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“Evaluation of the Fast Prior Authorization Technology Highway”

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Title page APhA Submission

Title “Evaluation of the Fast Prior Authorization Technology Highway”

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Conflict of disclosure:

Dr. Clayton and Ms. Bravo-Taylor were employees of RTI and Dr. Smith and Dr. Pasko were employees of Surescripts at the time the study was conducted

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2 Tables

3 Figures

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22 measures for PAs both before and after provider implementation
23 of electronic PA.

24 Results: Providers used these tools for roughly 62% of PAs in
25 the 6 months after implementation. The median time from PA
26 request to decision fell from 18.7 hours to 5.7 hours. Providers
27 using ePA reported observing some benefits relative to the
28 number of phone calls and faxes required after ePA
29 implementation.

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34 **Background**

35 Prior authorization (PA) is a utilization management tool
36 employed by health plans and pharmacy benefit managers (PBMs)
37 where the payer requires additional documentation from health
38 care providers prior to authorization of payment for a
39 medication or procedure. The intent of PA is to support safe,
40 appropriate, and cost-effective care. PA is designed to direct
41 medication and procedure use so that patients who meet a pre-
42 specified criteria for appropriateness and safety will receive a
43 particular treatment while patients who do not meet criteria
44 will be directed to an alternative medication, procedures, or
45 treatment plans.¹

46 PA programs may create burdens for health care providers,
47 pharmacies, and patients. Data suggests that approximately
48 \$80,000 per physician per year is spent interacting with health
49 plans with a majority of that time spent on PAs.² According to a
50 recent American Medical Association survey, 40% of physicians
51 have staff who work exclusively on PAs to complete approximately
52 41 PAs per physician per week.³ Administrative burden may lead to
53 a delay in filling a prescription or denial of a potentially
54 beneficial medication for a patient despite meeting criteria,
55 and PAs do not consistently reduce health care costs.⁴⁻⁶

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56 Electronic prior authorization (ePA) was introduced to improve
57 efficiency by enabling PAs to be completed electronically with
58 either online portals or technology integrated in an electronic
59 health record (EHR).⁷ ePA leverages national standards for two-
60 electronic information exchange to facilitate several aspects of
61 the PA process, including enabling providers to access
62 information from health plans or PBMs on whether a PA is
63 required, submit PA requests and supporting documentation, and
64 receive determinations. ePA is designed to reduce the volume of
65 phone calls and faxes sent among prescribers, payers, and
66 pharmacies to decrease the time between a PA is first submitted
67 and when a health plan or PBM makes a decision.⁸ Decreasing the
68 time it takes for a coverage decision to be made may allow
69 patients to access medications more quickly. Prescribers have
70 demonstrated willingness to adopt ePA but have cited a lack of
71 vendor and payer support as barriers to implementation. For
72 example, some payers will require documentation submitted via
73 fax despite ePA being available, and some prescribers may choose
74 telephone or fax if ePA technology is malfunctioning. Only 12%
75 of PAs are completed electronically from start to finish.^{9,10}

76 In 2020, America's Health Insurance Plans (AHIP), a national
77 association whose members provide health care coverage and
78 services, launched the Fast Prior Authorization Technology
79 Highway (Fast PATH) initiative with the goal of improving the PA

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80 process for medications and medical and surgical procedures by
81 employing ePA.¹¹ AHIP selected two technology companies, Availity
82 and Surescripts, because they met criteria of having ePA
83 capabilities offering standards-based, scalable technologies
84 integrated into the provider workflow and are classified as
85 neutral gateways or intermediaries that connect health plans and
86 providers to enable two-way electronic communications. Availity
87 offers a web-based portal for procedure PAs that can be used to
88 access to payer-specific guidelines. The portal guides users
89 through the process of submitting a PA and supporting
90 documentation, monitoring its status, and receiving
91 determination from the payer.¹² Surescripts Real-time
92 Prescription Benefit and Electronic Prior Authorization
93 solutions are embedded in the provider's EHR. Users can access
94 patient-specific benefit information at the point of
95 prescribing, including PA required notifications and clinically
96 relevant alternatives that do not require a PA. If a medication
97 that requires a PA is ordered, the PA can be completed in the e-
98 prescribing workflow.¹³

99 The ability of ePA to impact administrative burden, including
100 the time between when a PA is submitted to when a coverage
101 decision is made, has not been rigorously evaluated. Current
102 studies are limited to evaluations of individual health
103 systems^{8,14} or have focused on adherence as an outcome.¹⁵

104 Similarly, studies examining the provider perspective of PA have
105 included a small volume of practices or geographical areas^{7,16,17}
106 or were conducted prior to broader adoption of ePA.¹⁸

107 **Objective**

108 The objective of this study was to evaluate the impact of the
109 FAST Path Initiative on approval rate and time to decision,
110 defined as the time from which the PA was submitted to the
111 health plan or PBM to the time when the provider received the
112 final decision. Time to decision has been used as an outcome in
113 other studies.^{8, 16} Secondly, health care provider perception
114 of using ePA was also assessed.

115 **Methods**

116 RTI International, an independent non-profit research institute,
117 collected data directly from participating health plans and
118 providers.

119 PA Transactions

120 Six participating health plans with national coverage provided
121 RTI with data on both manual and electronic PAs before and after
122 implementation of one of the ePA solutions. To ensure the
123 analysis presented a complete view of PA transactions before and
124 after implementation of an electronic prior authorization
125 solution, RTI included only providers with 6 months of data

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126 before and after implementation of ePA. To ensure the data
127 reflected changes in prior authorization patterns for providers
128 who are ongoing, regular users of the tool, the analytic data
129 set only included National Provider Identifiers (NPIs) that had
130 at least three ePAs: one to establish the ePA implementation
131 date, one in months 2 through 5 after implementation, and one in
132 month 6 or later after implementation. Decision time and
133 approval rate was calculated for PA submitted before and after
134 ePA implementation.

135 Survey methodology

136 RTI used an email survey campaign to contact providers who
137 provide care to members of participating health plans and who
138 are current users of the vendors' electronic prior authorization
139 solutions. The respondents were not necessarily the same
140 providers included in the prior authorization transaction data
141 analysis, but they had implemented electronic prior
142 authorization recently and were willing to share their
143 experience via the RTI-administered survey. RTI surveyed
144 approximately 300 providers that were identified by the health
145 plans as either early adopters or current users of ePA about
146 their user experience, provider burden, (5 questions) and impact
147 on patient care (3 questions) between the manual and electronic
148 processes.

149 The survey sample of providers was a convenience sample using
150 all available provider contact information from participating
151 health plans (pharmacists were not included). There were several
152 limitations to the survey. Because no provider characteristic
153 data were available, we do not know how survey respondents
154 compare to non-respondents. Invitations were initially sent in
155 September 2020 with two follow-up reminders over the following
156 four weeks. In some cases, we received contact information for
157 an office manager or other point of contact who was not the
158 intended survey target. For these individuals, we invited the
159 email recipient to send the survey to the relevant clinical
160 staff. Because of this dissemination approach, we do not know
161 how many people were ultimately invited to take the survey and
162 thus do not know the response rate.

163

164 **Results**

165 After implementing NPI criteria, 41,712 transactions from six
166 months before and after implementation of ePA were analyzed.

167 Time to Decision

168 Prior to ePA implementation, the median time to decision was
169 18.73 hours (IQR 44.37) compared to 5.71 hours (IQR 26.65) after
170 implementation. Prior to ePA implementation, 84% of PAs required

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171 over two hours to be decided, including 24% that required more
172 than 48 hours. After ePA implementation, 33% of ePAs were
173 decided within two hours, and only 15% required more than 48
174 hours (Figure 1).

175 Approval Rates

176 The approval rate of PAs was largely unchanged after
177 implementation of Fast PATH ePA solutions. Prior to
178 implementation, 59.9% of PAs were fully approved; after
179 implementation, 60.3% of PAs were fully approved. In the post
180 period, the approval rate for manual PAs was similar to that of
181 ePAs (60.8% and 60.0%, respectively). In the six months after
182 implementation of Fast PATH ePA solutions, 62% of all PAs were
183 submitted electronically.

184 Provider Perception of ePA

185 RTI received responses to at least one survey question from 309
186 survey respondents. Seventy-four percent of respondents who
187 provided information about their role in practice were
188 clinicians (providers or nurses). Of respondents who answered
189 the question about frequency of electronic prior authorization
190 use, 31% used the solution for most patients at their practice.
191 Among all users, 22.8% reported that it was easier to understand PA
192 information after implementation of the electronic solution, and 34.4%
193 reported that it was easier to understand whether a PA was required.

194 Approximately one-quarter of respondents reported that a decision
195 about the PA was easier to view after ePA implementation.
196 Implementation of an ePA solution had some impact on work burden
197 as 25.4% of respondents reported fewer phone calls since ePA
198 implementation, and 28.5% reported fewer faxes. ePA may have
199 improve patient access to medications with 30.1% of respondents
200 reporting patient's speed to fill being faster since ePA
201 implementation (Table 1). Having access to cost information
202 through ePA tools impacted behavior as 51.9% of respondents
203 reported changing prescriptions to a lower cost alternative when
204 presented with options (Table 2).

205

206 **Discussion/Conclusion**

207 In this evaluation of the FAST Path Initiative, time to decision
208 was improved after ePA technology was implemented. Median time
209 to decision was improved by approximately 13 hours, decreasing
210 from 18.7 hours to 5.7 hours. In the 6-month period post-
211 implementation, one-third of all prior authorizations were
212 decided within 2 hours of submission. The magnitude of this
213 improvement is large relative to both the pre-period data, where
214 only 17% of prior authorizations were decided within 2 hours,
215 and large relative to results from the 2019 American Medical
216 Association survey²⁰ which reported that 5% of prior

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217 authorizations were decided in under 1 hour and 11% were decided
218 within "a few hours." The approval rate was largely unchanged
219 after ePA solutions were implemented. This finding suggests that
220 although ePA processes may lead to faster times to decision, the
221 decisions did not change because the rules pertaining to PA are
222 the same for manual and electronic authorizations.

223 When new electronic processes are implemented, utilization and
224 retention rates are often a concern during the post-
225 implementation period. In the six months after ePA
226 implementation, approximately 62% of PAs were submitted
227 electronically which demonstrates opportunity for better
228 engagement in the electronic process. One of the barriers to ePA
229 implementation is that health care providers report having to
230 use manual interventions, such as phone calls and faxes, to
231 facilitate PA approval even when ePA technology is
232 available.^{9,14,15} The requirement of these manual interventions may
233 explain why only 62% of PAs were submitted electronically after
234 ePA technology was implemented.

235 Given the positive findings from this study, there may be
236 additional benefits of ePA by increasing provider adoption.
237 providers could decrease their administrative burden and
238 streamline prescription processes for patients, potentially
239 allowing for quicker time to therapy. To increase provider

240 adoption, it may be necessary for electronic health record and
241 health information technology vendors to further innovate and
242 find better solutions of integrated workflows for the providers.
243 Providers would then benefit from training and how to utilize
244 the technology for optimal benefit for themselves, the health
245 plans, and patients.

246 Another option to drive adoption is to increase the proportion
247 of patients for whom ePA is available by increasing
248 participation among health plans and PBMs in ePA solutions. If
249 adoption among both providers and payers could be addressed, the
250 median time to decision and overall provider burden for PA could
251 be further reduced.

252 There are several study limitations. The quality of the PA's
253 final decision was not assessed for clinical appropriateness or
254 cost impact. Although PA criteria are typically based on
255 evidence-based clinical guidelines,¹⁹ relevant patient-specific
256 characteristics should be considered in treatment plans. It is
257 possible that patients in this study received treatment that may
258 have been clinically inappropriate or had a negative impact on
259 cost. The study used a before and after design without a control
260 group, which may lead to inappropriately attributing observed
261 changes to the intervention. In this study, changes in PA
262 transactions measures may be inappropriately attributed to the

263 implementation of ePA. A before and after design without
264 controls was chosen because comparable controls could not be
265 practically identified within the participating health plans.
266 Lastly, results are not analyzed separately for drugs and
267 procedures or stratified according to a provider's level of
268 experience submitting PAs.

269 Despite decreasing time to decision, the implementation of ePA
270 technology solutions faced challenges relative to provider
271 engagement. Future studies may investigate how ePA technology
272 and workflows might lead to broader adoption and a more positive
273 perception of benefit.

274

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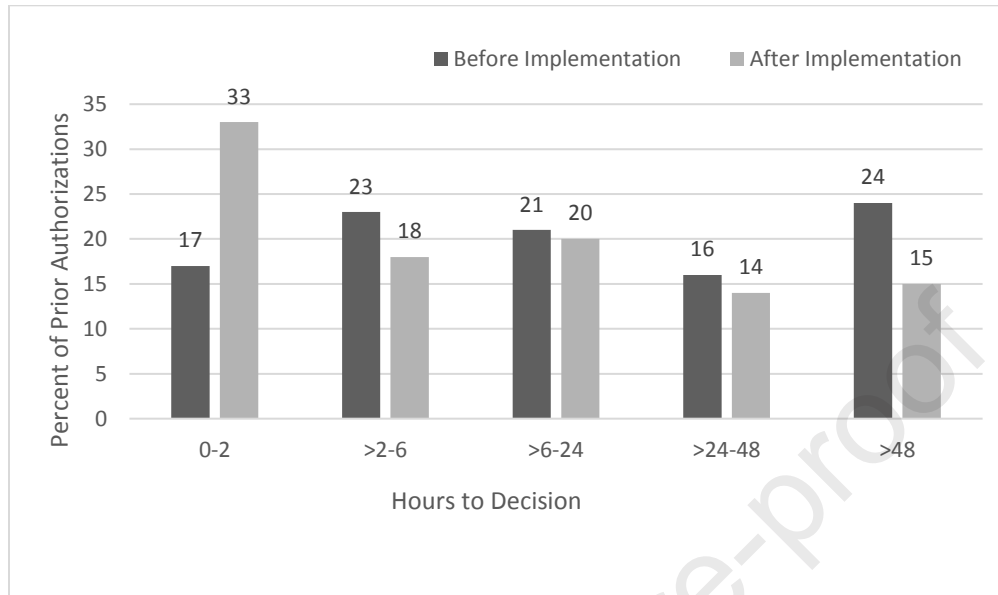
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Figure 1. Time to Decision of Prior Authorizations Before and After Implementation of Fast PATH Electronic Prior Authorization Solutions



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Table 1. Electronic Prior Authorization Survey Responses

	Fewer than before I had a prior authorization solution in my EHR/EMR n(%)	Same as before n(%)	More than before having prior authorization in my EHR/EMR n(%)	Don't know n(%)
The number of prior authorization-related phone calls I handle today is (n=201)	51 (25.4)	98 (48.8)	18 (9.0)	34 (16.9)
The number of prior authorization-related faxes I handle today is (n=200)	57 (28.5)	95 (47.5)	14 (7.0)	34 (17.0)
The time I spend on prior authorization-related phone calls today is (n=200)	66 (33.0)	83 (41.5)	17 (8.5)	34 (17.0)
The time I spend on prior authorization-related faxes today is (n=198)	63 (31.8)	87 (43.9)	13 (6.6)	35 (17.7)
	Easier to understand than before having prior authorization in my EHR/EMR n(%)	Same as before n(%)	More difficult to understand than before having prior authorization in my EHR/EMR n(%)	Don't know n(%)
The information I can get about whether a prior authorization is required is (n=221)	76 (34.4)	73 (33.0)	17 (7.7)	55 (24.9)
The prior authorization requirements are (n=219)	50 (22.8)	89 (40.6)	24 (11.0)	56 (25.6)
	More easily because I have a solution in my EHR/EMR n(%)	Same as before n(%)	With more difficulty than before having a solution in my EHR/EMR n(%)	Don't know n(%)
I am able to view a decision about my prior authorization (n=219)	57 (26.0)	85 (38.8)	22 (10.0)	55 (25.1)
	Faster as compared to before I had a prior authorization solution in my EHR/EMR n(%)	Same as before n(%)	Slower than before having prior authorization in my EHR/EMR n(%)	Don't know n(%)
My patient's speed to fill is (n=196)	59 (30.1)	76 (38.8)	8 (4.1)	53 (27.0)

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	3 or fewer (less than one/week) n(%)	4-10 (about two/week)	11 or more (about 3 or more/week)	Don't know
The number of prior authorizations I initiated in a month is (n=189)	36 (19.1)	61 (32.3)	63 (33.3)	29 (15.3)

EHR=electronic health record

EMR=electronic medical record

Table 2. Electronic Prior Authorization Medication Cost-related Survey Responses

	Always or often n(%)	Sometimes n(%)	Rarely n(%)	Never n(%)	Don't know n(%)
In the past week, how often did you view the price or benefit information when prescribing a medication? (n=282)	27 (9.6)	66 (23.4)	34 (12.1)	138 (48.9)	17 (6.0)
In the past week, how often did you communicate to your patient information on prescription costs using information from the ePA tool? (n=125)	19 (15.2)	55 (44.0)	34 (27.2)	16 (12.8)	1 (0.8)
In the past week, how often did you change to a lower cost alternative when viewing pricing information in the ePA tool? (n=127)	14 (11.0)	52 (40.9)	35 (27.6)	23 (18.1)	3 (2.4)

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