N1*SU*MCKESSON~
N1*ST**91*320552~
RCD*1*2*EA~
SN1**2*EA~
LIN*1*VC*3484417*ND*50580064601*UP*30045064660~
MAN*CA*5911715~
CTT*1~
SE*13*0001~
GE*1*200001307~
IEA*1*200170067~

Sample 855:

ISA*00* *00* *01*177667227 *ZZ*CONSORTIEX *191001*0740*U*00401*200884923*0*P*/~
GS*PR*177667227*CONSORTIEX*20191001*0740*200000147*X*004010~
ST*855*0001~
BAK*06*AC*093019DS1 *20190930*****20190930*DO~
N1*ST*OUR LADY OF LOURDES RMC*91*477618~
N3*4801 AMBASSADOR CAFFERY~
N4*LAFAYETTE*LA*70508~
N1*SE*MCKESSON*1*177667227~
N1*BY*OUR LADY OF LOURDES RMC*11*FO2601741~
PO1*1*1*EA*1995**VC*1713379*ND*09978000199~
PID*F****APLIGRAF 3IN UN DS 1UNIT~
ACK*IA*1*EA****VC*1713379*ND*09978000199~
CTT*1~
SE*12*0001~
GE*1*200000147~
IEA*1*200884923~

FDA Pilot Project- DSCSA Verification to Improve Product Traceability at FMOL Health System

Missing EDI

| Mfr/Supplier Name | EDI? | ITEMS |
|---------------------------|------|---|
| AGAMATRIX INC | | |
| ALEXION PHARMA DS MPB | | |
| ALLERGAN PHARMACEUTICAL | N | BOTOX, DEXAMETHASONE IMPLANT |
| ASTRAZENECA / MCK SP/MPB | | |
| BAXALTA US INC DS MPB | | |
| BAXTER MD | | |
| BTG INTERNATIONAL INC MPB | | |
| ELI LILLY / MCK SP / MPB | | |
| ENDO PHARMACEUTICALS | N | VALRUBICIN, HISTRELIN IMPLANT |
| ER SQUIBB / MCK SP / MPB | | |
| GE HEALTHCARE | | |
| GENENTECH/MCK SP/MPB | | |
| GENZYME A SANOFI CO | | |
| GENZYME CORP DS MPB | | |
| GORDON LABORATORIES | | |
| GSK / MCK SP MPB | | |
| HOPE PHARMACEUTICALS | N | SODIUM THIOSULFATE |
| ICS/BIOGEN/TYSABRI DIRECT | | |
| ICS/MILLENNIUM DIRECT | | |
| JANSSEN / MCK SP / MPB | | |
| JOM PHARM/MCK SP/MPB | | |
| LLORENS PHARMACEUTICALS I | | |
| MEDISCA INC | | |
| MERCK / MCK SP / MPB | | |
| MERCK SHARP & DOHME | N | ALVIMOPAN, ZOSTER VACCINE, MMR VACCINE, VARICELLA VACCINE |
| MERZ NORTH AMERICA | | |
| NOVARTIS PA /MCK SP/ MPB | | |
| OTSUKA AMERICA PHARM | N | TOLVAPTAN |
| PACIRA PHARMACEUTICALS IN | | |
| PAR PHARM / STERILE PROD | N | DANTROLENE |
| PFIZER INC | | |
| PIERRE FABRE | N | PROPRANOLOL |
| PIRAMAL CRITICAL CARE DS | N | BACLOFEN |
| SAFECOR HEALTH LLC | N | NIMODIPINE |
| SAOL THERAPEUTICS INC | | |
| SEATTLE GENETICS DS MPB | | |
| TERSERA THERAPEUTICS LLC | N | GOSERELIN |
| THERACOM/SHIRE/ELAP/VPRIV | N | VELAGLUCERASE |

*we anticipate this list changing over time, refer to <https://info.consortiex.com/fda-epilogue-request-form>