Methodology – Best Physical Rehabilitation Centers 2020

July 23rd, 2020

1. Introduction

America's "Best Physical Rehabilitation Centers 2020" highlights the nation's top physical rehabilitation facilities based on quality of care, quality of service, quality of follow-up care and accommodation & amenitites relative to in state competition. Facilities in the 20 states with the highest number of physical rehabilitation centers, according to the Centers for Medicare & Medicaid Services (CMS), were included in the survey.

a. States included in the Survey

The following states were included in the analysis:

- o Texas
- o California
- o Pennsylvania
- o Florida
- o Ohio
- o Louisiana
- o Illinois
- o New York
- o Michigan
- o Indiana
- o Tennessee
- o Missouri
- o Georgia
- o Virginia
- o Arizona
- o North Carolina
- o Oklahoma
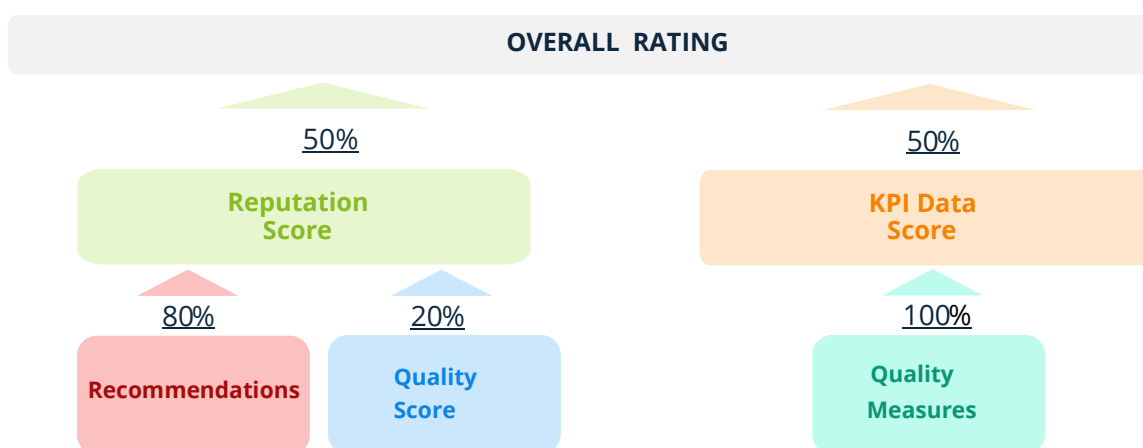- o Arkansas
- o South Carolina
- o Colorado

b. Scope of Facilities and States included in the Survey

- o Inpatient physical rehabilitation centers are included, Centers that only offer outpatient physicial rehabilitation services were excluded. The physical rehabilitation centers were identified according to the definition of Inpatient Rehabilitation Facilities (IRF) by the CMS. IRFs are free standing

rehabilitation hospitals and rehabilitation units in acute care hospitals. They provide an intensive rehabilitation program and patients who are admitted must be able to tolerate three hours of intense rehabilitation services per day. CMS collects patient assessment data only on Medicare Part A fee-for service patients.

o The Top 15% of facilities per state were awarded (140 nationwide). This number is based on the amount of facilities within the specific state that meet the aforementioned scope of requirements, and therefore varies among the individual states [1]. The state of Texas had the most physical rehabilitation centers awarded with 21, while Colorado is represented with 4 physical rehabilitation centers.

2. Scoring Model

In order to create the ranking, a score was calculated for each physical rehabilitation center that was part of the analysis. The total score is based on the reputation and KPI data scores which will be described in this section.

Reputation Score: The Reputation score is based on two subscores, for recommendations and for quality, as shown above. In cooperation with Newsweek, Statista invited thousands of medical experts (physicians, therapists, medical doctors, administration & staff working in physical rehabilitation facilities) to an online survey.

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[1] For states where ranking the top 15% of facilities would result in fewer than 4 facilities, the top 4 facilities were awarded, resulting in a maximum share of 19% per state.

Additionally, experts from all over the US were able to participate in the survey of the Best Physical Rehabilitation Centers by State on newsweek.com. It was mandatory to perform an email verification and self-recommendation was not possible (e.g. a recommendation of the physical rehabilitation centers someone worked for was not counted in the evaluation).

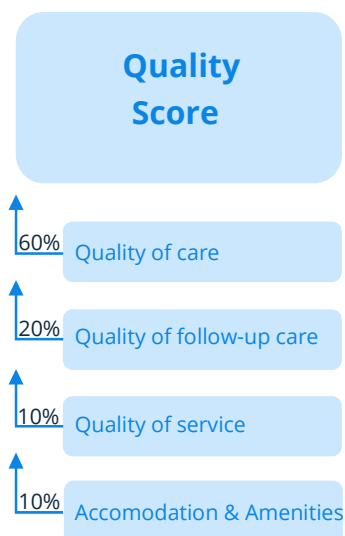|	
Reputation	Participants were asked to name up to five of the best physical rehabilitation centers in their respective home state. They were asked to recommend physical rehabilitation facilities by considering the quality of care, quality of service, quality of follow-up care and accomodations & amenities.

Entry of recommendations was aided by an autocomplete function, which showed physical rehabilitation facilities based on the letters entered. It was also possible to recommend any physical rehabilitation center that was not proposed by the autocomplete list. For the participation in the survey on newsweek.com it was mandatory to perform an email verification. Recommendations for physical rehabilitation centers that a participant works for (self-recommendations) were excluded from the analysis.

Recommendations received different weights depending on the order in which they were given, with the first recommendation being assigned the highest weight. Recommendations of physical rehabilitation centers that were stated as the best physical rehabilitation center in a state received a 33% higher weight than those recommendations that were stated as the fifth best physical rehabilitation center. A score was assigned to each physical rehabilitation center based on the number of weighted recommendations. Recommendations constitute 80% of the overall reputation score (as depicted above).

Additionally, participants were asked to rank the quality dimension which influence the quality of rehabilitation facilities. Participants were asked to differentiate between these variables:

- Quality of care (e.g. treatments/ therapies, consultation with doctor/ therapist)
- Quality of service (e.g. meals, leisure activites)
- Quality of follow-up care (e.g. outpatient therapies)
- Accommodation & Amenities (e.g. size of room, quality of furnishing)

Calculation of Quality Score

The quality dimensions were shown to participants in a randomized order in the survey. Based on the reported importance of each quality dimension a quality score was assigned using the following weights: 60% Quality of care, 20% Quality of follow-up care, 10% Quality of service and 10% Accomodation & Amenities.

For each recommended center the participant rated the four quality variables on a scale from 1 ("Very poor") to 5 ("Excellent"). A quality score was assigned to each addiction treatment center based on the weighted average of these ratings. The Quality Score contributes 20% towards the overall recommendation score (as depicted above).

KPIs data score: The U.S. Centers for Medicare & Medicaid Services (CMS) provides KPI data for physical rehabilitation centers. The KPI data includes the following measures:

- Measure 1: Catheter-associated urinary tract infections (CAUTI)-Standardized infection ratio (SIR) (A/B)
- Measure 2: Clostridium difficile Infection (CDI)-Standardized infection ratio (SIR) (A/B)
- Measure 3: Influenza Vaccination Coverage Among Healthcare Personnel-Rate of flu vaccination
- Measure 4: Medicare Spending Per Beneficiary (MSPB) in IRFs-MSPB Score
- Measure 5: Percentage of IRF patients who experience one or more falls with major injury during their IRF stay-Facility rate

- o Measure 6: Percentage of patients whose functional abilities were assessed and functional goals were included in their treatment plan-Facility rate
- o Measure 7: Rate of potentially preventable hospital readmissions 30 days after discharge from an IRF-Risk-Standardized Potentially Preventable Readmission Rate
- o Measure 8: Rate of potentially preventable hospital readmissions during the IRF stay-Risk-Standardized Potentially Preventable Readmission Rate
- o Measure 9: Rate of pressure ulcers that are new or worsened-Facility rate
- o Measure 10: Rate of successful return to home and community from an IRF-Risk-Standardized Discharge to Community Rate
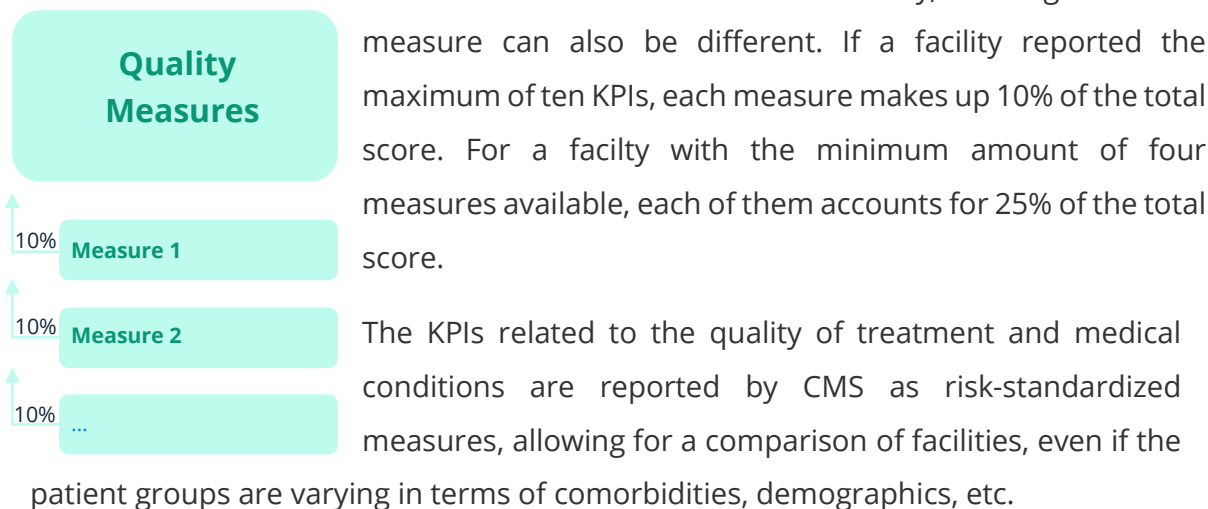
Inpatient Rehabilitation Facility Compare data is based on the most recently released dataset from June 3rd, 2020. Further information about the CMS Inpatient Rehabilitation dataset is available at:

https://data.medicare.gov/views/bg9k-emty/files/e4a6bdc6-ab0c-47bc-8367-477a8a6d577b?filename=2020-02-04-IRFQRP-Data-Dictionary.pdf

For a facility to receive a KPI data score it must have reported a **minimum of 4 measures** within the reporting period. Facilitites that have reported fewer measures did not receive a KPI data score. In that case the rating for these centers is based on the reputation survey score only. For Centers with a KPI data score and a reputation survey score the rank is calculated by combining the reputation survey score (50%) and the KPI score (50%).

Calculation of KPI Data Score

Statista used CMS data to determine the KPI score of physical rehabilitation centers. Since the number of available KPI measures varies for each facility, the weight for each measure can also be different. If a facility reported the maximum of ten KPIs, each measure makes up 10% of the total score. For a facilty with the minimum amount of four measures available, each of them accounts for 25% of the total score.

Quality Measures

10% **Measure 1**

10% **Measure 2**

10% ...

The KPIs related to the quality of treatment and medical conditions are reported by CMS as risk-standardized measures, allowing for a comparison of facilities, even if the patient groups are varying in terms of comorbidities, demographics, etc.

For each of the ten KPIs, a sub-score was calculated. The facility that achieved the best result in one individual measure (e.g. lowest infection rate or highest influenza vaccination coverage among healthcare personnel) received 100% for the respective sub-score. The different sub-scores were then weighted as described above and used to calculate the total KPI data score.

Overall Rating and State Rank

The overall rating is the weighted average of the the reputation score and the KPI data score. The weight for the reputation score is 50% and the CMS based KPI data score is weighted equally with 50% towards the total score of each facility.[2] Subsequently facilities were ranked within their respective state based on their total score achieved.

3. Disclaimer

The ranking is comprised exclusively of physical rehabilitation centers that are eligible regarding the above-mentioned scope. The ranking was created through an elaborate process. The information provided in this ranking should be considered together with other information about physical rehabilitation centers or, if possible, accompanied

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[2] For centers without KPI data from CMS the rating is based on the reputation score only.

by a visit to the facility. The quality of physical rehabilitation centers that are not included in the list is not disputed.