### **BACKGROUND**

Although TKIs have led to a life expectancy of patients with CML-CP close to that of the general population, resistance and intolerance are challenging to manage and often necessitate a treatment change. 1-14 Data on patient experiences and/or concerns regarding outcomes and role in treatment decision-making are lacking. Alignment of patient and physician perspectives is needed to limit unnecessary treatment switching, improve QOL, and optimize achievement of goals.

Here we present results of CML SUN, a survey conducted with both patients and physicians to comprehensively understand the unmet needs and concerns around CML from the perspectives of patients diagnosed with CML-CP and treating physicians.

### METHODS

CML SUN was conducted among patients with CML-CP and treating physicians. Results of the qualitative interviews of 21 patients and 24 physicians (published previously) were used to inform topics for the online quantitative surveys. 15 Following the qualitative interviews, 60-minute cognitive interviews were conducted to eliminate any ambiguities and ensure respondents could answer survey questions and were not overwhelmed. IRB exemptions were attained. Patient recruitment occurred through patient databases, physician/nurse referrals, and patient advocacy groups; physicians were recruited through online physician panels.

To participate in the quantitative survey, patients with CML-CP must have been ≥18 years old had 1 to 3 prior TKI treatments, and were currently receiving a 2L, 3L, or 4L TKI. Physicians must have been transplant specialists or hematologists and/or oncologists in practice for 3 to 35 years who were personally responsible for treatment decisions for patients with CML. Physicians spent ≥50% of their time caring for patients, treated ≥10 patients with CML-CP (>30% receiving 2L or 3L TKI) over the last year, and switched patients' treatment from 2L to 3L. Online surveys were unique for patients and physicians and assessed disease perception, CML diagnosis, information sharing, decision-making, disease monitoring, treatment switching, and CML treatment and impact on the patients' lives. All participants provided informed consent and were incentivized to participate. Records were anonymized and analyzed by research specialists at Ipsos SA.

A total of 361 patients with CML-CP and 198 physicians (hematologists and/or oncologists) in 11 countries (Australia, Brazil, Canada, France, Germany, Italy, Japan, South Korea, Spain, the UK, and the US) participated from November 2022 to March 2023.

### CONCLUSIONS

- Overall, CML SUN demonstrates the need for a shared treatment decision that balances efficacy and tolerability goals among patients and physicians
- Treatment options that are both effective and tolerable are needed to help patients stay on therapy longer and avoid treatment switching and the negative impact on QOL and physical and mental well-being. While most patients and physicians are satisfied with the efficacy of current treatments, patients still report experiencing negative impacts on their QOL, including mental health, social life, work life, studies/school, and financial situation
- Patients need to be involved in choosing their treatment as their treatment may be lifelong and could impact the quality of their day-to-day lives
- A significant percentage of physicians saw themselves as the ultimate decision-maker in treatment decision-making, despite reporting to welcome the involvement of the patient, suggesting a lack of enabling patient empowerment and shared decision-making as part of routine clinical practice. This may be an area where greater awareness and support for physicians can help them better meet patients' needs and preferences
- Patients want treatment options that allow them to live normal lives. Physicians, patients, and other stakeholders in CML care have the opportunity to collaborate and raise their expectations for CML treatments that do not sacrifice tolerability for the sake of efficacy



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## Chronic Myeloid Leukemia Survey on Unmet Needs (CML SUN):

# Balancing Tolerability and Efficacy Goals of Patients and Physicians Through Shared Treatment Decision-Making

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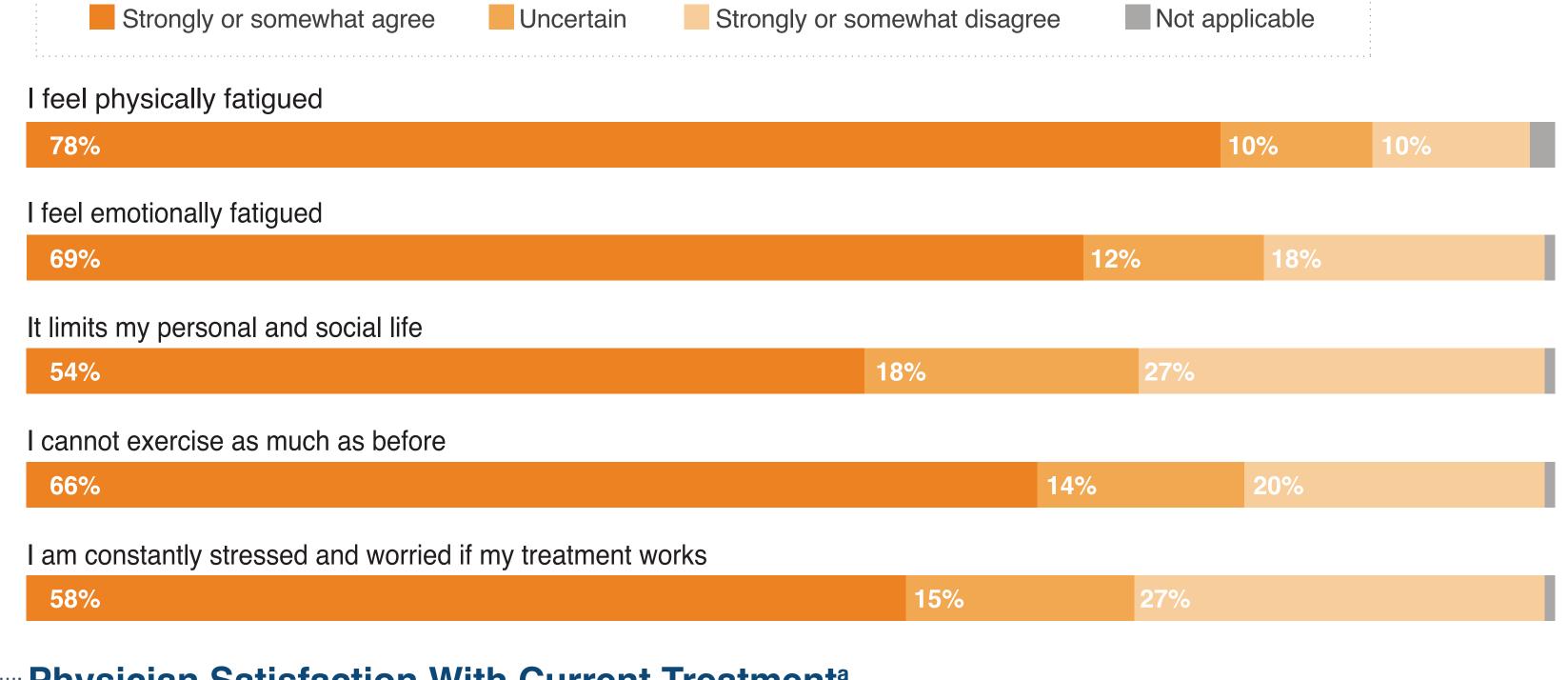
#### Patient Satisfaction With Their Current TKI Treatment<sup>a</sup> TREATMENT GOALS — Top 5 Treatment Goals by Line of Therapy TREATMENT SATISFACTION • Most patients and physicians reported being satisfied with the efficacy of current TKI treatments; however, many patients Patients focused on stopping/slowing disease progression, maintaining/improving QOL The decreasing proportion of physicians who reported some treatment goals as their patients progress to later lines of therapy still reported that treatments affect their QOL and minimizing/managing SEs as treatment goals, while physicians placed higher emphasis on molecular response goals. Treatment selection and goals should not highlights the challenge of managing patients with advanced disease • Patients reported that their current treatment makes them feel physically and emotionally fatigued, affects their ability to sacrifice patient QOL, while ensuring efficacy of treatment exercise and maintain their social lives, and causes constant worry/stress about whether it is working • For patients, the ideal treatment would provide strong, durable efficacy without sacrificing tolerability and long-term safety **Patients Physicians** Physicians 1L (n=198) Physicians 2L ( n=198) Physicians 3L (n=198) Patients 1L (n=356) Patients 2L (n=359) Patients 3L (n=120) **Patients (n=361), %** Not applicable Dissatisfied, or neither dissatisfied nor satisfied Maintain or improve QOL Stop or slow disease progression Maintain or improve QOL Maintain or improve QOL 49% Stop or slow disease progression SEs that can be managed Get my white blood cell count SEs that can be managed Stop or slow disease progression back to normal (achieve HR) Minimize risk of severe SEs 35% Minimize risk of severe SEs SEs that can be managed Achieve MMR 28% Achieve DMR 26% Achieve MMR Achieve MMR 26% Treatment works to control Treatment's frequency and method Treatment has no or manageable SEs the disease of administration Maintain or improve QOL Maintain or improve QOL Achieve MMR Maintain or improve QOL SEs that can be managed Achieve MMR Achieve DMR Achieve DMR **Achieve DMR** SEs that can be managed SEs that can be managed Minimize risk of severe SEs Minimize risk of severe SEs Stop or slow disease progression Maintain or improve your QOL Impact on your social life Impact on your mental health Minimize risk of severe SEs <sup>a</sup> Patients ranked their top 3 most important treatment goals by line of therapy; physicians selected any goals that they have by line of therapy. Patient and Physician Input on Treatment Selection<sup>a</sup> SHARED DECISION-MAKING Across lines of therapy, 48% to 66% of physicians reported presenting Only 19% to 26% of patients reported that treatment decisions were discussed Impact on your work life Impact on your financial situation Impact on your studies or school only one treatment option to patients; 39% to 43% of patients reported and decided together with their physician, while 44% to 48% of physicians only receiving information about one TKI treatment from their physician reported making treatment decisions across lines of therapy with little to no input from the patient **Patients Physicians** Physicians 1L (n=198) Physicians 2L ( n=198) Physicians 3L (n=198) Patients 1L (n=361) Patients 2L (n=361) Patients 3L (n=122)

<sup>a</sup>On a scale from 0 to 10, where 0 is "Completely dissatisfied" and 10 is "Completely satisfied" (dissatisfied, 0-3; neither dissatisfied nor satisfied, 4-6; satisfied, 7-10). In the figure above, boxes 0-6 are added to obtain the numbers for "dissatisfied, or neither dissatisfied nor satisfied".

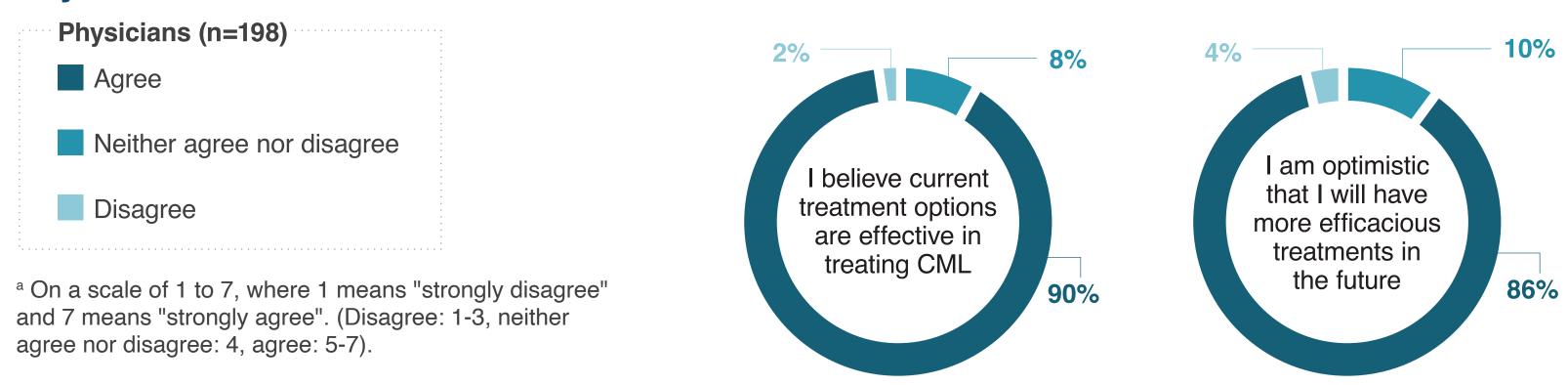
### Patient Perceptions of How CML Treatment Affects Their Life

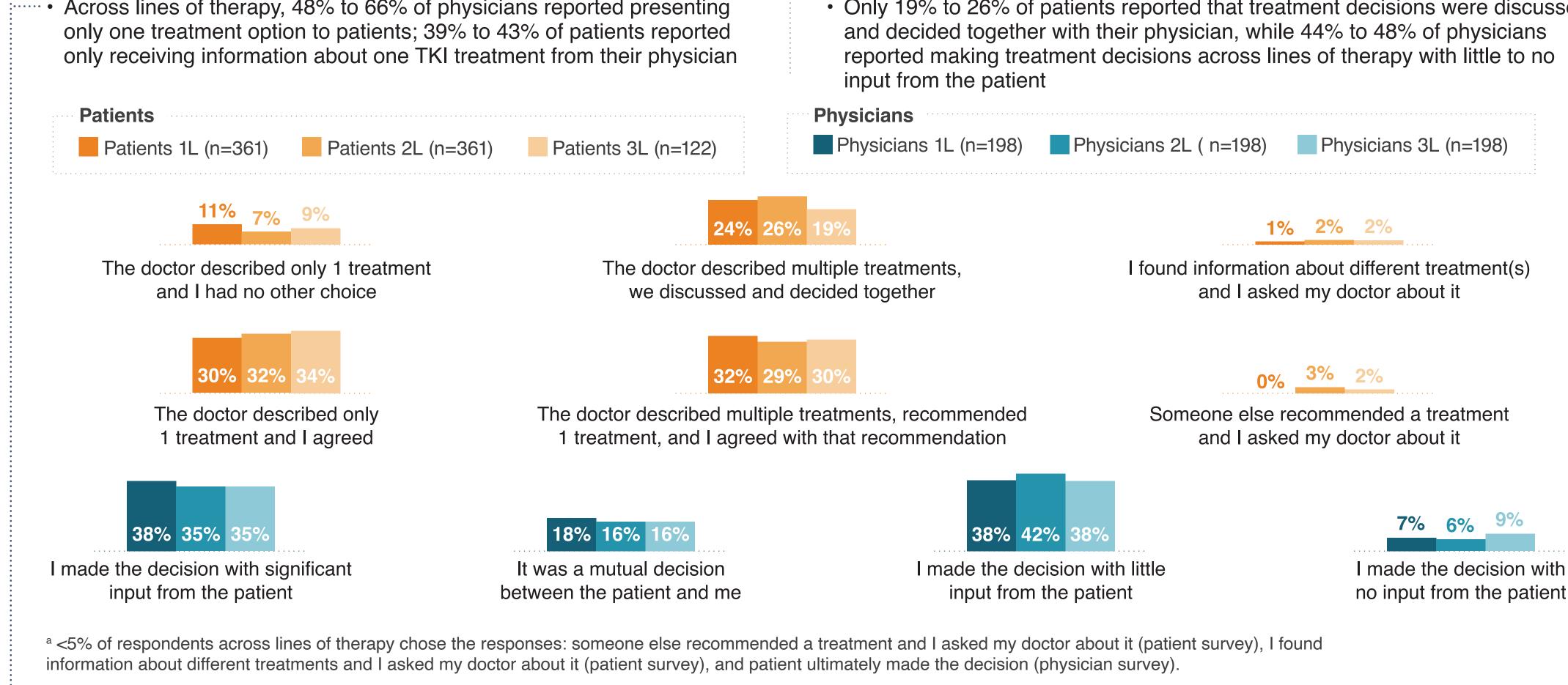
Patients (n=361)

Agree



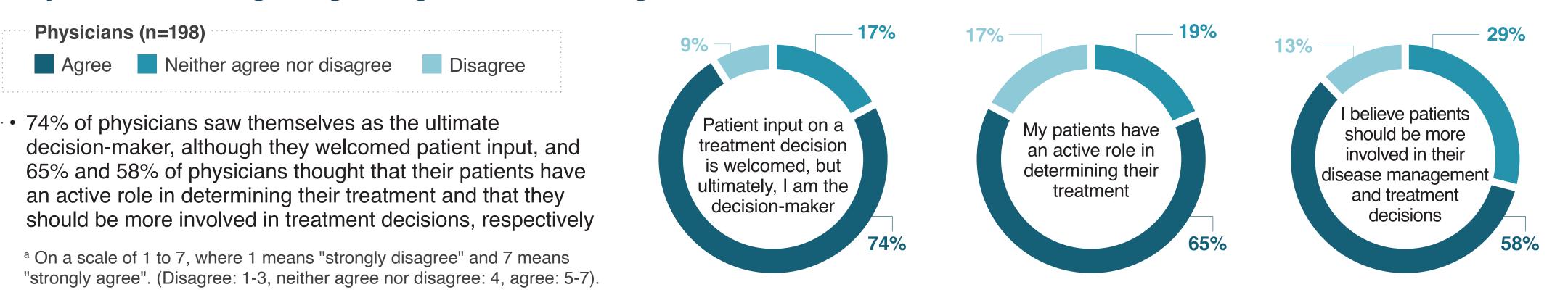
### Physician Satisfaction With Current Treatmental





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### Physicians' Feelings Regarding Different Management of CML<sup>a</sup>



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