

## INTRODUCTION

**Myelofibrosis (MF)** is a rare chronic myeloid malignancy characterized by the development of **fibrotic scar tissue** in the bone marrow, which disrupts normal hematopoiesis and results in **anemia**, **splenomegaly**, and a spectrum of systemic symptoms<sup>1</sup>. MF may occur *de novo* due to somatic mutations in genes such as **JAK2**, **CALR**, or **MPL**, or it can arise secondary to the progression of **polycythemia vera** or **essential thrombocythemia**<sup>1</sup>. Disease course is highly variable, with some patients remaining asymptomatic for years, while others experience rapid progression or transformation to **acute myeloid leukemia (AML)**<sup>2</sup>.

### Treatment Strategies

Are guided by disease severity and symptom burden. **Janus kinase inhibitors (JAKi)** are frequently used to alleviate symptoms and reduce spleen volume<sup>3</sup>.

### Real-World Data

on MF epidemiology and treatment patterns remain limited, particularly in Germany. This study aimed to:

- Estimate the **incidence and prevalence** of MF in Germany in 2022.
- Evaluate **treatment patterns** across different healthcare settings in a representative patient cohort

## RESULTS

### Epidemiologic Survey

The **346 MF-treating centers** identified in the HCSA formed the basis for institutional weighting, to project prevalence and incidence from **818 patients** reported in the survey.

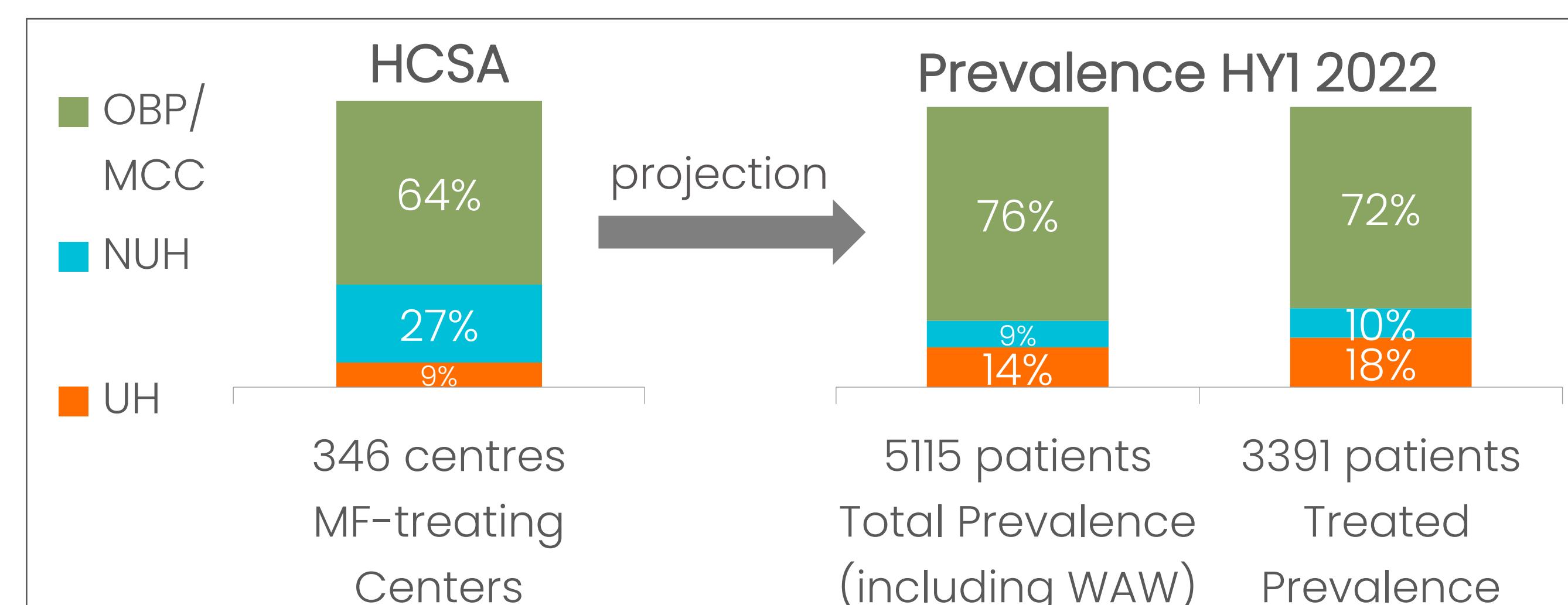


Figure 1. Institutional distribution of HY1 2022 prevalence.

Incident cases accounted for 26% of total prevalence.

Full-year 2022 lower and upper estimates:

- Prevalence: 4273–6445 patients
- Incidence: 1111–1676 patients

## CONCLUSION

This real-world study provides updated insights into the **epidemiology and treatment patterns** of MF in Germany.

- Estimated **prevalence and incidence** fall within the upper range of previously reported data<sup>4</sup> reflecting the strength and representativeness of the institutional sample and methodology.
- Patient care is predominantly delivered by **OBPs** and **MCCs** highlighting the central role of outpatient hematology in disease management in Germany.
- **JAKi** are the **standard of care** for patients not managed with **WAW**, as demonstrated in the representative chart review sample.

The findings offer a valuable reference point for understanding MF care delivery and treatment choices in routine practice.

## METHODS

### A Health Care Structure Analysis (HCSA)

identified relevant MF-treating centers using the 2020 hospital quality reports published by the German Federal Joint Committee (G-BA). Across Germany, **346 MF-treating centers** are care relevant, including:

- Office-Based Practices / Medical Care Centers (OBP/MCC)
- Non-University Hospitals (NUH)
- University Hospitals (UH)

### An Epidemiologic Survey

was distributed to MF-treating institutions to collect data on **diagnosed and treated patients** during the first half of 2022 (HY1 2022).

- **45 institutions** participated, reporting prevalence and incidence data for **818 MF patients**.
- Institutional weighting was applied to project national estimates for **total prevalence** (including patients under **watch-and-wait (WAW)**), **treated prevalence** and **incidence**.

### A Retrospective Chart Review

of a **representative sample** of MF-treating institutions contributed detailed patient-level data.

- **54 institutions** provided data on **350 MF patients** treated in 2021.
- The review captured the **entire treatment history** from initial diagnosis to current therapy status, enabling analysis of care pathways and institutional treatment patterns.

### Retrospective Chart Review

The institutional distribution of the chart review sample closely mirrors that of the epidemiologic survey, supporting its **representativeness**.

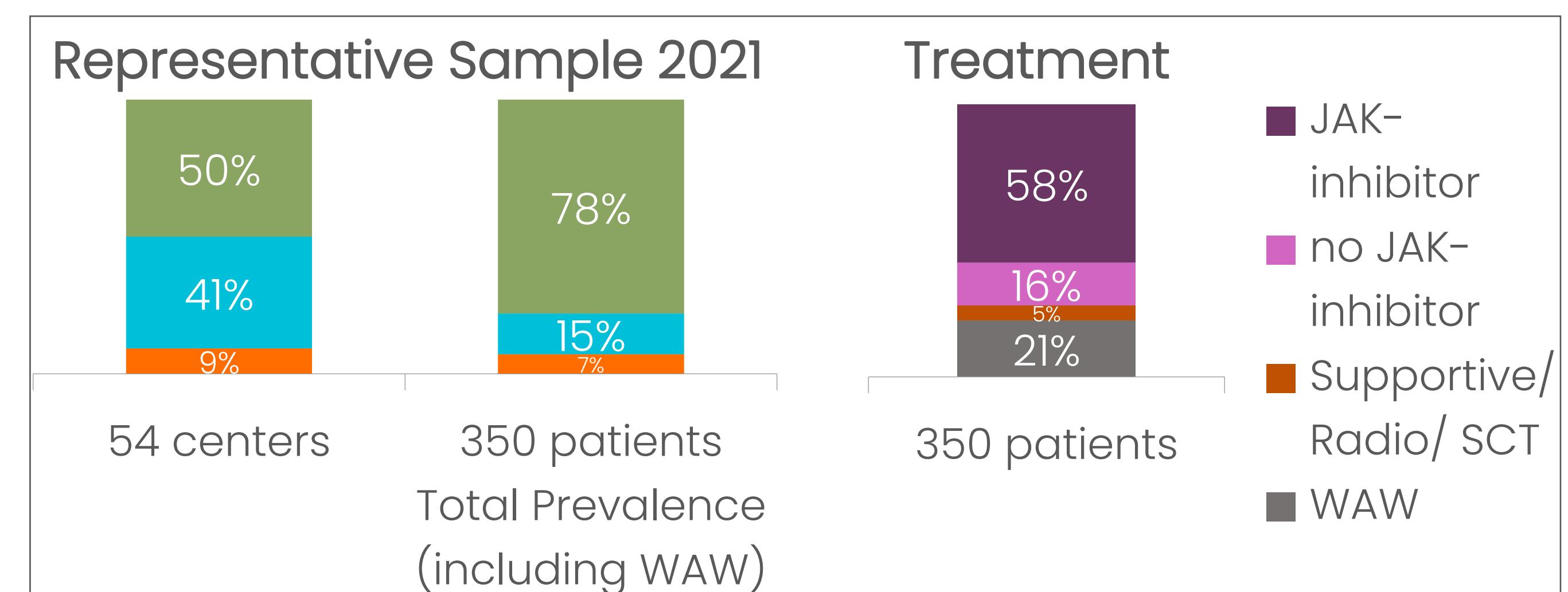


Figure 2. Representative sample and treatment patterns.

Over half of the patients received a **JAKi**, primarily **ruxolitinib**. Among those not treated with a **JAKi**, **hydroxyurea** was the most common alternative. Patients with low-risk disease and minimal symptoms are typically managed with a **WAW** approach.

## LIMITATIONS

Institutional Weighting relied on consistent reporting behavior across institution types, and could be biased due to **voluntary participation**.

While robust data quality processes were applied to minimize manual entry errors, inconsistencies originating from **variability in clinical documentation** and **record-keeping practices** could not be controlled.

### References

- 1 <https://www.onkopedia.com/de/onkopedia/guidelines/primaere-myelofibrose-pmf/@/guideline/html/index.html>, accessed 6 Oct. 2025.
- 2 Abdelwahab, et. al, 'Transformation of myeloproliferative neoplasms to acute leukaemia', in Oxford Specialist Handbook (Oxford, 2020; online edn, Oxford Academic, 1 July 2020), <https://doi.org/10.1093/med/9780198744214.003.0014>, accessed 6 Oct. 2025.
- 3 Martino M, et. al, 'Treatment Strategies Used in Treating Myelofibrosis: State of the Art. Hematol Rep. 2024 Oct 30;16(4):698-713. doi: 10.3390/hematolrep16040067. PMID: 39584924; PMCID: PMC11587016.
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