



# A U.S.-Based Survey: The Experiences of 1147 Chronic Lymphocytic Leukemia (CLL) Patients

Brian Koffman, MDCM, DCFP, DABFM, MS Ed<sup>1</sup>, Betsy Dennison, RN, MS<sup>2</sup>, Kaitlin H. Kennard, BSN<sup>3</sup>, John C. Byrd, MD<sup>4</sup>, John M. Pagel, MD, PhD<sup>5</sup>, Matthew Steven Davids, MD, MMSc<sup>6</sup>, Chadi Nabhan, MD, MBA, FACP<sup>7</sup>, Neil E. Kay, MD<sup>8</sup>,

Tanya Siddiqi, MD<sup>9</sup>, Danielle M. Brander, MD<sup>10</sup>, Deborah Marie Stephens, DO<sup>11</sup>, Brian Thomas Hill, MD, PhD<sup>12</sup>, Javier Pinilla-Ibarz, MD, PhD<sup>13</sup>, Bruce D. Cheson, MD, FASCO<sup>14</sup>, Steven T. Rosen, MD, FACP, FASCO<sup>9</sup>, Farrukh Tauseef Awan, MD, MBBS<sup>4</sup>, Michael Y. Choi, MD<sup>15</sup>, Anthony R. Mato, MD, MSCE<sup>16</sup>; <sup>1</sup>CLL Society Inc., Claremont, CA; <sup>2</sup>CLL Society Inc., Pompton Lakes, NJ; <sup>3</sup>Abramson Cancer Center, Philadelphia, PA; <sup>4</sup>The Ohio State University, Division of Hematology, Columbus, OH; <sup>5</sup>Swedish Cancer Institute, Seattle, WA; <sup>6</sup>Dana-Farber Cancer Institute/Harvard Medical School, Boston, MA; <sup>7</sup>Cardinal Health Specialty Solutions, Dublin, OH; <sup>8</sup>Mayo Clinic, Rochester, MN; <sup>9</sup>City of Hope National Medical Center, Duarte, CA; <sup>10</sup>Duke University School of Medicine, Durham, NC; <sup>11</sup>University of Utah Huntsman Cancer Institute, Salt Lake City, UT; <sup>12</sup>Cleveland Clinic Foundation, Cleveland, OH; <sup>13</sup>H. Lee Moffitt Cancer Center & Research Institute, Tampa, FL; <sup>14</sup>Georgetown University Hospital, Lombardi Comprehensive Cancer Center, Washington, DC; <sup>15</sup>City of Hope, Duarte, CA; <sup>16</sup>The Ohio State University Comprehensive Cancer Center, Columbus, OH; <sup>15</sup>Moores Cancer Center, University of California San Diego School of Medicine, San Diego, CA; <sup>16</sup>Memorial Sloan Kettering Cancer Center/CLL Program, Leukemia Service, New York, NY

## BACKGROUND & INTRODUCTION

### Background about CLL in 2018

The CLL literature focuses largely on the objective aspects of diagnosis, active observation, prognosis and management. While health care providers (HCPs) try to effectively educate and reassure patients, the literature on patients' subjective experience through the continuum of care is limited.

### Introduction

The CLL Society Inc., a patient-driven, physician-curated nonprofit organization focusing on the unmet needs of the CLL community, sought to understand how CLL and its management, including the healthcare team, diagnosis, education, active observation, prognostic testing, and the options of clinical trial affect the lives of those with CLL and what was important to patients. The goal was to better understand CLL from the patient's perspective to inform HCPs in best meeting their patients' needs.

## OBJECTIVES

- To assess patient understanding of CLL in terms of symptoms (physical and emotional), diagnosis, prognostic testing to identify specific areas for education and support.
- To assess the experiences of patients in "Watch and Wait / active observation" including psychosocial stresses such as anxiety, depression and fatigue, to identify areas for education and support.
- To assess patient experience related to the option of a clinical trial.

## METHODS

### Study Design

The 2017 CLL Diagnosis and Treatment Assessment: The Patient View (2017 CLLDATA) survey included 64 multi-part questions directed to CLL pts to capture more information on their experience with CLL. The survey, which was available online or on paper, was IRB-approved and took place between October-December 2017. This report will focus on the patient perspective at diagnosis, during the active observation (AO) period, prognostic testing, clinical trial participation and sources of information. Data on other topics within the survey will be reported in the future.

**Inclusion criteria:** Patients must be age 18 or above, have a diagnosis of CLL/SLL, be a United States resident with a working knowledge of English and be able to provide informed on-line or paper consent for study participation

**Survey Recruitment:** This survey was administered anonymously using both the CLL Society (CLLS) database, Facebook page, bkoffman.blogspot.com, and online CLL patient forums, as well as information cards distributed in the offices of the principal investigators (PIs) and identified physicians that refer to those PIs, as well as attendees at CLL Society patient support groups. A self-selected convenience sample resulted from online methods, as well as informational cards provided to CLL patients within the offices described above, and CLL Society Patient Support Groups. Patients could participate via an online or a paper survey.

### Statistical Analysis:

Data were analyzed using descriptive methods. Chi-square was used to evaluate statistical significance. Analyses and comparisons were made between the multiple subgroups

- <65 year old patients versus ≥65 year old patients
  - Untreated versus treated patients
  - Male versus female
  - High-risk versus low-risk
  - Patients treated by a general hematologist/oncologist only, a CLL expert only, or both
- For the purposes of this research, we used the following definitions:

Definitions	
General hematologist/oncologist	Sees all types of cancer patients
CLL Expert	A hematologist/oncologist who primarily focuses on CLL and works at an academic or research center
High-risk	17p del, 11q del, unmutated IGHV
Low-risk	Trisomy 12, 13q, IGHV mutated with no 17p del or 11q del



The CLL Society, a 501c3, non-profit patient education organization is doing research to capture the voice of the CLL patient. The first 500 patients to complete the survey will receive a \$50 Target gift card that can be used online or in the store.  
You can participate in one of two ways:  
Online Survey: Go to <https://cllpatientquestionpro.com> – OR –  
Paper Survey: Call 949-667-4CLL or send email to [research@cllsociety.org](mailto:research@cllsociety.org) to request a survey. Provide your name and address and a paper survey will be mailed to you.

No personal information will be collected. All information is confidential and will be combined with all other responses and reported in aggregate. Questions: Send us an email at [research@cllsociety.org](mailto:research@cllsociety.org)  
<https://cllsociety.org>

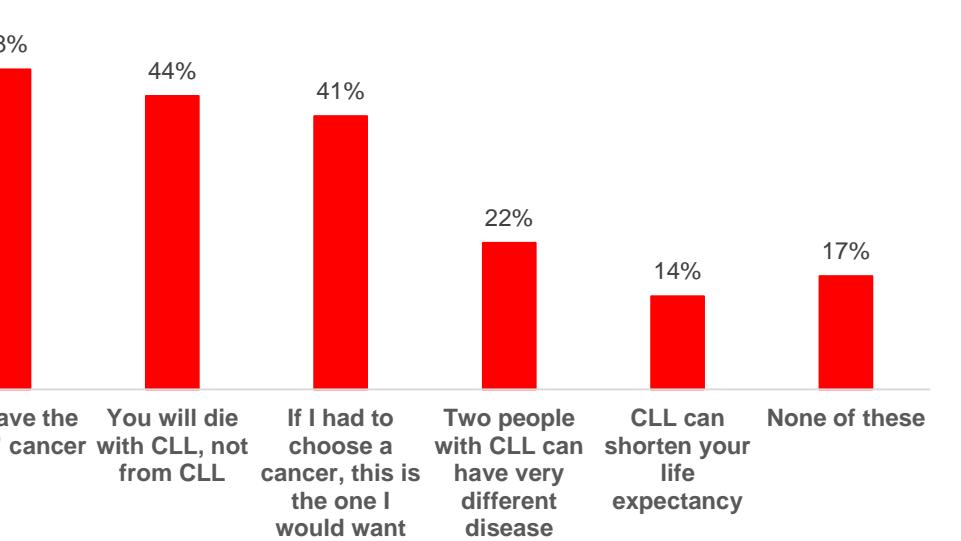
Table 1. Patient Characteristics N=1147

Median age, years % (range)	65 (28-86)
>65 years old (%)	54
Males (%)	46
Caucasian (%)	96
Median time from diagnosis, years (range)	5 (0-29)
Physician type (%)	
General hematologist/oncologist	37
CLL expert	32
Both general hematologist/oncologist & CLL expert	31
Treatment status (%)	
Watch & Wait	43
Males (37%); ≥65 years old (36%)	
Receiving or completed 1 <sup>st</sup> treatment	25
Males (27%); ≥65 years old (28%)	
Receiving or completed 2 <sup>nd</sup> or later treatment	32
Males (36%); ≥65 years old (36%)	

### Diagnosis

At diagnosis, 48% of patients were told they had the "good" cancer by their HCP. This statement, as well as others were reported equally by patients regardless of the type of physician managing/treating their CLL. [Figure 1]

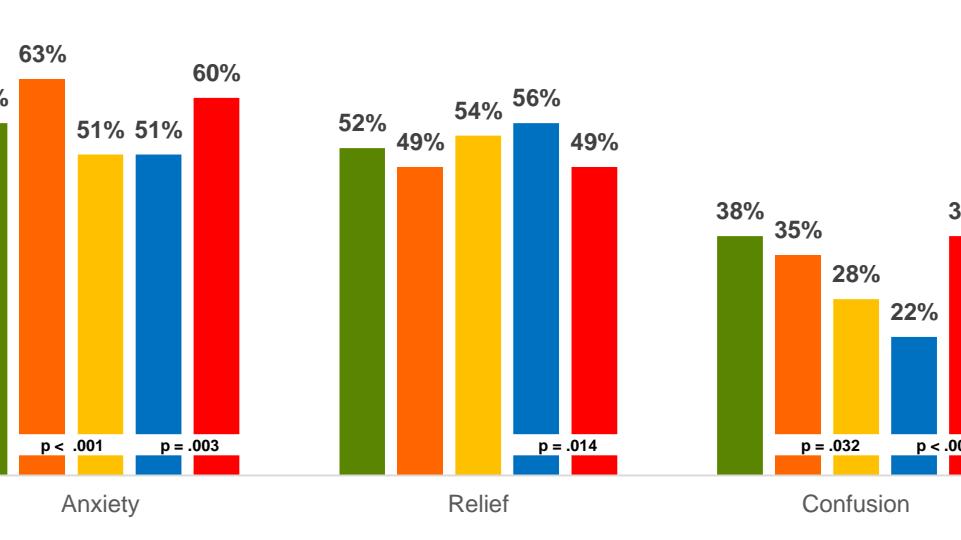
Figure 1. Statements Provided During Diagnosis of CLL



### Active Observation

Only 13% of patients reported needing treatment within 3 months of diagnosis. For those managed with active observation (87%), 91% stated that their doctor explained why therapy was not warranted [Figure 2.]

Figure 2. Emotional Response to Active Observation

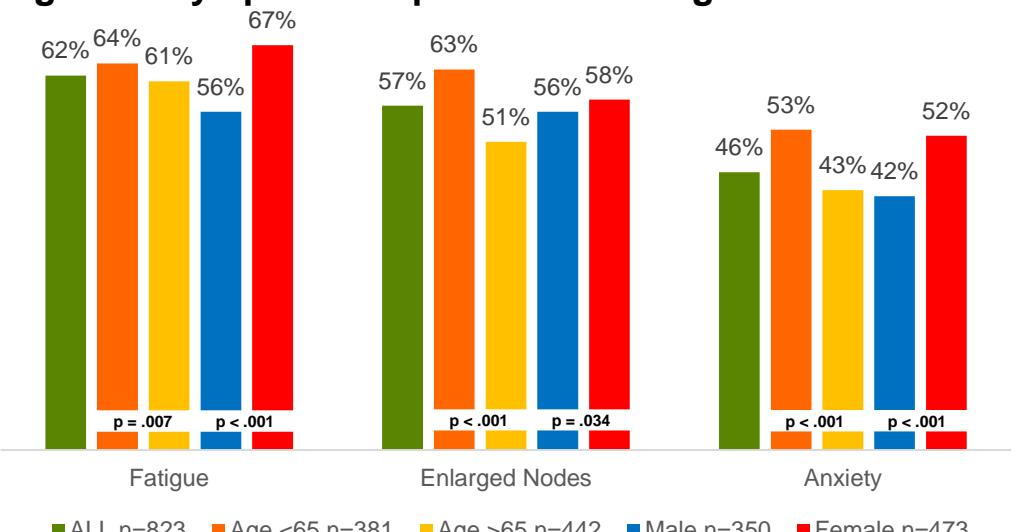


### Symptoms Reported During Active Observation

During active observation, 17% of patients reported experiencing no disease-related symptoms. Men were more commonly asymptomatic (22% vs. 13%), as were those 65 years or older, compared to those under 65 (21% vs. 12%) [Figure 3.]

## RESULTS

Figure 3. Symptoms Experienced during Active Observation



### Alternative Treatments during Active Observation

Respondents were asked to report on their use of herbal and other non-traditional interventions for managing their CLL during the active observation period, and 66% reported doing so. (Table 2). Fifty-nine percent of patients aged 65 or older reported use of herbal or alternative therapies compared to 75% of patients younger than 65 (p<.001). There was no difference in use of specific herbal or alternative therapies between age groups. Between genders, utilization of herbal or alternative therapies was equal with the exception that women more often use Vitamin D and prayer.

Table 2. Use of Herbal or Alternative Therapies

	ALL n=653	Male n=282	Female n=371	p-value
Green tea or derivatives, %	60	67	55	NS
Vitamin D, %	56	49	61	p<.001
Prayer, %	36	29	41	p<.001

### Response to Prognostic Testing

Ninety-two percent of respondents report having had some type of prognostic testing, although 9% were not aware of what specific testing was performed. Two-thirds reported testing at the time, or soon after diagnosis, 33% prior to their first treatments and 7% before 2<sup>nd</sup> or later treatment [Table 3.]

Table 3. Emotions after Receiving Prognostic Testing Results

	ALL n=804	17p deletion n=121	11q deletion n=140	Unmutated n=247	Low-Risk n=544
More anxious	34%	52%	54%	54%	28%
More depressed	13%	26%	24%	17%	11%
Relieved	17%	7%	7%	7%	20%

### Clinical Trial Consideration

Table 4. Invited to Participate in Clinical Trial by Treatment Setting and Age

ALL n=1147	Tx by General Hem/Onc n=26	Tx by CLL Expert n=367	Tx by both n=354	Age <65 n=527	Age ≥65 n=620
Asked 33%	Agreed 25%	Asked 5%	Agreed 51%	Asked 43%	Agreed 32%
Asked 20%	Agreed 37%	Asked 3%	Agreed 54%	Asked 28%	Agreed 30%

Respondents that were invited but declined participation in a clinical trial, or reported that they would decline participation if asked, reported reasons such as: Preference for a proven treatment (38%), distance from the trial site (29%), fear (20%), and frequent imaging (20%).

Respondents that agreed to participate in a clinical trial cited the following reasons: My healthcare team suggested a trial as a good treatment option for me (71%), access to the latest treatments (69%), close monitoring of my CLL (67%), confidence in the trial team (65%), I wanted to help others (56%) and medications provided for free (54%).

## RESULTS (continued)

### Education

Respondents were asked to report about the format in which they received education from their healthcare team, when they received this education, their level of understanding after receiving education, whether they sought information for themselves and its impact [Tables 5-7].

Table 5. Sources of Information

	Conversation with MD	Links to CLL-specific websites	General blood cancer websites	Printed materials
ALL (n=1147)	88%	67%	55%	52%
Treated patients (n=656)	92%	70%	58%	59%
Untreated patients (n=491)	83%	64%	52%	43%</