

COMPLEXITIES OF ITP: A PERSPECTIVE FROM TAIWAN

DR Chia Jen Liu, Chair of the Myeloma Working Group of the Taiwan Hematology Society, Taipei, delivered an insightful lecture on the complexities of Immune Thrombocytopenia (ITP), addressing the first-ever joint ISHBT-Asian Joint Symposium at Haematocon-2025 on a virtual platform on November 7.

Dwelling on 'Beyond platelet counts: Evolving paradigms in the treatment of immune thrombocytopenia' Dr Liu highlighted key research questions that continue to shape the understanding of ITP, including why antiplatelet antibodies develop, why the disease becomes more difficult to treat over time, and why most childhood ITP resolves while adult ITP tends to become chronic.

He also emphasized the need to explore the signaling pathways and cellular transcriptomic profiles that define different ITP subtypes and to investigate whether plasma cells play



a role in treatment-refractory cases.

Outlining treatment strategies, Dr Liu stressed the importance of assessing bleeding risk, platelet levels, and comorbidities before initiating therapy.

Management, he said, must be individualized based on symptoms, lifestyle, and patient preferences, with continuous monitoring of plate-

let counts and bleeding symptoms. Corticosteroids remain the first-line therapy but are poorly tolerated and non-curative; prolonged use should be avoided.

For second-line and advanced stages, thrombopoietin receptor agonists (TPO-RAs) are now preferred over rituximab due to their long-term efficacy and positive impact on quality

of life.

While splenectomy remains an effective option, it should be deferred for at least 12 months. Emerging agents such as fostamatinib, rilzabrutinib, efgartigimod, rozanolixizumab, sutimlimab, and daratumumab show promise in refractory ITP.

Dr Liu underscored evolving concepts favouring early initiation of TPO-RAs to prevent chronicity and aiming for durable remission rather than temporary platelet rise. He concluded that while current therapies enhance response rates, no curative strategy exists highlighting the need to focus on remission induction and immunologic restoration guided by patient values and quality of life.

Tuphan Kanti Dolai, ISHBT Secretary, and Prof RK Jena, Secretary Indian College of Hematology Secretary moderated the session. Prof Jena said the Asian camaraderie on addressing hematological challenges would continue in all annual Haematocons.

The Indian approach to diagnosis, treatment and management of ITP



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IMMUNE thrombocytopenia (ITP) is an acquired autoimmune disorder characterized by accelerated platelet destruction and impaired platelet production and often presents with cutaneous bleed and rarely with life-threatening bleeding. While its pathophysiology and treatment principles are well established globally, the Indian scenario presents distinctive epidemiological, diagnostic, and management challenges shaped by resource constraints, infection burden, and socio-economic diversity.

Understanding ITP through an Indian lens highlights both remarkable progress and persisting gaps in research, access, and awareness. In India, ITP occurs across all age groups, with pediatric cases commonly following viral infections and adult cases often presenting as chronic immune-mediated disorders. However, precise national incidence data remain limited due to the absence of centralized registries.

The diagnostic process in Indian centers often remains simplified, relying heavily on platelet count rather than structured bleeding assessment or advanced tests such as anti-platelet antibody assays, flow cytometry, or thrombopoietin measurement. In tertiary hospitals, platelet function evaluation through viscoelastic tests such as Sonoclot analysis has revealed

that bleeding severity in ITP often correlates poorly with platelet count, emphasizing qualitative dysfunction as an important determinant—a finding validated in recent Indian studies. Yet, such functional assays are largely unavailable outside academic institutions.

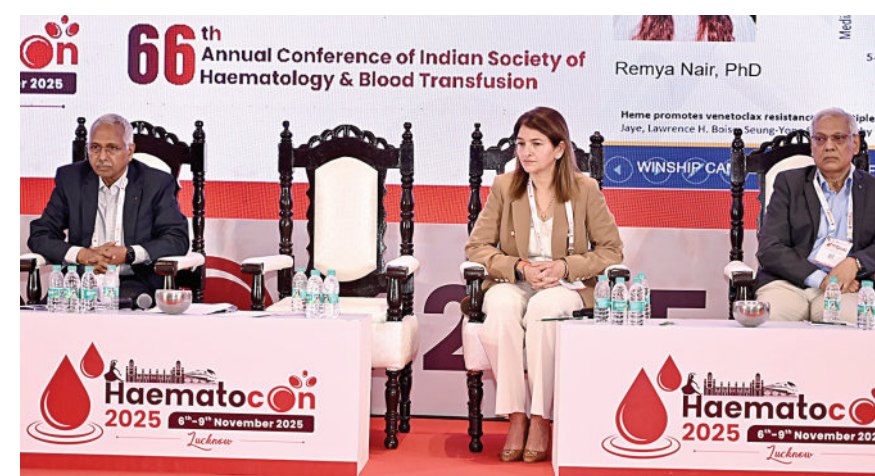
Treatment practices in India exhibit wide heterogeneity. Corticosteroids remain the mainstay first-line therapy, but the choice, dosing, and tapering regimens differ across physicians. High-dose dexamethasone, short courses of methylprednisolone, and oral prednisolone tapers are used variably, with limited adherence to uniform protocols. Intravenous immunoglobulin and anti-D immunoglobulin are restricted to critical cases due to cost. Second-line options such as rituximab and thrombopoietin receptor agonists (eltrombopag, romiplostim) are increasingly available, particularly in metropolitan and military tertiary centers, but high cost and limited reimbursement impede equitable access. Dapsone and azathioprine continue to be popular, inexpensive steroid-sparing alternatives in India, despite variable efficacy data. Splenectomy, once a common definitive option, has seen declining preference due to infection risks and availability of medical alternatives.

The Indian perspective of ITP is one of contrasts between tertiary excellence and peripheral limitations, modern therapeutics and financial inaccessibility, global guidelines and local realities. Moving forward, national registries, standardized treatment algorithms, and cost-effective monitoring strategies are essential.

Understanding ITP through an Indian lens highlights both remarkable progress and persisting gaps in research, access, and awareness. In India, ITP occurs across all age groups



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DR JG PAREKH ORATION

Role of morphology in diagnosing MPNs



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MYELOPROLIFERATIVE neoplasms (MPNs) are clonal proliferations arising from a single mutated stem cell that produces clonal hematopoietic stem cells. The mutations initiating this proliferation-JAK2, CAL-R, and MPL—are termed driver mutations. These mutations trigger disease initiation but do not affect myeloid cell maturation. As a result, mature red cell production causes Polycythemia Vera (PV); white cell proliferation causes Primary Myelofibrosis (PMF); and platelet proliferation results in Essential Thrombocythemia (ET).

The distribution of mutations varies: JAK2 mutation is present in nearly all PV cases, whereas CAL-R and MPL mutations are absent. Conversely, JAK2, CAL-R, and MPL mutations are found in PMF and ET. A single JAK2 mutation may give rise to PV, ET, or PMF, the latter having the worst prognosis and ET the best. Additional mutations such as TET2, IDH1/2, TP53, and ASXL1 contribute to disease progression to myelofibrosis or a blastic phase (AML). Thus, MPNs are now considered multi-mutation diseases.

Phenotype of the disease whether ET/PV or PMF will manifest depends upon the allele burden and homozy-

gous/heterozygous mutations e.g., if JAK2 mutations are predominantly homozygous and allele burden is high, then phenotype is PMF and if the JAK2 mutation is predominantly heterozygous with low allele burden then the phenotype is ET.

In such a situation, it is very important to diagnose a MPN and accordingly treatment is to be instituted. The diagnosis is made out on the basis of morphology of peripheral smear, bone marrow aspirate and bone marrow biopsy morphology.

WHO 2017 and 2022 have outlined the diagnostic criteria for various MPNs, emphasizing megakaryocyte morphology and reticulin assessment. In ET, bone marrow cellularity is normal or mildly hypercellular, with normal myelopoiesis and erythropoiesis. Megakaryocytes appear in loose clusters, giant

in size with staghorn nuclei. In PV, marrow is hypercellular with panmyelosis and pleomorphic megakaryocytes. Erythroid hyperplasia is marked, and some cases progress to post-polycythemic myelofibrosis or AML. PMF shows progressive stages—prefibrotic, fibrotic, osteomyelofibrosis, accelerated, and blastic phases - and must be differentiated from secondary marrow fibrosis, post-PV MF, and MDS.

Since PMF carries the worst prognosis, accurate morphological diagnosis is essential. Despite molecular advances, morphology remains the backbone of MPN diagnosis.

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DEALING WITH ARTERIAL THROMBOSIS IN INDIA

ARTERIAL thrombosis, is a significant cause of morbidity and mortality worldwide. While commonly associated with older adults and atherosclerosis, arterial thrombosis in young adults (<45 years) poses unique challenges. It often arises from diverse causes beyond traditional cardiovascular risk factors, demanding a focused diagnostic and management approach.

Young adults with arterial thrombosis may present with acute ischemic events such as stroke, myocardial infarction, or limb ischemia. Unlike older populations, many lack typi-



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cal risk factors like hypertension or diabetes. Instead, "unconventional" causes such as inherited or acquired hypercoagulable states, autoimmune conditions (e.g., antiphospholipid syndrome), vasculitis, or paradoxical embolism through cardiac defects often predominate.

Diagnosis begins with clinical evaluation and imaging to localize and quantify arterial obstruction. A com-

prehensive procoagulant workup is vital in young patients with unexplained arterial thrombosis. This includes screening for inherited thrombophilias (Factor V Leiden, prothrombin gene mutation), acquired conditions (antiphospholipid antibodies, lupus anticoagulant), deficiencies of anticoagulant proteins (protein C, protein S, antithrombin), paroxysmal nocturnal hemoglobinuria, and myeloproliferative neoplasms. Cardiac evaluation for sources of embolism and vascular imaging for vasculitis are also essential.

Management targets both the acute event and underlying cause. Acute arterial thrombosis often requires

emergent revascularization via thrombolysis or surgical intervention. Long-term therapy is guided by etiology. Antiplatelet agents form the backbone of treatment for atherosclerotic thrombosis, while anticoagulation is preferred in thrombophilia or embolic situations. Immunosuppressants may be necessary in vasculitis or autoimmune diseases.

Lifestyle modification addressing modifiable risk factors such as smoking remains important even in young adults. Multidisciplinary care optimizing secondary prevention and managing complications is crucial to improve outcomes.

ADVANCES IN CELL THERAPY: POTENTIAL APPLICATIONS

IMMUNE deficiency state can be congenital due to one or more elements of immune system missing or secondary to iatrogenic causes such as chemo and or radiation therapy for the treatment of cancer, autoimmune diseases and infections. Immune deficiency can also be seen in individuals of extreme age such as neonates or elderly individuals. Fatality in any of these patient population are either due to infections, cancer or hyper-immune reactive disease.

In 1968 the 1st successful allogeneic bone marrow transplant (HSCT) from a histo-compatible donor in a SCID baby proved that this procedure is a curative therapy for severe combined



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immune deficiency. Since then, HSCT has been successfully applied for the treatment of many malignant and non-malignant diseases. Today potentially every individual who is a candidate for the transplant, has a donor.

The field of stem cell transplantation is at the state of maturity that now it is not how to do the procedure of transplantation, but how to do it safely and effectively. To accomplish that, the disease must be defined at cellular, molecular and genomic level. On basis

of type and the status of the disease, conditioning regimen are being tailored. Myeloablation is still standard conditioning but with modification to have reduced toxicity. Pharma-kinetics guidance of each one of the agent is being used, provides safety and efficacy of conditioning regimen for transplantation. Modification of the graft, whether T depletion from PBSC/ bone marrow or enhancing the cell dose of the cord blood by having product expanded in vitro does affect engraftment, graft versus host disease, immunological and hematological recovery. Advances in the supportive care has allowed us to prevent or effectively treat complications like sinusoidal obstructive syndrome. Availability

of various antimicrobial agents has spared us from acute morbidity and mortality associated with infections. Being able to give specific antibody products to provide passive immunity like Pemivibart for pre exposure COVID prophylaxis in peri transplant period. From standard stem cell transplant, cell therapy has embarked on gene therapy and gene editing. In last three decades the gene therapy had its own challenges. However now with the use of self-inactivating lentiviral vector, has made the procedure safer with promising results. Still longer follow up is needed to determine the persistence of corrected gene and insertional mutagenesis.

Frontline treatment options in adult high-risk MDS in 2025



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MYELODYSPLASTIC syndromes (MDS) are a heterogeneous group of clonal myeloid disorders characterized by ineffective hematopoiesis, cytopenias, and a risk of progression to acute myeloid leukemia (AML). Patients are stratified into prognostic risk groups to guide therapy. High-risk MDS generally refers to cases with a higher likelihood of leukemic transformation and shorter survival. Accurate risk stratification is critical in identifying high-risk MDS patients. The Revised International Prognostic Scoring System (IPSS-R) is commonly used. The newer molecular IPSS (IPSS-M) incorporates somatic mutations into risk stratification, further refining prognosis.

The DNA hypomethylating agents are the cornerstone of frontline therapy for high-risk MDS. Azacitidine and decitabine are widely used and are the only non-transplant therapies approved for high-risk disease. Azacitidine has demonstrated a significant survival benefit in high-risk MDS (median overall survival ~24 vs 15 months compared to conventional care). Decitabine is an alternative HMA that produces comparable response rates; trial showed a survival benefit in high-risk patients (12.0 vs 6.8 months vs supportive care). Allogeneic hematopoietic stem cell transplantation (HSCT) is cur-

As of 2025, frontline management of high-risk MDS centers on HMA therapy and timely transplant consideration. While outcomes remain modest, emerging molecular and immune-based therapies offer renewed hope for durable disease control and future cure

rently the standard-of-care for high-risk MDS patients eligible for the procedure and the only curative treatment.

AML-like induction chemotherapy (e.g. cytarabine plus anthracycline) is not routine for MDS but may be used selectively in high-risk patients with higher blast counts (close to 20%) who are transplant candidates. In younger, fit patients without adverse molecular features, induction can cytoreduce disease prior to HSCT. However, response rates to intensive chemotherapy in MDS are lower.

Supportive care is essential throughout therapy. Transfusion support, infection prophylaxis, and careful use of growth factors sustain quality of life. Iron chelation is considered in transfusion-dependent, transplant-eligible patients, while thrombopoietin agonists have shown no benefit in this group.

Emerging therapies continue to evolve. Combinations of HMAs with agents such as venetoclax, magrolimab, or sabatolimab show promise but have not yet surpassed single-agent HMA efficacy. The 2025 VERONA trial reported no overall survival benefit for azacitidine plus venetoclax over azacitidine alone. Targeted therapies such as IDH inhibitors (ivosidenib, enasidenib) and p53 modulators like eprexentapopt are under active study.

As of 2025, frontline management of high-risk MDS centers on HMA therapy and timely transplant consideration. While outcomes remain modest, emerging molecular and immune-based therapies offer renewed hope for durable disease control and future cure.

Challenges in diagnosing and treating difficult MPNs in Indian conditions



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MYELOPROLIFERATIVE neoplasms (MPNs) represent a group of clonal hematopoietic stem cell disorders characterized by the excessive production of one or more blood cell lines—red blood cells, white blood cells, and/or platelets—in the bone marrow. These disorders disrupt normal hematopoiesis, leading to blood hypercellularity, altered blood viscosity, and clinical complications such as thrombosis or bleeding.

The classical MPNs include polycythemia vera (PV), essential thrombocythemia (ET), and primary myelofibrosis (PMF), along with chronic myeloid leukemia (CML), which is distinguished by the BCR-ABL1 fusion gene. Additional rare forms include chronic neutrophilic leukemia and chronic eosinophilic leukemia. The 2025 WHO diagnostic criteria emphasize integrating clinical features, comprehensive blood counts, bone marrow morphology, and molecular testing for mutations in JAK2, CALR, and MPL genes which are pivotal in pathogenesis.

Clinically, MPNs commonly present with symptoms related to hyper-

viscosity and splenomegaly such as fatigue, night sweats, weight loss, pruritus, and thrombosis. Laboratory evaluation involves complete blood count, peripheral smear examination, serum erythropoietin levels, and bone marrow biopsy with reticulin staining to assess fibrosis. Molecular testing by PCR or next-generation sequencing helps identify driver mutations, which inform diagnosis, prognosis, and therapeutic decisions.

Treatment strategies are tailored to the subtype, symptom burden, and risk factors. PV and ET are often managed with phlebotomy, low-dose aspirin, and cytoreductive agents to control cell counts and reduce thrombotic risk. PMF requires a more nuanced approach, including JAK inhibitors such as rux-

Despite advances, MPNs pose diagnostic and therapeutic challenges due to disease heterogeneity and potential progression to acute leukemia

olitinib to manage symptoms and splenomegaly, with allogeneic stem cell transplantation as a potential curative option for eligible patients. CML management is dominated by tyrosine kinase inhibitors targeting BCR-ABL1, revolutionizing patient outcomes.

Recent advances highlight the importance of molecular profiling in refining classification and prognosis, aiding personalized medicine approaches. Despite advances, MPNs pose diagnostic and therapeutic challenges due to disease heterogeneity and potential progression to acute leukemia.



MEETINGS TO BEDSIDE: TAKING LEARNINGS TO PATIENTS

IN 2025 to manage complex patients would need understanding of the available options in the local low middle income country (LMIC) setting which can be possible through networking and available local data. To sight one of the many examples, managing a relapsed refractory lymphoma patient, it may not be easy but would be possible with developing a basic understanding and then apply the knowledge to respective cases with precise diagnosis, prognosticate, evaluate the best treatment strategy available in local setting.

The care in lymphoma patients, starting from diagnosis to overall



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management is no more one professional's job rather a job that should include intricate care in a multidisciplinary approach. As a result we have seen the significant improvement in the outcome of these patients with a survival improving all the time, even in some of the aggressive ones. The treatment has seen the influx of several novel, targeted therapy, helping clinicians in staying away from using chemotherapy, limiting the amount of

side effect the patients would be experiencing to better results overall.

Recently with the advent of newer modality of therapy in the space of haemophilia care, such as extended half-life products and monoclonal antibody treatment such as emicizumab; it is important to understand the change in the laboratory testings, so that the clinicians can interpret the results more accurately with introduction of this new therapy. Furthermore, different viscoelastic tests such as Thromboelastographic studies and ROTEM test, point of care testing would help identify the deficiencies on the blood as a cause for bleeding manifestation and help better manage bleeding com-

plications. This has helped in better utilisation of resources including blood products more accurately to achieve good haemostasis, such as in cardiovascular surgeries, massive transfusions. Similarly better understanding of laboratory testing in various complications such as in patients with haemophilia with inhibitors, would aid better treatment and monitoring.

In summary, having a better understanding of the basic sciences, laboratory findings, their interpretation and applying these findings in the day to day patient care would lead to help fine-tune the management of the patients, management of their complications, and better monitoring in the future.

Metabolic Rewiring: A key driver of disease progression, therapeutic resistance in MM

volume disease, sequential regimens starting with a single novel agent may provide a chemotherapy-free route to transplant.

Given high response rates with CPI-based salvage, current studies are exploring the option of omitting ASCT in select patients in favor of CPI maintenance. With the high efficacy and limited toxicity of BV and PD-1 inhibitors, the combination of these compounds represents a valid alternative to conventional chemotherapy for patients ineligible for standard therapy due to age or comorbidities and several trials support this concept.

In summary there has been major progress over the last 3 decades with cure rates now in excess of 90% bringing us closer to the finish line.

venetoclax, a BCL-2 inhibitor. In our recent Blood (2025) publication, we found supplementation of venetoclax-sensitive/BCL-2-independent MM cells with heme promoted resistance to venetoclax that was reversed by heme chelation with hemopexin. Heme biosynthesis was found to be suppressed in venetoclax sensitive MM and targeting heme biosynthesis sensitizes resistant MM to venetoclax. Examination of the heme-activated kinome, identifies heme activation of the MAPK axis. Our cellular energetics and steady state metabolomics revealed heme to activate de novo purine biosynthesis.

Targeting MEK or de novo purine biosynthesis restores sensitivity to venetoclax in heme-exposed MM. Elevation in purine biosynthesis

PFS and OS in MM and noted in the CD1 vs CD22 subgroup of MM. We have also investigated the effects of heme on immune cells and identified *ex vivo* heme supplementation to reduce dysfunction-related triplet-expressing phenotypes (PD1+LAC3+/TIM3+) and increase enrichment of effector memory cells (CD62L-CD45RA-) in both CD4+ and CD8+ subsets isolated from normal human donor PBMC, MM patient bone marrow-derived T cells and patient-derived CAR T cells.

We are continuing to investigate the implications of both extrinsic and intrinsic heme on MM therapy sensitivity.

HEPARIN-Induced thrombocytopenia (HIT) is a serious, immune-mediated adverse reaction to heparin therapy characterized by a significant drop in platelet count and a paradoxical increased risk for thrombosis. Diagnosing HIT promptly is critical to prevent life- and limb-threatening complications.

Clinically, HIT typically occurs five to 10 days after starting heparin and manifests as a platelet count drop of at least 30-50% from baseline, often accompanied by new arterial or venous thrombosis. HIT type II (immune-mediated) is distinguished from the benign HIT type I (non-immune); only type II necessitates urgent intervention.

Diagnostic evaluation begins with clinical risk assessment using the 4Ts score, encompassing thrombocytopenia magnitude, Timing of platelet fall, presence of Thrombosis, and exclusion of other causes. A high or intermediate 4Ts score warrants laboratory testing.

Laboratory diagnosis involves immunoassays (antigen tests) like ELISA which detect antibodies against platelet factor 4 (PF4)/heparin complexes and have high sensitivity (80–100%) but lower specificity, as false positives occur due to non-pathogenic antibodies or other clinical factors, necessitating confirmatory testing. Functional assays detect platelet activation induced by HIT antibodies, confirming their pathogenicity.

The gold standard is the serotonin release assay (SRA), boasting approximately 95% sensitivity and specificity, though technical complexity limits availability. Other tests include heparin-induced platelet activation (HIPA) and flow cytometry-based assays.

No single test fully confirms HIT; diagnosis relies on combining clinical probability with laboratory evidence. Negative immunoassays generally exclude HIT, while positive tests require functional assays for confirmation.

Management includes immediate discontinuation of all heparin products and initiation of non-heparin anticoagulants to mitigate thrombosis risk. Warfarin is contraindicated in acute HIT due to limb gangrene risk until platelet recovery.

79%, outperforming earlier TKIs. Blinatumomab, a bispecific T-cell engager (BiTE) targeting CD19 and CD3, has emerged as a game changer. Combined with TKIs, it induces deep molecular remissions with low toxicity, even in elderly patients. In the D-ALBA trial, sequential dasatinib plus blinatumomab achieved 98% CR, 93% CMR, and 81% OS at four years. Similarly, ponatinib plus blinatumomab demonstrated durable responses with fewer relapses. However, higher CNS relapse rates have prompted recommendations for increased intrathecal chemotherapy and incorporation of high-dose methotrexate or cytarabine in consolidation.

For elderly patients, low-intensity regimens combining TKIs, blinatumomab, and minimal chemotherapy offer effective disease control with far fewer side effects than traditional chemotherapy.

Allo-HCT remains an option for patients with persistent or recurrent minimal residual disease (MRD) or high-risk mutations. Those achieving deep MRD negativity may safely defer transplant. Long-term discontinuation of TKIs, as in CML, may be possible for select patients with sustained CMR exceeding 48 months, though prospective data are awaited.

In 2025, Ph+ ALL represents a success story of targeted therapy — transforming a once-fatal disease into a manageable, potentially curable condition without transplantation.

ALTHOUGH outcomes for newly diagnosed acute myeloid leukaemia (ND-AML) have been incrementally improved over the last decades, management of relapsed and refractory (R/R) AML remains a medical challenge. A curative intent for R/R AML usually involves chemotherapy (with or without targeted therapy) with subsequent consolidation, including allogeneic haematopoietic stem cell transplantation. Despite this, long-term survival rates of R/R AML only reach approximately 10% in adults and 40% in children. Somatic mutations, gene expression, and functional drug testing are important for the selection of small molecule inhibitors of oncogenic signaling pathways (e.g., FLT3), menin inhibitors that disrupt leukemogenic programmes, inhibitors of

isocitrate dehydrogenases (IDH) to restore oncogenic homeostasis, and proapoptotic Bcl-2 homology 3 (BH3) mimetics, such as venetoclax. Targeting the recently identified resistance factor SAMHD1 promises to overcome resistance to cytarabine and fludarabine. Given the growing number of potential combinatorial drug regimens and the genetic heterogeneity of AML, real-time *ex vivo* drug response profiling to guide individualized treatment decisions will become an important complement.

We argue that better outcomes for R/R AML critically depend on being guided by precision oncology to define the best combination of chemotherapy, targeted therapy, and immunological therapy informed by phenotypic and genotypic patient- and disease-specific parameters.

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As many as 118 oral papers and 363 posters were presented amidst participation of 1,500 delegates, he said. Sunita Sharma, Director General of Health Services, Uttar Pradesh, said hematology stands at a critical juncture with new innovations and diagnostic techniques. She called upon hematologists to dwell upon emerging technologies and bring into practices for greater benefit of patients.

Guests were effusive of organising capability of Professor SP Verma, organising secretary, and Prof Rashmi Kusiwaha, co-organising secretary, for successfully conducting the Haematocoon-2025. The spirit of Vijai Tilak, president of organising committee was also appreciated.

Tarun Kumar Datta, former professor of hematology was conferred ISHBT Lifetime Achievement award on the occasion. ISHBT abstracts and other publications were released during the inaugural ceremony.

ISHBT President Sarmila Chandra, president elect Brigadier Thathagat Chatterjee and past president PK Sivasadhanaran also graced the occasion.

