Overview

The numerous types of non-Hodgkin lymphomas can be generally classified as being either indolent (slow-growing, low-grade) or aggressive (fast-growing, high-grade). Indolent lymphomas are generally not curable with standard therapy, but they are treatable. These are usually considered chronic diseases that may be successfully managed and may never become life-threatening in some patients. Many patients with indolent lymphomas will not initially have symptoms or problems related to their disease. In these patients, studies have shown that beginning treatment at the time of diagnosis produces similar outcomes compared with waiting to begin treatment later, when symptoms develop. For this reason, patients with indolent lymphoma that is not causing symptoms or problems will often be followed with observation (also called “watchful waiting” “watch and wait,” or “active monitoring”), with treatment beginning only when symptoms or problems start to occur.

Patients who are managed with observation may not need treatment for many years, and some will never need treatment. Reasons to begin treatment of indolent lymphoma include large or rapidly growing disease, disease causing uncomfortable symptoms, or disease injuring the body’s organs or decreasing healthy blood cells. Over the lifetime of a patient with an indolent lymphoma, the disease may need to be treated from time to time with one of the many effective treatments available, including targeted antibodies, chemotherapy, or radiation.

Transformed lymphoma occurs when an indolent lymphoma turns into a more aggressive one – for example, when follicular lymphoma transforms into diffuse large B-cell lymphoma (DLBCL) (see table). A transformation occurs when genetic changes in the indolent lymphoma cells cause them to begin growing faster and behaving more aggressively. Not all of the indolent lymphoma cells undergo transformation at once, so a patient with a transformed lymphoma will usually have a combination of indolent and aggressive (“transformed”) lymphoma cells, which can be seen both clinically and under the microscope. The physician will choose a treatment that can work for both types of lymphoma, but the goal of treating the aggressive lymphoma is to eradicate (get rid of it completely), because aggressive lymphoma that is not eradicated with treatment can become a life-threatening disease. The goal of treating indolent lymphoma is to put it into remission.

Certain risk factors increase the likelihood that an indolent lymphoma will transform. These risk factors include having bulky disease (a large tumor) or being in a high-risk group based on prognostic scoring systems such as the International Prognostic Index (IPI) and the Follicular Lymphoma International Prognostic Index (FLIPI). Still, among patients with an indolent lymphoma, the overall risk of developing a transformed lymphoma is low, with an average risk of one to three percent per year. The risk of developing a transformed lymphoma increases each year from the time of diagnosis until approximately 10 years afterwards, after which point transformations become rare. Over a lifetime, the total risk of transformation is approximately 20 percent, so the majority of patients with an indolent lymphoma will never develop a transformed lymphoma.

Many studies have shown that the risk of patients with indolent lymphoma progressing to transformed lymphoma was no different whether they were initially treated with chemotherapy or followed with observation.
Treatment for transformed lymphoma depends on the clinical circumstances of the patient. Because these are aggressive diseases, aggressive treatment regimens with chemotherapy are usually used. Common chemotherapy regimens for transformed lymphoma include R-CHOP (rituximab, cyclophosphamide, doxorubicin, vincristine, and prednisone) or DA-EPOCH-R (dose-adjusted etoposide, doxorubicin, cyclophosphamide, vincristine, prednisone, and rituximab). If aggressive chemotherapy alone fails to induce remission, then second-line treatments that may be considered include radioimmunotherapy and high-dose chemotherapy followed by stem cell transplantation. There is no single treatment for all patients with transformed lymphoma. The most appropriate treatment is selected for each patient based on the specific type of lymphoma (see table), prior therapies received, age, presence of other medical problems, and general state of health.

Treatment options are changing as new therapeutics are becoming available and current treatments are improved. Because today’s scientific research is continuously evolving, it is important that patients check with their physician or with the Lymphoma Research Foundation (LRF) for any treatment updates that may have recently emerged.

Clinical Trials
Clinical trials are crucial in identifying effective drugs and determining optimal doses for patients with lymphoma. Patients interested in participating in a clinical trial should view the Understanding Clinical Trials fact sheet on LRF’s website at www.lymphoma.org, talk to their physician, or contact the LRF Helpline for an individualized clinical trial search by calling (800) 500-9976 or emailing helpline@lymphoma.org.

Follow-up
Patients in remission should have regular visits with a physician who is familiar with their medical history and the treatments they have received. Medical tests (such as blood tests and computed tomography [CT] scans) may be required at various times during remission to evaluate the need for additional treatment.

Patients and their caregivers are encouraged to keep copies of all medical records and test results as well as information on the types, amounts, and duration of all treatments received. This documentation will be important for keeping track of any effects resulting from treatment or potential disease recurrences.

Support
A lymphoma diagnosis often triggers a range of feelings and concerns. In addition, cancer treatment can cause physical discomfort. One-to-one peer support programs, such as LRF’s Lymphoma Support Network, connects patients and caregivers with volunteers who have experience with transformed lymphoma, similar treatments, or challenges, for mutual emotional support and encouragement. You may find this useful whether you or a loved one is newly diagnosed, in treatment, or in remission.

Resources
LRF offers a wide range of resources that address treatment options, the latest research advances, and ways to cope with all aspects of lymphoma, including our award-winning mobile app. LRF also provides many educational activities, from in-person meetings to teleconferences and webcasts for people with transformed lymphoma, as well as e-Updates that provide the latest disease-specific news and treatment options. For more information about any of these resources, visit our website at www.lymphoma.org, or contact the LRF Helpline at (800) 500-9976 or helpline@lymphoma.org.