From Terminal Cancer to 30 Year Survivor

Mel Mann

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Chronic Myeloid Leukemia (CML)

A rare, slowly progressing and uncommon type of blood-cell cancer that starts with a change (mutation) with a single cell in the bone marrow.

Signs and Symptoms:

Joint or bone pain	**Fatigue**	**Excessive sweating during sleep**	**Pain or fullness below your ribs on the left side (Spleen)**	**Painless lumps in your armpits, groin, neck, or belly**

Incidence, Causes, Stages, & Diagnostic Lab Tests

Average Age at diagnosis: 64 years

Rare: 8,800 cases in US & 35,000 cases globally annually. Potential problem for investment in research.

Cause: Unknown

Phases:

- **Chronic Phase (CP):** Increased number of WBC but less than 10% of blasts in peripheral blood or bone marrow
- **Accelerated Phase (AP):** Blasts 10-19%
- **Blast Phase (BP):** Blasts greater than or equal to 20%

Diagnostic Lab Tests

- **Blood Tests**: CBC, Blood cell examination (Peripheral Blood Smear) under microscope
- **Marrow Aspiration and Biopsy**: check for abnormalities. (Cytogenetic)
- **PCR:** Most sensitive test.

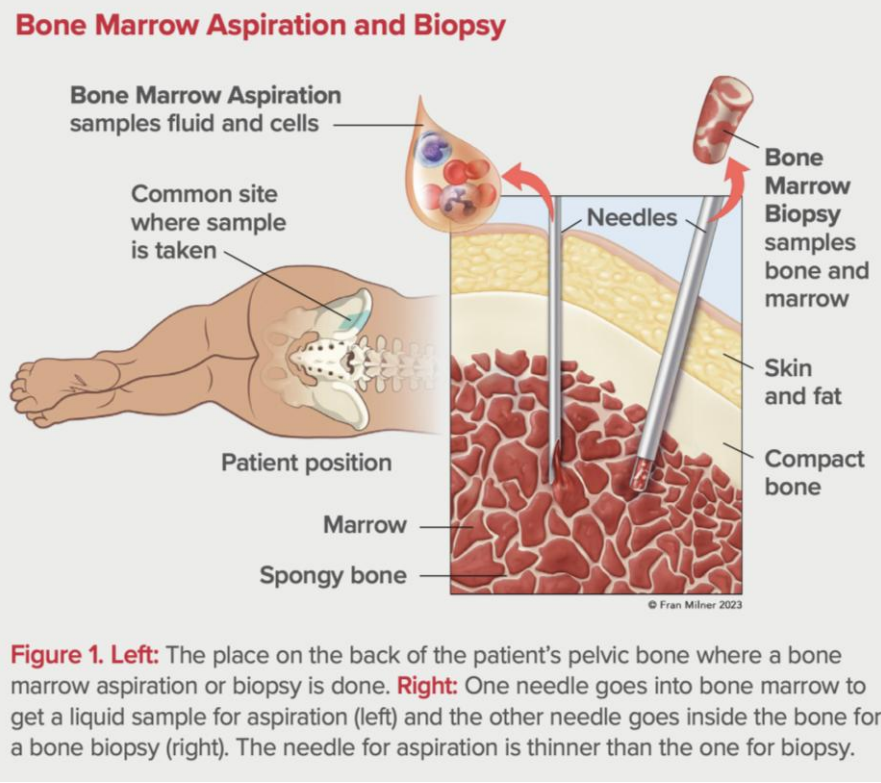

Figure 1. Left: The place on the back of the patient's pelvic bone where a bone marrow aspiration or biopsy is done. **Right:** One needle goes into bone marrow to get a liquid sample for aspiration (left) and the other needle goes inside the bone for a bone biopsy (right). The needle for aspiration is thinner than the one for biopsy.


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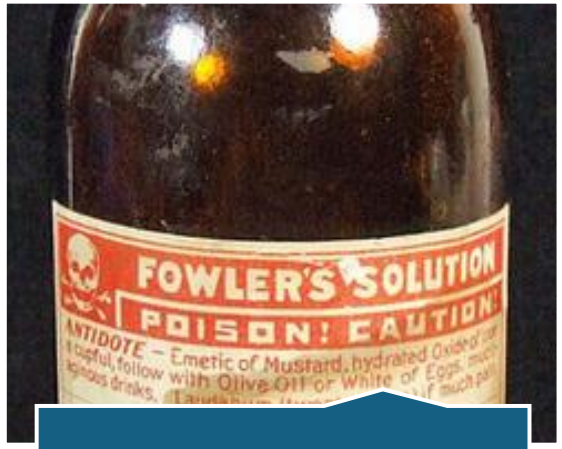
Patrice

CML Therapy Timeline at Time of Mel's Diagnosis



1865 -- *Fowler's Solution*

1953 -- *Busulfan*

***1964 -- Hydroxyurea* does not reduce Philadelphia chromosome**

1969 *Cytarabine (ARA-C)* does not reduce Philadelphia chromosome

1978 -- ***Allogenic BMT*: Possible cure, but highly dangerous**

1986 -- Interferon: Reduces Philadelphia chromosome in 15-20 percent of patients

NATIONAL MARROW DONOR PROGRAM

SOLDIER IN URGENT NEED OF A MARROW DONOR!

Melvin has dreams for a successful career in the US Army. Those dreams as well as his life may soon end if a marrow donor cannot be found. He has CML, a type of Leukemia. His best hope for a match would be someone of African American heritage. All it takes is a simple blood test to tell if you can help. Please register to give the "Gift of Life!"


MELVIN MANN
NEEDS BONE MARROW


National Marrow
Donor Program
1-800-MARROW-2
10:24

Gratitude for donors is fe

Thanks mostly to the military, Cumberland County goes down in the record books. Fort Bragg and the Fayetteville area held the nation's most successful bone marrow drive.

More than 10,000 people — 9,000 of them from the Army and Air Force, or their dependents — had blood samples taken to see whether they might be a match for someone whose life needs saving. It's not the record-breaking number that's so important, but that every person who shows up increases the odds that lives will be saved.


The fight of a lifetime


Retired major needs bone marrow transplant

Former TRADOC officer fights for life


man on mission not to give up


MARROW DONOR NEEDED NOW!


Michigan man searching for marrow donor

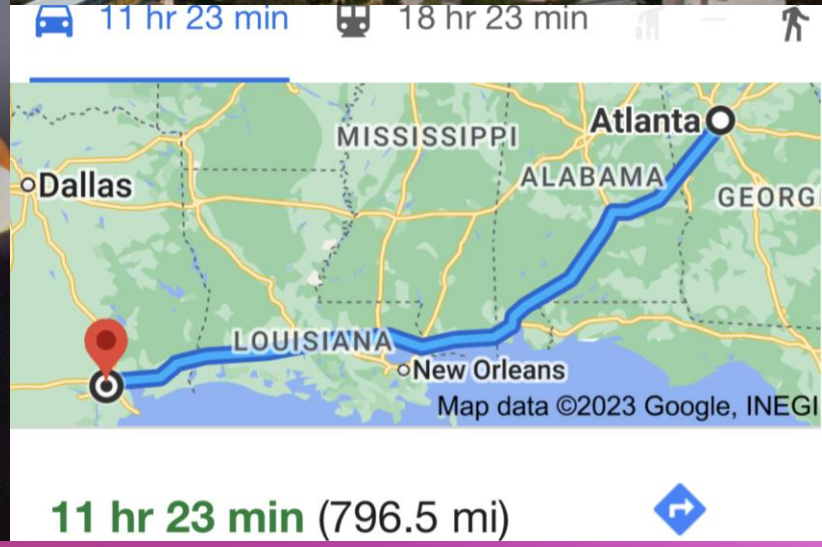

TO MRS.DEMMING AND MR.MANN WE, THE STAFF AND ALL MEMBERS OF SOUTH COLUMBUS BOYS CLUB,


Soldier stricken with leukemia needs donor


Major sees hope in Pentagon drive


Paraglide

Life saving marrow donors sought



Travel Distance from Atlanta to the Clinical Trial Site

3 Sites -- Oregon, Texas, California and the Major Contributors

OHSU KNIGHT CANCER Institute

Dr. Brian Druker, MD
Lead Investigator

Dr. Nicholas Lydon
Ciba-Geigy (Novartis) – Developed Imatinib

THE UNIVERSITY OF TEXAS MD Anderson Cancer Center
Making Cancer History®

Dr. Moshe Talpaz, MD

DAVID GEFFEN SCHOOL OF MEDICINE UCLA

Dr. Charles Sawyers, MD

26.2-Mile Marathon, Anchorage Alaska, June 1999

111 Mile Bike Ride, Tucson Arizona, November 1999

Mel's Story

Mel Mann (left) was diagnosed with chronic myeloid leukemia and was running out of time when he enrolled in a clinical trial studying Gleevec, a targeted therapy developed by Dr. Brian Druker (right).

Credit: National Cancer Institute

Gleevec (Imatinib) approved by FDA May 2001

Tyrosine Kinase Inhibitors (TKIs)For CML Treatment

(CML TKIs are taken orally)

Imatinib
1st Generation
FDA Approved 2001

Dasatinib
2nd Generation
FDA Approved 2006

Nilotinib
2nd Generation
FDA Approved 2007

Bosutinib
3rd Generation
FDA Approved 2013

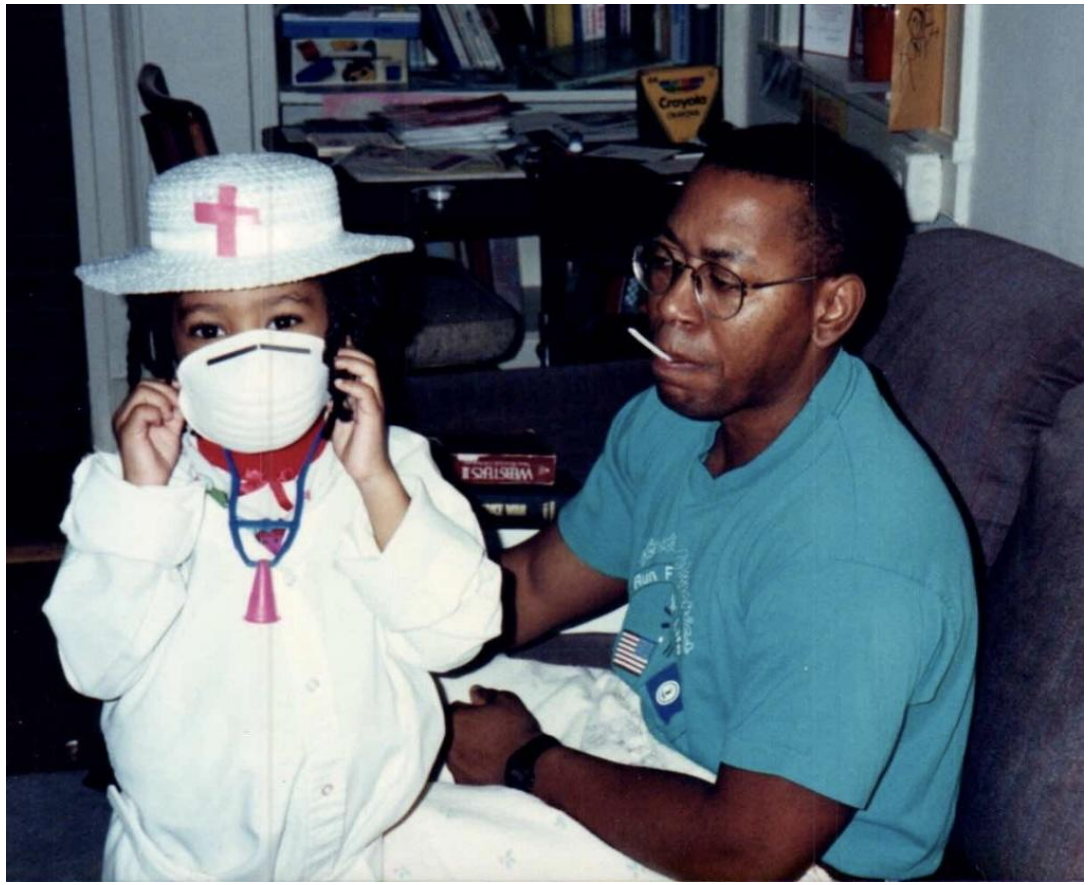
Ponatinib
3rd Generation
T325I Mutation
FDA Approved 2012

Asciminib
3rd Generation
T315 Mutation
FDA Approved 2021

Neoplasms
Atopic dermatitis
Rheumatoid Arthritis
Psoriasis
Alopecia Areata
Ulcerative Colitis
HER2 – Positive Breast Cancer
Metastatic Colorectal Cancer
Myelofibrosis
Mantle Cell Lymphoma
Chronic Lymphocytic Leukemia
ROS1- Positive Lung Cancer

There are 80 FDA kinase inhibitors and seven of these drugs were approved in 2023. Here is a list of some of the diseases they treat.

- *Colon Cancer*
- *Kidney Cancer*
- *Melanoma*
- *Chronic Myeloid Leukemia*
- *Head and Neck Cancer*
- *Macular Degeneration*
- *Hepatocellular Carcinoma*
- *Pancreatic Cancer*
- *Thyroid Cancer*
- *Gastrointestinal Stromal Tumors*
- *Alopecia Areata*



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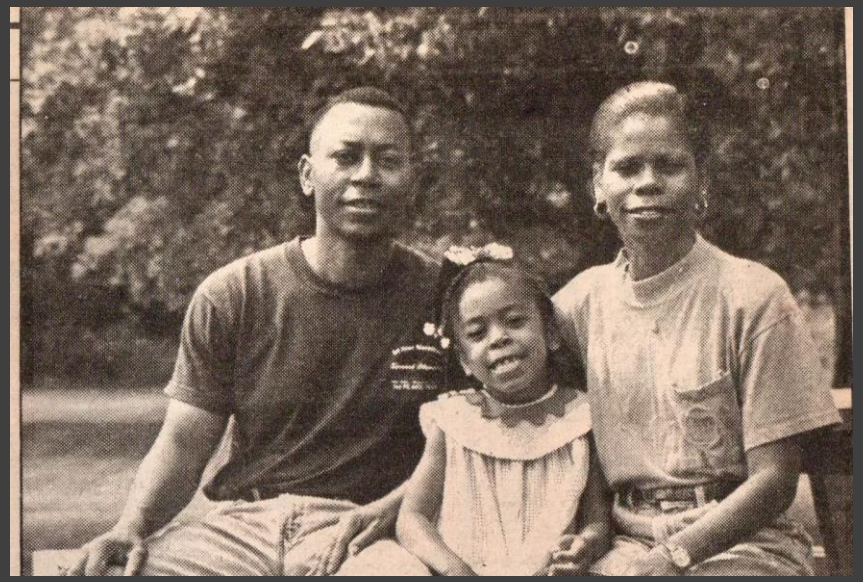
Mel Mann with his daughter Patrice when she graduated from Emory University with a medical degree. She was 5 when he was diagnosed with chronic myeloid leukemia and he worried he wouldn't have the chance to watch her grow up.

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