



LUNG CANCER

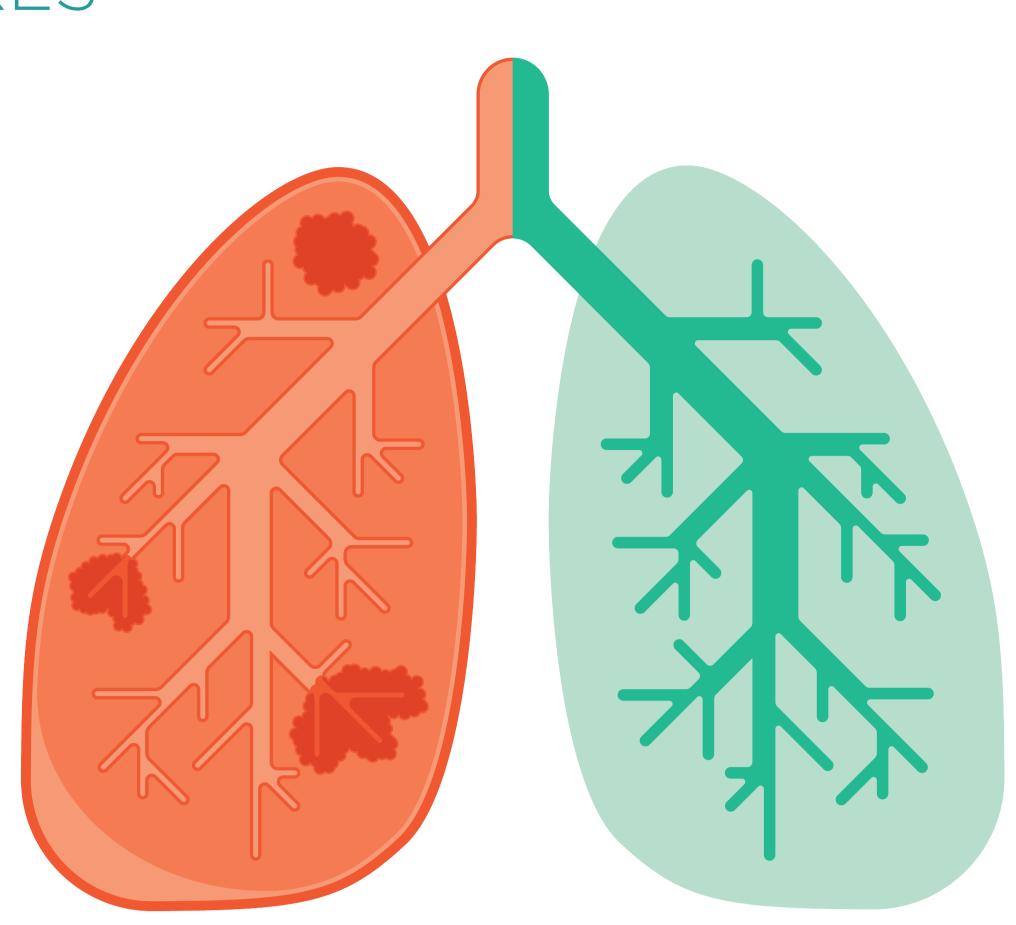
FACTS & FIGURES

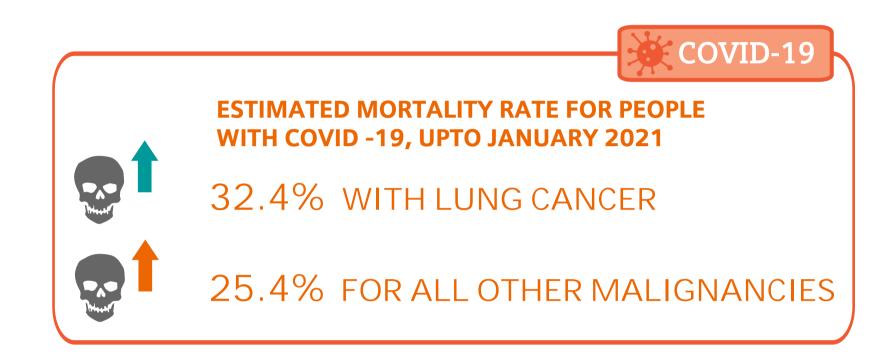
CHEST PAIN COUGHING WITH BLOOD NIGHT SWEAT SHORTNESS OF BREATH WEIGHT LOSS

IN CHINA, 1% COVID - 19 CASES
HAD CANCER HISTORY
28% of them had LUNG CANCER

*IN JANUARY 2020

2015





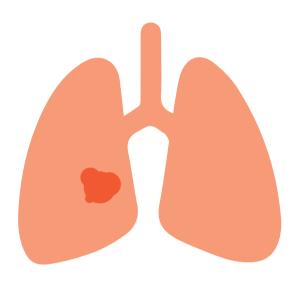
SECOND
MOST COMMON
CANCER
2.2 M
CASES 2020

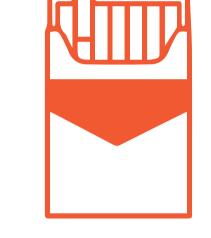
1.8_M DEATHS

\$12.1 BILLION

\$8.8 BILLION \$1.9 BILLION

\$460 MILLION









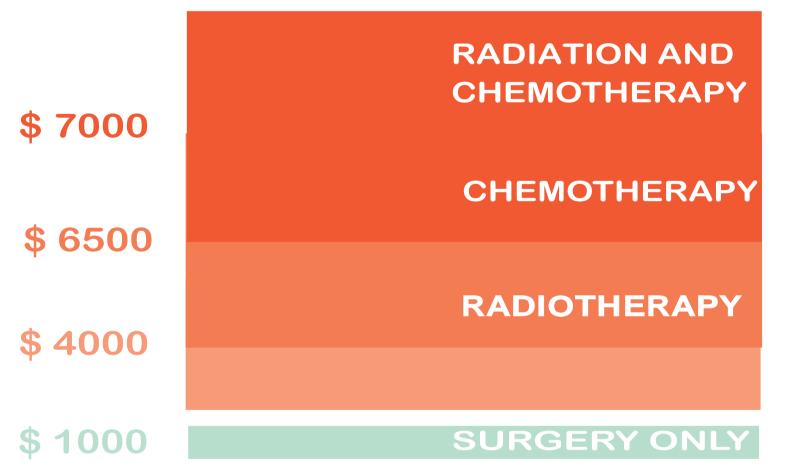
LUNG CANCER CARE

TOBACCO MARKETING

LUNG CANCER
SCREENING

ANTI-TOBACCO
PROGRAMMES

CANCER ATTRIBUTABLE MONTHLY COST OF INITIAL TREATMENT IN THE US



LUNG CANCER

MORTALITY

INCREASED

IN MEN

2018

1.368 M

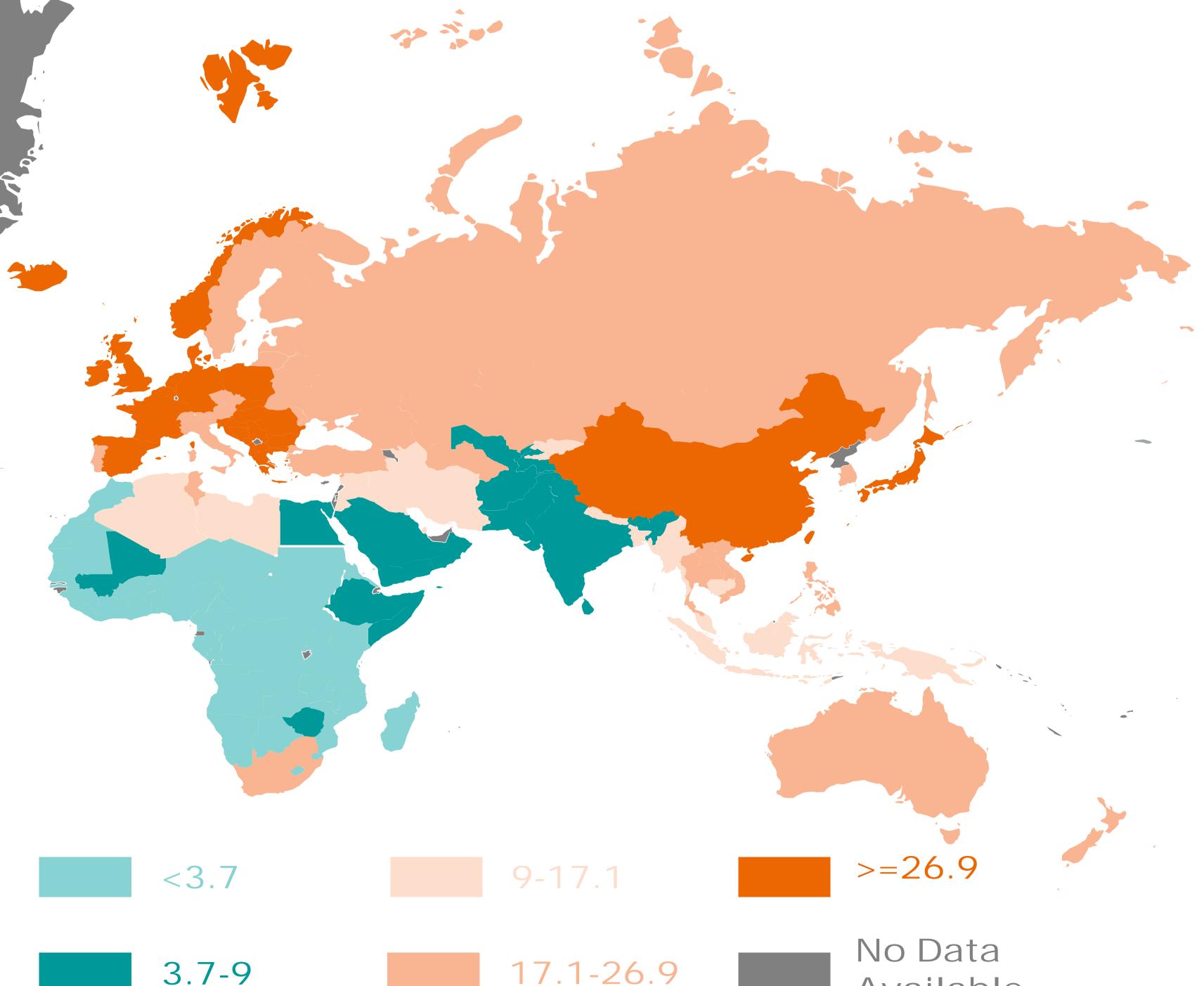
0.725 M

WHO POSITION ABOUT LUNG CANCER

30%
1.SETTING PRIORITIES
2. INVESTING WISELY
3. Providing care for all



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.



1. Global Cancer Statistics 2020: GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries, Retrieved from: https://acsjournals.onlinelibrary.wiley.com/doi/full/10.3322/caac.21660
2. Estimated Age-Standardised rate for global incidence of Lung Cancer(2020). Retrieved on 04-20-2022.https://gco.iarc.fr/today/online-analysis-map?
v=2020&mode=population&mode_population=continents&population=900&populations=900&key=asr&sex=0&cancer=15&type=0&statistic=5&prevalence=0&population_group=0&ages_group%5B%5D=0&ages_group%5B%

5. Estimated New Cancer cases and Mortality worldwide for leading cancers, HDI, 2018. Retrieved from https://www.cancer.org/content/dam/cancer-org/research/cancer-facts-and-statistics/global-cancer-facts-

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

5D=17&nb_items=10&group_cancer=1&include_nmsc=0&include_nm-sc_other=0&projection=natural-earth&color_palette=default&map_scale=quantile&map_nb_colors=5&continent=0&show_ranking=0&rotate=% 255B10%252C0%255D

3. Sheehan, D.F. et al. 2018. Lung cancer costs by treatment strategy and phase of care among patients enrolled in Medicare. Cancer Medicine, 8 (1), 94-103.

4. Economic burden of Cancer. Retrieved from https://canceratlas.cancer.org/taking-action/economic-burden/

11. Retrieved from https://www.sciencedi-rect.com/science/article/abs/pii/S1040842821001530?via%3Dihub

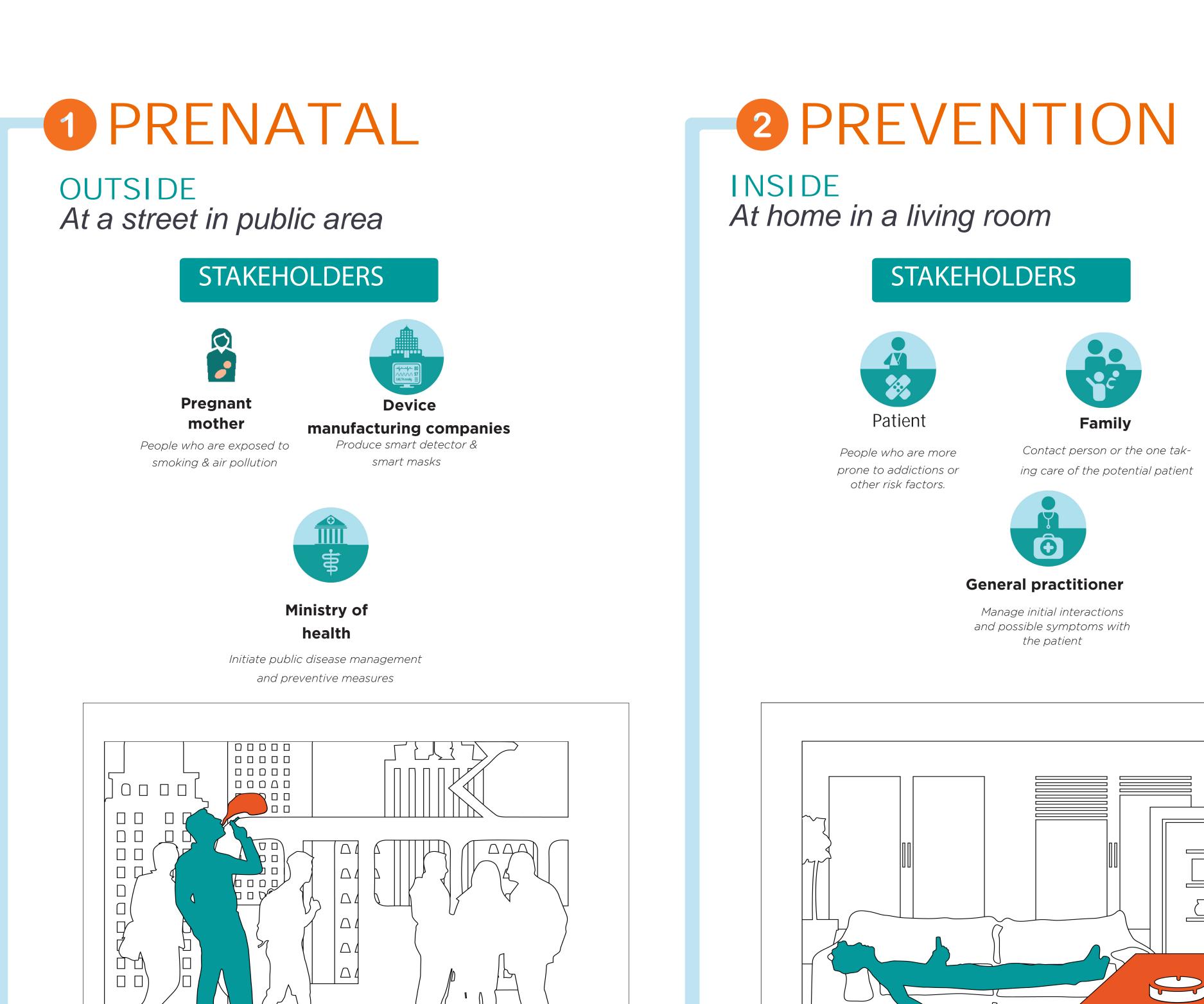
and-figures/ global-cancer-facts-and-figures-4th-edition.pdf
 Stenger, Mathew, "COVID Infections in patients with Cancer in China". Retrieved from https://ascopost.com/issues/april-25-2020/covid-19-infection-in-patients-with-cancer-in-china/
 WHO Report on Cancer: setting priorities, investing wisely and providing care for all . - Accessed from https://apps.who.int/iris/rest/bitstreams/1267643/retrieve
 Optimal investment in tobacco control- Australia. Retrieved from https://www.tobaccoinaustralia.org.au/chapter-17-economics/17-6-optimal-investment-in-tobacco-control

9. Losses in earnings due to Lung Cancer in the US. (2015) Retreived from: https://ascopost.com/News/60247

10. Lung cancer community celebrates potential for national screening program. Retrieved from https://www.canberratimes.com.au/story/7249439/potential-lung-cancer-sc eening-program-could-save-12000-lives-in-a-decade/

8 OUT-PATIENT

Disease pathway analysis with painpoints and solution examples



Pregnant women are constantly exposed to pollutants and secondary smoke.

lead to lung cancer

Large exposure to Poly-cyclic

cause damage; could be

detected from

urine samples, possibly in the

form of a PoC strip test.

Aromatic Hydrocarbons wil

PAINPOINT

Secondhand smoke

and may lead to lung

cancer for pregnant

Smart mask that filter

impurities in the air,

which is controlled with a

sensing solution and a

of lung cancer for pregnant

including more variety of

vegetables, fruits, whole

grains, and legumes such

Limit consumption of red meats

and alcoholic drinks, etc. and

foods which remind of unhealthy

are connected to

different stakeholders

as beans.

is harmful to the lung

PAINPOINT

to develop lung cancer

(also for the baby).

Smart detector or

smoke-in-fested

areas and identifies

radon levels with

color coding whils

pregnant women may

cause lung cancer for the

Use of financial incentives,

counseling and feedback

help in release of the desire to

THROUGH THIS CAREPLAN

WE HIGHLIGHT DATA FROM A

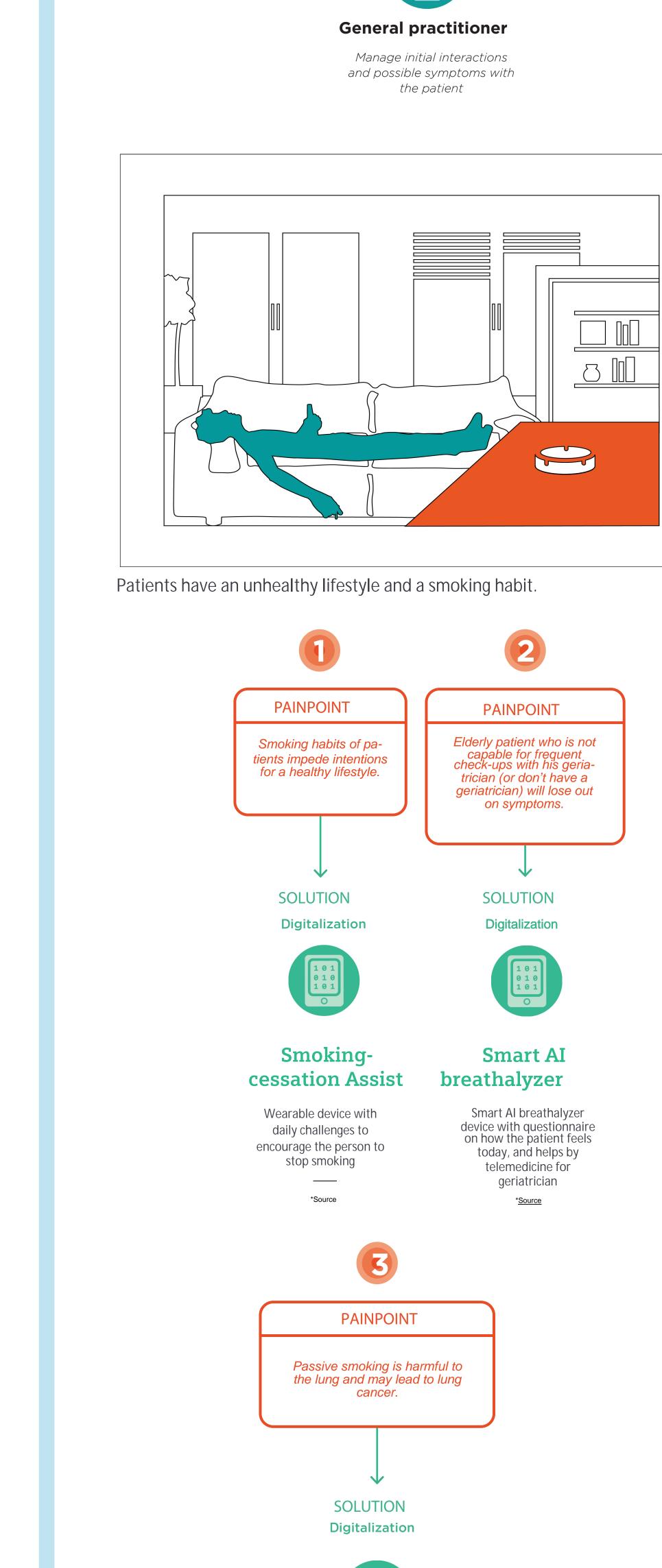
COLLECTION

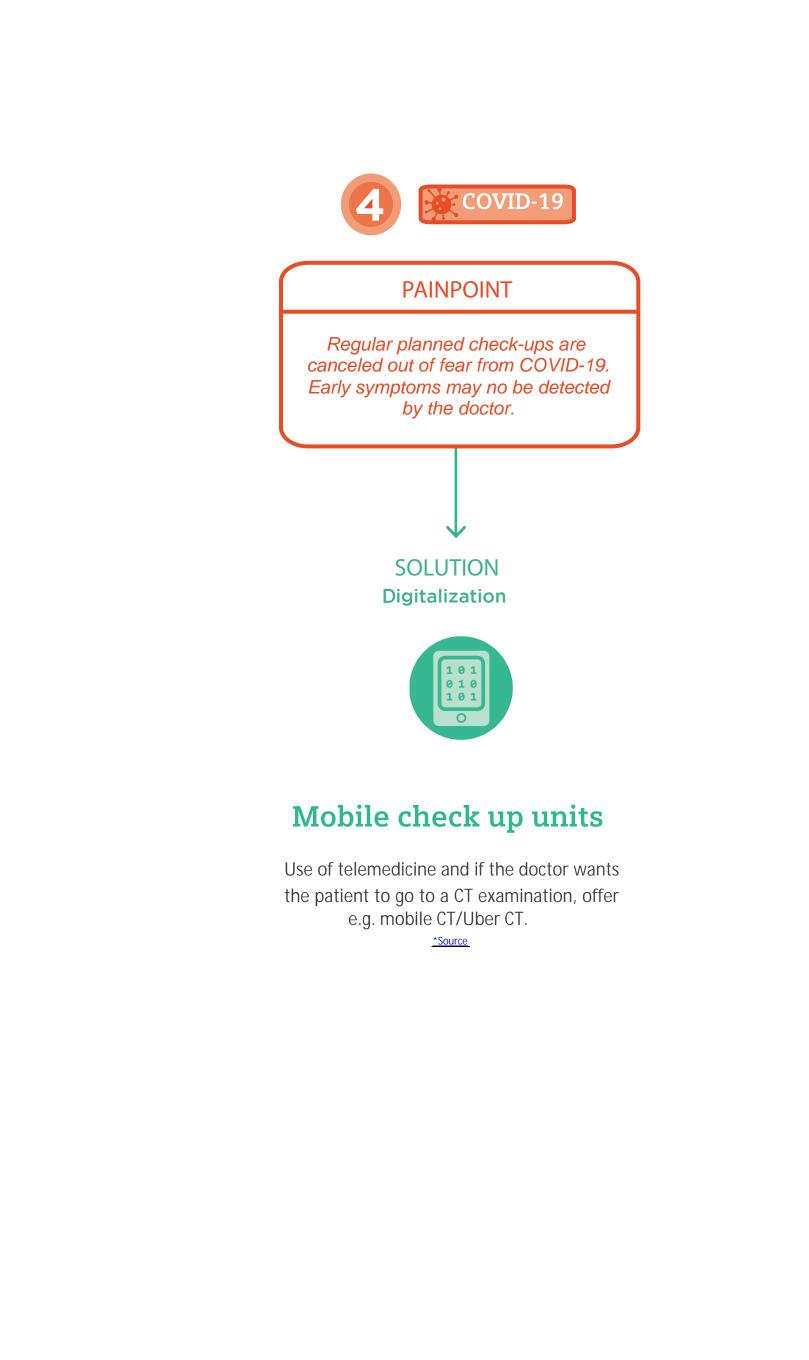
based interventions will

baby or themselves

out on public.

wearable that alerts



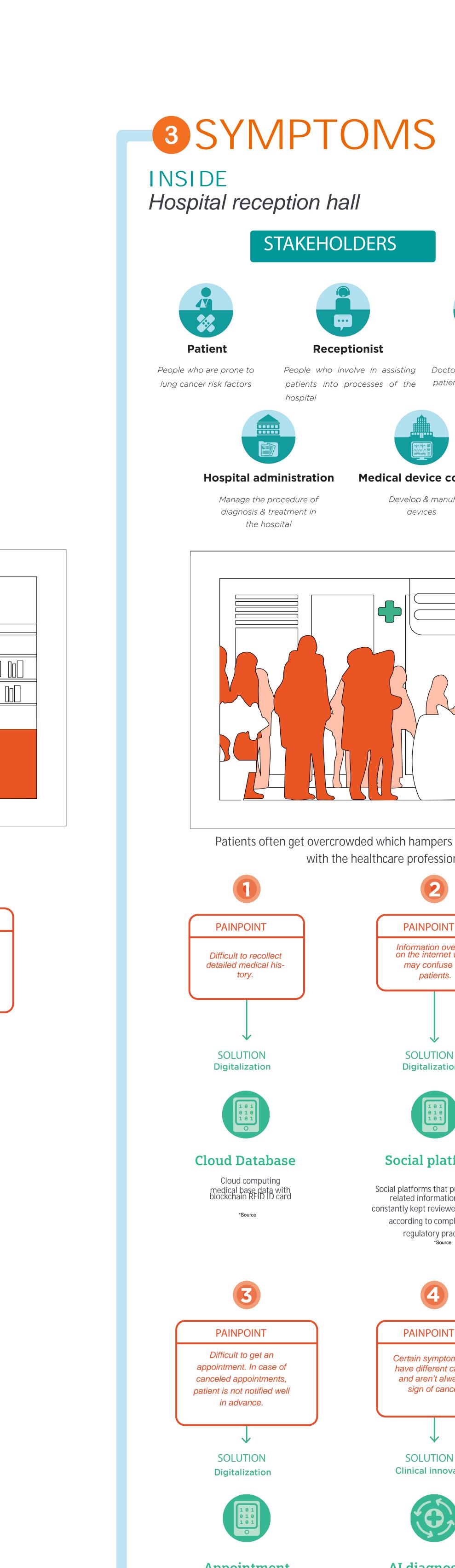


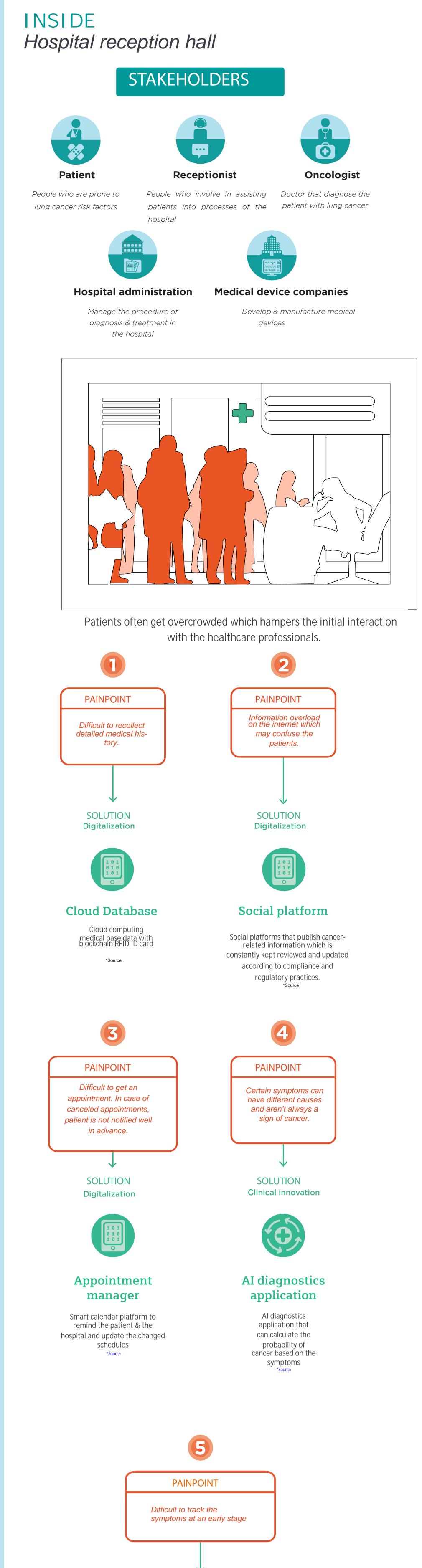
Sensor placed at homes that

analyse harmful smoke and

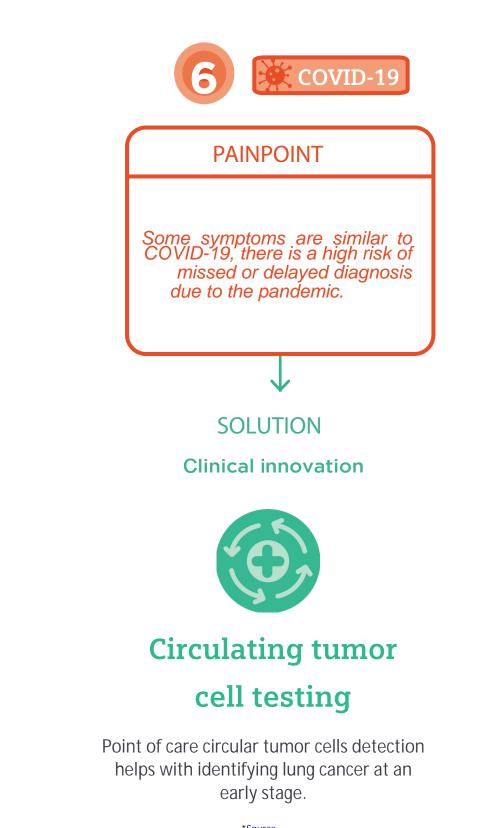
sends warning to the

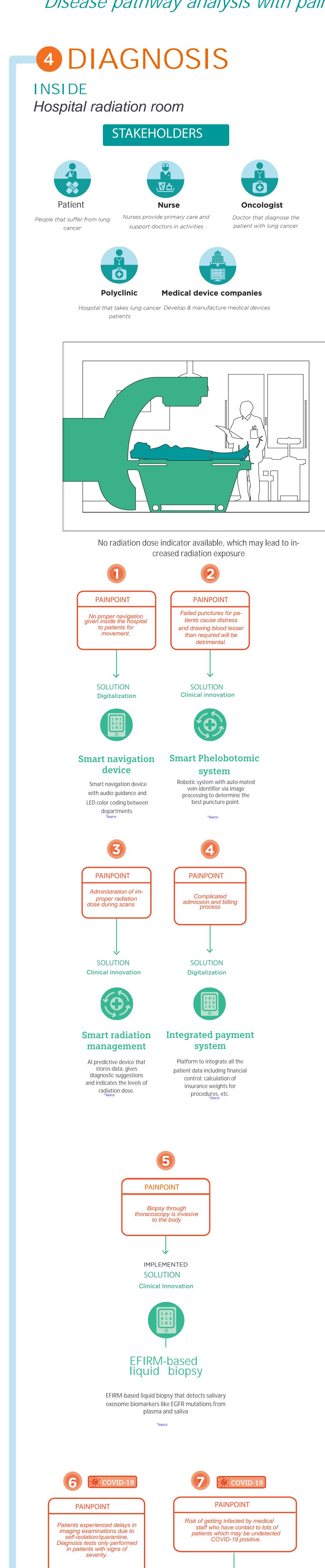
patient.











SOLUTION

managemen

Solution which prioritizes patients

with high cancer risk and previous

malignancy episodes for frequent

Digitalization

Digitalization

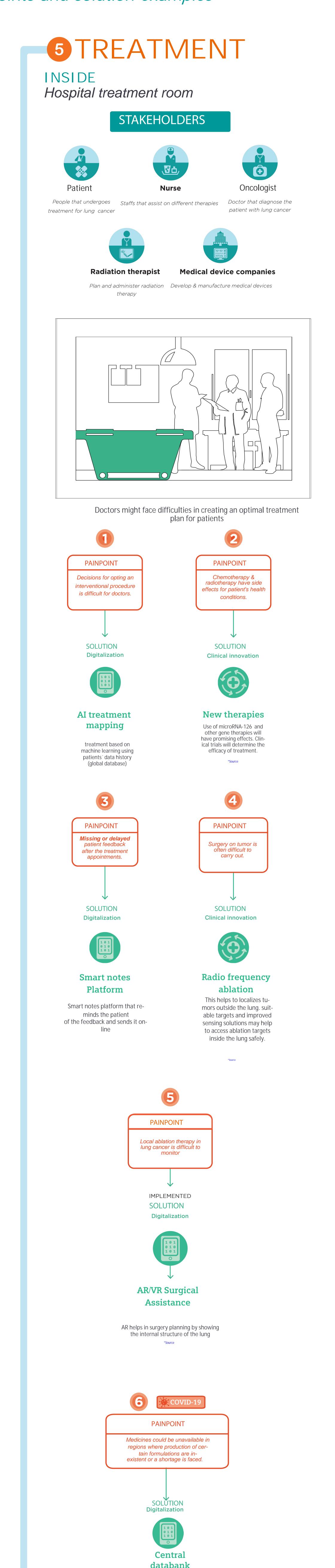
Medical robots

Use of medical robots to deliver

medicines, and food to

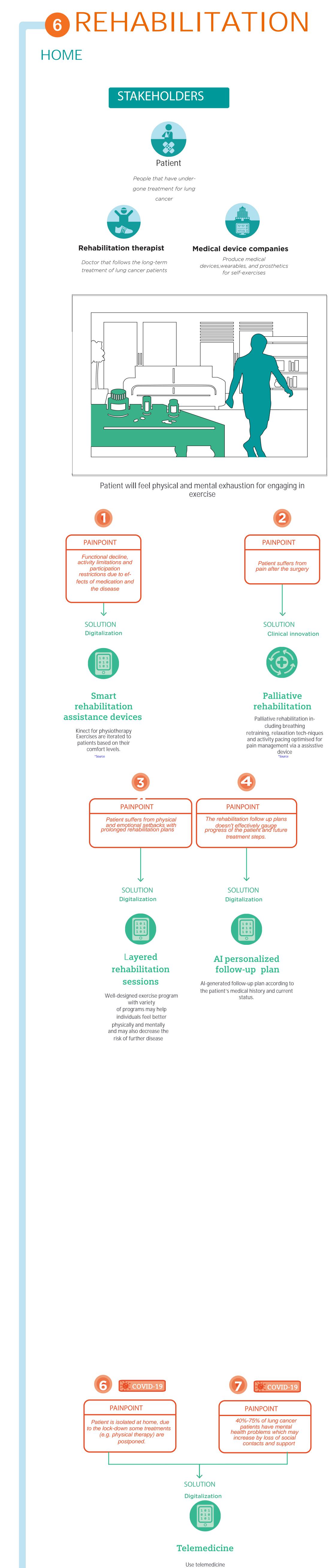
inpatients at the hospital

*Source



Central databank to monitor the

invetory of medicines and home



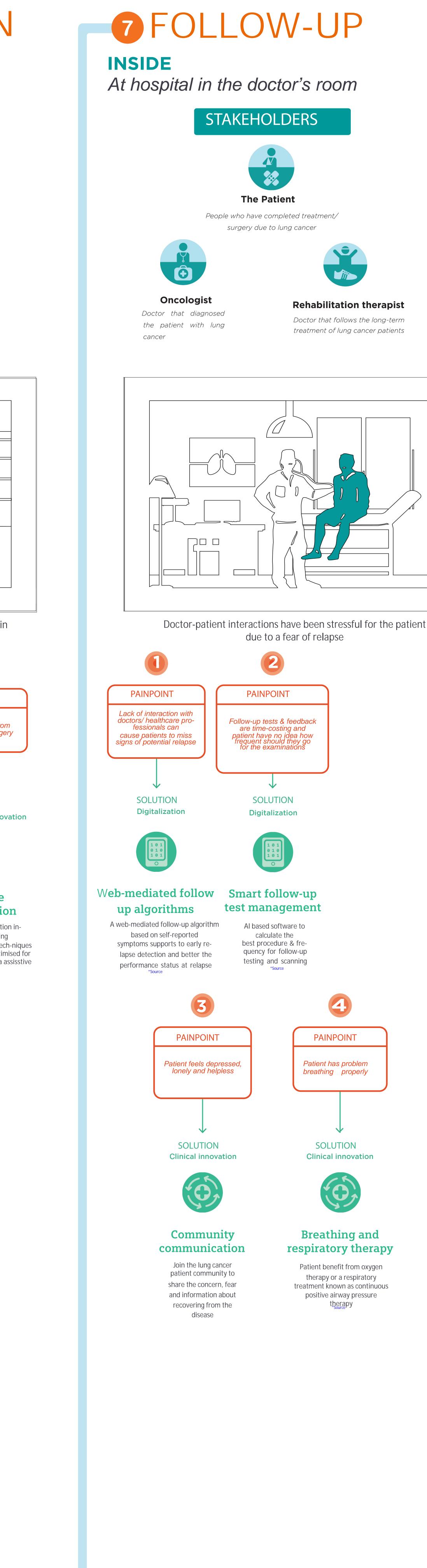
to instruct the patient

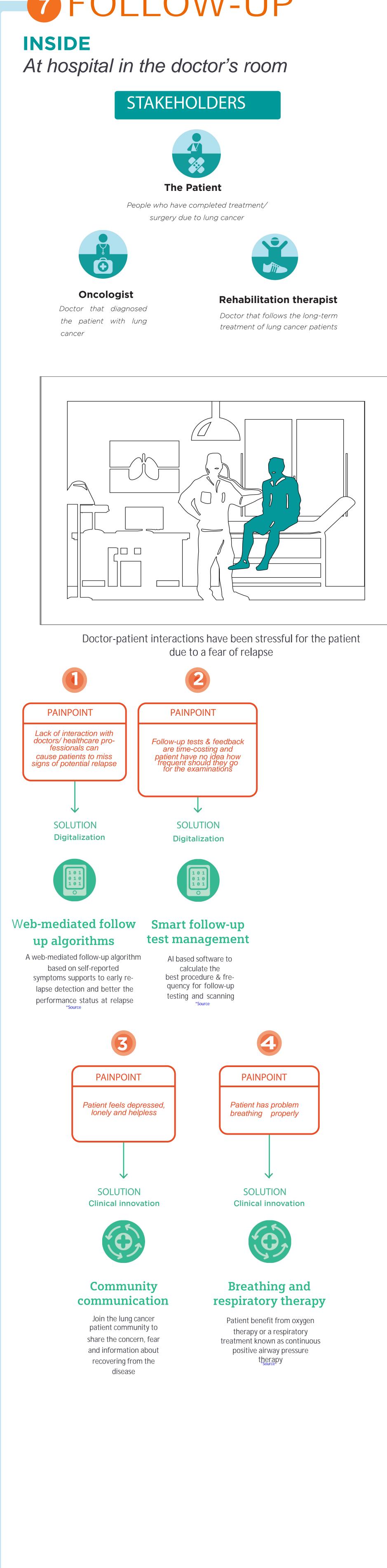
avail mental help from

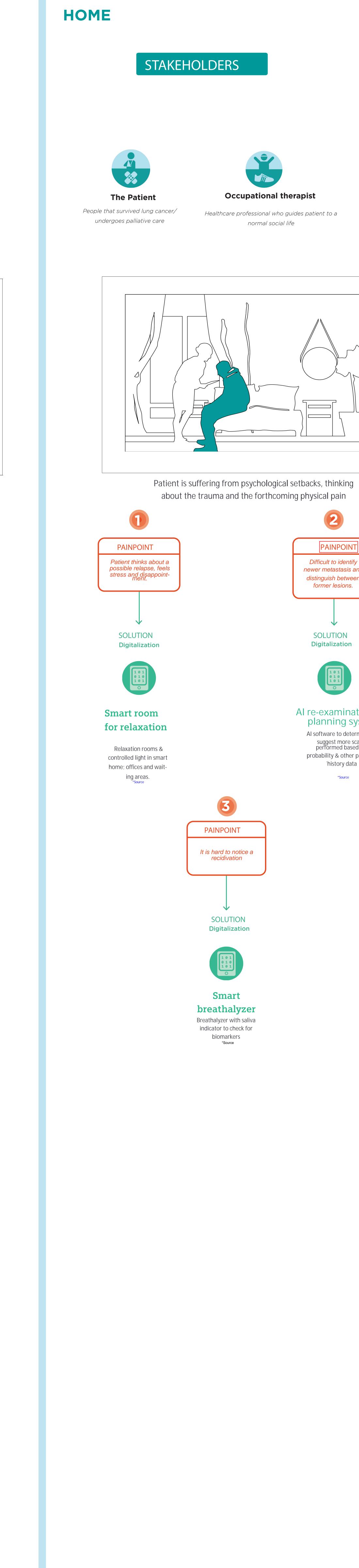
professional support groups via

applications

to do exercises. Patients can







Difficult to identify

newer metastasis and

distinguish between

Al re-examination

Al software to determine or

suggest more scans performed based on

probability & other patients

former lesions.