



Orthopedic & Sports Medicine Center, LLC  
3107 Frederick Ave, Suite B  
St. Joseph, MO 64506  
816-233-9888  
mcannella@osmcortho.com

1/27/2025

Missouri Certificate of Need Program

Dear Committee,

Subject: Supporting Methodology for MRI Acquisition # 6155 HS

The purpose of this document is to provide additional justification and clarification in support of our application to acquire a new MRI unit in Platte City. This unit is intended to service Platte County and its surrounding areas, addressing critical gaps in imaging access and capacity.

We have identified our primary service area to be Platte County, with a secondary service area that includes Buchanan, Clinton, and Clay counties. While we were unable to obtain specific utilization data from the affected facilities within the proposed service area, we did receive valuable input from several facilities reporting high monthly utilization rates for MRI scans. These facilities are experiencing lead times of about three to five weeks, which indicates a significant capacity constraint. Additionally, our own Urgent Care location in Platte City has observed this trend when ordering MRI scans, as patients frequently face extended delays when referred to other facilities within the primary and secondary service areas.

We anticipate the demand for additional MRI capacity will continue to rise in Platte County and throughout the proposed service area due to population growth. According to data from the 2022 U.S. Census and the Missouri Bureau of Health Care Analysis and Data Dissemination, the population of Platte County is projected to grow from 110,435 in 2022 to 117,165 by 2025, further compounding the need for enhanced imaging resources.

**Additional factors of consideration:**

- **Regional Impact:** Platte County residents will often rely on facilities in the North Kansas City area, where there are three to five week wait times, exceeding the industry standard of one to two weeks for non-urgent cases.
- **Impact on Patient Outcomes:** Delayed imaging leads to prolonged pain, deferred treatment and in some cases, worsened clinical outcomes. This is particularly pertinent in our current practice where we see MRI patients for conditions related to general medical, primary care, neurology, cancer and orthopedics.



- **Travel burden:** Rural residents face longer travel times, which can discourage timely care.
- **Localized Access:** Ensures residents have closer and more convenient access to critical imaging services.
- **Economic Impact:** Local imaging services reduce out-of-pocket travel costs for patients and create job opportunities for MRI technologists, administrative staff, and other healthcare professionals.
- **Relief:** An additional unit will alleviate pressure on North Kansas City facilities, as well as benefiting the local healthcare providers in Platte County and the surrounding areas.

To assess the need for additional MRI units in the proposed service area, we utilized data from the World Health Organization (WHO) and the Organisation for Economic Co-Operation and Development (OECD). The OECD's analysis from 2017 to 2019 indicates that the United States has an average of 40.11 MRI units per 1,000,000 residents.

**Using this benchmark, we calculated the following.**

- $1,000,000 / 40.11 = \mathbf{24,931.4}$  residents per MRI unit
- This figure represents the national average of residents served per MRI unit.

**Applying this benchmark to Platte County:**

- With an estimated 2025 population of 117,165, we calculated the need for MRI units based on national benchmarks, which indicate approximately 1 MRI unit per 24,931 residents.
- $117,165 / 24,931 = \mathbf{4.7}$  MRI units needed to meet the national benchmark.
- Currently, Platte County's population density equates to approximately 39,000 residents per MRI unit, which highlights the need for additional capacity in the proposed service area to ensure adequate access to advanced imaging services.

Thank you for your time and consideration of our application,

Best regards,

Matthew Cannella, MBA, MS, ATC, LAT  
Operations Manager  
Orthopedic and Sports Medicine Center, LLC