



LEUKEMIA

FACTS & FIGURES

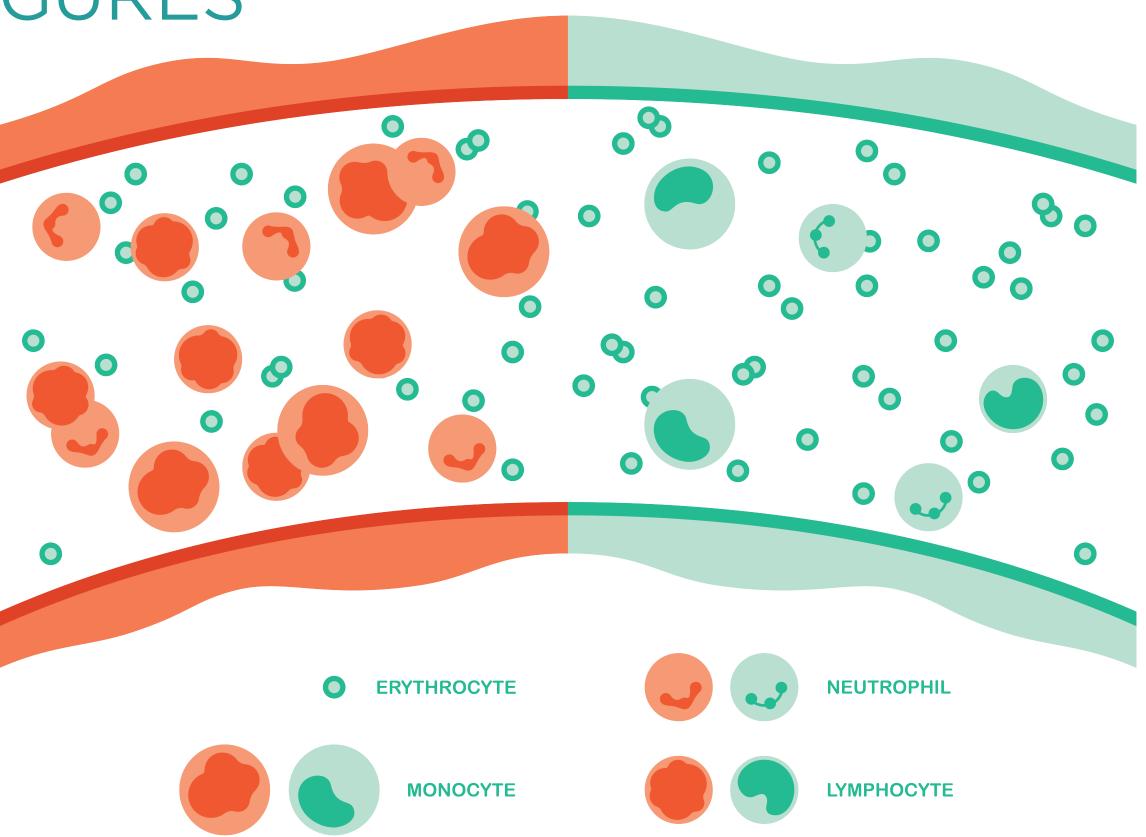
WEIGHT LOSS

FATIGUE WEAKNESS

EASY BLEEDING

LYMPH NODE SWELLING

SHORTNESS OF BREATH



COVID-19

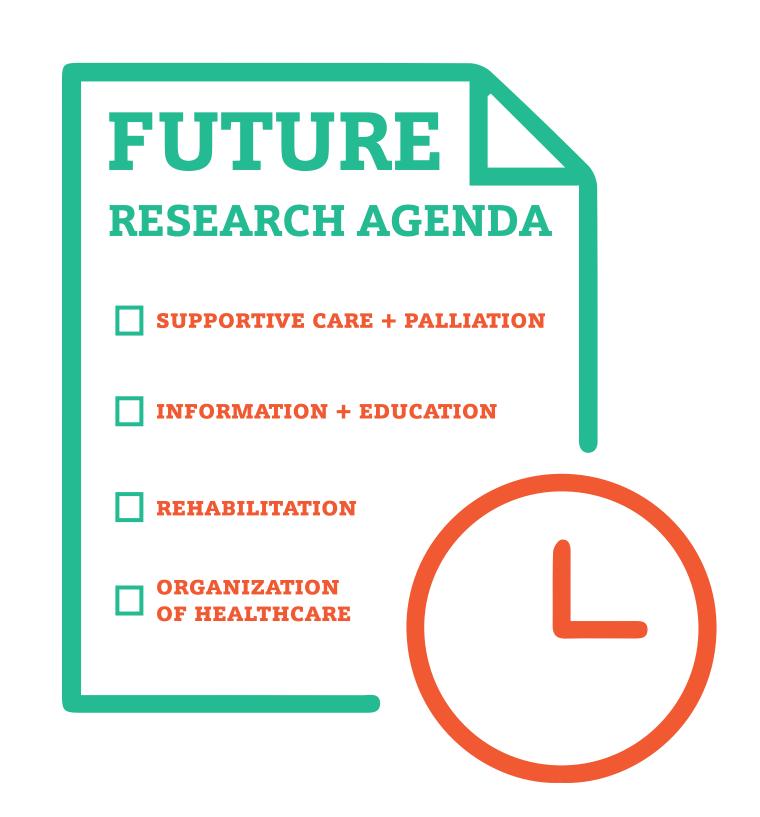
CANCER PATIENTS HAVE THE HIGHEST RISK OF SEVERE COVID - 19 INFECTION due to IMMUNODEFICIENCY

COVID-19

CANCER PATIENTS HAVE A 25 - 39%

increased MORTALITY RISK than the PATIENTS without cancer

437 033
PEOPLE
DIAGNOSED
WITH LEUKEMIA
WORLDWIDE
1N 2018



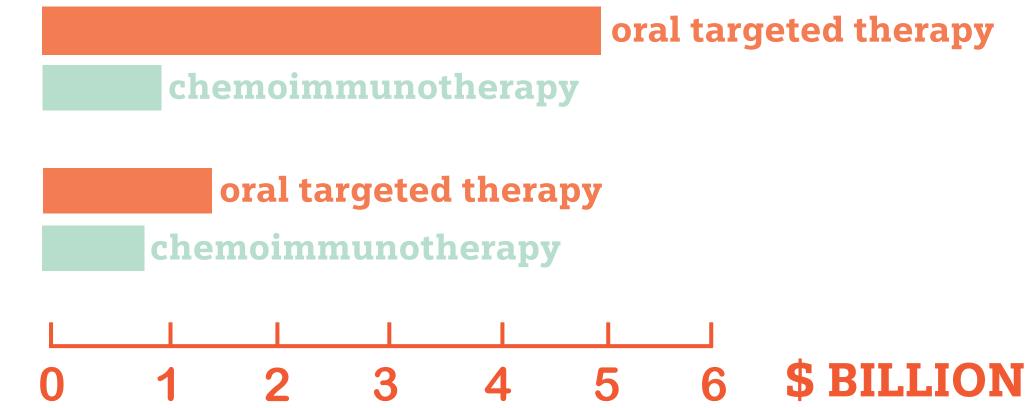
309 006
PEOPLE
DIED WITH
LEUKEMIA
WORLDWIDE
IN 2018

Estimated growth of treatment costs for hematologic

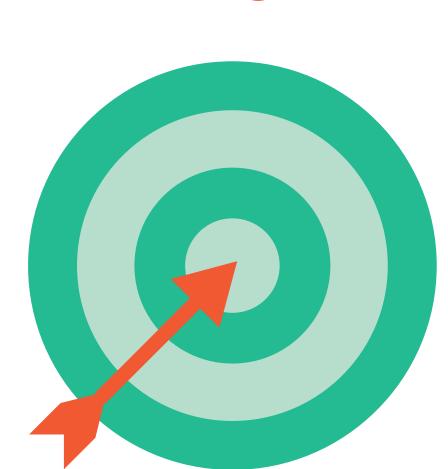
2025 cancers in the U.S. (2016 - 2025)

2016

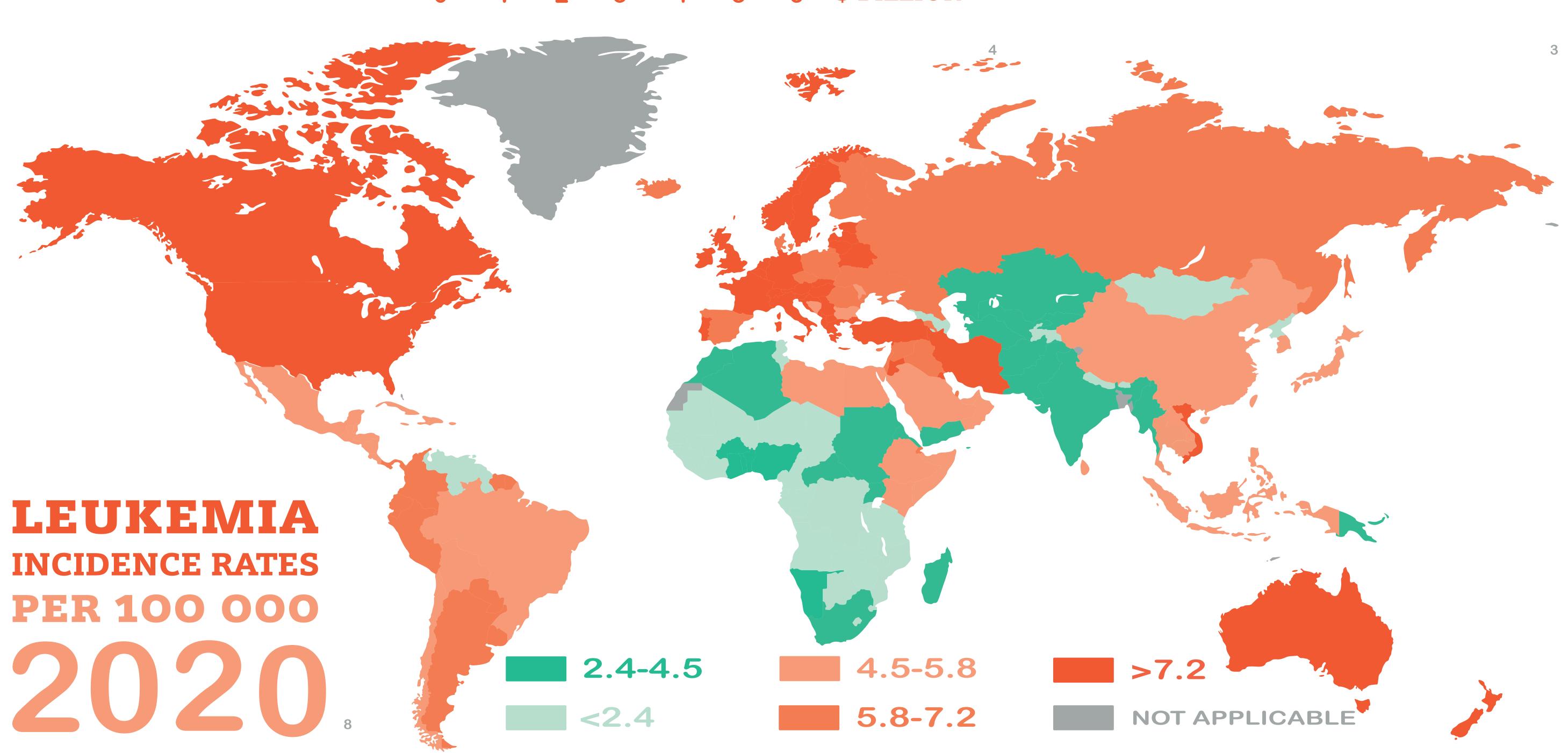
START OF
ORAL TARGETED
THERAPY AS
FIRST LINE



the WHO global action plan



REDUCE
PREMATURE
MORTALITY
FROM
CANCER



Disclaimer: The Disease Pathways
Framework could be used to elaborate
on various diseases. The various pain
points, solutions, and statistical data are
examples only and cannot be taken as
recommendations for the reader.

Bray, F., Ferlay, J., Soerjomataram, I., Siegel, R. L., Torre, L. A., & Jemal, A. (2018). Global cancer statistics 2018: GLOBOCAN estimates of incidence and mortality worldwide for 36 cancers in 185 countries. CA: a cancer journal for clinicians, 68(6), 394-424.
 American Cancer Society. Cancer Facts & Figures 2019. Atlanta: American Cancer Society; 2019.

American Cancer Society. Cancer Facts & Figures 2019. Atlanta: American Cancer Society; 2019.
 National Cancer Institute. SEER Cancer Stat Facts: Acute Myeloid Leukemia. Accessed at https://seer.cancer.gov/statfacts/html/amyl.html on June 12, 2018.
 Qiushi Chen et al. 2017, Economic Burden of Chronic Lymphocytic Leukemia in the Era of Oral Targeted Therapies in the United States, J Clin Oncol. 2017 Jan 10; 35(2): 166–174.

Published online 2016 Nov 21. doi: 10.1200/JCO.2016.68.2856

5. Karin Piil et al. 2018, Research agenda for life-threatening cancer, Eur J Cancer Care. 2019;28:e12935.

6. Wenhua Liang et al. Cancer patients in SARS-CoV-2 infection: a nationwide analysis in China. https://www.thelancet.com/journals/lanonc/article/PIIS1470-2045%2820%2930096-6/fulltext

7. Omar Abdihamid et al. The Landscape of COVID-19 in Cancer Patients: Prevalence, Impacts, and Recommendations. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7520115/8. Estimated age-standardized incidence rates (World) in 2020, leukaemia. https://gco.iarc.fr/today Website:

https://www.siemens-healthineers.com/careers/ innovation-think-tank

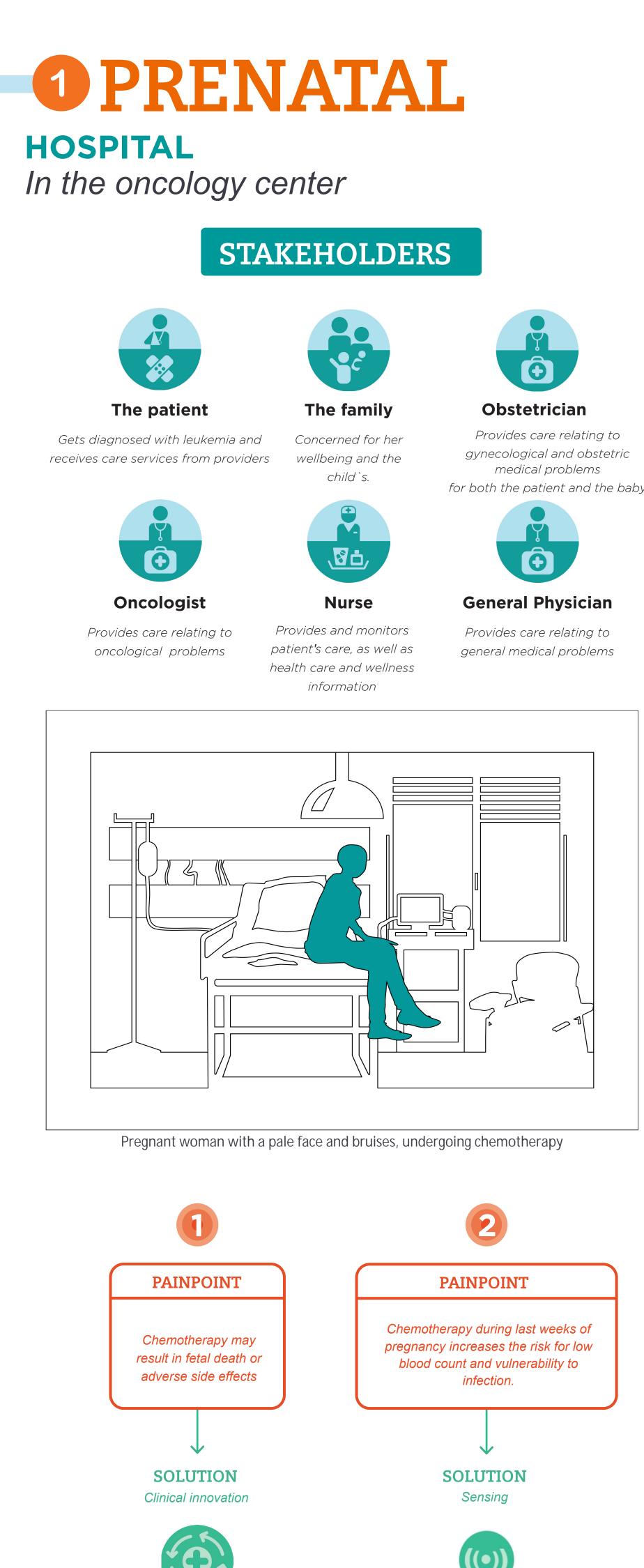
Disease pathway analysis with painpoints and solution examples

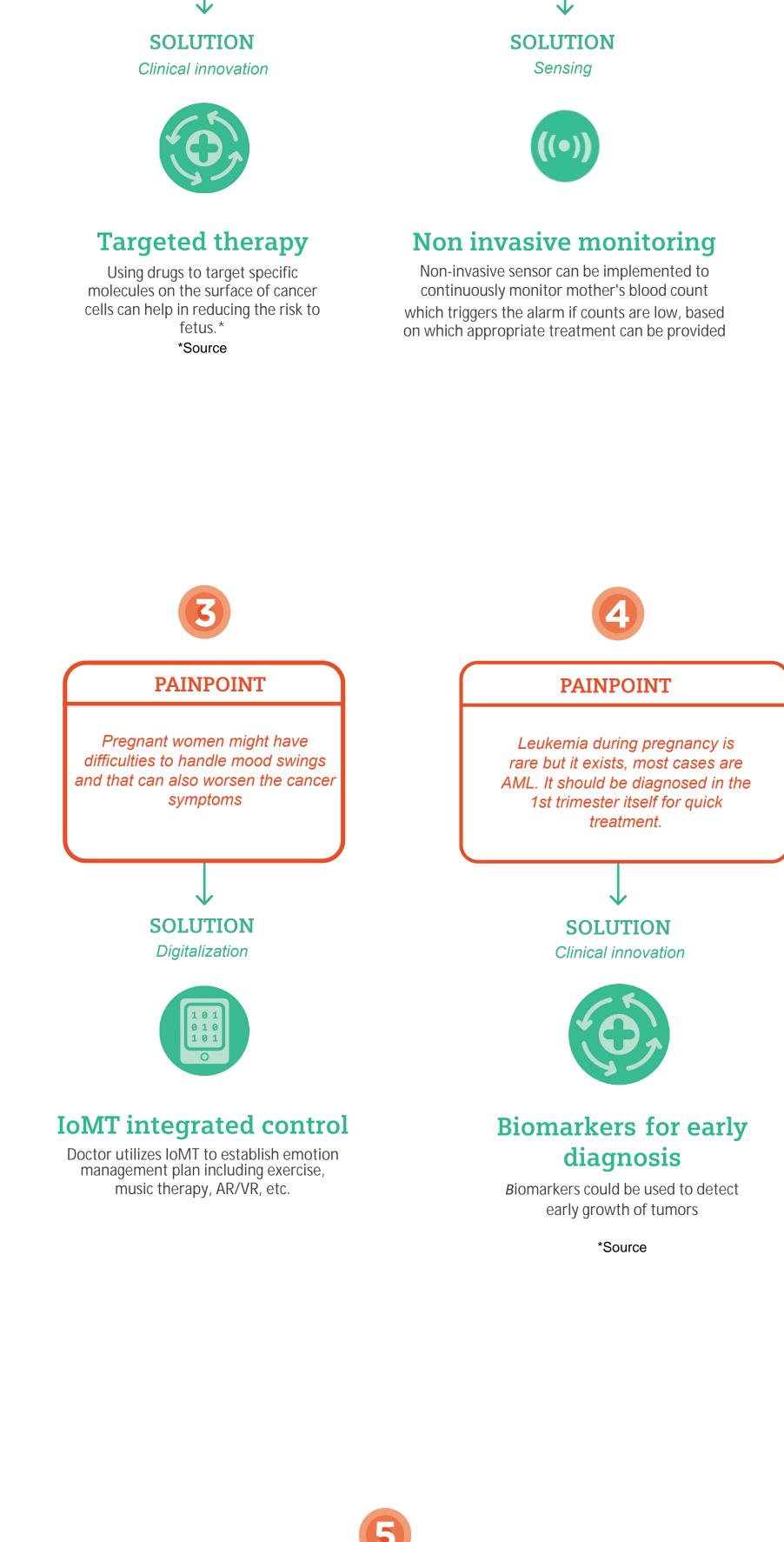
An extensive researchbased analysis from 40+ scientific articles and journals in combination with hospital workflow experience allowed the identification of painpoints and solutions

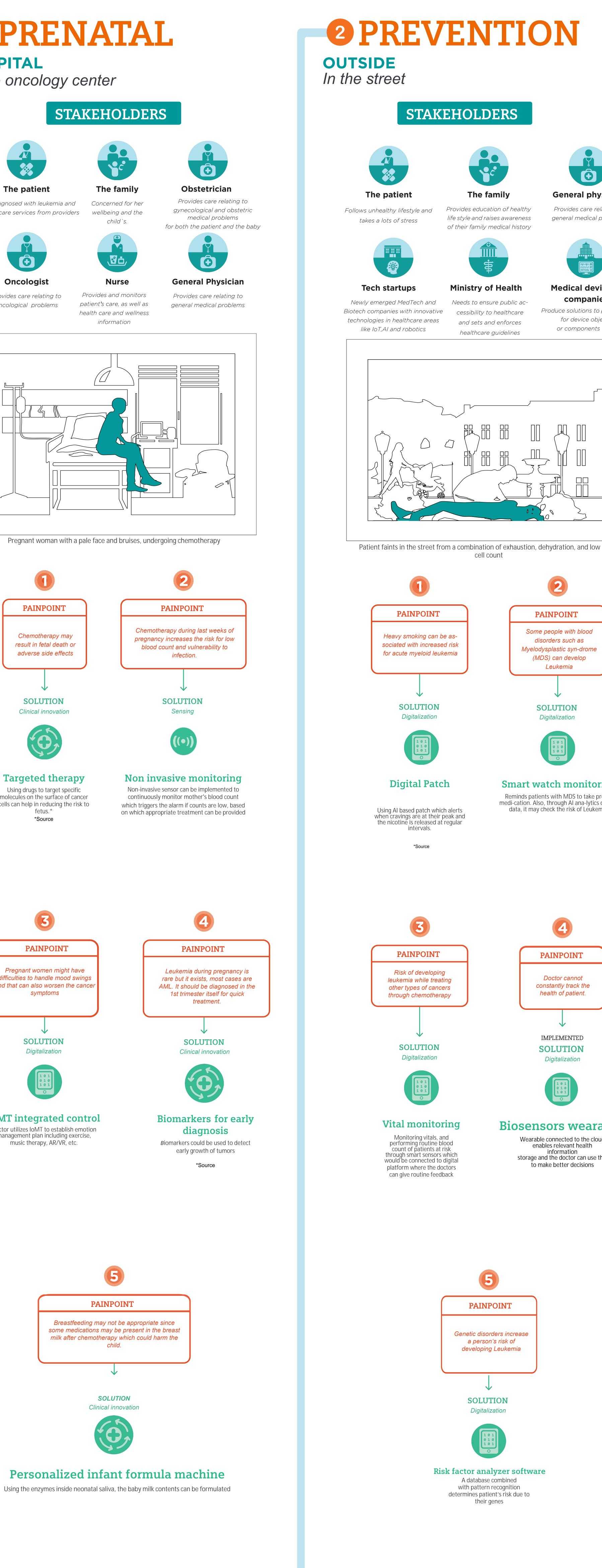
These solutions were proposed based on AI, IoMT, AR/VR, **Biosensors, nanorobotics** and smart wearable technologies

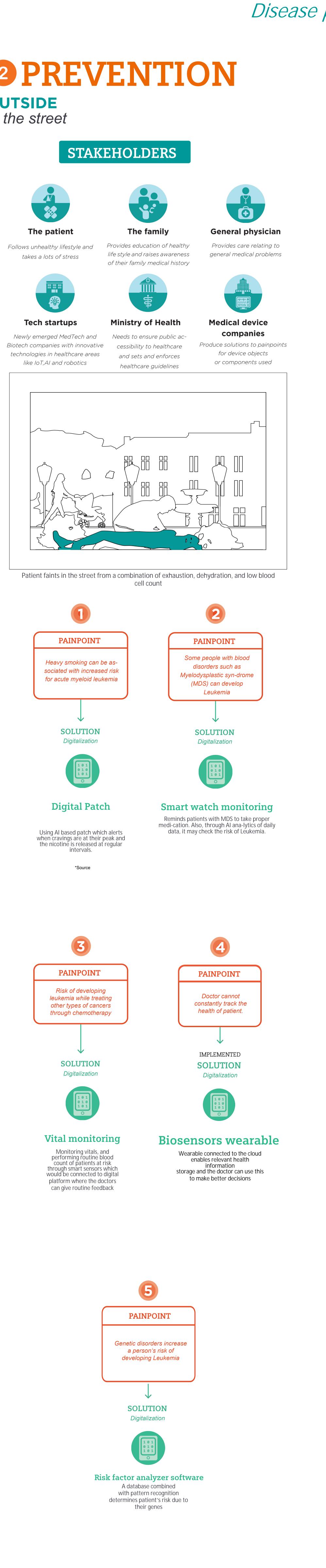
THROUGH THIS CAREPLAN WE HIGHLIGHT DATA FROM A COLLECTION OF

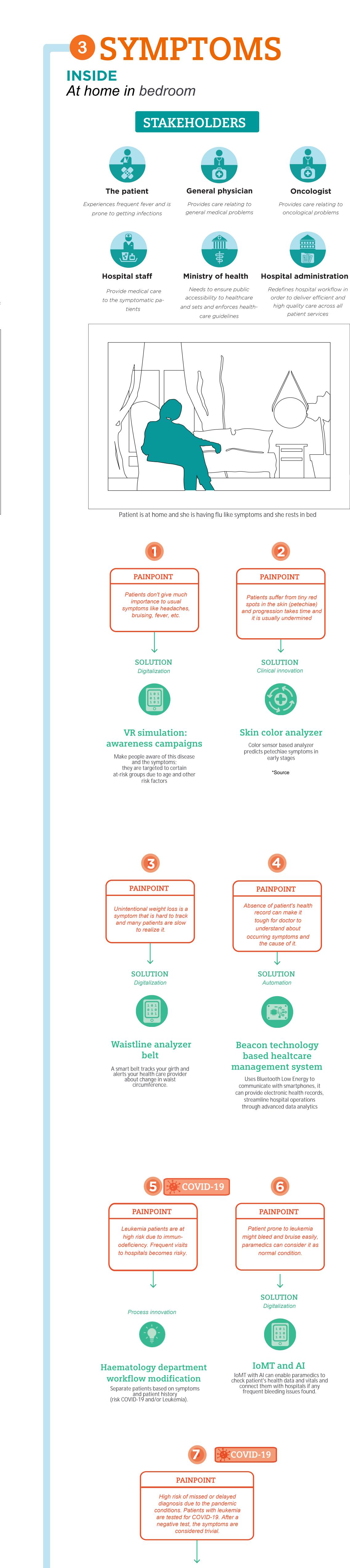
different stakeholders





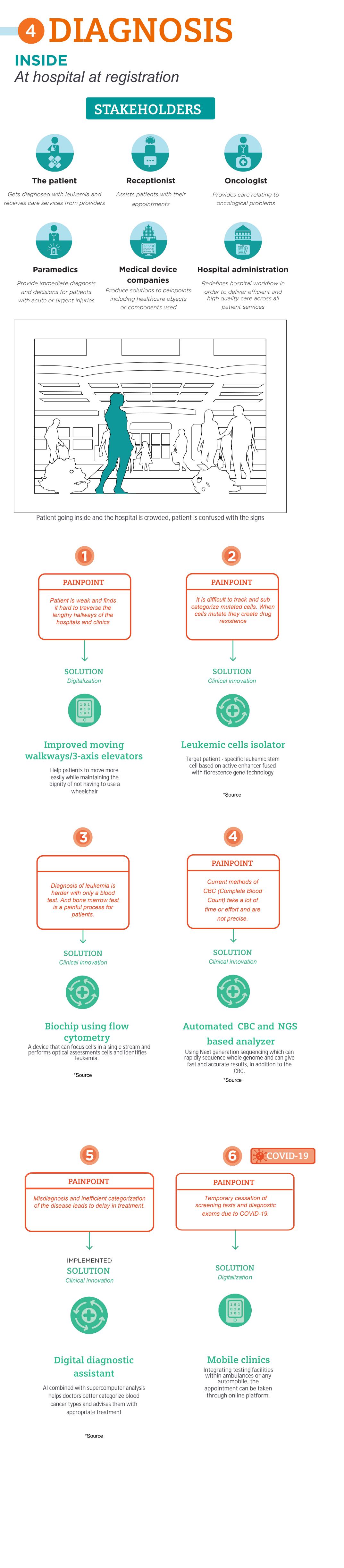


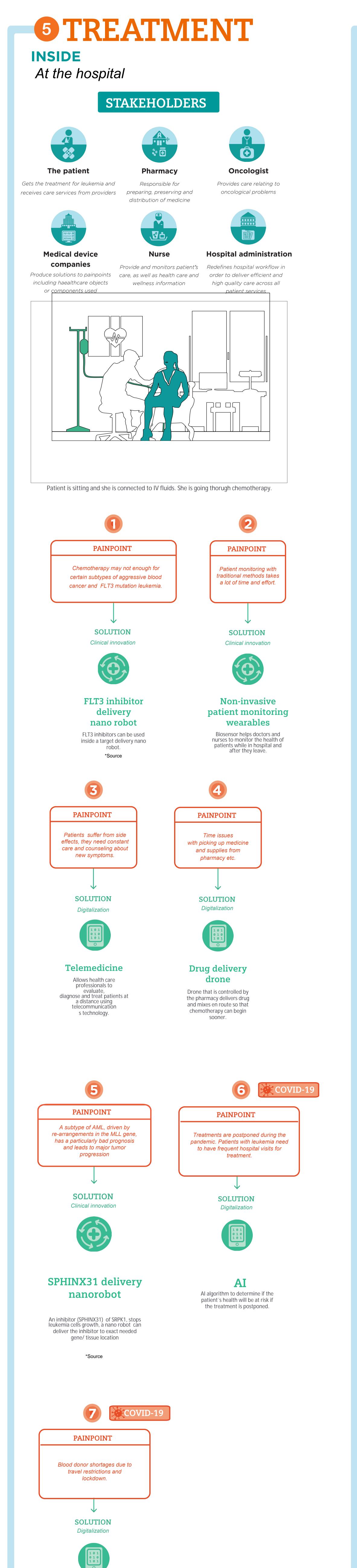




Leukemia home test kit

Home kit to carry out a complete blood count and peripheral blood smear.





Blood donor app

App for viable blood donors: they register and medical units

assigned to go to their locations and get the blood.

