

# Therapeutics of metal based Ayurvedic Formulations in The Treatment of Acute Leukemia

- **Rasa-Chikista**  
*The dying wisdom...*
- **A historical prospective**  
*from*  
**Buddha period (6<sup>th</sup> to 5<sup>th</sup> B.C)..... Golden era**  
*till date*  
**Powerful stimulus of western medicine.....**



# Rasa-Shastra

- Specialized Branch of *Ayurveda*
- Mercury Synonym of *Rasa*
- Gold, Silver, Copper, Iron, Tin, Lead & Zinc
- Substances of Mineral, Plant & Animal Origin
- Moderate to Severely Toxic in Raw Form
- **Tedious Method of Preparation**

# End Product

- Varitar
- Rekhapurita
- Apunarbhava
- Unam
- Non Toxic & Therapeutic

**Classical Parameters**

# **MBAT as main therapy for Acute Leukemia**

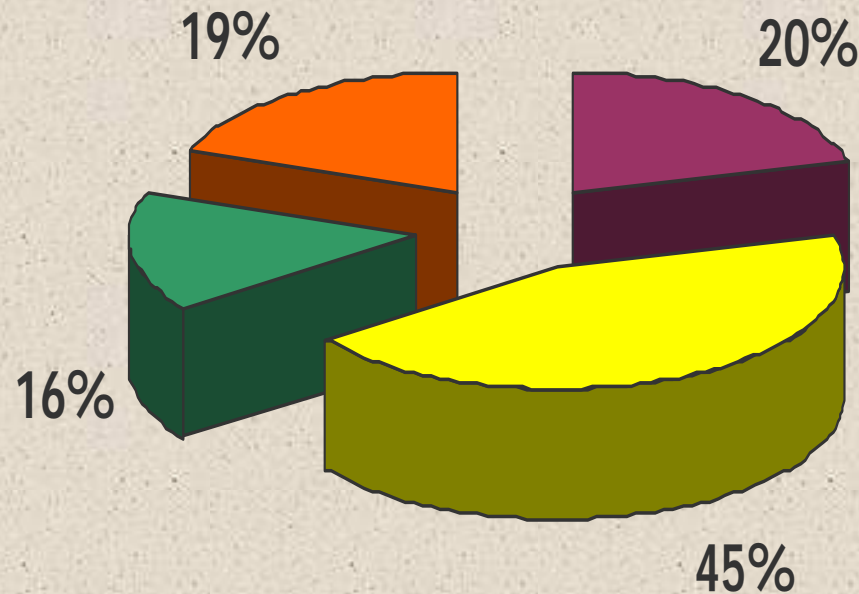
- **SS/10/M, APML, De novo, JNU-Aligarh, AIIMS-Delhi, December 1982, DCR -25 years**
  - **RK/14days/M, AML-Mo, De novo, Moolchand Hospital, AIIMS- Delhi, 1985, DCR- 22 years**
- **IB/6/M, ALL, Relapsed post autographed, The Royal Marsden Hospital, London, July 1986, DCR > 19 years, Died in car accident in July 2005.**
  - **AK/2/M, AML-M7, De novo, Great Ormond Street, London, July 1987, DCR - 20 years**
- **DS/14/M, APML, De novo, PGI Chandigarh, November 1987, DCR- 20 years**
  - **VD/7/M, ALL, PR after 1<sup>st</sup> relapse, Defaulter, Rajiv Gandhi Cancer Institute & Research Centre, Delhi, February 2001, DCR-7 years**

## **Continued.....**

- **KP/5M, ALL, PR after 1<sup>st</sup> relapse, Defaulter, TMH, Mumbai, February, 1998, DCR-9½ years**
- **HS/4½/F, ALL, PR, Defaulter, Dr. Jayakumar Medical College, Kottayam, February, 1999, DCR-8½ years**
- **BRS/2½/M, ALL, PR, Defaulter, TMH, Mumbai, October 2000, DCR-7 years**
- **S/3½/M, ALL-L1, PR, Defaulter, Army Hospital, Delhi, June 2001, DCR-6 years**
- **SK/4/F, ALL-L2, PR, Defaulter, Sir Ganga Ram Hospital, Rajiv Gandhi Cancer Institute & Research Centre, Delhi, TMH, Mumbai August 2003, DCR-4 years**
- **PY/9/M, ALL, PR, Defaulter, Apollo Hospital, Delhi, November 2003, DCR-4 years**

# MBAT as main treatment for Acute Promyelocytic Leukemia

December 1982 – July 2008 (n=84)

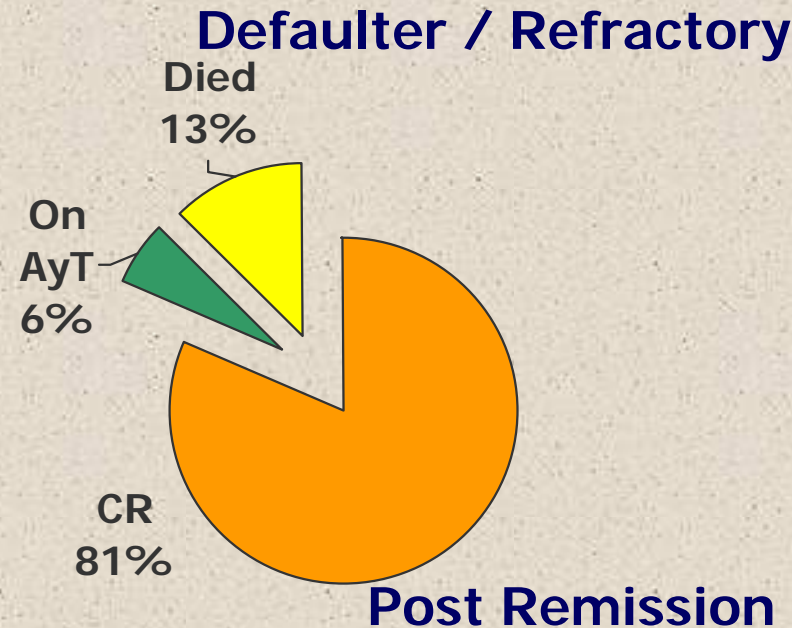
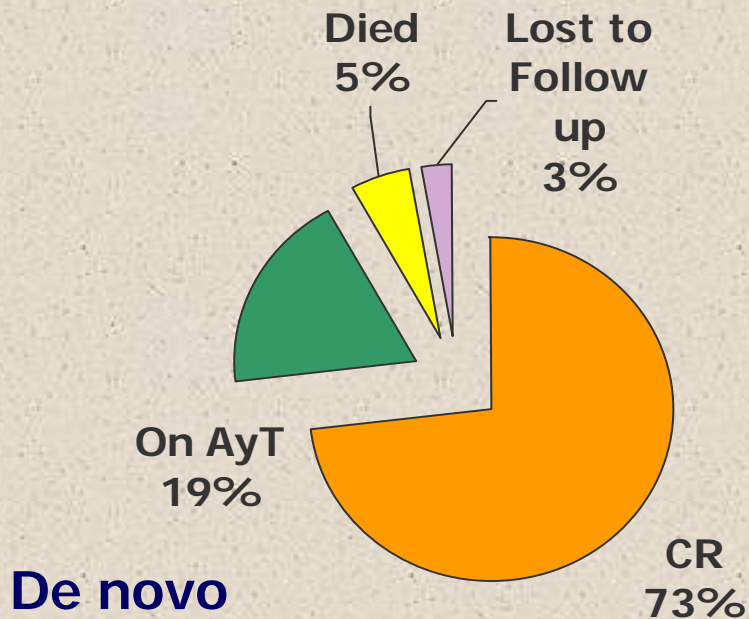
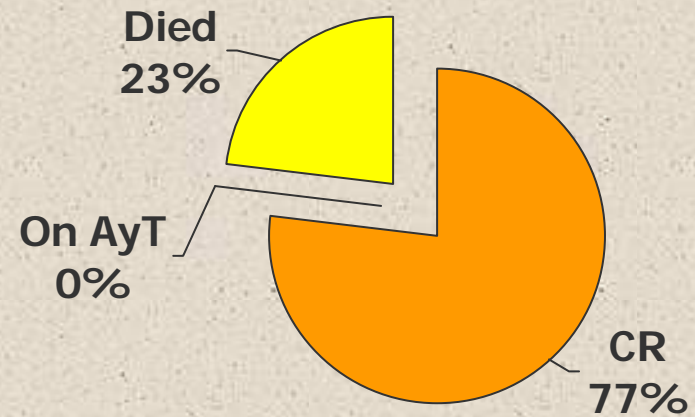
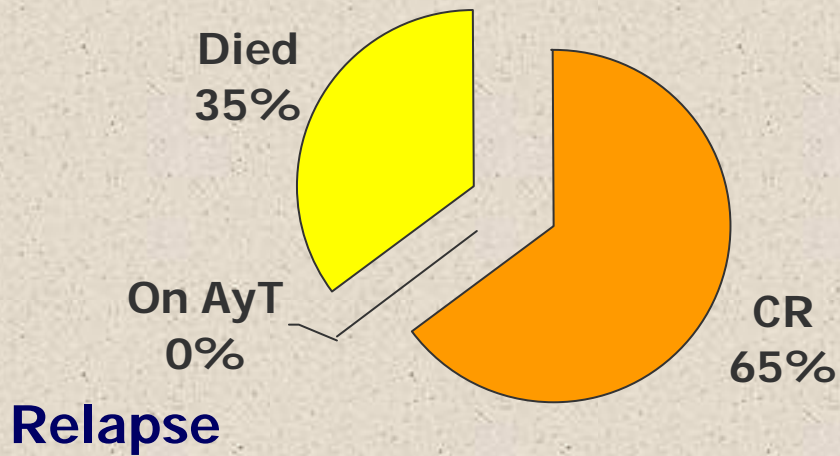


■ Relapse ■ De novo ■ Refractory / Defaulter ■ Post Remission

# AYT & Consolidated Data on APML

(n=84)

December 1982 – July 2008



# Scientific Recognition of MBAT

- *A European & US patent has been obtained through National Research Development Corporation, a Government of India enterprises in lieu of the findings of the treatment of Acute Pro-myelocytic Leukemia. F. No. 5-8/83-Vol.V/CCRAS/ Tech./Hqs*
- Monograph on “Effect on Metal based Ayurvedic Formulations in the patients of Acute Promyelocytic Leukemia (APML)” by CCRAS, MoH & FW, Government of India

## **Scientific recognition**

- **Membership- Program Advisory Committee, National Care Control Programme, Ministry of Health & Family Welfare, Government of India, Delhi**
- **Membership- Indian Council of Oncology Network, Mumbai**

# Current Scenario

- MBAT for Acute Leukemia is available at Mumbai, Jaipur, Bangalore, Dehradun and Pune through proficiently trained Ayurvedic physicians
- Product development in partnership with Ipca Laboratories Limited, Mumbai.
- Safety studies on animals at Bombay College of Pharmacy, Mumbai

# Our Strengths



# Key Benefits

- Service to the society
- Promotion of evidence based therapeutic ayurveda

# Thank You

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