

## **PHARMACY EVALUATION PROJECT**

Purchasing, Distribution and Utilization  
of Pharmaceuticals within the  
Iowa Department of Corrections

### **FINAL REPORT**

*Submitted by*

## **IOWA PHARMACY FOUNDATION**

June—2010

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5           **I. EXECUTIVE SUMMARY**

6           At the request of the Attorney General's office and the Iowa Department of Corrections  
7           and with considerable interest expressed by key legislators, an expert panel was formed in  
8           the fall 2009 to assist in the evaluation of pharmacy services for the Iowa Department of  
9           Corrections (IDOC) institutions. The evaluation team consisted of pharmacists with  
10          substantial institutional, community-based, long-term care, purchasing / buying group and  
11          clinical services backgrounds.

12          The specific goal of the evaluation was to create recommendations for cost  
13          effective options for a) purchasing pharmaceuticals, b) ensuring a quality based medication  
14          distribution system, c) ensuring adequate organization and appropriate levels of pharmacy  
15          staffing, and d) exploring the health outcome and economic benefits of clinical pharmacy  
16          services. In short, the overriding goal is to optimize medication-related care and where  
17          appropriate reduce medication-related costs.

18          Pharmacy services for the IDOC encompass care for approximately 8,500 offenders  
19          at any given time, residing in one of the nine IDOC institutions. Approximately two out of  
20          every three offenders receives a pharmacy medication (both prescription and non-  
21          prescription). For 2009, it is estimated this resulted in approximately \$10M in medication  
22          costs.

23          The medication management system utilized by the IDOC is based on processes  
24          that have evolved over a long period of time. It is evident that individuals are working to

25 improve the overall pharmacy system. However, care is being provided with a pharmacy  
26 system that needs to be restructured to take advantage of contemporary institutional  
27 systems for pharmacy services. The integration of the system across all IDOC facilities and  
28 the utilization of newer medication management system designs are not optimal.  
29 Purchasing and distribution systems are fragmented and would benefit from system-wide  
30 coordination. Formulary and clinical services are not utilized in manner that will optimize  
31 outcomes related to safe and clinically effective care. Combined, there are opportunities to  
32 redesign the medication system to create more cost efficient medication use while  
33 providing appropriate health care. Steps to improve the system have been initiated. Two  
34 recent evaluations of the Iowa Department of Corrections (IDOC) pharmacy system  
35 recommended that the IDOC create a centralized pharmacy operation. On July 1, 2009  
36 IDOC appointed the first Director of Pharmacy and began the process of building  
37 centralized pharmacy services. The IDOC was implementing a redesign of pharmacy  
38 services at the time of this evaluation.

39 Management of a medication program as complex as the one that involves the  
40 IDOC requires substantial changes. The purchasing system is fragmented and varies across  
41 institutions. IDOC should work to establish a centralized purchasing system for all nine  
42 correctional institutional facilities that will create greater discounts on drug purchase.  
43 Discounts are usually the best when working with a national group purchasing organization  
44 (GPO) that specializes in medications and related items. In order to prepare for and select a  
45 GPO, IDOC should secure the services of a consultant that will help manage the acquisition  
46 of pharmaceuticals. Once a consultant is in place, the State should impanel an expert  
47 advisory committee to offer immediate and on-going advice regarding the complexities of  
48 purchasing, distribution and clinical management of pharmaceuticals for large populations.

49 With the assistance of the consultant and advisory panel, the Department of Administrative  
50 Services should conduct an RFP process to secure services from a national GPO.

51 IDOC has committed itself to the establishment of a central pharmacy distribution  
52 program. A phased-in centralized distribution system for all nine correctional institutions,  
53 with special consideration for IMCC, should be pursued with the highest priority in order to  
54 maximize efficiencies. Once the new central distribution system is established, the use of  
55 provisional stock at each facility should be reevaluated to assure proper access while at the  
56 same time creating savings through decreased inventories. To assure proper and timely  
57 access to needed pharmaceuticals, each institution should have a standardized, rapid  
58 medication acquisition system in place to assure that there are no gaps in necessary care.

59 The IDOC has been working to improve the organizational structure of pharmacy  
60 services. The Director of Pharmacy should be clearly established as a full-time  
61 administrative role ensuring time to plan and activate initiatives that continue to  
62 strengthen pharmacy services. Missed opportunities for ensuring efficiencies and cost  
63 savings are presently occurring because the Director of Pharmacy services is also involved  
64 in the day to day distribution activities. Current staffing does not provide adequate support  
65 for a centralized purchasing and distribution system for all nine correctional facilities. IDOC  
66 should initiate staffing at the central pharmacy with 2 FTE pharmacists, 3-5 certified  
67 technicians, and a director of pharmacy. The evaluation team noted that there is a  
68 significant disparity between IDOC salaries for pharmacists and technicians in the IDOC  
69 system and the private sector. The State should reconsider its pharmacist classifications  
70 and re-evaluate pharmacist and technician salary categories.

71 A comprehensive program of pharmacy services must be implemented. IDOC  
72 Pharmacy services would be enhanced through the use of systematic data management

73 and clinical services. The evaluation team found the data on prescription purchase,  
74 distribution and usage to be incomplete and data collection to be fragmented. A  
75 comprehensive system of data collection and monitoring should be established by the  
76 Director of Pharmacy. The current system lacks contemporary clinical services that  
77 optimize care and minimize cost. The IDOC should establish a clinical pharmacy program  
78 to complete its transformation to a contemporary health care system. Such services could  
79 be secured via contract.

80 Because there is a similar need at both IDOC and the Department of Human  
81 Services (DHS) and because of the overlap of these two systems of State supported care,  
82 the State should align and integrate the purchasing and distribution of prescription and  
83 related products and the collection of data and provision of clinical services for IDOC and  
84 the DHS. IDOC and DHS administrators are urged to correct the fragmented approach in  
85 pharmacy services that connects these two services.

86 Last, IDOC should examine two programs, one State and one National, that have  
87 potential for cost savings opportunities. First, the Iowa Prescription Drug Corp (IPDC)  
88 medication redistribution program, a State of Iowa program, and the Iowa State Board of  
89 Pharmacy could work to create a system of repackaging and redistribution of unused  
90 medications, both for inmates and discharged offenders. One important national pricing  
91 program evaluated by the team was the potential use of low cost medications through the  
92 340B program. IDOC does not qualify for this program at this time. IDOC should monitor  
93 changes in the 340B program and changes in the delivery of care to IDOC offenders to  
94 determine if changes in either system will allow the use of 340B pricing in the future. Iowa  
95 legislators are urged to encourage federal officials to expand the federal 340B program to  
96 include state correction facilities.

97           **II. INTRODUCTION**

98           At the request of the Attorney General’s office and the Iowa Department of  
99           Corrections and with considerable interest expressed by key legislators, an expert panel  
100           was formed in the fall 2009 to assist in the evaluation of pharmacy services for the Iowa  
101           Department of Corrections (IDOC) institutions. The evaluation team consisted of  
102           pharmacists with substantial institutional, community-based, long-term care, purchasing /  
103           buying group and clinical services backgrounds<sup>1</sup>. There were 7 meetings of the team,  
104           including a visit to the Iowa Medical Classification Center (IMCC)<sup>2</sup>. Outside the usual team  
105           meetings, members collected information regarding pharmacy practices. Of note were two  
106           valuable conference calls, including one extended conference call by three members of the  
107           team with representatives of Texas Tech University College of Pharmacy. That call  
108           provided a great depth of information on how pharmacy operations work for the Texas  
109           Corrections system. Support and information was provided by Dr. Harbans S. Doel, DO,  
110           PHD., medical director for IDOC and members of the Iowa Department of Administrative  
111           Services. Susan Shields, Director of Pharmacy for IDOC, also provided substantial amounts  
112           of her time, knowledge about the pharmacy operations, and effort to provide the team with  
113           data, where available. Her involvement was invaluable to the evaluation team and helped  
114           to create a quality evaluation process.

115           Pharmacy services for the IDOC encompass care for approximately 8,500 offenders  
116           at any given time, residing in one of the nine IDOC institutions. Approximately two out of  
117           every three offenders receives a pharmacy medication (both prescription and non-  
118           prescription). For 2009, it was estimated this resulted in approximately \$10M in medication

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<sup>1</sup> Team names and affiliations are listed in the appendix.

<sup>2</sup> Minutes of the meetings are located in the appendix.

119 costs. Personnel and other pharmacy services costs were not aggregated by the IDOC and  
120 therefore not available to the evaluation team. The team used available IDOC data to  
121 estimate prescription costs (See table in appendix). However, because of the lack of  
122 historically collected data the cost calculations could not factor in critical information, such  
123 as the type of prescriptions or duration of therapy, and therefore it was impossible to  
124 compare the cost per facility estimates across the institutions.

125         The specific goal of the evaluation was to create recommendations for cost  
126 effective options for a) purchasing pharmaceuticals, b) ensuring an efficient and quality-  
127 based medication distribution system, c) ensuring adequate organization and appropriate  
128 levels of pharmacy staffing, and d) exploring the health outcome and economic benefits of  
129 clinical pharmacy services. In short, the overriding goal is to optimize medication-related  
130 care and where appropriate reduce medication-related costs.



131

132 **III. PREVIOUS IOWA DEPARTMENT OF CORRECTIONS**  
133 **EVALUATIONS THAT INCLUDED PHARMACY**

134

135 There have been two recent evaluations of the Iowa Department of Corrections (IDOC)  
136 that included the pharmacy system. In 2005, a consulting firm, Reference Point (report not  
137 available to the evaluation team), examined potential overall cost savings for the IDOC.  
138 One of the projects recommended for cost savings was the centralization of pharmacy  
139 services. This was followed by recommendations by the Durrant Consulting Group (report  
140 located on the IDOC website), which recommended IDOC consider the need to create a  
141 centralized pharmacy operation for their facilities. Following these two reviews,  
142 Pharmacist Susan Shields was appointed the first Director of Pharmacy on 1 July 2009, and  
143 a decision was made to centralize pharmacy services. One of the first objectives was to  
144 eliminate the contract with Diamond Pharmacy Services. They provide mailed  
145 prescriptions to four of the IDOC institutions. Briefly, this decision was made to create  
146 economic and organizational efficiencies while assuring appropriate medication related  
147 health care to offenders in the IDOC system.

148

149 **IV. REVIEW OF CURRENT IOWA DEPARTMENT OF**  
150 **CORRECTIONS HEALTH SYSTEM AS IT APPLIES TO**  
151 **OFFENDERS RECEIVING MEDICATIONS**  
152

153 **IDOC Medical and Pharmacy Administrative Organization:** The IDOC health care  
154 system is led by a Medical Director, Harbans S. Doel, DO, PHD. Reporting to the Medical  
155 Director is a Mental Health Director, Bruce Sieleni, MD. The Director of Pharmacy, Susan  
156 Shields, RPh. also reports to the Medical Director.

157 **IDOC Institutions:** The IDOC operates nine "Institution" facilities: Clarinda  
158 Correctional Facility (CCF), Clarinda; Mt Pleasant Correctional Facility (MPCF), Mt Pleasant;  
159 Ft. Dodge Correctional Facility (FDCF), Fort Dodge; North Central Correctional Facility  
160 (NCCF), Rockwell City; Iowa Correctional Institution for Women (ICIW), Mitchellville; Iowa  
161 Medical and Classification Center (IMCC), Oakdale; Iowa State Penitentiary (ISP), Ft.  
162 Madison; Newton Correctional Facility (NCF), Newton; Anamosa State Penitentiary (ASP),  
163 Anamosa.

164 **IDOC Institution Pharmacy Operations:** Five facilities have on-site pharmacy  
165 operations (CCF, MPCF, FDCF, NCCF, IMCC ) and four do not (ICIW, ISP, NCF, ASP) but use  
166 an out-of-state contract pharmacy -- Diamond Pharmacy Services. Among the on-site  
167 operations, two facilities share pharmacy and pharmacist services with the Iowa  
168 Department of Human Services (DHS) – CCF and MPCF. At the start of the evaluation there  
169 were a total of 9 pharmacist FTEs shared between IDOC and DHS for the on-site facilities.  
170 FDCF, in collaboration with NCCF, had one pharmacy/pharmacist (Ms. Shields) and since  
171 July 2009, is served by a contract pharmacist. IMCC Oakdale has its own pharmacy and is

172 the first stop for offenders upon entry into the system. A health assessment is done upon  
173 entry. The Diamond mail service arrangement has been in operation for 7 or 8 years.

174 **Medical Records and Prescribing:** The IDOC has an electronic medical record  
175 (Advanced Technologies Group, Des Moines, Offender Management Suite) included in the  
176 Iowa Corrections Offender Network (ICON). The entire medical record, including pharmacy  
177 data, is available in the system for the five on-site pharmacies. Prescribing by IDOC  
178 physicians and physician assistants occurs at each facility and the medical system allows  
179 computer prescriber order entry (CPOE). Discharge orders from medical clinic visits at  
180 UIHC (a primary IDOC provider) are considered recommendations to the institution  
181 physician. The University of Iowa Hospitals and Clinics (UIHC) provide telemedicine  
182 services to IDOC institutions and on-site tertiary care at UIHC for offenders.

183 **Administrative Reporting:** The Director of Pharmacy operations, Pharmacist Shields,  
184 reports to the Medical Service Director, Dr. Doel. Pharmacists and technicians in Des  
185 Moines Central Pharmacy report to the Director of Pharmacy. Pharmacists at each of the  
186 institutions report to the warden or superintendent, including the IMCC facility.  
187 Technicians at IMCC report to a pharmacist. Under a 'shared' agreement with IDOC, the  
188 Department of Human Services (DHS) pharmacists in two sites provide care to IDOC  
189 offenders but work for and report through the DHS system. Other pharmacy support  
190 personnel in institutions generally report to on-site nursing supervisors. In general it  
191 appears the Diamond Pharmacy liaison at each institution for the mail service activities is a  
192 nursing staff member.

193 **Staffing:** Due to the frequent IDOC changes and decisions about personnel occurring  
194 within the IDOC, while this evaluation was done, staffing of pharmacy related services was

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192 nursing staff member.

193 **Staffing:** Due to the frequent IDOC changes and decisions about personnel occurring  
194 within the IDOC, while this evaluation was done, staffing of pharmacy related services was

195 difficult to define. IDOC pharmacy employees are located at the Central Pharmacy in Des  
196 Moines and IMCC. Pharmacists at CCF and MPCF were under a collaborative contact with  
197 the Department of Human Services. FDCF and NCCF had a contract pharmacist (since Ms.  
198 Shields became Director). No pharmacy personnel were at ASP, ICIW, NCF.

199           The original plan for the Central Pharmacy was to have 3 pharmacists including one  
200 pharmacy director and a combination of assistants, clerks and certified technicians totaling  
201 four additional employees. The other IDOC pharmacy staffing was at IMCC Oakdale where  
202 at the time of this evaluation there were 1 pharmacist full time, 2 temporary pharmacists, 3  
203 technicians and one clerk. Late in the evaluation process (April 2010) IMCC had two  
204 pharmacist vacancies and was recruiting pharmacists. A plan was in place to eventually  
205 have 2 full time pharmacists, one part time pharmacist, 3 technicians and 1 clerk at IMCC.  
206 ISP had a "pharmacy storekeeper". MPCF had 2 contracted DHS pharmacists for 32 hours  
207 each, one tech and one pharmacy assistant. CCF has contracted with DHS for two shared  
208 pharmacists -- one 20 hour pharmacist, one 15 hour pharmacist -- one relief pharmacist and  
209 one certified technician at 15 hours. (Some data come from IDOC list of health personnel).

210           **Purchasing Pharmaceuticals:** Four institutions (ICIW, ISP, NCF, ASP) receive their  
211 medications (both prescription and non-prescription) from Diamond Pharmacy Services  
212 (645 Kolter Drive, Indiana, PA 15701). This is accomplished through the use of fax  
213 prescription requests and express courier delivery to the institution. It was estimated that  
214 during 2009, approximately \$5.4M was paid to Diamond Pharmacy Services to provide  
215 approximately 120,000 to 132,000 prescriptions per month. Itemized records were not  
216 provided. It was estimated by the evaluation team that the average offender receives three  
217 prescriptions per month at somewhere between \$22.74 and \$58.08 per facility (roughly

218 \$37.50 overall) and prescriptions from Diamond Pharmacy Services at somewhere around  
219 \$41 to \$45 per prescription. IMCC and FDCF/NCCF use Novation as their Group Purchasing  
220 Organization and AmerisourceBergen as their primary vendor / wholesaler. We did not  
221 collect information from the DHS relative to how they manage their pharmacy operations.  
222 Offenders were seen by IDOC prescribers and generally received a 30 day supply or other  
223 lengths of therapy as appropriate. Drug costs in 2008 were \$8.8M and >\$9M in late 2009  
224 with the final figure closer to \$10M.

225 All state contracts for the IDOC go through the Iowa Department of Administrative  
226 Services (DAS) unit. The State purchases supplies from Minnesota Multi-state Contracting  
227 Alliance for Pharmacy (MMCAP) located in Minnesota. DAS staff help to review and create  
228 contracts and has worked with Novation (AmerisourceBergen or McKesson), MMCAP  
229 (AmerisourceBergen) and Diamond Pharmacy through competitive, transparent bid  
230 process. Diamond drug charges were AWP less 20% "brand" and AWP less 70% "generic"  
231 with no dispensing fee. Credit back is charge less \$1.95 processing fee (except schedule II).  
232 The contract with Diamond had no auditing and was scheduled to end on April 1, 2010. The  
233 contract continues on a month to month basis at this time. Contracts with Novation and  
234 MMCAP do have audit provisions, but do not appear to be used. DAS evaluates pharmacy  
235 contracts through the end user. Invoices are paid through services at the IMCC, Oakdale,  
236 facility. Purchasing of items could be directed to Novation or MMCAP, as the institution  
237 chose. It was not clear whether DHS uses DAS for purchasing.

238 The view of the evaluation team is that this is a fragmented purchasing system.  
239 The purchasing system uses many different processes and systems resulting in  
240 inefficiencies and greater expenses.

241           **Distribution:** The distribution of pharmaceuticals in IDOC institutions is regulated  
242 by Iowa State Board of Pharmacy rules and regulations (Chapter 15). Distribution at  
243 operations with pharmacists was performed through secure procedures that appeared to  
244 fulfill regulation and rules. Depending on the situation, offenders were receiving  
245 medications via dispensing directly to the offender or to a nurse for administration or  
246 distribution. If able, they could receive a keep on person (KOP) or self carry labeled zip lock  
247 bag. Not all facilities use KOP. In facilities without pharmacists, distribution of  
248 medications is performed by the nursing staff. It was unclear who actually takes receipt of  
249 products delivered to institutions by Diamond Pharmacy. There are emergency plans for  
250 the provisional stock, per Iowa State Board regulations and arrangements are in place  
251 locally to receive quickly urgently required medications..

252           As with the purchasing system the view of the evaluation team is that the  
253 distribution of medications within the IDOC is fragmented and lacks a systematic  
254 operation.

255           **Drug Therapy Management & Formulary:** The Pharmacy and Therapeutics Health  
256 Service Committee meets quarterly and consists of all physicians, all pharmacists, and  
257 nursing. Chaired by the Medical Service Director, it reviews policies once per year and  
258 discusses formulary and protocols. There are sets of protocols monitored by this group that  
259 appear to be of high quality. No systematic, in-depth population level analyses are  
260 currently being performed. Formulary and protocol management has great potential for  
261 reduction in overall costs. One focus for the IDOC has been the category of  
262 psychotherapeutic agents. Also, a review of acne treatments has reduced costs. At the  
263 time of this report an IDOC open formulary existed with variability from facility to facility.

264 There had been some discussion about stabilizing the formulary across institutions. The  
265 notion was shared that eventually IDOC would like to share a formulary with all local jails to  
266 help manage the number of changes once an individual reaches the IDOC.

267 Assessment of formulary management indicated that there are some systematic  
268 processes in place to manage pharmaceuticals and there is a strong desire to enhance  
269 formulary compliance. However, the system does not take advantage of many  
270 opportunities available through the use of formulary management. Significant cost savings  
271 could be realized through increased formulary management.

272 **Clinical Pharmacist Services:** Minimal clinical pharmacist services were being  
273 delivered in IDOC institutions at the time of this report. There was some indication that  
274 there may be clinical pharmacy assessment via order entry review pursuant to distribution  
275 of the medications. Such clinical assessment appears to be limited. The Director of  
276 Pharmacy has indicated a desire to significantly upgrade clinical pharmacy services.

277 **General Observations of the Current System:** The medication management  
278 system utilized by the IDOC is based on processes put into place over a long period of time.  
279 The integration of the system across all IDOC facilities and the utilization of newer  
280 medication management system designs is not optimal. Purchasing and distribution  
281 systems are fragmented and would benefit from system-wide coordination. Formulary  
282 management and clinical services are not utilized in manner that will optimize outcomes  
283 related to safe and clinically effective care. Combined there are significant opportunities to  
284 redesign the medication system to create cost efficient medication use while providing  
285 appropriate health care.



286

287 **V. IOWA DEPARTMENT OF CORRECTIONS PHARMACY**  
288 **TRANSFORMATION IN PLACE PRIOR TO THIS EVALUATION**  
289

290 The IDOC was in the process of implementing a redesign of pharmacy services at the  
291 time of this evaluation. The transformation was based on the recommendation of at least  
292 two prior consultant reports. These recommendations directed IDOC on the current path  
293 of eliminating the mail services of Diamond Pharmacy Services and centralizing pharmacy  
294 services with one or two in-house pharmacy operations. Several pharmacy changes were in  
295 process during the evaluation review and it was clearly a dynamic time for decisions due to  
296 new information about optimal pharmacy operations and budget reductions that created  
297 economic challenges. One goal being addressed by the Director of Pharmacy was to  
298 standardize pharmacy services across all facilities as much as possible – standardized  
299 purchasing, packaging, distribution, formulary, policies and procedures.

300 A second goal was to create a new design for pharmacy services with a central  
301 pharmacy concept. This included two major steps. The first was to establish a central  
302 pharmacy operation in Des Moines. Initially, it was proposed that the IDOC would divide  
303 their institutions into two regional distribution areas ( i.e., East and West). IMCC would  
304 provide pharmacy service to IMCC, ASP, MPCF and ISP. A new Des Moines central  
305 pharmacy would provide pharmacy service to NCF, CCF, ICIW, FDCF, NCCF. The Des  
306 Moines central pharmacy would serve as the main pharmacy for IDOC. The dual  
307 centralization decision was in flux at the time of this review. The alternative consideration  
308 was to have one central pharmacy provide medications for all sites except IMCC.

309 In establishing the Des Moines centralized pharmacy, a major goal was to discontinue  
310 the Diamond Pharmacy Services contract, initially slated for December 2009, but delayed  
311 at the time of this report, and bring all medication distribution back to the State. This  
312 would result in the standardization of purchasing to optimize pricing, distribution and the  
313 overall medication inventory of Iowa Corrections Offenders Network (ICON) institutions.

314 The new Central Pharmacy was proposed to be staffed by 2 certified technicians (to be  
315 hired), 2 clerks (from NCF), 2 pharmacists (newly hired) and 1 director (Ms. Shields). It was  
316 also indicated that there may be help from pharmacy students on educational experiential  
317 rotations. A new facility (the old Mercy Capitol Hospital building in Des Moines) acquired in  
318 December, 2009, is being redesigned and stocked and will be operational in the late spring  
319 of 2010. The site will prepare oral liquids and solids, inhalers, topical, injections, etc. All  
320 sterile products will be prepared at IMCC Oakdale -- the only institution set up to  
321 appropriately manage this type of therapy. The central pharmacy expects to prepare about  
322 500 prescriptions per day, both prescription and non-prescription medication and use  
323 priority express courier to deliver to sites. Expectations were that there would be 15,000  
324 prescriptions per month once the first 6 institutions had services provided by the central  
325 pharmacy. The plan is to have one institution a week transferred from Diamond Pharmacy  
326 to the central pharmacy starting March 1, 2010 (this appears to be delayed at the time of  
327 this report). Once those institutions have been reasonably integrated, two other  
328 institutions (FDCF and NCCF) will be added. Eventually, the plan at the time of this report is  
329 to add institutions until all facilities except IMCC are under the central pharmacy.  
330 Operations of the central pharmacy were set to be 6am to 6pm M-F and 8am to 12pm Sat.

331 Orders will be acquired through the electronic medical record with only supplementary  
332 orders by fax if needed. All sites have "provisional stock." All institutions will be converted  
333 to a 30-day punch card format similar to what is being used by Diamond-service  
334 institutions. Dispensing less than 30 days will use a similar format.

335

336 **VI. ANALYSIS AND RECOMMENDATIONS**

337 The evaluation team learned early in the process that the 'usual and customary'  
338 statistical data collected by administrative units on pharmacy operations was not  
339 systematically collected by IDOC. For example, basic information such as opening and  
340 closing inventories and recording of the expenses utilizing Diamond Pharmacy Services did  
341 not occur. Total number of orders was provided but it is not possible to determine how  
342 many of those orders were for 30 days vs. one dose. This lack of systematic pharmacy data  
343 collection on a month to month basis does not allow for meaningful comparisons over time.  
344 In short, there is insufficient data being collected and recorded on a regular basis to allow  
345 for systematic analysis and monitoring. The system collects some clinical medication data  
346 on offenders, but this is limited to those facilities not serviced by Diamond Pharmacy  
347 Services. Actual drug costs, complete prescription volume and case mix at each setting are  
348 some of the data required. This made it difficult, and in many ways impossible, to evaluate  
349 operational efficiencies such as the differences in the cost of Diamond Pharmacy Services  
350 vs. in-house pharmacy operations. The team is aware that with a centralized system these  
351 data can be systematically collected in the future. Some data can be extracted now, but  
352 trend data has not been kept.

353 The evaluation team was not given information or the task to evaluate whether this  
354 course of action was advisable. Given the current set of administrative decisions, the goal  
355 of the evaluation team was to optimize the outcome of the above course of action.

356 Analyses and recommendations focused on the four central areas of the evaluation --  
357 purchasing, distribution, structure / staffing, and clinical pharmacy services.

358           **Purchasing:**

359           The evaluation team examined the ways in which pharmaceuticals could be  
360 acquired in a cost-effective manner. The current process of pharmaceutical acquisition was  
361 examined, as well as all available means of materials acquisition not presently utilized by  
362 the IDOC. It was difficult to fully evaluate the effectiveness of the current purchasing  
363 system. It was fragmented with variation across the different IDOC institutions. Historical  
364 documentation of the traditional elements of purchasing effectiveness was limited.  
365 Additionally, because there was a current active plan to remove the contracted provider,  
366 Diamond Pharmacy Services, and begin a central pharmacy distribution system, the  
367 purchasing recommendations focused on opportunities that would enhance a centralized  
368 system.

369           The limited data led the evaluation team to conclude that efficiencies could be gained  
370 by restructuring the current system. To address the fragmented purchasing system, the  
371 **IDOC should work to establish a centralized purchasing system for all nine correctional**  
372 **institutional facilities.** The first step in such a process would be to determine the most  
373 favorable “class of trade” (most favorable pricing) available to IDOC.

374           Moving to a centralized purchasing system allows the IDOC to secure greater discounts  
375 on drug purchase. **DAS should immediately conduct an RFP process to secure services**  
376 **from a national group purchasing organization (GPO),** such as Premier, Novation,  
377 MMCAP or others. The effective use of a GPO for all facilities will enhance efficiencies of  
378 acquisition and maximize savings in the cost of pharmaceuticals. Additionally, as a part of  
379 the required contract, the centralized pharmacy process will establish and systematically  
380 review data to periodically (at least quarterly) evaluate the system. In preparation for a

381 selection process, a “market basket analysis” of the purchase of prescription and non-  
382 prescription drugs across the competing GPO systems should be performed. Any contract  
383 should be systematically evaluated on a quarterly basis.

384 The purchasing of pharmaceuticals is a complex process with many unusual elements  
385 not found in other types of contracting. To capitalize on expertise available to IDOC and  
386 Administrative Services related to the purchase of pharmaceuticals, **the State should**  
387 **secure, through contract, an expert in pharmacy purchasing systems to assist the**  
388 **Administrative Services and IDOC in the contract acquisition (selection and related**  
389 **processes) and ongoing contract evaluations.**

390 Another potential cost benefit to purchasing may be achieved through the Iowa  
391 Prescription Drug Corporation (IPDC). The IPDC, though a program initiated and funded by  
392 the State of Iowa, acquires and redistributes unused medications. It is a state funded  
393 nonprofit agency. IPDC primarily serves Iowa by serving as a repository for unused  
394 medications. The drugs collected by IPDC are obtained from various long term care  
395 settings when a patient has received a medication order and the drug is no longer needed  
396 and cannot be returned to the dispensing pharmacy. IPDC currently redistributes these  
397 unused medications to a small number of community health centers and free health clinics  
398 in Iowa. There may be cases in which high cost medications may create cost effective  
399 alternatives for resident offenders, offenders at the time of release and/or use for offenders  
400 post release. **IDOC should explore cost savings opportunities associated with the IPDC**  
401 **medication redistribution program and the Iowa State Board of Pharmacy to create a**  
402 **system of repackaging and redistribution of unused medications, both for inmates and**  
403 **discharged offenders.**

404 One important program evaluated by the team was the potential access of medications  
405 through the federal 340B pricing program. Medications through this system have been  
406 seen to save as much as 20-50% in drug costs. The key to using 340B pricing is that care  
407 must be provided by a legislated 340B covered entity. In the State of Iowa prison system,  
408 offenders receive care through the IDOC's own health care provider program. Under this  
409 structure, IDOC does not qualify as a covered entity. **IDOC should monitor changes in the**  
410 **340B program and changes in the delivery of care to IDOC offenders to determine if**  
411 **changes in either system will allow the use of 340B pricing in the future. Iowa**  
412 **legislators are urged to encourage federal officials to expand the federal 340B program**  
413 **to include state correction facilities.**

414

415 **Distribution:**

416 Once pharmaceuticals are purchased there needs to be a safe and efficient system that  
417 distributes medications to the offenders. IDOC has committed itself to the establishment  
418 of a central pharmacy distribution program. **A phased-in centralized distribution system**  
419 **for all nine correctional institutions, with special consideration for IMCC, should be**  
420 **pursued with the highest priority in order to maximize efficiencies.** Procedures for  
421 controlled, monitored distribution of pharmaceuticals from the central pharmacy to the  
422 institution and to the end user should be created. Once the new central distribution  
423 system is established, the **use of provisional stock at each facility should be reevaluated**  
424 to assure proper access while at the same time creating savings through decreased  
425 inventories. And to assure proper and timely access to needed pharmaceuticals, **each**  
426 **institution should have a standardized, rapid medication acquisition system in place to**  
427 assure that there are no gaps in necessary care.

428

429 **Structure/ Staffing:**

430 The IDOC has been working to improve the organizational structure of pharmacy  
431 services. **The Director of Pharmacy should be clearly established as a full-time**  
432 **administrative role** ensuring time to plan and activate initiatives that continue to  
433 strengthen pharmacy services. Missed opportunities for ensuring efficiencies and cost  
434 savings are presently occurring because the Director of Pharmacy is also involved in the day  
435 to day distribution activities.

436 Operationally the central pharmacy should optimize technology and automation.  
437 With technology comes better efficiencies and systems can be created to optimize safety.  
438 Most of the distribution processes can be performed by certified pharmacy technicians with  
439 appropriate pharmacist oversight. It was reported that the central pharmacy will dispense  
440 an average of 500 prescriptions per day. Current staffing does not provide adequate  
441 support for a centralized purchasing and distribution system for all nine correctional  
442 facilities. **IDOC should initiate staffing at the central pharmacy with 2 FTE pharmacists,**  
443 **3-5 certified technicians, in addition to a director of pharmacy.** The evaluation team  
444 noted that there is a significant disparity between IDOC salaries for pharmacists and  
445 technicians in the IDOC system and the private sector. **The State should reconsider the**  
446 **pharmacist classifications it uses for IDOC and re-evaluate both the pharmacist and**  
447 **technician salary categories.** While pharmacy students may be utilized, they should not be  
448 entered into the staffing equation because their time at the setting is primarily educational.

449 One major area to consider is the collection and monitoring of data related to the entire  
450 pharmacy services operation. The evaluation team found the data on prescription



451 purchase, distribution and usage to be incomplete and data collection to be fragmented. A  
452 **comprehensive system of data collection and monitoring should be established by the**  
453 **Director of Pharmacy.**

454 **Clinical Pharmacy Services:**

455 There is little evidence that clinical pharmacy services are currently utilized to optimize  
456 care and minimize costs. It has been well established that clinical pharmacy services  
457 provide better outcomes while reducing costs. Clinical pharmacy services pay for  
458 themselves through the savings created by stronger formulary compliance and optimal  
459 medication use. The current system lacks contemporary clinical services that optimize care  
460 and minimize cost. **The IDOC should establish a clinical pharmacy program to complete**  
461 **its transformation to a contemporary health care system.** Such services could be  
462 secured via contract.

463 Clinical pharmacists could work on enhancing formulary management<sup>3</sup>creating  
464 treatment protocols, and patient monitoring similar to institutional pharmacy systems.  
465 Offenders should be monitored via their medical records on a recurring basis. Institutions  
466 should be visited on a regular basis to provide pharmacotherapy consultations for  
467 physicians and counsel offenders. Clinical pharmacists should do case reviews, focused  
468 drug therapy management reviews, compliance monitoring and targeted medication  
469 reviews (i.e., high cost, high use, high risk, high abuse). Comprehensive medication review  
470 programs work well. A systematic monitoring of the entire offender population, similar to  
471 what occurs for beneficiaries in large insured populations, will create a system that can  
472 minimize medication costs and optimize health outcomes. Clinical pharmacist educational

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<sup>3</sup> In an interview with pharmacists working with the Texas Corrections system, it was noted formulary maintenance alone paid for the extensive clinical programs they had in place.

473 programming for IDOC employees and disease and medication management programs for  
474 offenders would yield great gains for the program.

475 One clinical area where there appears to be some quality effort is the management of  
476 clinical protocols. This process is currently partially developed and there is good physician  
477 leadership. However, there should be comprehensive analysis, development,  
478 implementation and management of formulary services. This particular activity alone  
479 serves as a major cost savings for the Texas Correctional System, and accounts for savings  
480 much greater than the costs of clinical services for all other programmatic areas.

481

## 482 **ADDITIONAL RECOMMENDATIONS**

483 A central purchasing process will help alleviate the fragmented system, lead to  
484 favorable pricing conditions and create purchasing efficiencies. Because there is a similar  
485 need at both IDOC and DHS and because of the overlap of these two systems of State  
486 supported care, **the State should align and integrate purchasing and distribution of**  
487 **prescription and related products for IDOC and DHS.** DHS operates seven mental health  
488 and ICF/MR facilities in various parts of the state. Two DHS facilities jointly house IDOC  
489 facilities. IDOC and DHS have a history of sharing administrative and dietary services at  
490 these locations, most notably, Clarinda and Mt Pleasant. Because of the changes to the  
491 IDOC system, there will need to be a resolution of what will occur in settings where IDOC  
492 offenders are provided care by DHS employees (contracted to IDOC). IDOC and DHS  
493 administrators are urged to correct the fragmented approach in pharmacy services.

494 Two initial actions should be taken by the IDOC to make substantial strides in  
495 developing pharmacy services that create optimal health outcomes and greatly reduce

496 costs. The first is that the **State should secure a consultant to assist the IDOC with the**  
497 **preparation and selection of a pharmacy group purchasing organization that will help**  
498 **manage the acquisition of pharmaceuticals.** Second the **State should impanel an expert**  
499 **advisory committee to offer immediate and on-going advice regarding the complexities**  
500 **of purchasing, distribution and clinical management of pharmaceuticals for large**  
501 **populations.** This panel can provide IDOC with a broad set of experiences, professional  
502 knowledge and pharmacy business acumen. An early role of the expert panel would be to  
503 establish systematic data collection on all aspects of the pharmacy operation to allow both  
504 trend analyses and evaluation of pharmacy programs. Members of the evaluation team are  
505 willing to advise the IDOC in the selection of the consultant and advisory panel.

506

## 507 VII. CONCLUSIONS

508 To optimize medication-replaced care and where appropriate reduce medication  
509 costs, the evaluation team examined options for the purchasing pharmaceuticals, ensuring  
510 a quality based medication distribution system, ensuring adequate organization and  
511 appropriate levels of pharmacy staffing, and exploring the health outcome and economic  
512 benefits of clinical pharmacy services.

513 Recommendations are as follows:

- 514 • The IDOC should work to establish a centralized purchasing system for all  
515 nine correctional institutional facilities.
- 516 • DAS should immediately conduct an RFP process to secure services from a  
517 national group purchasing organization (GPO).
- 518 • IDOC should explore cost savings opportunities associated with the IPDC  
519 medication redistribution program and the Iowa State Board of Pharmacy  
520 to create a system of repackaging and redistribution of unused medications,  
521 both for inmates and discharged offenders.
- 522 • IDOC should monitor changes in the 340B program and changes in the  
523 delivery of care to IDOC offenders to determine if changes in either system  
524 will allow the use of 340B pricing in the future.
- 525 • Iowa legislators are urged to encourage federal officials to expand the  
526 federal 340B program to include state correction facilities.
- 527 • A phased-in centralized distribution system for all nine correctional  
528 institutions, with special consideration for IMCC, should be pursued with  
529 the highest priority in order to maximize efficiencies.

- 530 • The use of provisional stock at each facility should be reevaluated.
- 531 • Each IDOC institution should have a standardized, rapid medication
- 532 acquisition system in place to assure that there are no gaps in necessary
- 533 care.
- 534 • The Director of Pharmacy should be clearly established as a full-time
- 535 administrative role.
- 536 • IDOC should initiate staffing at the central pharmacy with 2 FTE
- 537 pharmacists, 3-5 certified technicians, in addition to a director of pharmacy.
- 538 • The State should reconsider the pharmacist classifications it uses for IDOC
- 539 and re-evaluate both the pharmacist and technician salary categories.
- 540 • A comprehensive system of data collection and monitoring should be
- 541 established by the Director of Pharmacy.
- 542 • The IDOC should establish a clinical pharmacy program to complete its
- 543 transformation to a contemporary health care system.
- 544 • The State should align and integrate purchasing and distribution of
- 545 prescription and related products for IDOC and DHS.
- 546 • The State should secure a consultant to assist the IDOC with the
- 547 preparation and selection of a pharmacy group purchasing organization
- 548 that will help manage the acquisition of pharmaceuticals.
- 549 • The State should impanel an expert advisory committee to offer immediate
- 550 and on-going advice regarding the complexities of purchasing, distribution
- 551 and clinical management of pharmaceuticals for large populations.

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555 **VIII. APPENDIX**

- 556 • List of the team:
- 557 • Evaluation Team Estimation of Average Prescription Costs per Facility.
- 558 • Minutes of the evaluation team meetings

559

560 **Iowa Department of Corrections Pharmacy Evaluation Team**

561

562 **Paul Abramowitz, PharmD, FASHP**

563 Paul Abramowitz is currently the Chief Pharmacy Officer of the University of Iowa  
564 Hospitals and Clinics (UIHC) in addition to serving as the Hospital Associate Director for  
565 professional services at UIHC. His roles at the University of Iowa College of Pharmacy  
566 include Assistant Dean and tenured professor in the Department of Pharmacy Practice and  
567 Science. Dr. Abramowitz earned his B.S. in Pharmacy from the University of Toledo in 1977.  
568 He received his Doctor of Pharmacy from the University of Michigan in 1979 and went on to  
569 complete a residency in hospital pharmacy from the University of Michigan Hospital the  
570 same year.

571 Dr. Abramowitz became a Fellow of the American Society of Health-System  
572 Pharmacists (ASHP) in 1996. He has also served as a past president, board member and  
573 treasurer of ASHP. In 2009, he received the distinguished Harvey A Whitney Lecture Award  
574 from ASHP and was awarded the Health-System Pharmacist of the Year Award by the Iowa  
575 Pharmacy Association. He has authored over 140 scholarly publications and presentations.

576

577 **Kate Gainer, PharmD**

578 Kate Gainer is the Vice President of Professional Affairs for the Iowa Pharmacy  
579 Association - a position she has held since 2005. Dr. Gainer received her Doctor of  
580 Pharmacy from the University of Wisconsin-Madison School of Pharmacy in 2004 before  
581 going on to complete a PGY1 residency with emphasis in community pharmacy practice.

582 Dr. Gainer's career with the Iowa Pharmacy Association has been focused on  
583 cultivating professionalism and policy development among Iowa's pharmacists, pharmacy  
584 students and pharmacy technicians and also on seeking meaningful opportunities for  
585 pharmacists to better the health of Iowans through their professional services. She  
586 regularly precepts students from both of Iowa's colleges of pharmacy and delivers  
587 presentations on various topics of interest, such as professionalism, value of pharmacist  
588 services, continuous quality improvement, pharmacy-based immunizations, medication  
589 disposal and health literacy .

590

591 **James Miller, RPh, MBA**

592 James Miller is currently co-owner of Miller-Purcell, Inc., a pharmacy management  
593 company. He is also an adjunct professor for the University of Iowa College of Pharmacy.  
594 Mr. Miller's previous pharmacy experience has included roles as an independent pharmacy

595 owner, community pharmacy director, hospital pharmacy director, and pharmacy supply  
596 business founder. He earned his B.S. in Pharmacy from the University of Iowa College of  
597 Pharmacy in 1971 and later received his MBA from the University of Dubuque in 2004.

598 Mr. Miller is an active member of the professional pharmacy community. He is  
599 involved in the American Pharmacists Association and the American Society of Consultant  
600 Pharmacists, of which he was named a Fellow in 1994. He is a past president of the Iowa  
601 Pharmacy Association and a previous winner of its Robert J. Gibbs Distinguished  
602 Pharmacist Award. Mr. Miller is also the Chairperson of the Iowa Council on Human  
603 Services, a position he has held since his appointment by Governor Vilsack in 2001.

604

605 **Steven Nelson, RPh, MS**

606 Steven Nelson serves as Interim Director for the Department of Pharmaceutical  
607 Care at The University of Iowa Hospitals and Clinics. Additionally, Mr. Nelson is an adjunct  
608 associate professor for the University of Iowa College of Pharmacy. He received his B.S. in  
609 Pharmacy in 1971 from the North Dakota State University College of Pharmacy. Mr. Nelson  
610 later earned a Master of Science in Hospital Pharmacy from the same institution in 1974  
611 while completing a two-year residency program at the Veterans Administration Center in  
612 Fargo, North Dakota.

613 Mr. Nelson is an active member of both the Iowa Pharmacy Association and the  
614 American Society of Health System Pharmacists. He has authored numerous scholarly  
615 publications and presentations largely concerning health care patient safety and the role  
616 performance and quality improvement of pharmacy services can play in achieving greater  
617 patient safety.

618

619 **CoraLynn Trewet, PharmD, MS**

620 CoraLynn Trewet is an Assistant Professor (Clinical) at the University of Iowa  
621 College of Pharmacy. Her clinical practice is located at Broadlawns Family Medical Center in  
622 Des Moines, IA. She also serves as Director of Continuing Education for the University of  
623 Iowa College of Pharmacy and the Collaborative Education Institute. Dr. Trewet received  
624 her Doctor of Pharmacy from Drake University in 2003. She went on to complete a  
625 pharmacy practice management residency and receive a Master of Science in Pharmacy  
626 Practice from the University of Kansas in 2005.

627 Dr. Trewet is an active member of multiple professional pharmacy organizations  
628 including the American pharmacists Association, the American Society of Health-System  
629 Pharmacists, the American College of Clinical Pharmacists, National Lipid Association, and  
630 the Iowa Pharmacy Association. She was recently named a Fellow of the National Lipid  
631 Association and has been previously honored as the University of Iowa College of  
632 Pharmacy's Preceptor of the Year. She has authored over 50 publications and presentations  
633 on various topics both professional and clinical in nature.

634

635 **Bernard Sorofman, PhD**

636 Bernard Sorofman is Professor and Chair of the Department of Pharmacy Practice  
637 and Science and Executive Associate Dean at The University of Iowa College of Pharmacy.  
638 He was educated in Anthropology at the University of Nevada, Las Vegas and Pharmacy at  
639 the University of Oklahoma. He received his doctoral education in Social & Administrative  
640 Pharmacy at the University of Minnesota in 1984.

641 Dr. Sorofman is a past-president of the Academy of Pharmaceutical Research and  
642 Science (APRS) of the American Pharmaceutical Association, which included a one year ex

643 officio term as a member of the APhA Board of Trustees. His research concerns the  
644 interrelationship of patient and pharmacist behavior, as well as the individual health  
645 seeking behaviors of patients and the roles of pharmacists. He is the author of over 150  
646 scholarly publications and presentations.

647

648 **Thomas R. Temple, RPh, MS**

649 Thomas R. Temple is the Executive Vice President and Chief Executive Officer of  
650 the Iowa Pharmacy Association (IPA), a position he has held since 1980. Mr. Temple  
651 received a B.S. degree in Biology from Northern Illinois University (1971), a B.S. degree in  
652 Pharmacy from the University of Illinois (1975) and a M.S. degree in Pharmacy  
653 Administration from the University of Iowa (1977). In addition to serving as chief executive  
654 officer of IPA, Mr. Temple also serves as CEO of the Iowa Pharmacy Foundation (IPF),  
655 Pharmacy Network of Iowa (PNI), the Iowa Pharmacy Recovery Network (IPRN), and the  
656 Collaborative Education Institute (CEI) -- four subsidiary and related corporations of the  
657 Iowa Pharmacy Association.

658 Mr. Temple is a member of several professional organizations including the IPA, the  
659 American Pharmacists Association (APhA), the National Alliance of State Pharmacy  
660 Associations (NASPA) for which he is a past president, and the American Society of  
661 Association Executives (ASAE). Mr. Temple's leadership has been recognized through  
662 receipt of several awards including APhA's Gloria Neimeyer-Francke Leadership Mentor  
663 Award, the Medic Alert Outstanding Service Award, the University of Illinois' College of  
664 Pharmacy Alumnus of the Year Award, the University of Iowa College of Pharmacy  
665 Alumnus of the Year Award and the University of Iowa Distinguished Alumni Award for  
666 Service.

667

668 **Brian Wegmann**

669 Brian Wegmann's joined the NuCara Pharmacy team in 1991, as an after school  
670 front-end clerk for NuCara Pharmacy in Dyersville, Iowa. From 1993-1996, Brian worked as  
671 a technician at NuCara's pharmacy in Waterloo while attending college. Following college,  
672 Brian's role in NuCara expanded as he assisted the Director of Operations, eventually  
673 becoming Assistant Operations Manager in 1997. In 2000, Brian was named Director of  
674 Operations, and in 2004 Brian was promoted to Executive VicePresident of NuCara. As  
675 EVP, Brian was responsible for the day-to-day operations of 11 pharmacies in Iowa, one in  
676 Illinois and one in Austin, Texas, including third-party contracts, financial affairs, strategic  
677 planning, and issues related to the companies' 145 employees. In 2006, Brian was named  
678 Chief Executive Officer of NuCara and became a shareholder in the company. Today Brian  
679 continues to serve in this capacity and is working diligently to transform NuCara into a  
680 more complete health care company, centered around the goal of keeping NuCara's  
681 patients independent, active and healthy.

682

683 **Ex Officio Member from the Department of Corrections**

684

685 **Susan Shields, RPh**

686 Susan Shields recently stepped into the newly formed position of { Pharmacy  
687 Director} for the Iowa Department of Corrections. Prior to this, Ms. Shields served as



688 Pharmacist-in-Charge of the Fort Dodge Correctional Facility. She has previous work  
689 experience in a variety of pharmacy settings, including health-system, community, and  
690 long-term care pharmacy. She received a B.S. in Pharmacy and a B.S. in Biology from Drake  
691 University in 1983.

692 Ms. Shields currently oversees the pharmacy operations of nine correctional  
693 facilities in the state of Iowa. She has assisted in the development of the pharmacy  
694 software program currently in use by the Iowa Department of Corrections and is currently  
695 spearheading many new projects aimed at improving the efficiency and effectiveness of  
696 pharmacy services in Iowa's correctional facilities.

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699 EVALUATION TEAM ESTIMATION OF AVERAGE PRESCRIPTION COSTS PER FACILITY.

	ASP	CCF	FDCF	ICIW	IMCC	ISP	MPCF	NCF	NCCF	Total
Inmate Census	1150.67	990.3	1148.87	552.67	998.02	1090.67	1014.08	1171.33	488.68	8605.29
Total Rx Orders	26267	18712	17334	28150	48018	32370	13155	35353	6655	226014
% Non Formulary	11.20	6.60	4.68	12.72	7.76	13.17	7.32	10.98	6.03	8.94
Rx	1.96	2.85	1.51	4.53	3.66	3.58	2.24	2.59	1.75	
# RX per Inmate	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Net Costs	1,005,708.59	1,051,948.61	599,556.77	971,268.11	1,091,813.45	1,440,161.53	764,021.91	1,263,202.72	287,481.38	8,475,163.07
Avg RX Cost	\$ 38.29	\$ 56.22	\$ 34.59	\$ 34.50	\$ 22.74	\$ 44.49	\$ 58.08	\$ 35.73	\$ 43.20	\$ 37.50

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**Iowa Department of Corrections  
Pharmacy Evaluation Project  
Meeting #1 - September 17, 2009  
Des Moines, Iowa  
10am to 230pm**

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**Attendees:** Abramowitz, Paul; Feldman, Josh (by telephone); Gainer, Kate; Miller, James; Nelson, Steve; Shields, Susan; Sorofman, Bernard; Temple, Thomas R.; Trewet, CoraLynn; Wegmann, Brian;

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**Introductions:** Brief introductions of the evaluation team (see Attendee list above).

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**Discussion of Purpose:** At the request of the Attorney General's office and the Iowa Department of Corrections (Director Baldwin), a group was formed to assist in the evaluation of pharmacy services for the Department of Corrections (DOC) institutions.

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**Current Status:** The Iowa DOC, following recommendations by the Durrant Consulting Group, determined the need to create a centralized pharmacy operation for their facilities. Susan Shields was appointed the first Director of Pharmacy Services on 1 July 2009. Briefly, the decision was made in order to create economic and organizational efficiencies while assuring appropriate medication related health care to offenders in the DOC system.

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**Previous DOC consultant:** A brief discussion reviewed the previous consultant activity by the Durrant Consulting Group (2007) with few details. The consultants looked at many aspects of the DOC system, one of which was pharmacy and included a phone conference with the University of Iowa Hospital and Clinics (UIHC) Department of Pharmaceutical Care administration.

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**DOC Facilities:** The DOC operates 9 "Institution" facilities: Clarinda Correctional Facility, CCF, Clarinda; Mt Pleasant Correctional Facility, MPCF, Mt Pleasant; Ft. Dodge Correctional Facility, FDCF, Fort Dodge; North Central Correctional Facility, NCCF, Rockwell City; Iowa Correctional Institution for Women, ICIW, Mitchellville, Iowa Medical and Classification Center, IMCC, Oakdale; Iowa State Penitentiary, ISP, Ft. Madison; Newton Correctional Facility, NCF, Newton; Anamosa State Penitentiary, ASP, Anamosa. Five facilities have on-site operations (CCF, MPCF, FDCF, NCCF, IMCC ) and four do not (ICIW, ISP, NCF, ASP), but use an out of state contract pharmacy, Diamond Pharmacy Services. Of the on-site operations, two facilities share pharmacy and pharmacist services with the Iowa Department of Human Services – CCF and MPCF. There are a total of 9 pharmacist FTEs for the on-site facilities. FDCF, in collaboration with NCCF, had one pharmacy (Ms. Shields) and is now served by a local contract pharmacist. Oakdale has its own pharmacy and is the

736 first stop for offenders upon entry into the system. A health assessment is done upon  
737 entry. The Diamond mail service arrangement has been in operations for 7 or 8 years.

738 **DOC Pharmacy Transformation:** The DOC is looking for a total redesign of pharmacy  
739 services. One goal is to standardize across all facilities as much as possible – standardized  
740 packaging, standardized formulary, standardized policies and procedures.

741 Currently Diamond costs about \$450,000 per month for approximately 10,000 to  
742 11,000 prescriptions per month. Itemized records are not provided. It is estimated that the  
743 average offender gets 3 prescriptions per month at about \$41 to \$45 per prescription. On-  
744 site pharmacies use Novation --- AmerisourceBergen. Offenders are seen by DOC  
745 prescribers and generally receive a 30 day supply, although they may get 7, 14, and 21 day  
746 supplies. If able, they get a keep on person (KOP) or self carry labeled zip lock bag. Not all  
747 facilities use KOP. Drug costs in 2008 were \$8.8M and >\$9M in 2009 (may be closer to  
748 \$10M).

749 The DOC has an electronic medical record (Advanced Technologies Group, Des  
750 Moines, Offender Management Suite). Formulary review does occur with minimal, but  
751 increasing, formulary control. A formulary group meets quarterly. No population level  
752 analyses are being performed presently. Patient data are available for the 5 on-site  
753 pharmacies. Prescribing by physician assistants and physicians occurs at each facility.  
754 Discharge orders from medical clinic visits at UIHC (A primary DOC provider) are considered  
755 recommendations. UIHC has telemedicine facilities to DOC institutions.

756 A new design for pharmacy services will have a central pharmacy concept. They  
757 will use a 30 day 'bingo' card distribution. All sites have "provisional stock." Question about  
758 'returns' but we did not have data on this.

759 All state contracts for the DOC go through the Iowa Administrative Services unit.  
760 The State buys supplies from Minnesota Multi-state Contacting Alliance for Pharmacy  
761 (MMCAP) out of Minnesota.

762 **Staffing:** IDOC employees for pharmacy are at the Central pharmacy and IMCC.  
763 Pharmacists are contracted at CCF and MPCF with the Department of Human Services.  
764 FDCF and NCCF have a local contract pharmacist (since Ms. Shields became Director). No  
765 pharmacy personnel at ASP, ICIW, NCF. Oakdale staffing: 3 full time pharmacists listed on  
766 web with 2 part time, 2 full time techs and one part time, one pharmacy assistant with  
767 another part time and one clerk full time. ISP has a pharmacy storekeeper. MPCF has 2  
768 contracted DHS pharmacists for 32 hours each, one tech and one pharmacy assistant. CCF  
769 has contacted with DHS for 1 full time pharmacist, one 20 hour pharmacist, one 15 hour  
770 pharmacist, one relief pharmacist and one Certified tech at 15 hours. (Data come from  
771 IDOC list of health personnel).

772 **New Central Pharmacy Plan:** The IDOC will create a central pharmacy with an Oakdale  
773 satellite. Central will be staffed by 3 certified techs, 1 clerk, 2 pharmacists and 1 director  
774 (Shields). A new facility (old Mercy building) should be operational by 1 January 2010. The  
775 site will do preparations for oral liquids and solids, inhalers, topical, injections, etc. All  
776 sterile products will be at IMC C Oakdale. Expect to do about 500 Prescriptions per day,  
777 including OTC. Priority express courier will deliver to sites.

778 **IDOC Administrative Organization:** Medical director: Harbans S. Doel, DO, PHD; Mental  
779 health Director: Bruce Sieleni, MD; Pharmacy Director, Susan Shields. The Pharmacy and  
780 Therapeutics Health Service meets quarterly and consists of all physicians, all pharmacists,  
781 and nursing. Chaired by the Medical Service Director it reviews policies once per year and  
782 discusses formulary and protocols. This would be the group to approve collaborative  
783 practice protocols.

784 **Reporting:** The director of pharmacy operations reports to the Medical Service Director;  
785 pharmacists in Des Moines report to Director of Pharmacy; Pharmacists at institutions  
786 report to warden or superintendent; DHS pharmacists work under a 'shared' agreement  
787 with IDOC and report through the DHS system; technicians in Des Moines report to  
788 Director of Pharmacy; Technicians in facilities report to nursing supervisors; Diamond  
789 pharmacy liaison is nursing at the institution.

790 **Purchasing:** WE must compare Novation and MMCAP prices. Market basket analysis.  
791 What are rebates? Plan a discussion with Administrative Services. What is DOC "class in  
792 trade"? Request data such as prescription volume, number of doses and non-drug expense.

793 **Distribution:** Brief conversation. Question about central pharmacy operations. More next  
794 time.

795 **Notes:**

- 796 • Drake students writing patient education library for offenders.
- 797 • DMACC will use central pharmacy site for technician training.
- 798 • 30 day supply to offenders at discharge. No follow-up
- 799 • WE must address 340B program
- 800 • Bar code technology not likely to be useful for a few years at the institutions.
- 801 • Diamond knows about plan:

802

803

**Iowa Department of Corrections**

804

**Pharmacy Evaluation Project**

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**Meeting #2 - October 6, 2009**

806

**Oakdale, Iowa**

807

**10am to 11am**

808

809 **Attendees:** Abramowitz, Paul; Gainer, Kate; Miller, James; Nelson, Steve; Shields, Susan;

810 Temple, Thomas R.; Trewet, CoraLynn; Wegmann, Brian;

811

**Tour of facility**

812

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**Iowa Department of Corrections**

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**Pharmacy Evaluation Project**

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**Meeting #3 - October 28, 2009**

816

**Des Moines, Iowa**

817

**10am to 2pm**

818

819 **Attendees:** Abramowitz, Paul; Gainer, Kate; Miller, James; Nelson, Steve; Shields, Susan;  
820 Sorofman, Bernard; Temple, Thomas R.; Trewet, CoraLynn; Wegmann, Brian;

821 **Guests:** Harbans S. Deol, DO, PHD, Director of Medical Services IDOC, Jeanette Chupp,  
822 Iowa Dept Administrative Services, Kenneth Paulsen, Iowa Department of Administrative  
823 Services.

824 **Observations at the Oakdale Visit.** Meeting #2.

825 **340B:** The use of low cost mediations through the 340B program is of interest to some  
826 legislators. Medications have been seen to be as much or more than 35% cheaper than  
827 Medicaid programs through this system. Vermont, Maine, Texas and West Virginia are  
828 using 340B in their corrections system. The key to using 340B is that care must be provided  
829 by a legislated 340B covered entity. In the covered states, care is provide through either a  
830 specific covered hospital or a federally qualified health center. In Iowa, the care offenders  
831 receive is through the IDOC's own health care provider program. Therefore, the IDOC does  
832 not qualify under the current care structure. UIHC have two experts on 340B – Trisha Smith  
833 and Don Hansen.

834 **Formulary:** Formulary management has great potential for reduction in overall costs. One  
835 focus already for the DOC are the psychotherapeutic agents. Also, a review of acne  
836 treatments had reduced costs. Formulary related questions: How big is each facility  
837 inventory (provisional stock)? What is the general prescribing proportion? What will be  
838 costs savings due to Diamond shift to a Central Pharmacy? How much can be saved with  
839 shift to generics? A market analysis is needed. Note current data on prescriptions does not  
840 give the information on how many days that prescription is covering (7, 14, 21, 30). Trend  
841 and population information analyses would assist in improving cost management and  
842 quality care. Right now each facility has a different formulary and consolidating the  
843 formulary to hold stable for each institution would be beneficial. Eventually, there is a  
844 vision to share a formulary with all local jails to help manage the number of changes once  
845 an individual reaches the DOC. All protocols and follow up for formularies goes through the  
846 Pharmacy and Therapeutics committee.

847 **Discussion with Iowa Department of Administrative Services:** Jean Chupp and Ken  
848 Paulson. DOC must go through the Department of Administrative Services. DHS does not

849 have to go through them. Pharmacy is defined as a service. Administrative Services (AS)  
850 help to review and create contracts. AS has worked with Novation (AmerisourceBergen or  
851 McKesson), MMCAP (AmerisourceBergen) and Diamond Pharmacy through competitive  
852 bids. Diamond has an "AWP less %" amount (cost minus 1.27%). AS does competitive  
853 transparent bidding. The DOC uses its contract for Novation through the UIHC connection.  
854 Diamond is AWP less 20% brand and AWP less 70% generic with no dispensing fee. Credit  
855 back is charge less \$1.95 processing fee (except schedule II). Contract with Diamond has no  
856 auditing, contracts with Novation and MMCAP do. AS evaluates contracts through the end  
857 user. Invoices are paid for DOC through Oakdale. Purchasing can be directed to Novation  
858 or MMCAP.

859 DHS Contracts need to be discussed with DHS. DHS pharmaceutical audit person is  
860 Brad Horn.

861 **Staffing levels:** The team discussed clinical pharmacist roles and the need to shift general  
862 preparation of prescriptions to the technicians. A topic for later will be how to design a  
863 clinical pharmacist program.

864 **Discussion Questions:**

- 865 • What would be the ideal pharmacist job description?
- 866 • What contracts are operational now?
- 867 • What is the current inventory at each institution?
- 868 • What is pharmacy role in aggregate DUR?
- 869 • What is the best way to deliver clinical services?

870 **Draft Outline of team report:**

871 Intro  
872 Charge  
873 Executive Summary  
874 Review of Current "pharmacy" structure, facilities  
875 How Pharmacists are employed / utilized  
876 Purchasing, etc  
877 Review of Current Health System structure as it applies to offenders  
878 receiving drugs  
879 Physicians  
880 Hospitals  
881 Affiliation with UIHC and other hospitals  
882 Review of current Purchasing  
883 Review of current Distribution  
884 Review of current Drug therapy management, medication safety  
885 Overview of tentative plans to change and active changes going on  
886 Release Diamond; new facility, new purchasing, new distribution,  
887 new drug therapy management  
888 Recommendations



889	Structure of practice
890	Where pharmacists report, etc
891	Acquisition / purchasing
892	Distribution
893	Cover 34ob
894	Drug therapy management
895	Conclusions
896	List of the team

897

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**Iowa Department of Corrections**

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**Pharmacy Evaluation Project**

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**Meeting #4 - November 24, 2009**

901

**Des Moines, Iowa**

902

**10am to 1pm**

903

904 **Attendees:** Abramowitz, Paul; Gainer, Kate; Miller, James; Shields, Susan; Sorofman,  
905 Bernard; Temple, Thomas R.; Trewet, CoraLynn; Wegmann, Brian;

906

**Guest:** Bill Roach, Attorney General's Office

907

**Updates from Susan Shields:**

908

- Mercy building vacated and taken over by Central pharmacy. Diagrams done.

909

- Has 60 days to hire people.

910

- ICON online system for Diamond facilities can happen at any time.

911

- Physician ICON order entry will work fine.

912

- Diamond contract extended to 1 April 2010. Begin bringing on facilities in March; maybe one a week.

913

914

- All sites converted to central pharmacy services eventually.

915

- The plan meets the central fill requirements of the Iowa State Board of Pharmacy.

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917

**Board Regulations:** The above started some discussion about fulfilling State Board

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requirements. Receipt of products was discussed, specifically who takes delivery at the

919

institutions. There are emergency plans for the provisional stock. Policies and procedures

920

must be checked. As of right now, they know who signs for the FedEx box.

921

**DHS:** We must understand how the DOC transition effects DHS and visa versa. Cost

922

consideration will be a major issue. Office of Attorney General can help with DHS

923

communications. Team feels we must talk with them. Jim Miller will see who we should

924

contact (Sally Cunningham; Charlie Krogmeyer)

925

**Clinical Services:** Paul, Steve, Bernard will collate ideas.

926

**Overall Central Plan:** There is concern that \$400k is not sufficient to purchase the basic

927

drugs for setting up the pharmacy. We cannot change the pharmacist salary of \$75k, which

928

is too low. We cannot change the basic Tech salary, which is too high. There needs to be a

929

new personnel classification for pharmacists – one residency and clinical trained. As it is,

930

pharmacists will do a lot of dispensing and formulary 'maintenance'. The team thinks this is

931

not optimal. Bar coding, which would help, will not be up and running. The Director of

932

Pharmacy will do a lot of dispensing and formulary compliance– again the team thinks this

933 is not optimal. Shift pharmacist time to new prescriptions and less on refills. Delivery will  
934 be by local courier. Team recommends that the technicians do the order entry and not the  
935 pharmacists. Focus on keeping the pharmacy director doing administrative and clinical  
936 stuff, not general packaging or dispensing.

937 **Purchasing:** The team needs to see the actual AmerisourceBergen contract (we have the  
938 generic info). Ken Paulsen can get? Also suggest a teleconference with GPO (Paul A) to  
939 discuss total drug spending and a market basket analysis.

940

941 **Visits:** Tom will think it over and get a plan for visits to other facilities.

942

943 **Clinical Services:** A clinical pharmacist could work on formulary, protocols, etc. similar to  
944 Long Term Care Systems. Use of integrated model can create exciting clinical job  
945 descriptions.

946 **End of meeting.**

947 **Addendum – Discussion between Sorofman, Shields and Temple prior to meeting:**

- 948 • Diamond contract extended to 1 April 2010.
- 949 • Equipment ordered.
- 950 • 2 pharmacists and 3 technicians positions posted with 60 day listing.
- 951 • Proposed transfer of pharmacy assistant from Newton to central.
- 952 • Total central staffing by 1 Feb will be 2 new pharmacists; 3 certified technicians; 1  
953 assistant.
- 954 • Hours 6-6 M-F; 8-12 Sat.
- 955 • Ordered MTS 500 packaging machine and smaller manual packager.
- 956 • Plan for Central will be to get 4 Diamond facilities on board. FDCF and NCCF will be  
957 5<sup>th</sup> and 6<sup>th</sup> institutions. To do this must get another pharmacist.
- 958 • Sees clinical pharmacy in FDCF with NCCF and then ICIW with NCF. Goal would be  
959 1 clinical pharmacist each side of the state with an idea of 4 total.
- 960 • All acute care and intake will occur at Oakdale.

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Iowa Department of Corrections  
Pharmacy Evaluation Project  
Meeting #5 - December 17, 2009  
Des Moines, Iowa  
10am to 1pm

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968 **Attendees:** Gainer, Kate; Miller, James; Shields, Susan; Sorofman, Bernard; Temple,  
969 Thomas R.; Trewet, CoraLynn; Wegmann, Brian

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**Guests:** Jeanie Brown, Health Enterprises; Matt Eide, Eide and Heisinger; Dennis White,  
Servishare; Julie Prokop, Health Enterprises; Rick Knudson, Premier; Patrick Bell, Premier.

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**DOC Update:** Central pharmacy took possession of their space on December 15, ordered  
equipment, set packaging bid, began refurbishing space, ordered office materials, and set  
plan for security. Staffing will be reduced to 1 technician and two pharmacists plus the  
Director and one pharmacy assistant (from Newton). FDCF and NCCF will be absorbed into  
Central. Medical assistant will change title at FDCF and be managed by the Nursing  
Supervisor. There is a plan to have help from Drake students. Operations are still planned  
to be 6 to 6 M-F and 8 to 12 Sat. Expectation is that there will be 15k prescriptions per  
month when including FDCF and NCCF.

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**Staffing:** Pharmacist to technician ratios should be considered. Shift basic dispensing  
preparation to technicians. Right now operations looks like pharmacists are going to do  
technician work. 3 technicians would be OK with 4 optimal. 1.5 to 2 pharmacists plus the  
director would be OK and probably could cover 6 institutions. Oakdale staffing will be 2  
pharmacists full time, 1 pharmacist part time (currently 1 pharmacist full time, 2 temporary  
pharmacists), 3 technicians and 1 clerk.

986

987

988

**Clinical Services:** Treat the program like a Long Term Care system. Visit each institution  
one time a month except Oakdale. Clinical pharmacist would do population reviews, DUR,  
Educational programs to prescribers and staff.

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992

**Discussion with Premier:** Brochure and data provided. Extensive Discussion. Notable –  
auto substitution program with 10% reduction in price; service fees recuperation (1-3%)  
shared to some extent; rebates can return; fees from --\$3.34 to --\$2.68 in a cost minus  
system.; can establish review cycle. Likely tier is “non-acute, non retail”.

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995

**Recycled Medications:** Iowa Prescription Drug Corp is recycling medications. Drugs to  
DOC for resident offender is not likely, drugs for discharge may work and/or drugs post  
release is a possibility. Need to explore more.

996

End of meeting.

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**Iowa Department of Corrections  
Pharmacy Evaluation Project  
Meeting #6 - January 28, 2010  
Iowa City, Iowa  
11am to 2pm**

1004 **Attendees:** Abramowitz, Paul; Gainer, Kate; Miller, James; Nelson, Steve; Sorofman,  
1005 Bernard; Temple, Thomas R.; Trewet, CoraLynn; Wegmann, Brian

1006 **Guests:** Laura Elliot, UIHC Pharmacy Resident; Megan Duffy, UIHC trainee.

1007 **DHS:** The meeting started slightly early with a discussion of the Iowa Department of  
1008 Corrections working relationship with the Department of Human Services (DHS) at two  
1009 IDOC sites. We reviewed previous discussions. The two sites where DHS runs pharmacy for  
1010 IDOC have a much larger population of IDOC offenders than DHS clients.

1011 Recommendation: Due to the large proportion of IDOC over DHS residents at the MTPF  
1012 and CCF, it would be more efficient to have these operations run by IDOC.

1013 **One State Central Pharmacy:** The team had a discussion on the efficiencies and  
1014 improvement in quality that could come with one state central pharmacy.

1015 Recommendation: Consider bringing DHS state pharmacy programs together with IDOC  
1016 and make it one Central distribution and one centrally managed pharmacy operation.

1017 **DAS:** The team reviewed the discussion we had previously with the Department of  
1018 Administrative Services. In general, the discussion was about the level of expertise needed  
1019 to be able to create and monitor bids for the purchase of pharmacy goods and services.  
1020 One thought was that the DAS needs to have an advisory group for the specialized  
1021 purchasing of pharmaceutical goods and services

1022 **Organization of new Pharmacy:** The team discussed the IDOC plan to have two central  
1023 pharmacies, one in Des Moines and a second one at IMCC. The decision was to recommend  
1024 that there only be one central pharmacy serving 8 IDOC facilities and supporting IMCC.  
1025 IMCC would be a standalone pharmacy due to its uniqueness.

1026 **Advisory group:** The team recognizes that there are many elements of pharmacy for which  
1027 IDOC (and DHS and DAS) does not have experience. We will work on a potential  
1028 recommendation of an advisory group for IDOC.

1029 **Clinical Pharmacy Services:** The report must define what clinical pharmacy services are  
1030 and what they can do to improve offender outcomes and reduce program costs. The team  
1031 discussed a centralized clinical pharmacy service where a clinical pharmacist would review

1032 records and make recommendations related to clinical outcomes from a population /  
1033 medication use evaluation perspective. The Clinical Pharmacist would also do local reviews  
1034 of charts and if needed meet with clinicians and offenders to optimize services. One quick  
1035 thought was to have two clinical pharmacists – one centrally and one at IMCC. Discuss in  
1036 the report how clinical pharmacy will reduce margins and save money for IDOC. Another  
1037 thought, because the practice of clinical pharmacist services was new, to have IDOC  
1038 contract clinical services to an expert group who knows how to manage these services. At  
1039 this time there are a large number of options for clinical pharmacist expertise –  
1040 psychopharmacology, diabetes and other major chronic diseases.

1041 **IDOC Pharmacy Finances:** The more the team discusses the financial aspects of the IDOC  
1042 pharmacy program the more they realize that there are many data elements missing to  
1043 make quality decisions. It is recommended that the IDOC do an in-depth financial analysis of  
1044 the pharmacy program at IDOC.

1045 **Staffing:** The pharmacist to technician ratio planned for the central pharmacy is out of  
1046 balance. The team discussed options and decided to just provide their best guess  
1047 recommendations to the IDOC on staffing the Central Pharmacy and IMCC. These may or  
1048 may not coincide with current plans. Pharmacist hiring and employment should include  
1049 pharmacists with knowledge of best clinical practices. The staffing of 1.5 FTE for both a  
1050 pharmacist and certified technician seemed adequate for IMCC. We need to think this out  
1051 more. Also, the employment of pharmacy assistants should be shifted to employing  
1052 certified technicians.

1053 **IDOC Pharmacy Data:** The data we have on prescription purchase and usage is incomplete  
1054 and at times seems to not fit general expectations of the team. For example, the  
1055 information we have triangulates in on the plan to have 15,000 prescriptions per month  
1056 dispensed from the central pharmacy after taking on 6 sites, but the numbers do not 'feel'  
1057 right to those with experience in this area. One recommendation we can make is that the  
1058 IDOC pharmacy program begin to collect on a regular usage and cost data. We may be able  
1059 to provide some direction on that.

1060 **Report introduction:** We must state that our report is based on the following assumptions  
1061 --- and then list them. Topics such as total expenses of \$10m, number of prescription per  
1062 offender of 1.5, proportion of offenders with prescription 2/3, etc. should be mentioned.  
1063 We also should note that our recommendations are to optimize care and reduce costs.

1064 **Formulary:** Brief discussion of the formulary indicated team agreement that the formulary  
1065 is pretty good but not well followed. This appears to be a deficiency.

1066 **Purchasing:** While discussing formulary the team indicated it wanted to state that the  
1067 system to evaluate purchasing was a deficiency and a system should be set up.

1068 **Site Visits:** The team discussed site visits. We decided that we would start with phone calls  
1069 to Arthur Nelson at Texas Tech (Sorofman) to determine who in Texas we can talk to about  
1070 their pharmacy program. Contacts will be sought for Wisconsin (Temple will get a contact)  
1071 and Pennsylvania and any suggested corrections systems they recommend. Sorofman will  
1072 work with Temple on the calls. Questions should center on staffing, clinical services, MUE  
1073 services and data collection. Also we discussed visiting CCF or MTCF to see how the  
1074 DHS/IDOC relationship works.

1075 **IPDC:** Iowa Prescription Drug Corp was again discussed. We are going to recommend that  
1076 IDOC try to work with the drug redistribution system of IPDC that is supported by the State  
1077 to get reduced cost, quality drugs to offenders.

1078 **Purchasing:** We will develop a recommendation that the DAS put out an RFP for a  
1079 Pharmaceuticals Group Purchasing Organization bid to provide pharmaceuticals. The bid  
1080 should require that the GPO have a local wholesaler partner.

1081 **Report writing:** The group feels that they will have their final report by the end of March.

1082 Our next meeting will be March 2, 2010 from 10 to 2 in Iowa City.

1083 End of meeting at approximately 1:45pm.

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**Iowa Department of Corrections  
Pharmacy Evaluation Project**

1086

**Meeting #7**

1087

**April 9, 2010**

1088

**Iowa City, Iowa**

1089

**10am to 200pm**

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1091

1092 **Attendees:** Abramowitz, Paul; Miller, James; Nelson, Steve; Sorofman, Bernard; Temple,  
1093 Thomas R.; Trewet, CoraLynn; Wegmann, Brian

1094 The entire meeting consisted of discussing a near final draft of the evaluation team report.

1095 All comments were directed at the document.

1096