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# Online Provider Directory Review Report

## 1.0 Executive Summary

The Centers for Medicare & Medicaid Services (CMS) completed its second round of Medicare Advantage (MA) online provider directory reviews between September 2016 and August 2017. The review examined the accuracy of 108 providers and their listed locations selected from the online directories of 64 Medicare Advantage Organizations (MAOs), approximately one-third of MAOs, for a total of 6,841 providers reviewed at 14,869 locations. The review found that 52.20% of the provider directory locations listed had at least one inaccuracy. Types of inaccuracies included:

- The provider was not at the location listed,
- The phone number was incorrect, or
- The provider was not accepting new patients when the directory indicated they were.

CMS calculated the percent of locations with inaccuracies for each MAO directory, which ranged from 11.20% to 97.82%. The average MAO inaccuracy rate by location was 48.39%.<sup>1</sup> The majority of the MAOs (37 out of 64) had between 30% and 60% inaccurate locations. Because MAO members rely on provider directories to locate an in-network provider, these inaccuracies could pose a significant access-to-care barrier. Inaccuracies with the highest likelihood of preventing access to care were found in 45.64% of all locations. In response to these findings, CMS issued appropriate compliance actions to drive industry improvement in the accuracy of provider directories for MA beneficiaries.

## 2.0 Background and Methods

Provider directories are an important tool MA enrollees use to select and contact their physicians and other contracted providers who deliver medical care. Beneficiaries and their caregivers rely on provider directories to make informed decisions regarding their health care choices. Inaccurate provider directories can create a barrier to care and raise questions regarding the adequacy and validity of the MAO's network as a whole.

CMS became concerned about provider directories following a beneficiary complaint. Based on the complaint, a sample review of an MAO directory indicated that there may be significant issues with accuracy. Soon after CMS began this process, a study examining MA provider directories was published in *JAMA Dermatology* (October 2014). The study found that, among

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<sup>1</sup>This is the average inaccuracy rate by location across all 64 MAOs. This differs from the overall inaccuracy rate of 52.20% because some MAOs had multiple locations listed for individual providers, resulting in many more locations for these MAOs.

4,754 total dermatologists listed in the largest MA plans in 12 metropolitan areas in the United States, 45.5% represented duplicates in the same plan directory. Among the remaining unique listings, only 48.9% of dermatologists were reachable, accepted the listed plan, and offered an appointment for a fictitious patient.<sup>2</sup> In response to concerns over these findings, CMS conducted a follow-up review of the provider directories for those organizations named in the *JAMA Dermatology* article. The CMS review focused on primary care providers (PCPs), and while the results were slightly more favorable, they echoed many of the same issues identified in the *JAMA Dermatology* article.

To address issues with online provider directories, CMS strengthened existing sub-regulatory guidance and communicated concerns about and expectations for provider directories via a Health Plan Management System (HPMS) memo, as well as in the Contract Year (CY) 2016 and CY 2017 Call Letters. As a part of the message conveyed in the 2016 Call Letter, CMS announced it would verify the accuracy of online provider directories for plans offered by MAOs (also referred to as “Parent Organizations” or “POs”).

Beginning in February 2016, CMS undertook a study that examined the accuracy of the information in MAOs’ online directories over the course of three years, or review rounds. CMS is reviewing approximately one-third of MAOs each year. The goal is to gain a better understanding of provider directory accuracy, identify best practices, and, through appropriate compliance actions, drive industry improvement in providing more accurate provider directories. Due to minor updates to the review methodology, the data from the first and second review rounds are not directly comparable.

During the first review round, conducted between February and August 2016, CMS reviewed 54 MAOs, for a total of 5,832 providers at 11,646 locations. CMS found that 45.1% of provider directory locations listed in these online directories were inaccurate. The percent of inaccurate locations for individual MAO directories’ ranged from 1.77% to 86.53%, with an average inaccuracy rate by location of 41.37% across all 54 MAOs. The majority of the MAOs (37 out of 54) had between 30% and 60% inaccurate locations.

Between September 2016 and August 2017, CMS completed the second review round, reviewing one Medicare Advantage Prescription Drug (MA-PD) plan from each of the 64 MAOs for a total of 6,841 providers at 14,869 locations. CMS reviewed 108 providers for each MAO,<sup>3</sup> selected from four of the most commonly used provider types – Cardiologist, Oncologist, Ophthalmologist, and Primary Care Physicians (PCPs) (See Table 1).

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<sup>2</sup>Resneck JS, Quiggle A, Liu M, Brewster DW. The Accuracy of Dermatology Network Physician Directories. Posted by Medicare Advantage Health Plans in an Era of Narrow Networks. *JAMA Dermatology*. 2014; 150(12):1290-1297. doi:10.1001/jamadermatol.2014.3902

<sup>3</sup> Two MAOs had fewer than 108 eligible providers. One MAO had 39 PCPs, 10 cardiologists, 17 ophthalmologists, and 10 oncologists, for a total of 76 providers. The second MAO had 52 PCPs, 10 cardiologists, 3 ophthalmologists and 4 oncologists, for a total of 69 providers. All eligible providers were reviewed for these MAOs.

**Table 1: Provider Types and Locations Reviewed During Round 2**

Provider Type	Providers Reviewed	Locations Reviewed
Cardiology	1,687	4,496
Oncology	1,636	3,200
Ophthalmology	1,683	3,971
PCP	1,835	3,202
<b>Total</b>	<b>6,841</b>	<b>14,869</b>

Note: This report is accompanied by a spreadsheet that provides a detailed look at the review results, both at the individual MAO level as well as the aggregate level. To facilitate the ease of use and understanding of the spreadsheet’s content, the first tab contains sample data with a key explaining the various fields. The second tab contains the results for all MAOs. The third tab presents the aggregated second round data, and the fourth tab presents the overall compliance score as well as the compliance action taken.

*Survey process:* Reviewers in the study placed calls to provider’s office(s), verifying the accuracy of the information for each location listed in the provider directory. During the calls, reviewers asked the following questions to determine directory accuracy:

- Does the provider see patients at this location?
- Does the provider accept the MA-PD plan at this location?
- Does the provider accept (or not accept) new patients who have this MA-PD plan? *(The provider directory is considered accurate if it correctly indicates if the provider is or is not accepting new patients)*
- Is the provider a (PCP, cardiologist, oncologist, or ophthalmologist)?
- Is the address correct?
- Is the telephone number correct? *(Usually confirmed by dialing the phone number)*
- Is the provider’s name correct?
- Is the practice name correct?

Additional details on the study design and methods are in Appendix 1.

*Deficiency scoring methodology:* CMS designed a scoring methodology to: (1) differentiate between the severity of final deficiencies; and (2) control for MAOs that had a greater number of locations listed for individual providers, which would increase their likelihood of having a greater number of final deficiencies. This allows for a consistent comparison between MAOs with varying numbers of provider locations and does not penalize MAOs that list many provider locations. To assess the severity of the inaccuracies, CMS assigned each type of final deficiency a weight between 0 and 3 points (Table 2). Deficiencies where the provider should not have been listed at the location, or with an incorrect phone number, or where the provider was found to not be accepting new patients when the directory stated they were accepting new patients were assigned the highest weight (3). In contrast, an incorrectly spelled name was assigned the lowest weight (0) because it was not perceived to be a barrier to accessing care.

CMS then assigned a deficiency score to each location with at least one final deficiency. A location with multiple deficiencies was assigned a score that equaled the weight of the most significant final deficiency. For example, a provider location listing that stated they are not accepting new patients when they are (weight of 1), an incorrect address (weight of 2), and an incorrect phone number (weight of 3) received a score of 3.

**Table 2: Deficiency Types and Weight**

Final Deficiency	Deficiency Weight
Provider should not be listed at any of the directory-indicated locations	3
Provider should not be listed in the directory at this location	3
Provider should not be listed in the directory as treating patients for this specialty	3
Phone number needs to be updated	3
Provider is NOT accepting new patients	3
Address needs to be updated	2
Address (suite number) needs to be updated	1
Provider IS accepting new patients	1
Specialty needs to be updated	1
Provider name needs to be updated	0

After assigning a score to each of the MAO’s deficient location(s), CMS summed the deficiency scores. CMS then determined the maximum possible score for each MAO by taking the number of MAO locations reviewed and multiplying it by three, the maximum score for a single location. To control for the fact that the number of locations reviewed for each MAO varied considerably, the sum of the MAO’s location deficiency score was divided by the MAO’s maximum possible score. This number became the final weighted deficiency score for each MAO.

Table 3 provides three examples of how CMS calculated the scoring for each MAO. MAO A had 154 provider locations reviewed with 33 having an associated deficiency. The total number of deficiency scores for MAO A was 88 out of a maximum possible 462 deficiency score for a final score of 19.1%. Similar findings were found for MAO B that had about 15% more provider locations than MAO A, but had a similar final deficiency score (20.7%). In contrast, MAO C had a much higher final deficiency score (43.9%), with about half of its locations found to have a deficiency (213 of 419 locations).

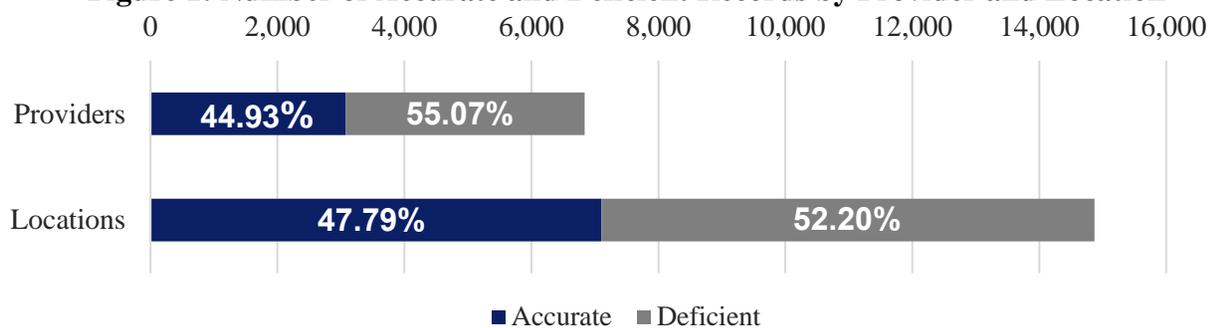
**Table 3: Examples of Final Deficiency Scoring**

MAO	Provider Locations Reviewed	Deficient Locations	Sum of Location Deficiency Scores	Maximum Possible Deficiency Score (3 x Locations Reviewed)	Weighted Final Deficiency Score (Sum of Location Deficiency Scores / Maximum Possible Score)
“A”	154	33	88	462	19.1%
“B”	177	43	110	531	20.7%
“C”	419	213	552	1,257	43.9%

### 3.0 Findings

Overall, of the 6,841 providers in the review, 55.07% (3,767) of providers had at least one deficiency. Of the 14,869 locations reviewed, 55.20% (7,762) of the locations had at least one deficiency.

**Figure 1: Number of Accurate and Deficient Records by Provider and Location**



Of the 14,869 locations reviewed, providers should not have been listed at 33.15% (4,929) of the locations (3,346 + 1,582 + 1, as shown in Table 4) either because the provider did not work at the location or because the provider did not accept the plan at the location. In 1,582 of these instances, the provider should not have been listed at any of the locations in the directory. There were 1,543 phone numbers that were wrong or disconnected and 507 incorrect addresses. Finally, there were 342 instances in which the provider was found not to be accepting new patients, although the directory indicated that the provider was accepting new patients. Table 4 provides a breakdown of deficiencies identified by CMS during the review process.

Combining the three deficiencies which carried the heaviest weight of “3” results in a total of 6,814 deficiencies (out of a total of 8,152 total deficiencies). The 6,814 deficiencies were found in 6,786 locations (as some locations had multiple deficiencies). When viewing the results as a percentage of the total for all locations reviewed, these deficiencies, which are those that present the highest likelihood of representing a barrier to care, were found in 45.83% of all locations.

**Table 4: Deficiency Types by Occurrence**

<b>Deficiency Type</b>	<b>Number of Deficiencies Identified</b>	<b>Percentage Of Total Deficiencies (<i>Number of Deficiencies Identified Divided by the Total of 5,352 Deficiencies Found</i>)</b>
Provider should not be listed in the directory at this location	3,346	41.05%
Provider should not be listed at any of the directory-indicated locations	1,582	19.41%
Provider should not be listed in the directory as treating patients for this specialty	1	0.01%
Phone number needs to be updated	1,543	18.93%
Address needs to be updated	507	6.22%
Provider is NOT accepting new patients	342	4.20%
Address (suite number) needs to be updated	351	4.31%
Provide IS accepting new patients	389	4.77%
Provider name needs to be updated	18	0.22%
Specialty needs to be updated	73	0.90%
<b>Total</b>	<b>8,152</b>	<b>100%</b>

Note: Some locations had more than one deficiency; therefore, the total number of deficiencies is greater than total number of locations with deficiencies.

## 4.0 Implications

The second review round identified significant errors within online provider directories. At a minimum, many of the findings suggest the discrepancies will increase the member’s frustration with the MAO. Frequent inaccuracies may also prevent sufficient access to care. Because MAO members rely on provider directories to locate in-network providers, accurate information is critical. Directories that include locations where a provider does not practice or state that providers are accepting new patients when they are not call into question the adequacy and validity of the MAO’s network as a whole. These inaccuracies can create barriers for members to receive services critical for their health and well-being.

CMS found that providers were not located at about 33%, of the reviewed locations listed in the provider directories. This finding means that if a member were to look up a provider/location in an MAO directory, he/she would be unable to make an appointment with that provider because the provider did not work at that location or because the provider did not accept the plan at that location. In 1,582 of these cases, the provider associated with these locations did not work at or did not accept the plan at any of the locations identified in the online directory. For example, if a

provider was listed at three locations in the directory, CMS's review found that the provider was not at any of the three locations identified. Given that the provider was not at any location listed in the directory, this finding raises concerns about whether these providers are even part of the network.

CMS's review uncovered 1,543 instances where the phone number was incorrect or disconnected. Online provider directories listed phone numbers of other businesses, providers' personal phone numbers, and home numbers of unrelated individuals. Wrong or disconnected phone numbers prevent plan members from contacting the provider; therefore, the member cannot make an appointment even if the provider is at that location, in the network, and accepting new patients. Not being able to connect with a provider's office prevents a member from making an appointment, which again may limit the enrollee's access to care.

The category "Provider is not accepting new patients" was identified as a deficiency 342 times. While the online directory stated that the provider was accepting new patients, the review found the provider's panel was closed to new patients. Members rely on the information in the directory to make informed health care choices. When an enrollee relies on a directory's statement that a provider is accepting new patients and finds that the provider is not, it calls into question the adequacy of the plan's network and suggests that the MAO may be unable to meet the beneficiary's health care needs.

In considering the deficiencies that are most likely to impact access to care, 87.43% of locations with deficiencies (6,786 out of 7,762)<sup>4</sup> had deficiencies of the highest weighted, most egregious errors. These findings suggest that MAOs are not adequately maintaining the accuracy of their provider directories. CMS found that these findings were not skewed by a few organizations, but rather they were widespread in the sample reviewed. Very few organizations performed well in our review. Table 5 below provides a breakdown of organizations and the percentage of total locations that were found to have deficiencies. The average deficiency rate by location was 48.39%, with the majority (37) of MAOs having deficiencies between 30% and 60%.

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<sup>4</sup> There are 7,762 locations with at least one deficiency. Of these, 4,929 are deficient because the provider should not be listed at the location. Another 1,857 locations either listed an incorrect phone number, incorrectly listed the provider as accepting new patients, or had both of these deficiencies. In total, 6,786 (4,929 + 1,857) locations had the highest weighted errors.

**Table 5: Deficiency Range by MAOs**

Deficiency Rates by Location	Number of MAOs
0.0% - 9.9%	0
10.0%-19.9%	4
20.0% - 29.9%	5
30.0% - 39.9%	14
40.0% - 49.9%	18
50.0% - 59.9%	5
60.0% - 69.9%	10
70.0% - 79.9%	2
80.0% - 89.9%	4
90.0% - 100%	2

## 5.0 Common Drivers of Deficiencies

We identified several common drivers that may be contributing to provider directory inaccuracies. First, it appears that group practices continue to provide data at the group level rather than at the provider level. A group practice often lists a provider at a location because the group has an office there, even if that specific provider rarely or never sees patients at that location. To ensure that beneficiaries can connect with the contracted providers at the location listed, it is critical that the provider directory does not convey an inflated number of locations where the provider practices.

Second, we saw a general lack of internal audit and testing of directory accuracy among many MAOs. Instead, MAOs placed full faith in credentialing services and vendor support, and even in provider responses. Based on plan’s responses, these practices, while typical, have not been found to be reliable. Moreover, if MAOs had implemented routine oversight of their processes for data validation, errors in the provider directory would have become apparent.

Finally, CMS encountered several instances in which a call to a provider’s office found the provider directory has been out of date for a long period of time, including cases where providers had been retired or deceased for years. In some cases, MAOs contacted providers or provider groups and the providers themselves had validated information that was subsequently found to be incorrect when CMS directly called the office. Both MAOs and their contracted providers are responsible for ensuring that provider directory data is accurate. MAOs cannot assume that they will be informed when a change in provider location occurs; instead, MAOs need to implement routine processes that drive more accurate information reflected in their directories. MAOs that take a reactionary approach by relying solely on provider-based notification will not have valid provider directories. MAOs must proactively reach out to providers for updated information on a

routine basis. They should actively use the data available to them, such as claims, to identify any provider inactivity that could prompt further investigation.

## 6.0 Next Steps

CMS is currently conducting the third review round which will examine online provider directories of 50 MAOs. Newly eligible MAOs, the current top ten MAOs by enrollment (all ten of which were reviewed during the first and/or second round), as well as the remainder of MAOs not reviewed during the first or second round will be reviewed during round three. During the third review round, CMS will continue to focus on the same four commonly utilized provider types, and will employ the same review methodology to allow for comparison across review rounds.

CMS continues to feel MAOs are in the best position to ensure the accuracy of their plan provider directories. The active participation and engagement of plan contracted providers is key to improving directory accuracy. We remain encouraged by several ongoing pilot programs aimed at developing a centralized repository for provider data accessible to multiple stakeholders. A centralized approach would make data collection and verification more efficient and less burdensome for MAOs and providers, and may result in more accurate and timely data sharing. A centralized database approach will take time and does not obviate the short-term, immediate need of MAOs to improve directories. CMS expects MAOs to continue to focus on improving directory accuracy and will continue to evaluate the accuracy of MAO's directories.

CMS issued compliance actions based on the results of our reviews. 23 Notices of Non-Compliance, 19 Warning Letters, and 12 Warning Letters with a Request for a Business Plan were sent.<sup>5</sup> We encourage MAOs to look for more near-term solutions to improving directory accuracy, such as performing self-audits of directory data, working with group practices to ensure that providers are only listed at locations where they accept appointments, and developing better internal processes for members to report directory errors.

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<sup>5</sup>CMS' methodology reviews the top ten by enrollment each round, resulting in many of the same MAOs being reviewed every round. From 2016 to 2017 the top ten by enrollment changed, resulting in only nine of the top ten from round one being reviewed in round two. CMS did not take compliance actions on these nine parent organizations that were reviewed in both round one and round two. These nine were subject to compliance actions for round one. The top ten are reviewed every year for monitoring purposes, therefore compliance for the repeat organizations was not appropriate. In addition, given the complexity of ensuring accurate provider directories are available to beneficiaries, CMS did not feel that sufficient time was provided to make substantive improvements between round one and round two.

## Appendix 1 - Review Methodology

### MAO Plan Selection

For the second round, CMS selected MAOs for review based on three criteria, listed below by selection priority:

1. Top ten MAOs by total enrollment size
2. MAOs who are new to the program for 2017
3. Random sample from remaining eligible MAOs

After identifying the MAOs to be included for review, CMS randomly sampled one MA Prescription Drug (MA-PD) contract offered by each MAO, then randomly sampled a Plan Benefit Package (PBP), or “MA-PD plan,” from each contract. CMS then selected every fifth contract as rural and the rest of the contracts as urban to ensure a mix of urban and rural service areas. If the selected contract did not have the assigned designation (only urban when contract was selected to be rural) then the contract was re-designated urban, with another contract being selected for a rural review. Because many online provider directories require users to enter a zip code to search for providers, CMS selected a county within each MA-PD plan’s service area, and then selected a zip code within the search county to use as the ‘search zip code.’

### Provider Selection

CMS reviewed four types of providers from each MA-PD plan: PCPs, cardiologists, ophthalmologists, and oncologists. CMS reviewed these provider types because they are among the most frequently utilized by both MA and fee-for-service (FFS) Medicare beneficiaries. CMS reviewed 108 providers from each MA-PD plan, randomly sampling 27 of each of the four provider types from the MA-PD plan’s online provider directory.<sup>6</sup>

### Review Calls to Provider Offices

Reviewers captured the provider directory information for each of the sampled providers (108 providers for each MAO), including all locations listed for each provider. Reviewers then placed calls to each provider’s office(s), verifying the accuracy of the information listed in the provider directory. During the calls, reviewers asked the following questions, in this order, to determine directory accuracy:

- Does the provider see patients at this location?
- Does the provider accept the MA-PD plan at this location?

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<sup>6</sup> In some cases, an MA-PD plan’s network did not contain enough of one provider type to meet the sample size of 27. If the MAO had another eligible contract, a MA-PD plan from this contract was used as a back-up MA-PD plan and CMS completed the sample size by selecting providers from the back-up MA-PD plan. If another contract and back-up MA-PD plan was not available, or if it did not contain additional unique providers, CMS sampled additional PCPs from the primary MA-PD plan to meet the sample size.

- Does the provider accept (or not accept) new patients who have this MA-PD plan? *(The provider directory is considered accurate if it correctly indicates if the provider is or is not accepting new patients)*
- Is the provider a (PCP, cardiologist, oncologist, or ophthalmologist)?
- Is the address correct?
- Is the telephone number correct? *(Usually confirmed by dialing the phone number)*
- Is the provider's name correct?
- Is the practice name correct?

When calls were made for a provider with multiple locations, the reviewer attempted to verify information about all the provider's locations during the first call. If the person at the provider's office was unable to verify information for the other locations, the reviewer called the next location, and continued until all information was verified. When a location was not reached on the first call attempt, reviewers made at least two more attempts to reach a provider's office, placing calls on different days and at different times. Reviewers recorded results for each provider location in a spreadsheet, noting any inaccuracies identified during the review call. Locations that could not be verified because calls were not answered after three attempts were marked as a deficiency. Locations that could not be verified because the respondent did not want to participate were replaced with another location. As a note, less than 1% of locations refused to participate.

## **Sharing Results with MAOs**

CMS shared the initial findings with each MAO, including any inaccuracies the reviewer identified in the provider directory. The MAO was given two weeks to review the findings and to 'concur' or 'non-concur' with the inaccuracies identified. CMS asked MAOs to provide supporting documentation to support 'non-concur' responses.

CMS then reviewed the MAO's responses and made final determinations, identifying if the provider directory's listing of a provider's location contained a "final deficiency," an error which must be corrected in order for the provider directory to be accurate. During the determination process, CMS made additional calls to providers' offices to confirm information. CMS shared the final results with the MAO, providing the MAO 30 days to make all necessary corrections in the MA-PD plan's provider directory.