TELEMEDICINE SPECIALIZED CARE DIRECTORY

Myeloproliferative Neoplasm Edition

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Developed by Diverse Health Hub
About the MPN TelemEDucation Empowerment Resource Center

The **TelemEDucation Empowerment Resource Center** works to significantly improve MPN patients’ and caregivers’ familiarity with remote access to healthcare, and thus increase quality of care regardless of geographical location.

This one-of-a-kind resource center is intended to educate the MPN community on the practical usage of telemedicine tools, to humanize patient and provider experiences.

Noticeably, telemedicine options of virtual visits with healthcare providers, access to patient portals, and virtual translation services have resulted in improved patient care. Patients who were previously too far away or could not get enough time off from work for in-person visits can now have virtual visits, and patients who have limited English language proficiency can now easily take advantage of translation services – all leading formerly underserved patients to better care.

Now that telemedicine has broader application, we now shift to how and why to keep telemedicine in your toolbox post-COVID. We also explore the digital health landscape and mobile-optimized tools for connecting to specialized cancer care.

"I think telemedicine is here to stay, and I think it’s an important part of the care for patients with MPNs."

*Kristen Pettit, MD*
Utilizing Your MPN Telemedicine Toolbox

MPN Treatment Tools and Advancements
Expert: Kristen Pettit, MD

What Is Next Generation Sequencing for MPNs?
Expert: Kristen Pettit, MD

What Is Chronic Neutrophilic Leukemia?
Expert: Kristen Pettit, MD

Should MPN Patients and Their Families Continue Telemedicine?
Expert: Kristen Pettit, MD

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What Is the Role of Artificial Intelligence (AI) in Telemedicine for MPNs?

Expert: Kristen Pettit, MD

Understanding What ECG Monitoring Tools Mean for MPN Patients

Expert: Kristen Pettit, MD

Why Is Specialized Care Important for MPN Patients?

Expert: Kristen Pettit, MD

New Developments in MPN Care

Expert: Kristen Pettit, MD
Connecting to Specialized Care

If you are diagnosed with a myeloproliferative neoplasm (MPN), it's important to get your care from an experienced hematologist-oncologist who can work with you to create a treatment plan and coordinate your care throughout your entire treatment. Where possible, select a physician who specializes in MPNs.

Some questions to ask:

- Are they affiliated with a university or research hospital?
- Does their “bedside manner” align with your personality? Are they analytical? Compassionate?
- Do they seem interested in making you a partner in this process? Do they seem interested in what is important to you?
- What are the expected outcomes from my treatment?
- What is the prognosis of my disease?
- Am I eligible for a clinical trial?
- What support resources are available to me?

Take your time
Don’t be afraid to shop around and get second or even third opinions.
Be careful of random advice, e.g., “radiation is the best” or “eat this herb.”
For accurate information, use data on reputable websites and those that your doctor recommends.
After you have committed, trust is key, but continue to be your own advocate: ask questions, do research, and remain curious.

Source: Penn Medicine, Prostate Cancer Foundation

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The use of artificial intelligence (AI) in telemedicine is ever-expanding. In telemedicine visits, AI can provide translations for non-native English speakers, more efficient analysis of imaging and other tests, use algorithms to better predict staffing levels for improved patient care, and much more.

**What Artificial Intelligence (AI) Means for MPN Care**

The increased use of artificial intelligence translates to improved care for MPN patients. Patient health can be monitored more frequently, more time can be spent with each patient, and tests can be evaluated more accurately through analysis by both providers and AI. These benefits will result in monitoring of treatment and symptoms more often for optimal patient care.

**Future Developments for Artificial Intelligence (AI) in Telemedicine**

As artificial intelligence continues to evolve, patients are apt to see even more treatment advancements and personalized care. Quality of life should improve as MPN specialists can spend more time learning about the latest MPN treatment advancements and to focus more on patient health outcomes.

Please remember to ask your healthcare team what may be right for you.
What Do Telegenetic Consultations Mean for MPN Patients?

Telegenetic consultations are those that can be carried out via telemedicine with genetic counselors.

With the rise of genetic mutations playing a factor in cancer care and treatment decisions, it’s a natural progression for telegenetic consultations to become another option in the telemedicine tool box that protects patients from exposure to viruses and potential infections and saves them valuable time, energy, and travel costs.

What Telegenetic Consultations Mean for MPN Patients

With personalized medicine becoming an integral part of MPN patient care that analyzes genetic mutations like JAK2 mutations and MPL mutations, telegenetic consultations make sense as another part of the tools for MPN care. The future of MPN care looks brighter with these virtual care options as part of the equation.

Future Developments for Telegenetic Consultations

A form of tattoos called e-skins have now emerged as part of remote health monitoring. Used for detecting physical and electrical functions including heart, muscle, and brain activity, e-skins have shown reliability in monitoring tests even under body stress situations like sweating and while consuming spicy foods.

Please remember to ask your healthcare team what may be right for you.
Next-Generation Sequencing and MPNs

What Is the Role of Next-Generation Sequencing in MPNs?

Next-generation sequencing is a DNA analysis process that allows for sequencing of a portion of a patient’s genome.

The process allows for processing of multiple DNA sequences in parallel. Next-generation sequencing also can identify hereditary cancer mutation carriers, cancer mutations, and other things.

What Next-Generation Sequencing Means for MPN Care

Next-generation sequencing is another medical advancement that helps improve MPN patient care. By identifying cancer mutations and hereditary cancer mutation carriers, next-generation sequencing helps oncologists to further refine targeted therapies and personalized medicine – leading to optimal patient care.

As more research continues in next-generation sequencing, it’s possible that new genetic mutations will be discovered to further enhance quality of life with patient symptoms and treatment side effects.

“I think next-generation sequencing or NGS panels should be a part of the work-up for most patients with MPNs at the time of initial diagnosis, and probably again, at the time that there’s any concern for disease progression in the future.”

Kristen Pettit, MD
Resources to Find and Evaluate Doctors

**Administrators in Medicine DocFinder**
Information on licensing and disciplinary actions taken against doctors in 18 states; links to state medical boards of remaining states.

**American Board of Medical Specialties (ABMS)**
Includes a database to find doctors who are ABMS Member Board-Certified Specialists, a designation achieved through additional training and education.

**American College of Surgeons**
Information about finding surgeons who are board-certified as well as information about surgical specialties. Includes database of member surgeons.

**American Medical Association DoctorFinder**
Education, board certification, and hospital admitting privileges for doctors who belong to the AMA.

**American Society of Clinical Oncology (ASCO) Cancer.Net**
Oncologist-approved cancer information from the American Society of Clinical Oncology (ASCO) can be found on the site Cancer.Net. This site includes a “Find an Oncologist” tool with tips on choosing a doctor and a database of oncologists.

**Medicare Physician and Other Healthcare Professional Directory**
Provider profiles including specialties, practicing locations, and phone numbers. Other information may also include education, gender, residency, foreign languages spoken, and hospital affiliation.

**PV Reporter**
Vetted list of MPN specialists in the United States.

Source: Prostate Cancer Foundation
MPN Resources

National Cancer Institute (NCI) designated comprehensive centers and renowned treatment centers.

UAB Comprehensive Cancer Center
1824 Six Avenue South; Birmingham Alabama

Arizona Cancer Center
515 North Campbell Avenue; Tuscon Arizona

Chao Family Comprehensive Cancer Center
University of California Irvine
101 The City Drive
Building 56, Rt. 81. Room 216L; Orange, California

City of Hope Duarte
Comprehensive Cancer Center
1500 East Duarte Road; Duarte, California

Salk Institute Cancer Center
10010 North Torrey Pines Rd.
La Jolla, California

Sanford Burnham Prebys Medical Discovery Institute
10901 North Torrey Pines Rd
La Jolla, California

Stanford Cancer Institute
Stanford University
Lorry Lokey Stem Cell Building; 265 Campus Drive
Suite G2103; Palo Alto, California

UC Davis Comprehensive Cancer Center
University of California
Davis 4501 X Street Suite 3003; Sacramento, California

UC San Diego Moores Cancer Center
University of California at San Diego
3855 Health Sciences Drive; La Jolla, California

UCLA Jonsson Comprehensive Cancer Center
University of California
8-684 Factor Building, 10833 Le Conte Avenue
Los Angeles, California

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UCSF Helen Diller Family
Comprehensive Cancer Center University of California at San Francisco
1450 3rd Street Box 0128; San Francisco, California

USC Norris Comprehensive Cancer Center
University of Southern California
1441 Eastlake Avenue; Los Angeles, California

University of Colorado Cancer Center
13001 East 17th Place
Aurora, Colorado

Yale Cancer Center
Yale University School of Medicine
333 Cedar St.; New Haven, Connecticut

Georgetown Lombardi Comprehensive Cancer Center
Georgetown University
3970 Reservoir Road, NW; Washington, District of Columbia

Moffit Cancer Center
12902 Magnolia Drive
Tampa, Florida

Winship Cancer Institute
Emory University
1365C Clifton Rd; Atlanta, Georgia

University of Hawai‘i Cancer Center
701 Italo St.
Honolulu, Hawaii

Robert H. Lurie Comprehensive Cancer Center
Northwestern University
303 East Superior Street; Chicago, Illinois

The University of Chicago
5841 South Maryland Avenue; Chicago, Illinois
Indiana University Melvin and Bren Simon Cancer Center  
535 Barnhill Dr.  
Indianapolis, Indiana

Purdue University Center for Cancer Research  
Hansen Life Sciences Research Building  
201 South University St.; West Lafayette, Indiana

Holden Comprehensive Cancer Center  
University of Iowa  
200 Hawkins Drive; Iowa City, Iowa

The University of Kansas Cancer Center  
University of Kansas  
3901 Rainbow Blvd; Kansas City, Kansas

Markey Cancer Center  
University of Kentucky  
800 Rose St.; Lexington, Kentucky

The Jackson Laboratory Cancer Center  
600 Main St.  
Bar Harbor, Maine

Sidney Kimmel Comprehensive Cancer Center  
Johns Hopkins University  
401 North Broadway; Baltimore, Maryland

University of Maryland Marlene and Stewart Greenbaum Comprehensive Cancer Center  
University of Maryland  
22 South Greene Street; Baltimore, Maryland

Dana-Farber/Harvard Cancer Center  
450 Brookline Avenue  
Boston, Massachusetts

David H. Koch Institute for Integrative Cancer Research at MIT  
Massachusetts Institute of Technology  
77 Massachusetts Ave; Cambridge, Massachusetts
The Barbara Ann Karmanos Cancer Institute
Wayne State University School of Medicine
4100 John R St.; Detroit, Michigan

University of Michigan Comprehensive Cancer Center
University of Michigan
1500 East Medical Center Drive; Ann Arbor, Michigan

Masonic Cancer Center
University of Minnesota
420 Delaware Street, S.E.; Minneapolis, Minnesota

Mayo Clinic Cancer Center
200 First Street SW
Rochester, Minnesota

Alvin J. Siteman Cancer Center
Washington University School of Medicine and Barnes-Jewish Hospital
660 South Euclid Avenue Campus; St Louis, Missouri

Fred and Pamela Buffett Cancer Center
University of Nebraska Medical Center
985950 Nebraska Medical Center; Omaha, Nebraska

Norris Cotton Cancer Center at Dartmouth
Dartmouth-Hitchcock Medical Center
One Medical Center Drive; Lebanon, New Hampshire

Rutgers Cancer Institute of New Jersey
Rutgers Biomedical and Health Sciences
195 Little Albany Street; New Brunswick, New Jersey

University of New Mexico Cancer Center
1201 Camino de Salud NE
Albuquerque, New Mexico

Albert Einstein Cancer Center
1300 Morris Park Avenue
Bronx, New York

The Barbara Ann Karmanos Cancer Institute
Wayne State University School of Medicine
4100 John R St.; Detroit, Michigan
Cold Spring Harbor Laboratory Cancer Center
1 Bungtown Road
Cold Springs Harbor, New York

Herbert Irving Comprehensive Cancer Center
Columbia University
1130 St Nicholas Avenue, Room 508; New York, New York

Memorial Sloan-Kettering Cancer Center
1275 York Avenue
New York, New York

Roswell Park Cancer Institute
Elm & Carlton Streets
Buffalo, New York

The Tisch Cancer Institute Mount Sinai
One Gustave L. Levy Place Icahn Building
New York, New York

Duke Cancer Institute
Duke University Medical Center
Box 2714 2424 Erwin Road; Durham, North Carolina

The Comprehensive Cancer Center of Wake Forest University
Medical Center Boulevard
Winston-Salem, North Carolina

UNC Lineberger Comprehensive Cancer Center
450 West Drive CB 7295
Chapel Hill, North Carolina

Case Comprehensive Cancer Center
Case Western Reserve University
11100 Euclid Avenue, Wearn 151; Cleveland, Ohio

The Ohio State University Comprehensive Cancer Center
James Cancer Hospital and Solove Research Institute
460 West 10th Avenue; Columbus, Ohio
Knight Cancer Institute
Oregon Health and Science University
3181 S.W. Sam Jackson Park Rd; Portland, Oregon

Abramson Cancer Center
University of Pennsylvania
3400 Spruce Street; Philadelphia, Pennsylvania

Fox Chase Cancer Center
333 Coltman Avenue
Philadelphia, Pennsylvania

Sidney Kimmel Cancer Center at Thomas Jefferson University
233 South 10th Street
Philadelphia, Pennsylvania

The Wistar Institute Cancer Center
3601 Spruce Street
Philadelphia, Pennsylvania

UPMC Hillman Cancer Center
5150 Centre Avenue
Pittsburgh, Pennsylvania

Hollings Cancer Center
Medical University of South Carolina
86 Jonathan Lucas Street; Charleston, South Carolina

St Jude Children’s Research Hospital
262 Danny Thomas Place
Memphis, Tennessee

Vanderbilt-Ingram Cancer Center
691 Preston Research Building
Nashville, Tennessee

Cancer Therapy & Research Center
University of Texas Health Science Center
7979 Wurzbach Road; San Antonio, Texas
Dan L Duncan Comprehensive Cancer Center
Baylor College of Medicine
One Baylor Plaza; Houston, Texas

Harold C. Simmons Comprehensive Cancer Center
University of Texas Southwestern Medical Center
2201 Inwood Road; Dallas, Texas

The University of Texas MD Anderson Cancer Center
1515 Holcombe Boulevard, Unit 91
Houston, Texas

Huntsman Cancer Institute
University of Utah
2000 Circle of Hope; Salt Lake City, Utah

Massey Cancer Center
Virginia Commonwealth University
401 College Street; Richmond, Virginia

University of Virginia Cancer Center
6171 West Complex
Charlottesville, Virginia

Fred Hutchinson/University of Washington Cancer Consortium
1100 Fairview Ave N
Seattle, Washington

University of Wisconsin Carbone Cancer Center
1111 Highland Avenue, Rm. 7057
Madison, Wisconsin