

World Patient Safety Day 2024

WHO Global Consultation



Improving diagnostic safety and
implementing the **Global Patient Safety Action Plan**
2021-2030

10th – 12th September 2024
Geneva, Switzerland



WPSD 2024 Global Consultation Improving diagnostic safety and implementing Global Patient Safety Action Plan 2021-2030

Housekeeping announcements

General

- 2.5 days hybrid consultation/09:00 CEST 10 Sep - 12:30 CEST 12 Sep
- 7 sessions/mix of presentations, panel discussions, expert dialogues, stories and sharing of experiences
- The official language of the consultation is English/No interpretation will be available
- Please, use the headphones for videos
- Recording will be available on official [WHO events webpage](#)
- For further questions, please contact: patientsafety@who.int

For virtual participants

- Connection platform is Zoom/Register [here](#), and feel free to share the link widely
- Participation is available for plenary sessions only/no live stream during breakout groups

For in-person participation

- Venue ILO, Salle E (main venue), Salle A and C (breakout groups)
- Coffee-breaks will be provided/No lunch will be provided
- WIFI connection is – please select ILO public and no password required
- Use microphones and introduce yourself before the intervention

Opening remarks



Dr Rudi EGGERS
Director
Integrated Health Services
WHO Headquarters
Switzerland



Objectives of the consultation

Introduction to the WPSD

2024 theme



Dr Irina PAPIEVA
Technical Officer/Lead a. i.
Patient Safety Flagship,
Integrated Health Services
WHO Headquarters
Switzerland



Address by the WHO Director-General



Dr Tedros Adhanom
GHEBREYESUS
WHO Director-General
WHO Headquarters
Switzerland





World Health
Organization



Welcome remarks

By Co-chair of the WHO World Patient Safety Day 2024 Steering Committee

Professor Yasuhiro SUZUKI
Advisor for International Affairs
Ministry of Health, Labour and
Welfare
Japan



Welcome remarks

By Co-chair of the
WHO World Patient Safety Day 2024
Steering Committee

Dr Deusdedit MUBANGIZI

Director, Health Products Policy and
Standards

WHO Headquarters



WHO Campaign video



Unlocking safer care: the imperative of diagnostic safety



Sir Liam DONALDSON
WHO Envoy for
Patient Safety
WHO headquarters



SLIDO: What do we know
and what do we still have
to learn about diagnostic
safety?





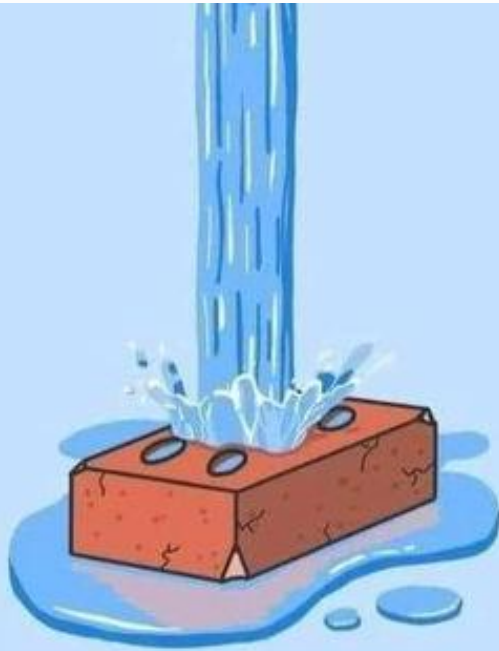
Two sides, one truth: experiences of diagnostic safety

Terence Vanginkel
WILDE
Patient representative
Canada

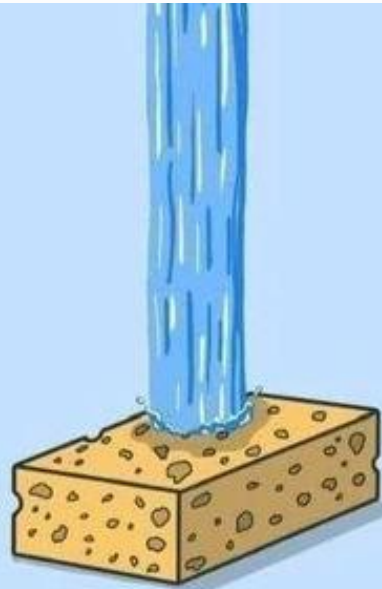


Aline Cristina
PEDROSO
Registered Nurse
Brazil





**LISTENING TO
RESPOND**



**LISTENING TO
UNDERSTAND**



Turning to Stone

SL Wilde



Lots of Delays in Diagnosis and Diagnostic Harm is Caused by Health Data Challenges



Patient Safety is not just the Absence
of Harm, but the Presence of Safety

Panel discussion 1

Understanding the landscape of diagnostic safety



Moderator

Sir Liam
DONALDSON
WHO Envoy for
Patient Safety
WHO HQ
Switzerland

Panellist

Ms Helen
HASKELL
President,
Mothers Against
Medical Error
USA

Panellist

Dr Gustavo Faissol
Janot de
MATOS
Intensive care
physician
Brazil

Panellist

Prof Carmel
MORAN
Chair of the World
Federation of
Ultrasound for
medicine and
biology Safety
Committee
Switzerland

Panellist

Dr Malathi
ARSHANAPALAI
Group Quality
Director and
Group Academic
Director, Aster DM
Healthcare, UAE

Panellist

Dr Henrietta HUGHES
Patient Safety
Commissioner
United Kingdom



Diagnostic safety; state of the science 2024

Prof. Hardeep SINGH

Co-Chief, Health Policy, Quality and
Informatics Program,

Michael E. De Bakey Veterans
Affairs Medical Center and Baylor
College of Medicine, USA



Diagnostic Safety: Basic Concepts, Application to Practice and How to Make Change

Hardeep Singh, MD, MPH

CENTER FOR INNOVATIONS IN QUALITY, EFFECTIVENESS & SAFETY (IQEST)

MICHAEL E. DEBAKEY VA MEDICAL CENTER

BAYLOR COLLEGE OF MEDICINE

TWITTER: [@HardeepSinghMD](https://twitter.com/HardeepSinghMD)



Two Decades of Multidisciplinary Work

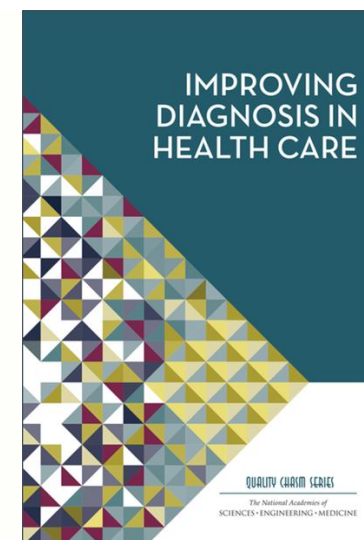
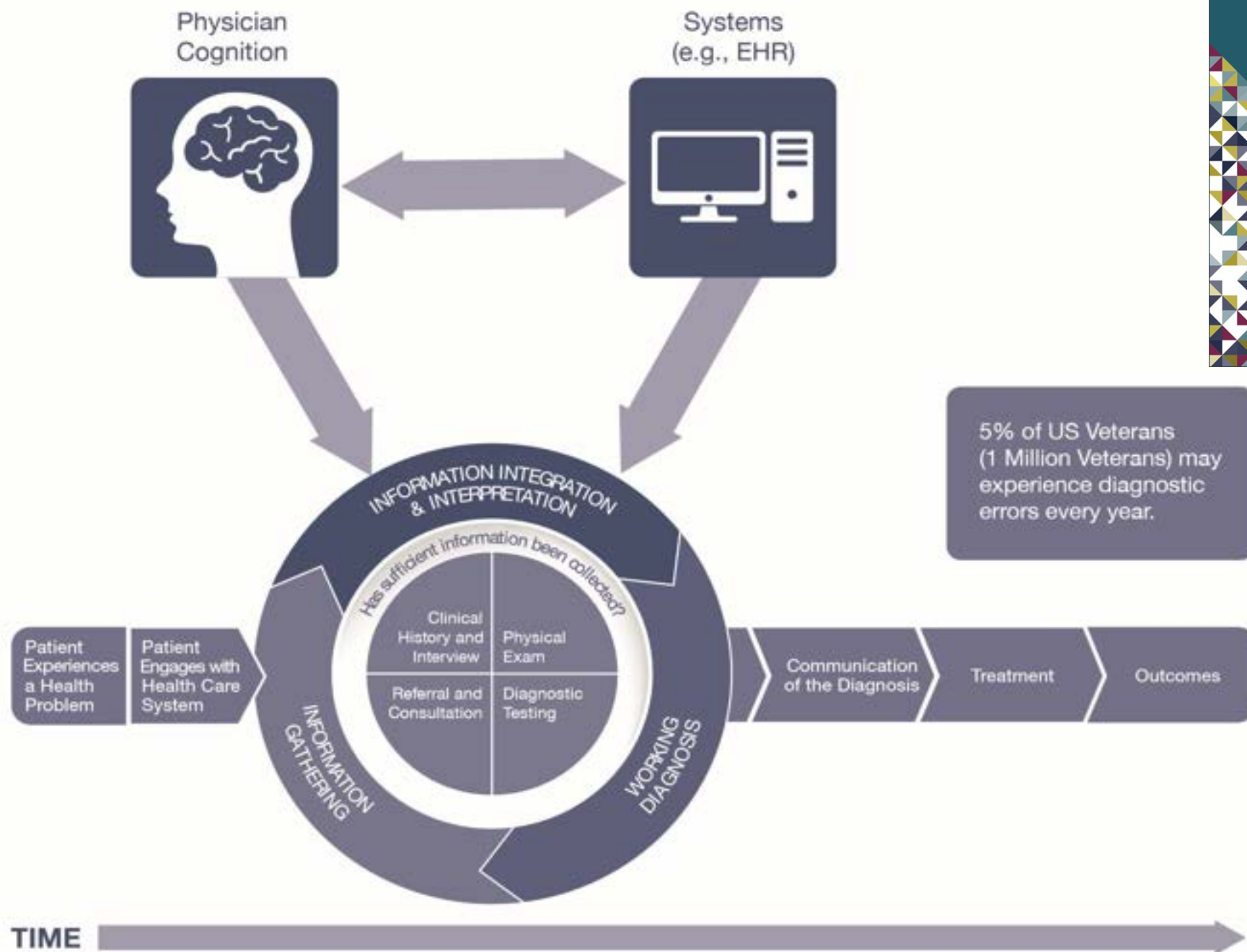


**Improving Diagnosis in Health Care — The Next Imperative
for Patient Safety**

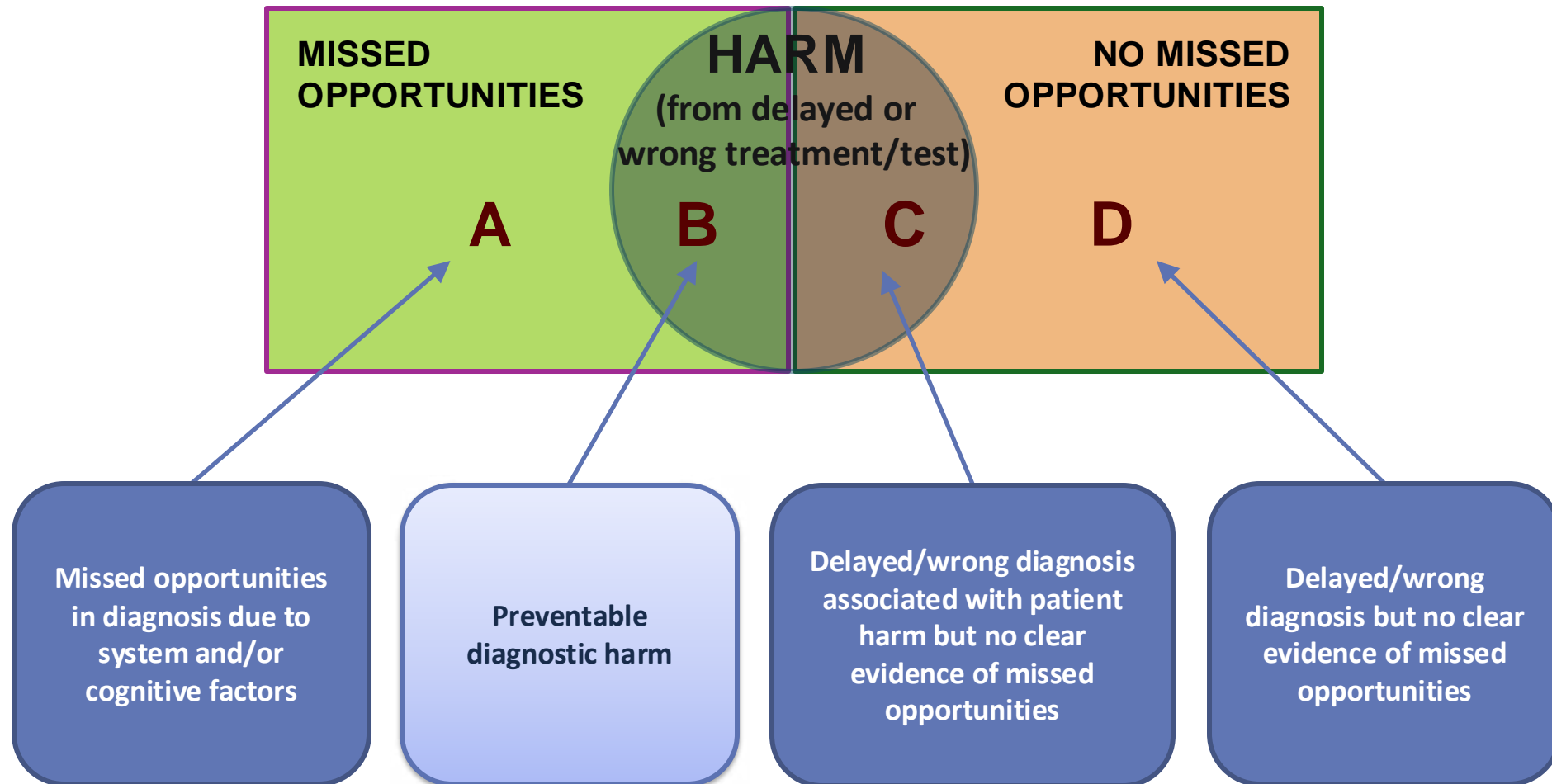
Hardeep Singh, M.D., M.P.H., and Mark L. Graber, M.D.



THE NEW ENGLAND
JOURNAL of MEDICINE



Defining Preventable Diagnostic Harm



Defining Diagnostic Safety Event

- Agency for Healthcare Research and Quality (AHRQ) Definition - criteria is met if one or both of the following occurred, whether or not the patient was harmed:
- 1) **Delayed, Wrong, or Missed Diagnosis:** There were one or more missed opportunities to pursue or identify an accurate and timely diagnosis (or other explanation) of the patient's health problem(s) based on the information that existed at the time.
- 2) **Diagnosis Not Communicated to Patient:** An accurate diagnosis (or other explanation) of the patient's health problem(s) was available, but it was not communicated to the patient (includes patient's representative or family as applicable).

Defining Diagnostic Safety: Five Attributes

Accuracy = diagnosis is correct

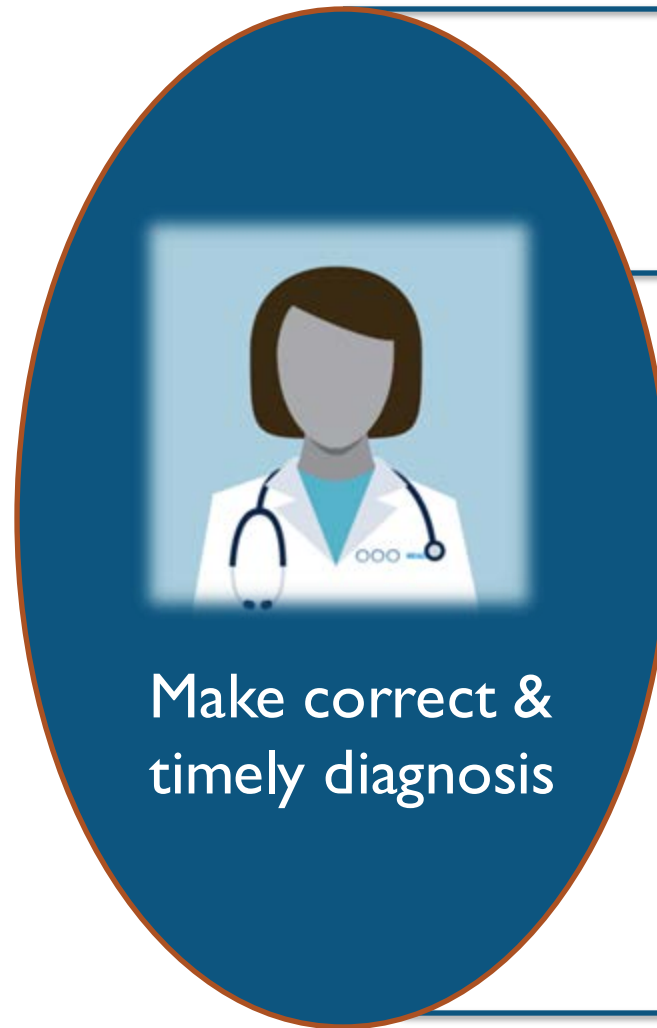
Timeliness = absence of significant preventable delays

Efficiency = appropriate/streamlined use of resources to make diagnosis

Patient-centered = maximizing patient experiences and ensuring the explanation of the health problem is communicated to and understood by the patient

Equitable = absence of preventable unwarranted variations in diagnostic processes among population groups that are socially, economically, demographically, or geographically disadvantaged

Defining Diagnostic Excellence



Use **fewest** resources

Maximize **patient experiences**

Manage and communicate **uncertainty** to patients

Tolerates **watchful waiting** when unfocused treatment may be harmful

Themes from Research Studies

Common diseases
missed

Missed opportunities
to elicit or act upon
key clinical findings
(history/exam)

Involves nearly all
diseases and
multiple care settings

Contributing Factors

Premature closure

Affective bias

Faulty synthesis

Overconfidence

Process failure

Unintended consequence of policy

Sample mix-up

Faulty data gathering

Failure to detect physical finding

Perception error

Misinterpretation of test

Wrong estimate of pretest probability

Inadequate follow-up

Failure to follow up abnormal test

Failed heuristic

Limited access

Communication failure

Knowledge deficit

Language barrier

Faulty triggering

Uninformed patient

Recommendations

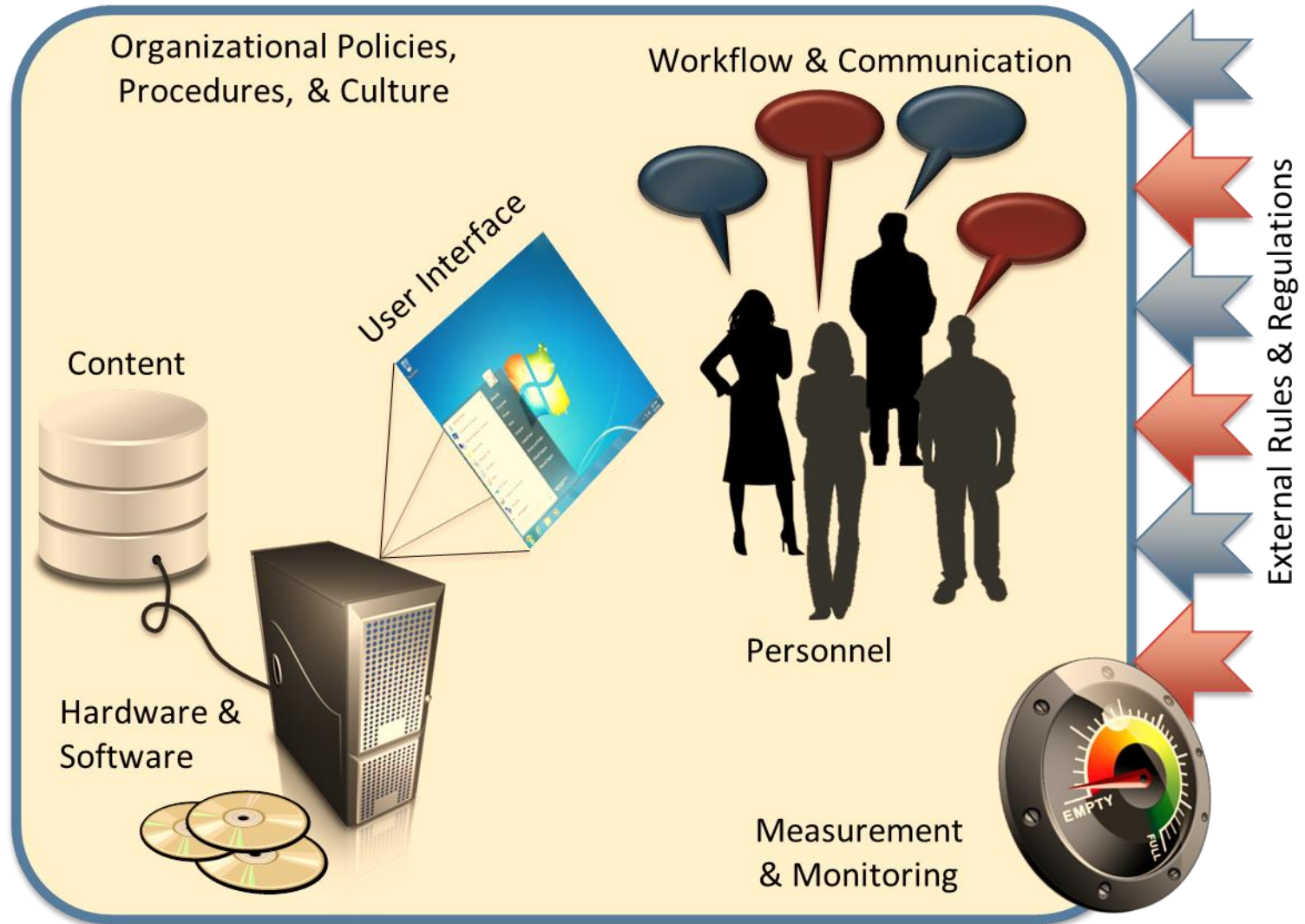
- More effective **teamwork** in the diagnostic process
- Enhance health care professional **education and training**
- Ensure **health information technologies** support patients and health care professionals
- Implement **approaches to identify, learn from, and reduce** diagnostic errors/near misses in clinical practice
- Establish a **work system and culture** that supports the diagnostic process and improvements
- Provide **dedicated funding for research** on the diagnostic process and diagnostic errors

Additional Progress

- Conferences and journal *Diagnosis*
- Several agencies now involved: AHRQ, CDC, Leapfrog, OECD and WHO
- Research being translated to patient care with new toolkits, guides and helpful resources
- Health care organization and systems more active in many countries

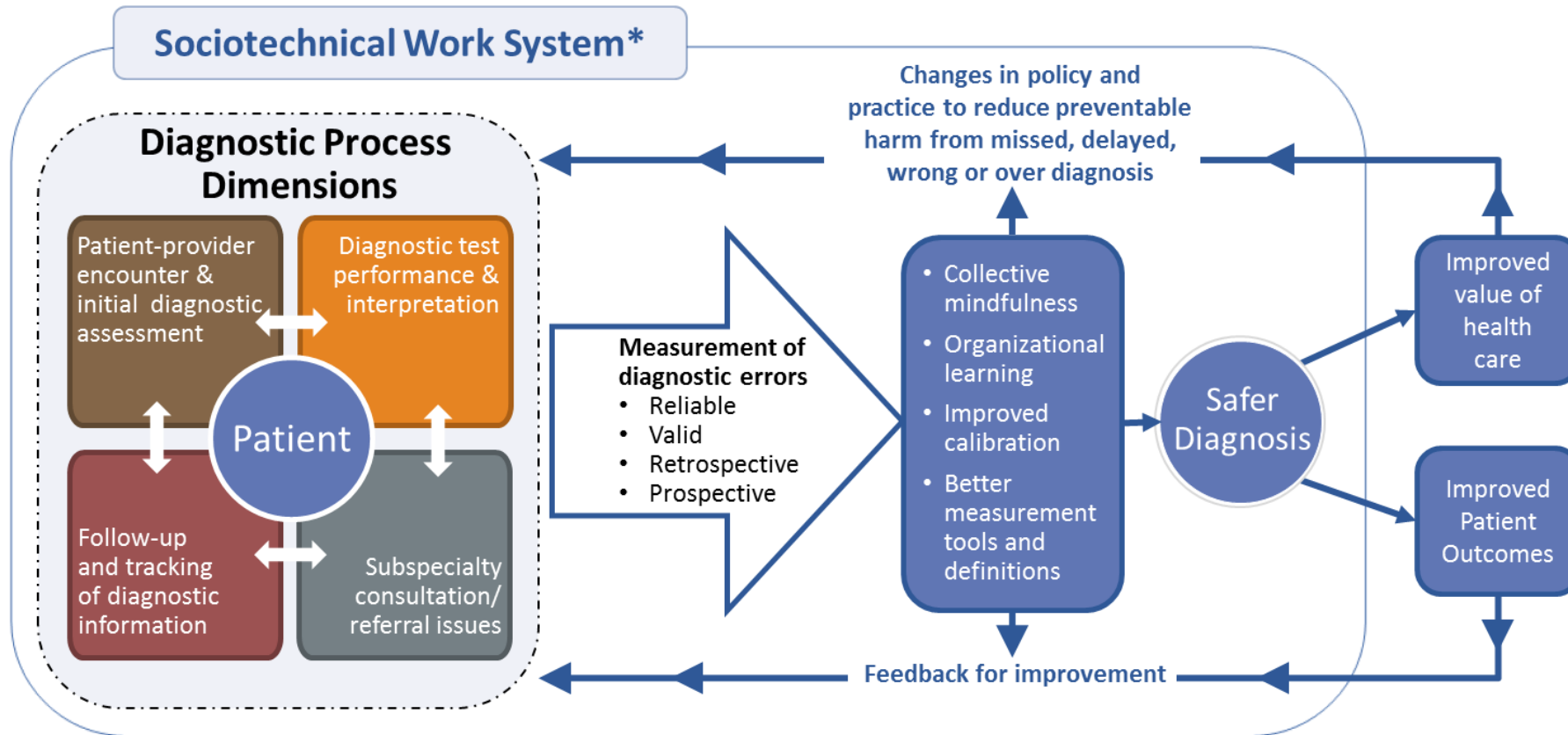
Some Major Gaps

- A comprehensive appreciation of diagnostic safety in low- and middle-income countries
- Data from certain care settings
- Culture and psychological safety issues
- Data sources esp. patient and clinician sources
- Measurement for improvement and learning



Focus on
Systems
Approaches

Safer Dx Framework for Measurement and Reduction of Diagnostic Errors



* Includes 8 technological and non-technological dimensions



Creating Learning Health Systems

The Safer Dx Checklist

10 High-Priority Practices for Diagnostic Excellence

PREPARED BY:

**Center for Innovation in Quality, Effectiveness, and Safety (IQuEST),
Michael E. DeBakey Veterans Affairs Medical Center and
Baylor College of Medicine, Houston, TX**

- Hardeep Singh, MD, MPH (Principal Investigator)
- Abigail Martinez, MPH
- Umair Mushtaq, MBBS, MS
- Umber Shahid, PhD, MPH

Geisinger, Danville, PA

- Divvy Kant Upadhyay, MD, MPH

Institute for Healthcare Improvement, Boston, MA

- Joellen Huebner, BA
- Patricia McGaffigan, RN, MS, CPPS

Toolkit for Engaging Patients To Improve Diagnostic Safety



Encourage patients to share their story with the **Be The Expert On You** note sheet



Build a collaborative environment using the **60 Seconds To Improve Diagnostic Safety** strategy

Calibrate Dx: A Resource to Improve Diagnostic Decisions

A tool for clinicians to evaluate and improve their own diagnostic decision-making.



Specify the calibration task



Plan and Apply improvement strategies



Evaluate diagnostic performance



Reflect on the exercise and adjust as needed

TeamSTEPPS® for Diagnosis Improvement



Module 1: Introduction



Module 2: Diagnostic Team Structure



Module 3: Communication



Module 4: Leadership



Module 5: Situation Monitoring



Module 6: Mutual Support



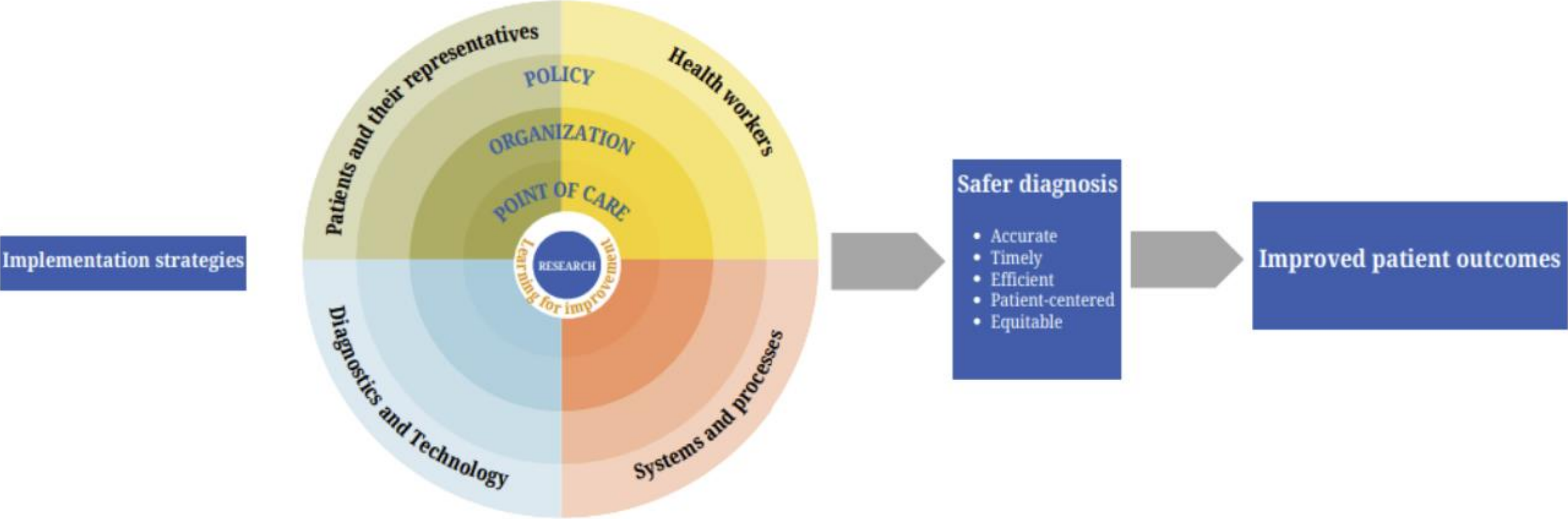
Module 7: Putting It All Together

Measure Dx

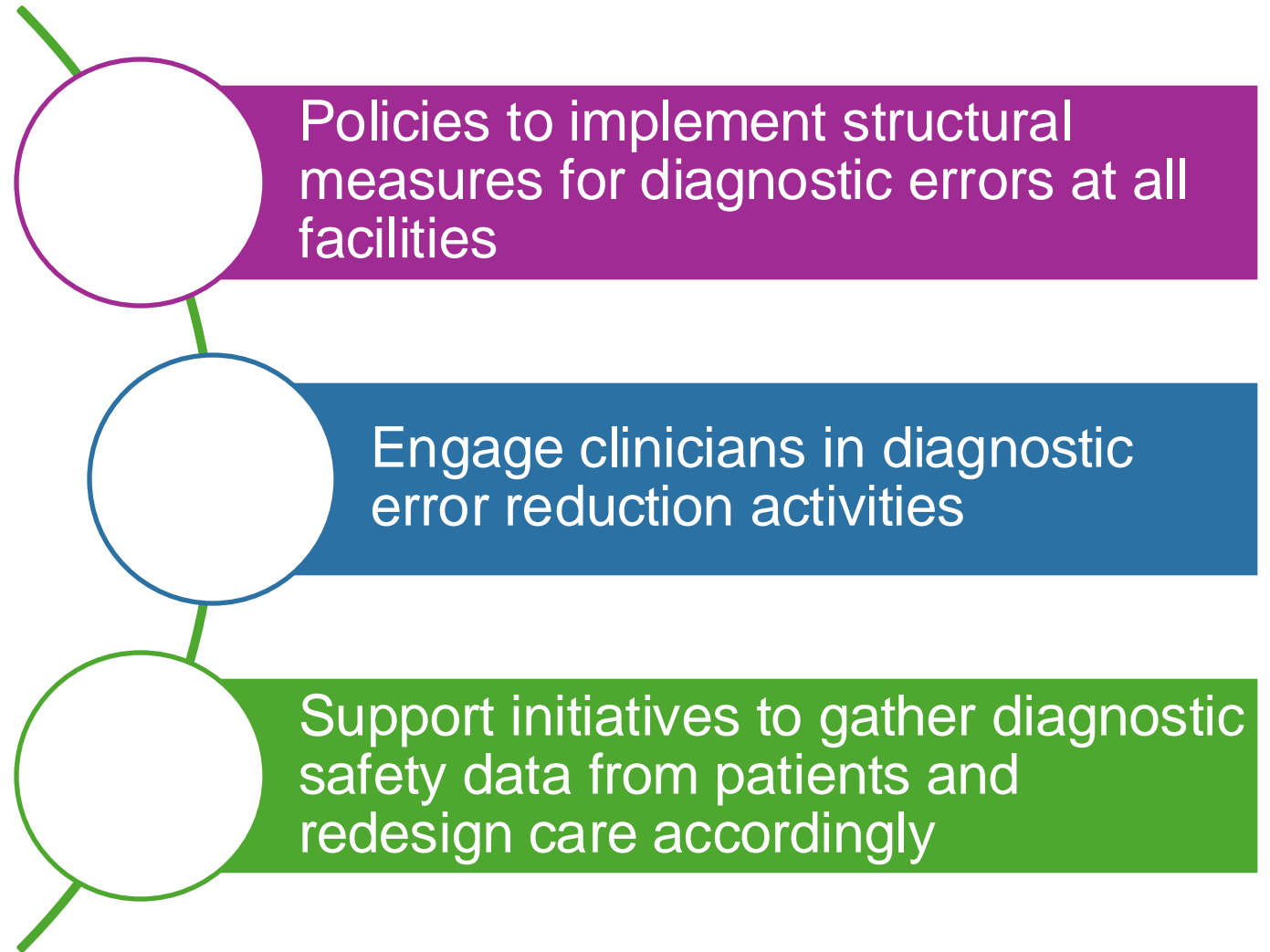
Measure Dx helps healthcare organizations detect diagnostic safety events and learn from them to gain actionable insights for improvement.



Figure 1. Implementation model to improve diagnostic safety



Next Steps for Diagnostic Safety?



Thank You

- **Funding Agencies that make research possible:**
 - Department of Veterans Affairs
 - Agency for Healthcare Research and Quality
 - Gordon and Betty Moore Foundation
 - CanTest - CRUK
 - ONC for SAFER Guides
- **Our multidisciplinary team at the Center for Innovations in Quality, Effectiveness and Safety (IQuES):**
 - Email: hardeeps@bcm.edu
 - Web:
<http://www.houston.hsrdr.research.va.gov/bios/singh.asp> and
www.bcm.edu/saferdx
 - Twitter: [@HardeepSinghMD](https://twitter.com/HardeepSinghMD)

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Session 1

Diagnostic safety - a team effort



Chairperson

Dr Abdulrahman ALHAWSAWI
Advisor
Saudi Patient Safety Centre
Saudi Arabia



Co-chairperson

Dr Tuija IKONEN
Finnish Centre for Client
and Patient Safety
Helsinki, Finland

Misdiagnosis, me and AI: a story for our times



Ms Sue SHERIDAN
Founding member,
Patients for Patient Safety, US
USA





Patients Use AI



Sue Sheridan is hit with another medical error. This time, ChatGPT prevented the worst.

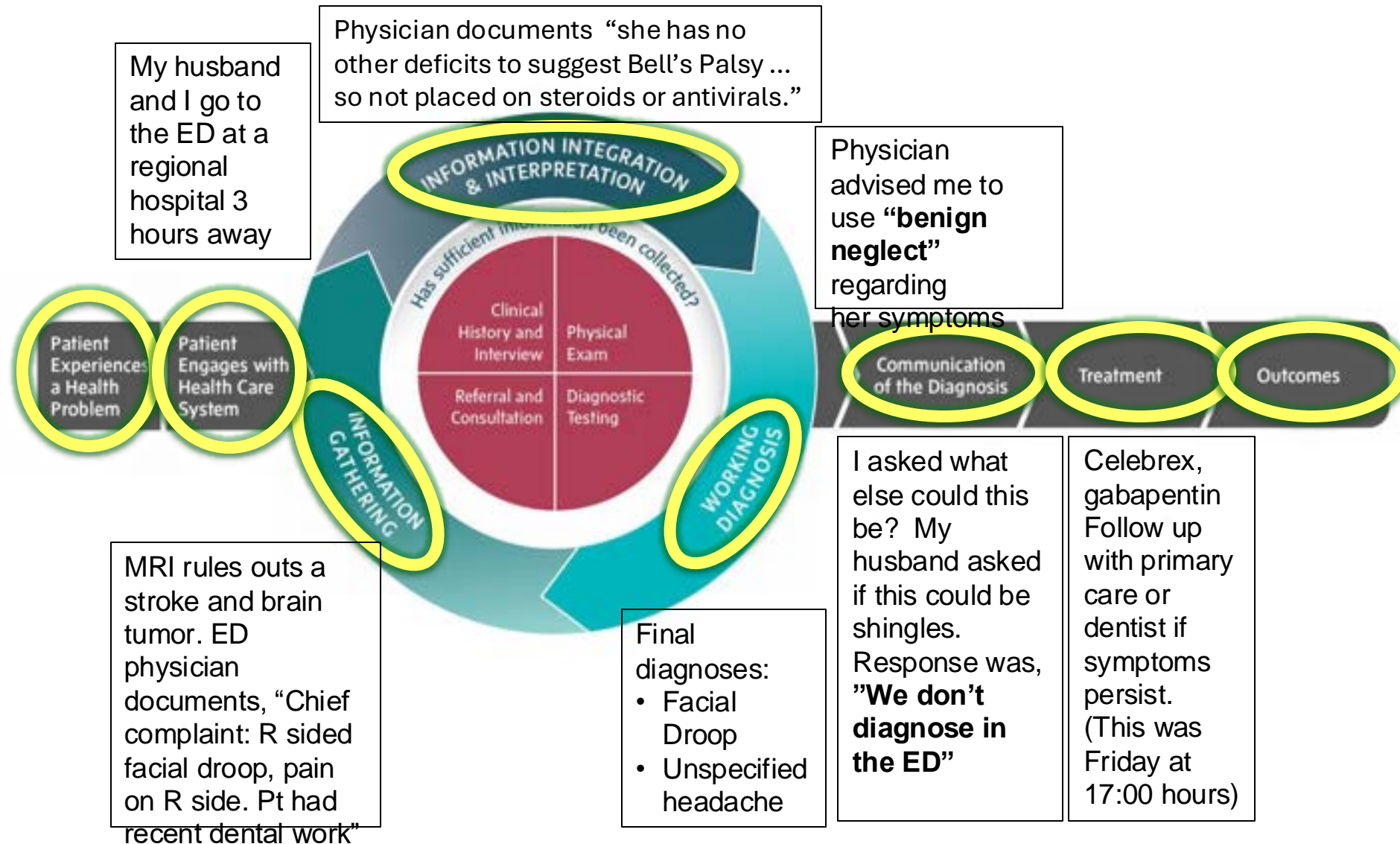
Patient safety legend Sue Sheridan had never touched AI. But then ...



DAVE DEBRONKART

AUG 27, 2024

Sue's DX Journey - Day 1




SOURCE: National Academies of Sciences, Engineering, and Medicine. 2015.
Improving Diagnosis in Health Care. Washington, DC: The National Academies Press.

Turning to ChatGPT:

A “second opinion” to support us in decision making

= ChatGPT > 

Facial droop, facial pain
and dental work

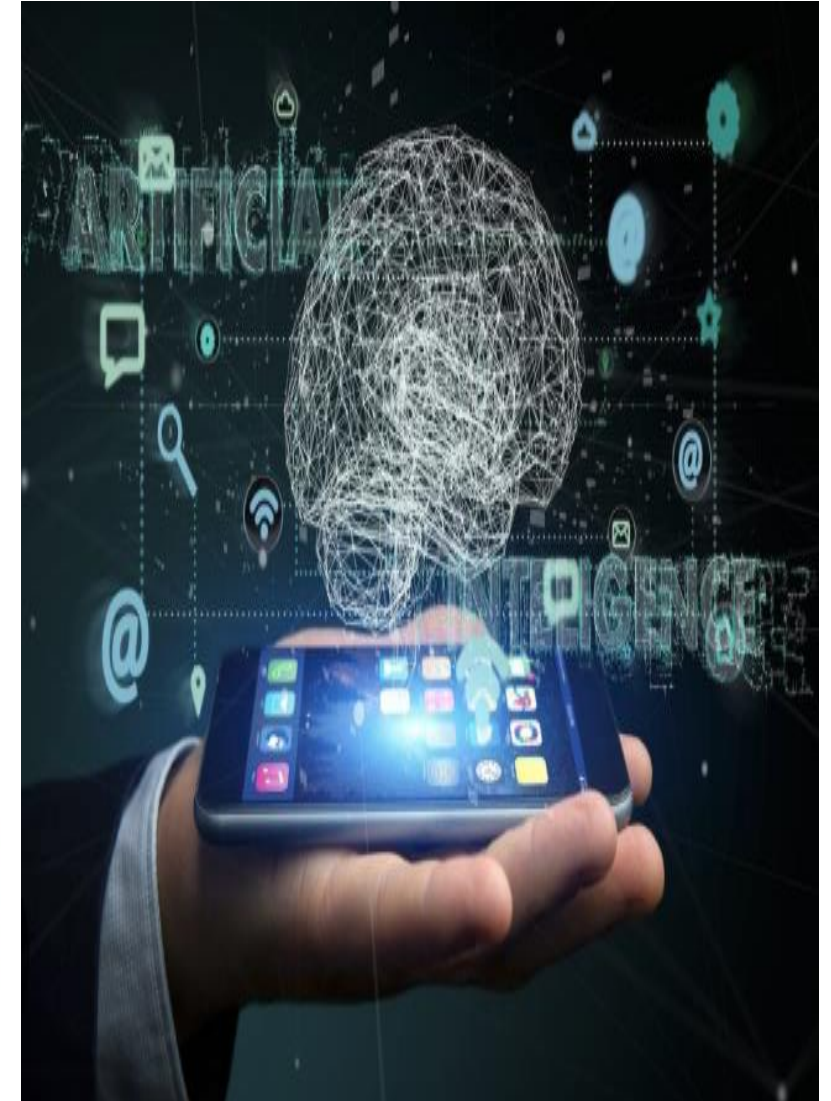
-  Facial droop and facial pain after dental work could be related to several different causes. Here are a few possibilities:
3. **Bell's Palsy:** This condition causes sudden weakness or paralysis on one side of the face and can be triggered by stress or viral infections. Dental work, especially if it involves significant stress, might precipitate an episode.

Treatment Options

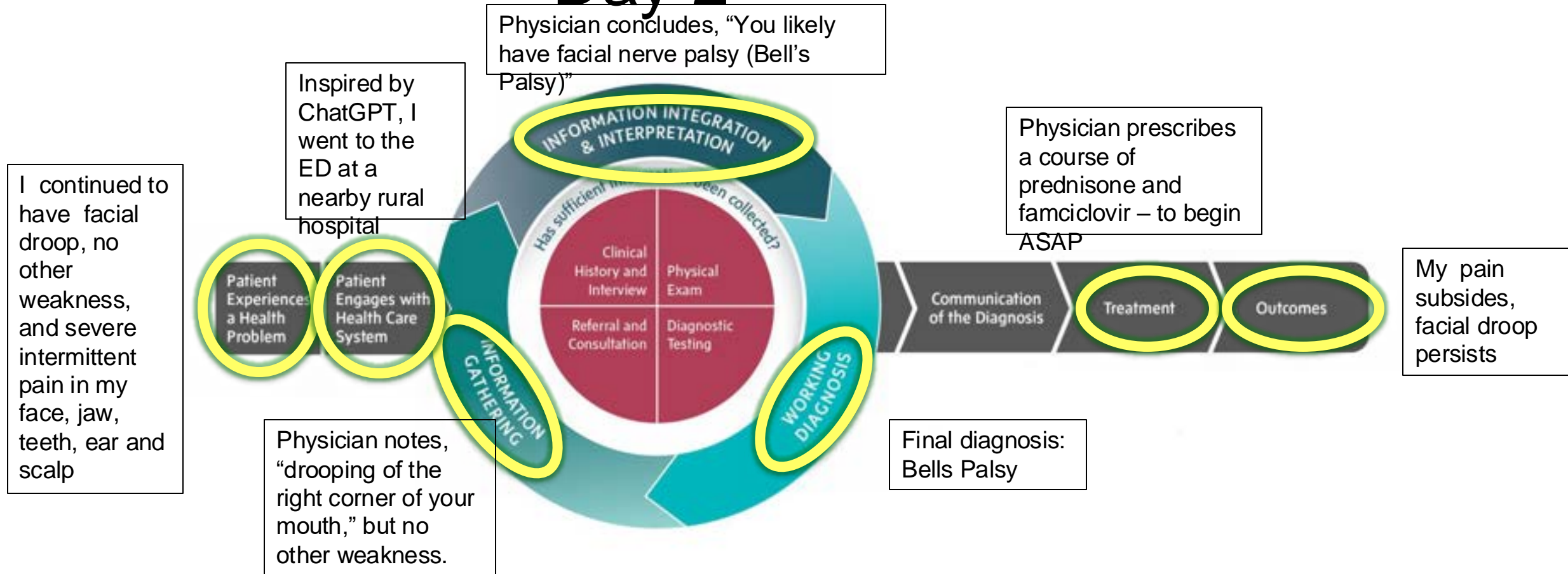
1. **Corticosteroids (e.g., Prednisone):**

- The most effective treatment when started early.
- Reduces inflammation around the facial nerve.
- **Window:** Most effective if started within **72 hours** of symptom onset.

2. **Antiviral Medications (e.g., Acyclovir or Valacyclovir):**

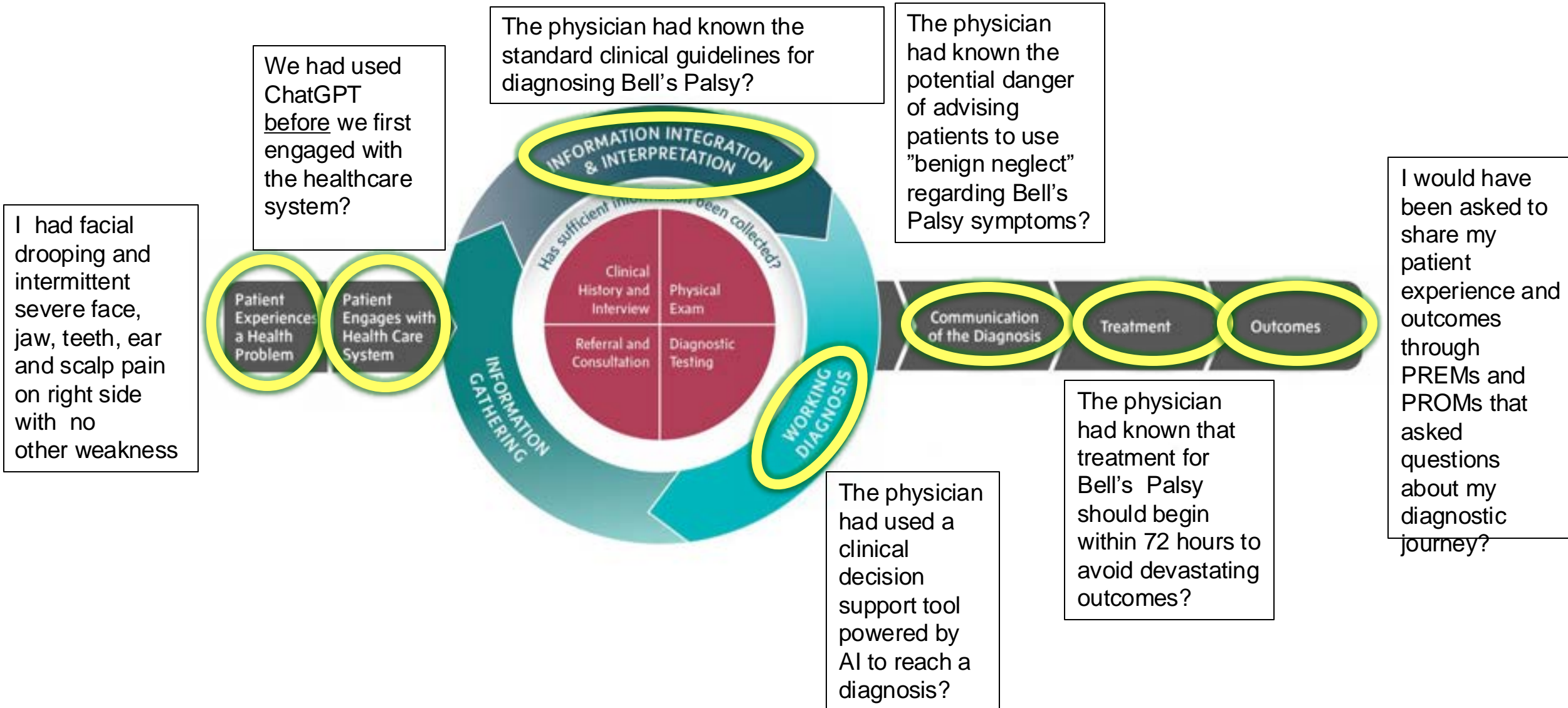


Sue's Journey - Day 2



SOURCE: National Academies of Sciences, Engineering, and Medicine. 2015.
Improving Diagnosis in Health Care. Washington, DC: The National Academies Press.

“What if.....”



SOURCE: National Academies of Sciences, Engineering, and Medicine. 2015.
Improving Diagnosis in Health Care. Washington, DC: The National Academies Press.

#PatientsUseAI

Patients are end users of AI

Medical work patients do with AI:



Created by Lark Proke
from Noun Project

Patient
administrative
burden



Created by Secondthoughts
from Noun Project

Organizing
records
for action



Comprehension
(records and
literature)



Created by Ana Khramova-Dini
from Noun Project

Difficult
diagnosis



Created by Eiriksson
from Noun Project

Exploring
knowledge &
options

How can we leverage the promise of AI?

“ To help patients - the largest workforce out there - help themselves responsibly?” Khang Nguyen, MD, Chief Transformation Officer at S. California Kaiser Permanente

To collaborate with clinicians to help them incorporate AI-based input from patients?

To ensure that diagnostic errors discovered by AI generate learnings for clinicians?

And build AI systems that align with patient rights and interests by engaging them in co-development and governance?



How can we change a culture

**That dismisses and disrespects
patients who use information....**

*“no slander intended to the family
as i acknowledge their frustration
during a medical crisis, but pts that
“doctor shop” multiple different
doctors across multiple hospitals
during an acute disease flare are
contributing to the epidemic of dx
error.”*

**To a culture that celebrates
informed patients?**

*“As a seasoned general surgeon, I
can say that there is nothing like
being graced with an informed
intelligent patient who advocates for
themselves or their family members
and friends.”*



My biggest “what if”

What if I had used “benign neglect”
and hadn’t turned to AI?

How can we

Maximize the agency of patients to have the power and resources to fulfill their potential in getting an accurate and timely diagnosis?

Only then can patients help healthcare achieve its maximum potential.



Panel discussion 2

Enhancing diagnostic safety



Moderator
Dr Abdulelah
ALHAWSAWI
Advisor
Saudi Patient
Safety Centre
Saudi Arabia



Panellist
Dr W M Upuli S
Wijemanne
Director,
Healthcare
Quality and
safety
Ministry of
Health, Sri Lanka



Panellist
Dr Ali ASERI
Director General
Saudi Patient
Safety Center,
Saudi Arabia



Panellist
Dr Aidan FOWLER
National Director,
Patient Safety
England
United Kingdom



Panellist
Dr Lydia
OKUTOYI
Director of
Healthcare
Quality
Kenyatta National
Hospital
Kenya



Panellist
Dr Mark L. GRABER
Professor Emeritus of
Medicine at Stony
Brook University
New York
USA



The implementation model for improving diagnostic safety



Dr Irina PAPIEVA
Technical Officer/Lead a. i.
Patient Safety Flagship,
Integrated Health Services
WHO Headquarters
Geneva, Switzerland





Implementation model for improving diagnostic safety

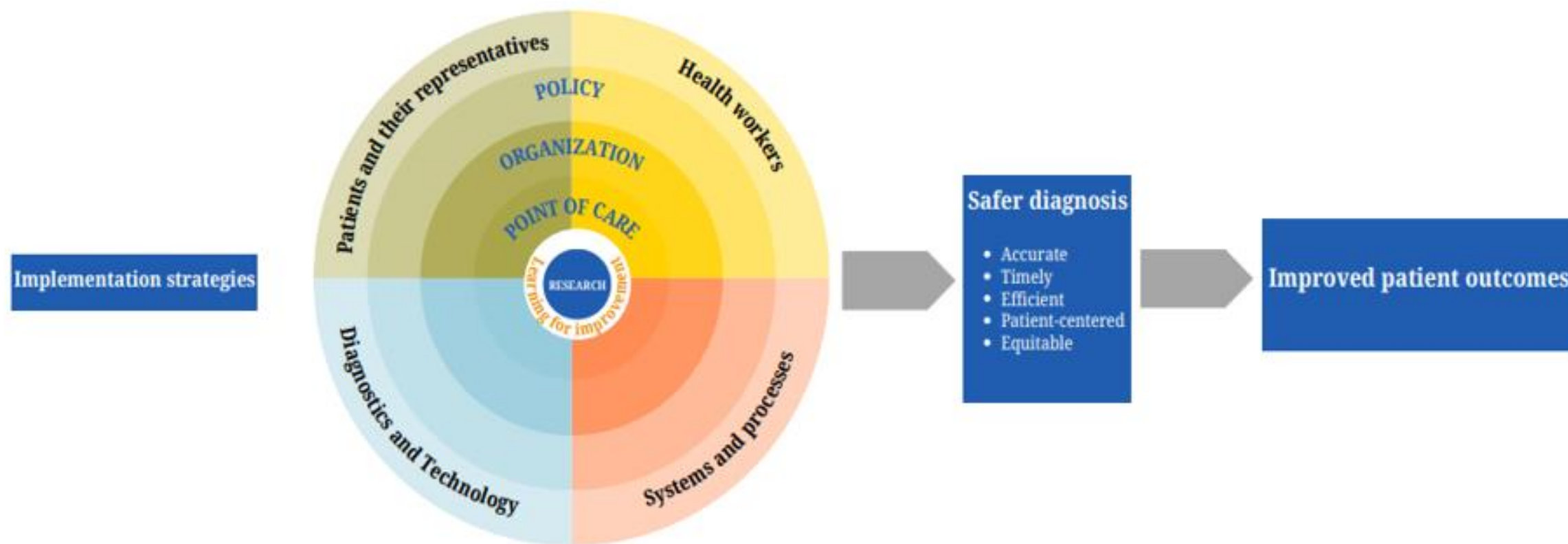
Why does diagnostic safety matter?

- Diagnostic safety is the cornerstone of patient care - it is a foundation of effective treatment and equitable care for all
- It concerns all clinical disciplines and health programmes
- Diagnostic errors are a major source of preventable patient harm
- There is an economic impact of diagnostic errors
- Multiple stakeholders are to be involved in improving diagnostic safety
- Making the change implies profound systemic challenges

Major challenges to improving diagnostic safety

- **Burden of harm:** where does the data come from?
- **Settings and levels of care provision:** do we know enough?
- **Sources of data:** are they informative enough?
- **Systemic vs specific and focused point-of-care interventions:**
which are the most effective, efficient, and feasible
- **Improvement strategies:** knowledge gap - how to achieve diagnostic excellence?
- **Measurement:** how to measure diagnostic safety and monitor implementation progress?

Implementation model for improving diagnostic safety



Why developing an implementation model for improving diagnostic safety is important?

- **Systematic and systemic approach** to reducing diagnostic errors
- Integration of **best practices** and **evidence-based interventions**
- Facilitation of **engagement and collaboration** of multiple stakeholders with clear roles and responsibilities
- Mechanisms for **tracking progress, measuring the impact** of interventions and continuously **improving strategies**
- **Scaling up successful interventions and ensure sustainability** across different settings and context



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Session 2

Diagnostic safety - unveiling challenges and crafting solutions



Chair

Dr. Blerta MALIQI
Unit Head,
Quality of Care
IHS Department
WHO, HQ



Co-chair

Ingo HARTEL
Ministry of Health
Berlin, Germany

Economics of patient safety



Ingo HARTEL
Ministry of Health
Berlin, Germany



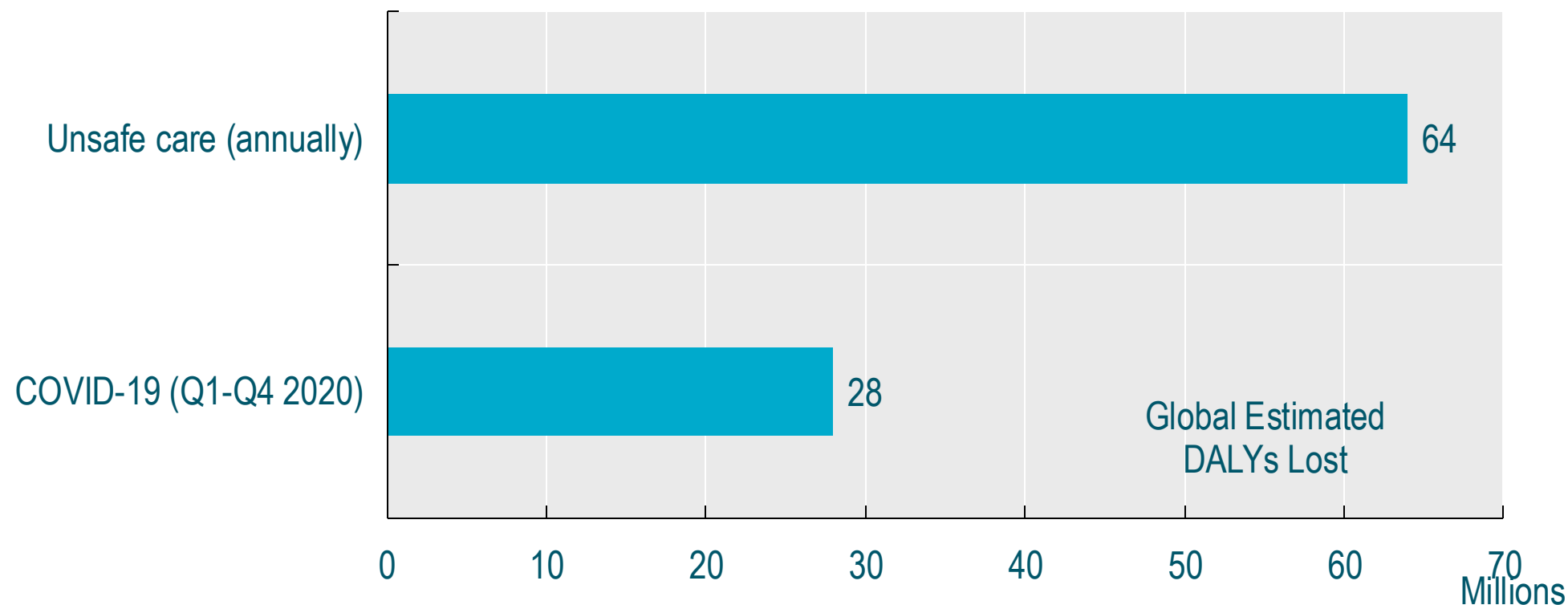
Ms Katherine DE BIENASSIS
Health Policy Analyst,
Health Division
Directorate for Employment, Labour,
and Social Affairs, OECD





The global health burden of patient safety is massive and often overlooked

Comparative disease burden of COVID-19 and Patient Safety Failures



Source: (Fan et al., 2021[11]; WHO, n.d.[12]; WHO, 2019[13]). Note: Long-COVID not included in global estimate of DALYs lost.



Beyond the human costs, the financial costs to health systems are significant



On average, 1 in 10 hospitalizations results in a safety failure.

Approximately **15% of hospital expenditure** and activity in OECD countries can be **attributed to treating safety failures**.



About 50% of the patient harm burden originates in primary and ambulatory care

Safety lapses in primary resulting in hospitalisations each year may account **>7 million admissions in the OECD**.



Over half of the harm that occurs in long term care is preventable

The cost of annual avoidable admissions to hospitals from long term care facilities are **equivalent to 4.4% of all spending on hospital care**.

The Economics of Patient Safety



Primary Care



Long Term Care



Medication Safety



Worker Safety



Patient Engagement



The Economics of Diagnostic Safety Setting the Scene

Katherine de Bienassis, OECD

10 September 2024



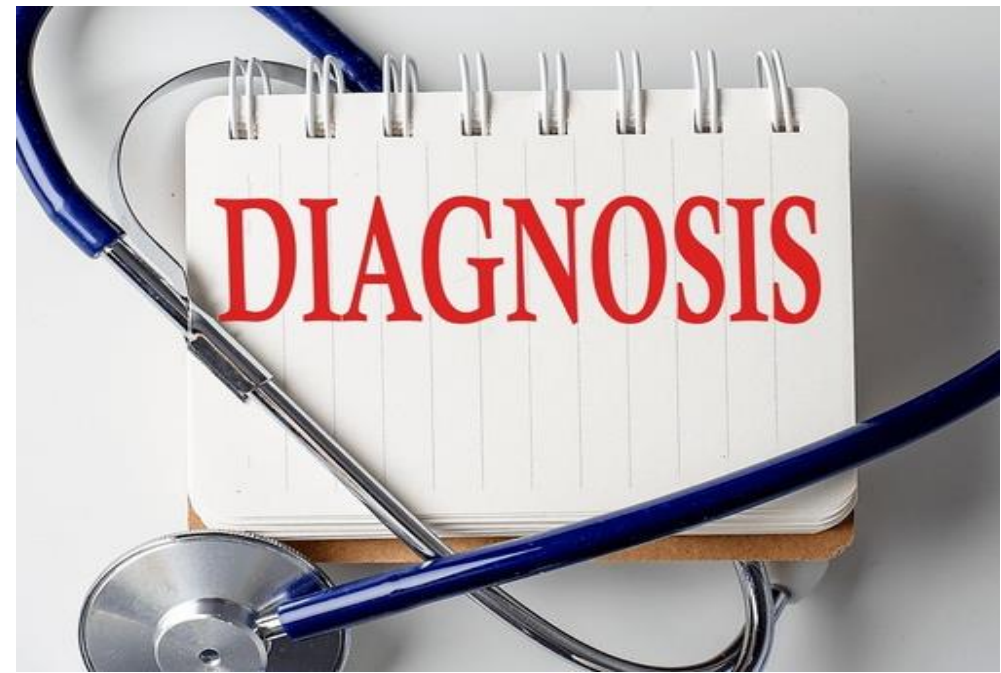


Putting the focus on diagnosis

Most people will experience at least one diagnostic error in their lifetime, sometimes resulting in severe patient harm.

- > Findings using patient-reported experience of safety data in Norway found that **over 15% of patients reported getting a wrong or delayed diagnosis** in connection with their hospital stay.
- > Findings from the United Kingdom show that asthma **overdiagnosis and underdiagnosis** among children were potentially as high as 15% and 40% respectively.
- > Globally, up to 70% of persons with chronic obstructive pulmonary disease (COPD) or asthma do not receive a formal diagnosis of the condition.

Up to 80% of all harm caused by delayed or wrong diagnosis could be preventable.

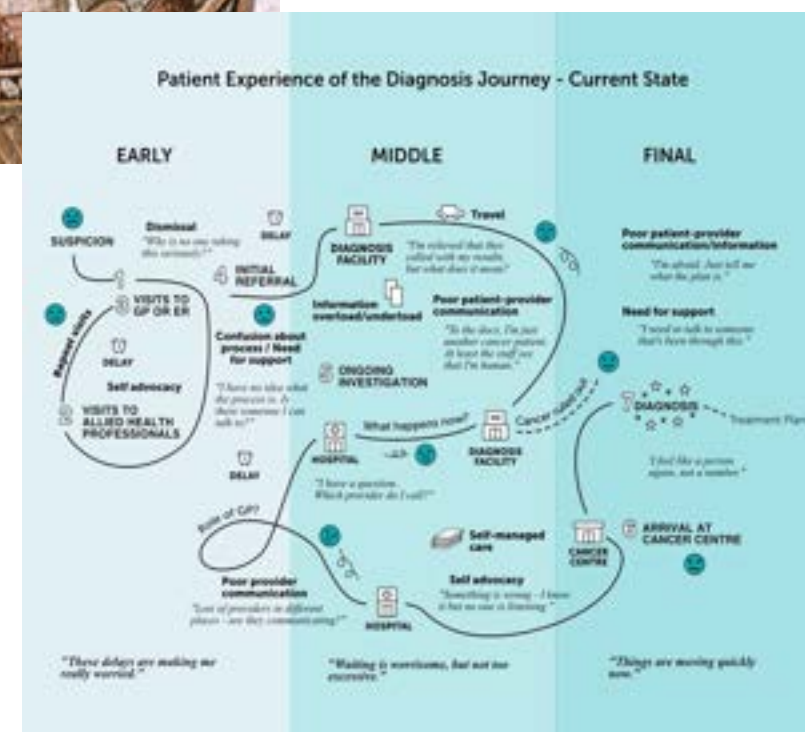




Medical diagnosis: embracing clinical, technological and organisational complexity

The complexity of diagnosis an important contextual factor that can impact quality of care.

- Diagnosis is an iterative process
- Basis in statistics; never 100% accurate
- Lack of consensus or routine challenges
- The path is not straightforward

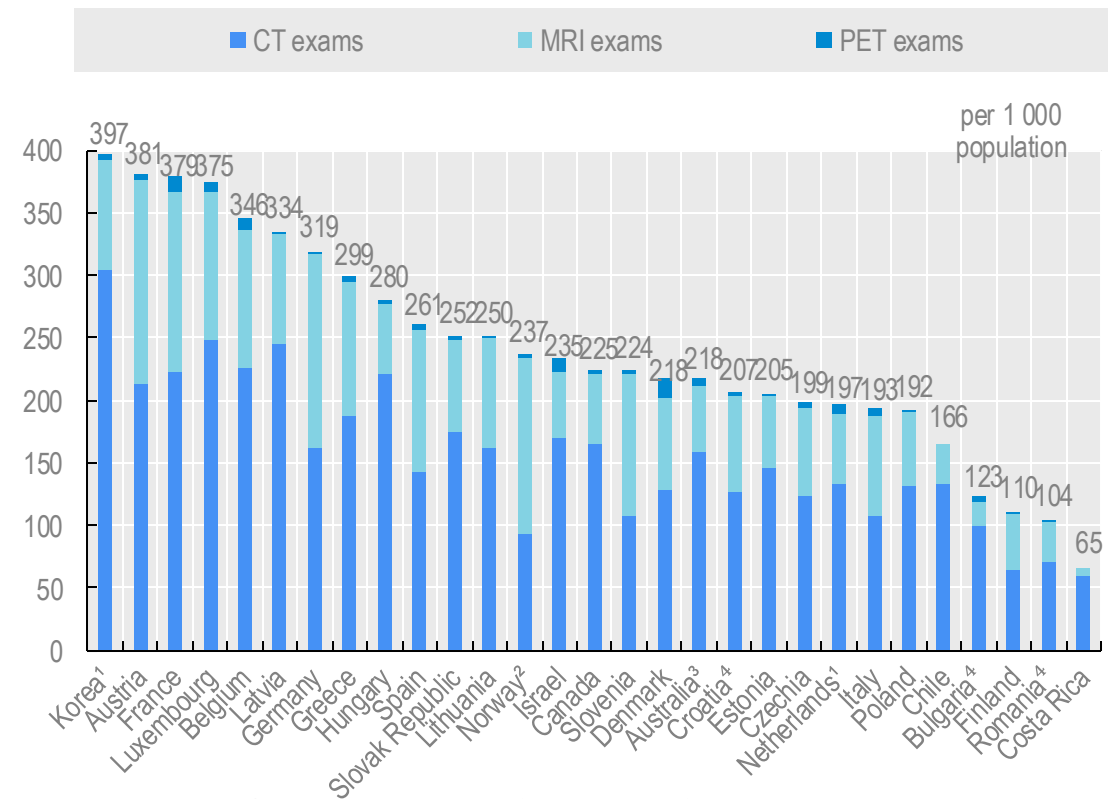


Foundations for exploring the economics of diagnostic safety

Key Concepts

- Diagnosis and diagnostics
- Overdiagnosis and under diagnosis
- Misdiagnosis and untimely diagnosis

CT, MRI and PET exams, 2022 (or nearest year)



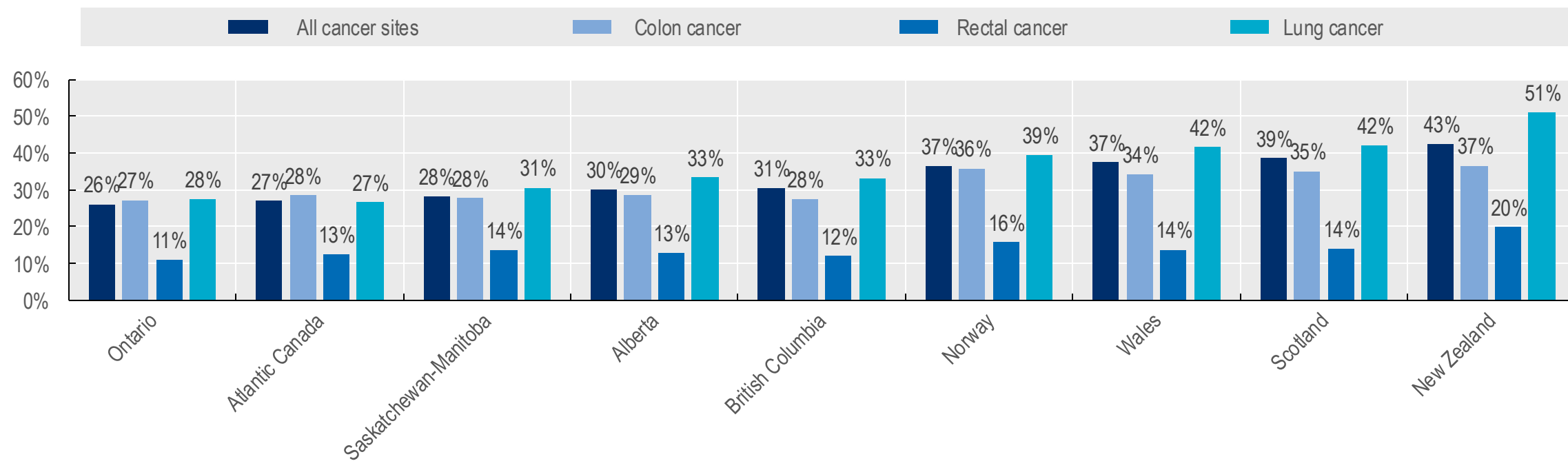
1. Data exclude privately funded exams. 2. Data include only exams outside hospital. 4. Data exclude exams on public patients.

Source: OECD Health Statistics 2024.



Untimely diagnosis lead to poorer patient outcomes

- > **Timeliness** is an essential component of diagnostic quality and safety
- > Delays can lead to **progression of disease** (or spread of communicable diseases), reduced effectiveness of available treatments, and patient anxiety.
- > Cancer diagnosis following emergency presentation has been found to be associated with lower survival and **worse patient-outcomes** as compared to patients with non-emergency diagnoses, even after adjustment for stage at diagnosis



Source: McPhail et al. (2022^[25]), "Risk factors and prognostic implications of diagnosis of cancer within 30 days after an emergency hospital admission (emergency presentation): an International Cancer Benchmarking Partnership (ICBP) population-based study", [https://doi.org/10.1016/S1470-2045\(22\)00127-9](https://doi.org/10.1016/S1470-2045(22)00127-9).



The burden of diagnostic safety failure is underestimated and likely substantial to economies

- Costs associated with false-positive mammograms and breast cancer overdiagnoses exceed **\$4 billion annually** in the US
- The scope of the problem and related costs are likely underestimated:
 - > 2.59 million diagnostic errors occur in the US each year, resulting in 371,000 deaths and 424,000 permanently disabled
 - > True costs of diagnostic error may be **20 times higher** than would be discerned by retrospective record review



(Ong and Mandl, 2015; Dinnes et al., 2022; Newman-Toker et al., 2024; Schwartz et al., 2012).



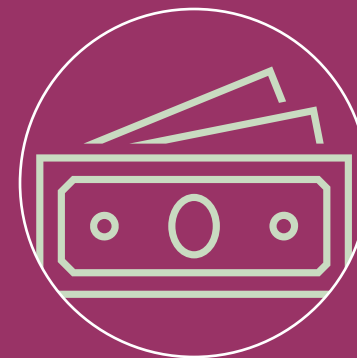
Three lenses to explore



Clinical application of
diagnostic tests and
procedures



Behavioral
dimensions related to
the diagnostic
process



Consequences of
diagnostics and the
diagnostic process
for resource use





A stronger focus on diagnostic safety will save lives and money

Diagnostic outcomes can be improved via interventions targeting the health system, clinical environment, and individual providers

1

Structural aspects of **health system design and governance** (e.g. standards, systems, culture, incentives)

2

Interventions related to the clinical environment to improve **information exchange, culture and work environment, patient engagement and communication**, and the use of **technology and tools**.

3

Interventions to influence and improve individual decision making by supporting the development of **clinical knowledge, skill and acumen**.

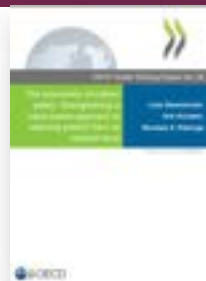


Thank you and stay safe

The Economics of Patient Safety Series



The Economics of Patient Safety



Primary Care



Long Term Care



Medication Safety



Worker Safety



Patient Engagement



<https://www.oecd.org/health/patient-safety.htm>

Stay in touch



Katherine.debienassis@oecd.org

Interactive ice breaker: human factors



Dr Yin SHANQING
Assistant Director,
Department of Human Factors and
Systems Design
KK Women's and Children's
Hospital
Singapore



Experiencing Human Factors Science

(An Interactive Quiz Session)

ARE YOU READY TO PLAY ?



Access the **Slido** using the following QR code.

There are **Nine** multiple-choice questions.

For each question, there is a time limit for you to respond. Select your answer as quickly as you can!



Let's get ready!

Q1. What is the color theme of World Patient Safety Day?

A

Blue

B

Green

C

Orange

D

Yellow

slido

Please download and install the Slido app on all computers you use



What is the color theme of World Patient Safety Day?

① Start presenting to display the poll results on this slide.

The background is a solid orange color. Overlaid on this is a graphic consisting of several concentric circles and a spiral. The circles are in a lighter shade of orange, and the spiral is a slightly darker shade, creating a layered, organic effect.

Introducing the Patient Safety Flagship Team



Q2. Who likes to eat Indian food the most?

A

Irina

B

Alex

C

Nikhil

D

Priya

E

Maroua

F

Ayda

slido

Please download and install the Slido app on all computers you use



Who likes to eat Indian food the most?

① Start presenting to display the poll results on this slide.

Why did you choose your answer?



...

Q3. Whose latest hobby is diving?

A

Irina

B

Alex

C

Nikhil

D

Priya

E

Maroua

F

Ayda

slido

Please download and install the Slido app on all computers you use



Whose latest hobby is diving?

① Start presenting to display the poll results on this slide.

Heuristics & Biases

instinctive mental shortcuts to
simplify decision-making

influence how we gather, interpret,
and use information



System 1 Thinking

intuitive; fast and efficient,
especially under time pressure
prone to overlooking other details
and premature closure



The background features a solid dark green field. Overlaid on this are several concentric circles in a lighter shade of green. A white spiral line starts near the center and winds outwards, passing through the circles.

Get ready for
Question 4!



Q4. A bat and ball together cost \$1.10.
The bat costs \$1 more than the ball.
How much does the ball cost?

A

\$0.10

B

\$0.05

C

\$0.20

D

\$0.90

slido

Please download and install the Slido app on all computers you use



**A bat and ball together cost \$1.10.
The bat costs \$1 more than the ball.
How much does the ball cost?**

① Start presenting to display the poll results on this slide.

System 2 Thinking



slow, logical processing; mental search for additional information

requires time and focused attention; need protection from distractions



Next up, two questions!



Q5. While going straight, if I turn the steering wheel of my car clockwise, which direction will my car turn towards?

A

Left

B

Right

slido

Please download and install the Slido app on all computers you use



**While going straight, if I turn the steering wheel of my car clockwise,
which direction will my car turn towards?**

① Start presenting to display the poll results on this slide.

Q6. Patient says, "This lingering, aching back pain is making it hard for me to tolerate sitting at my desk for more than an hour."

What do you think is the pain score (1-10)?

A

2 to 3

B

4 to 5

C

6 to 7

D

8 to 9

slido

Please download and install the Slido app on all computers you use



Patient says, “This lingering, aching back pain is making it hard for me to tolerate sitting at my desk for more than an hour.”.

What do you think is the pain score (1-10)?

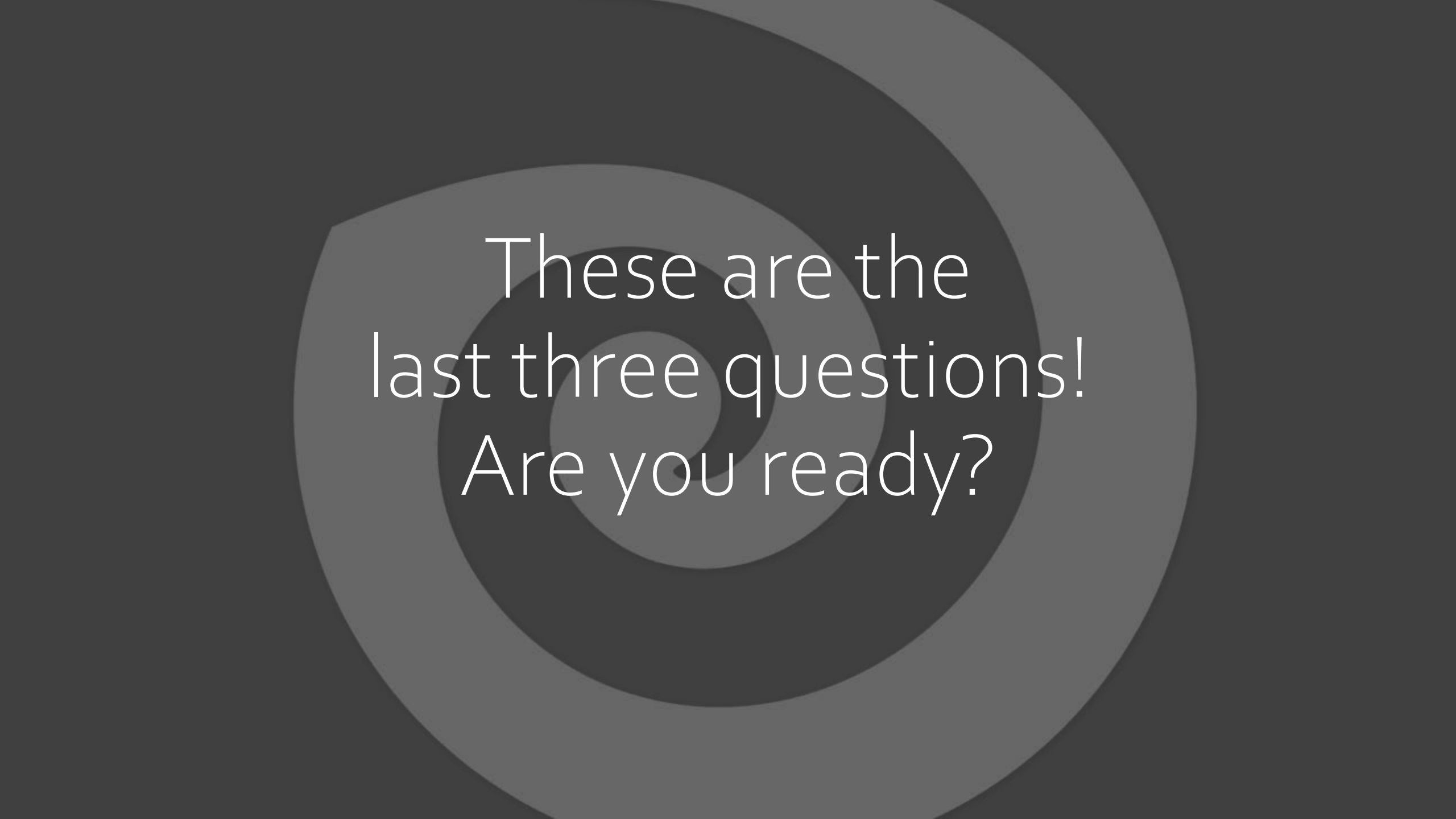
① Start presenting to display the poll results on this slide.

Mental Model

built on knowledge,
information, and experiences;
simplified, might vary between
individuals

allows for mental simulation





These are the
last three questions!
Are you ready?



Q7. In the next image, identify which cerebral hemisphere the shark is in





A

Left

B

Right

slido

Please download and install the Slido app on all computers you use



In the next image, identify which cerebral hemisphere the shark is in

① Start presenting to display the poll results on this slide.

Segment	Unit	Measured	Normal Range
Right Arm			
	kg	3.93	2.69~3.65
Left Arm			
	kg	4.01	2.69~3.65
Trunk			
	kg	29.7	22.8~27.8
Right Leg			
	kg	11.20	7.93~9.69

Q8. Which measured reading is MOST out of range?

A

Right Arm

B

Left Arm

C

Trunk

D

Right Leg

slido

Please download and install the Slido app on all computers you use

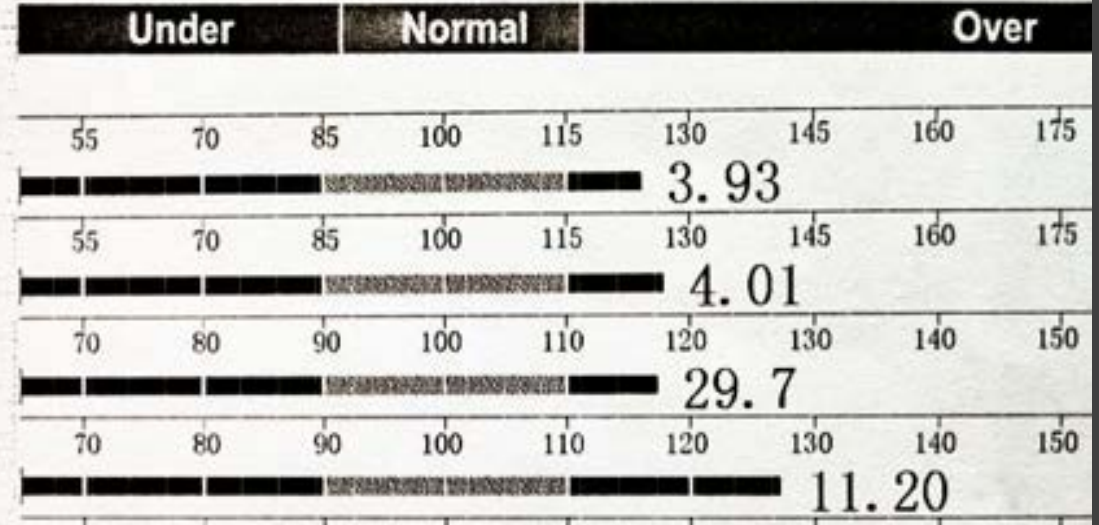


Which measured reading is MOST out of range?

① Start presenting to display the poll results on this slide.

Segmental Lean Analysis

Segment	Unit	Measured	Normal Range
Right Arm	kg	3.93	2.69~3.65
Left Arm	kg	4.01	2.69~3.65
Trunk	kg	29.7	22.8~27.8
Right Leg	kg	11.20	7.93~9.69



Q9. Which measured reading is MOST out of range?

A

Right Arm

B

Left Arm

C

Trunk

D

Right Leg

slido

Please download and install the Slido app on all computers you use



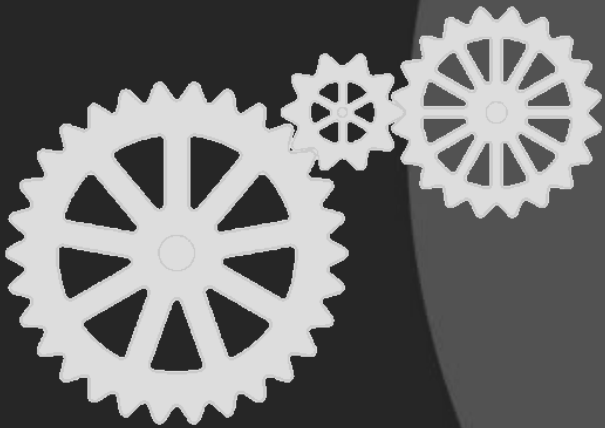
Which measured reading is MOST out of range?

① Start presenting to display the poll results on this slide.

System Design

performance is also influenced by the design of external processes, equipment, and interfaces

consider human-centeredness; components designed to support humans at work



(Shared)
Mental model

System 1 vs. System 2

Communication

Heuristics
& biases

Quality of
information

System design

Many sources of diagnostic success (and failure)

DIVERSE INTER-DISCIPLINARY SCIENCE



Many other **human factors** concepts relevant to diagnostic safety, e.g.:

- Stress & fatigue

- Situation awareness

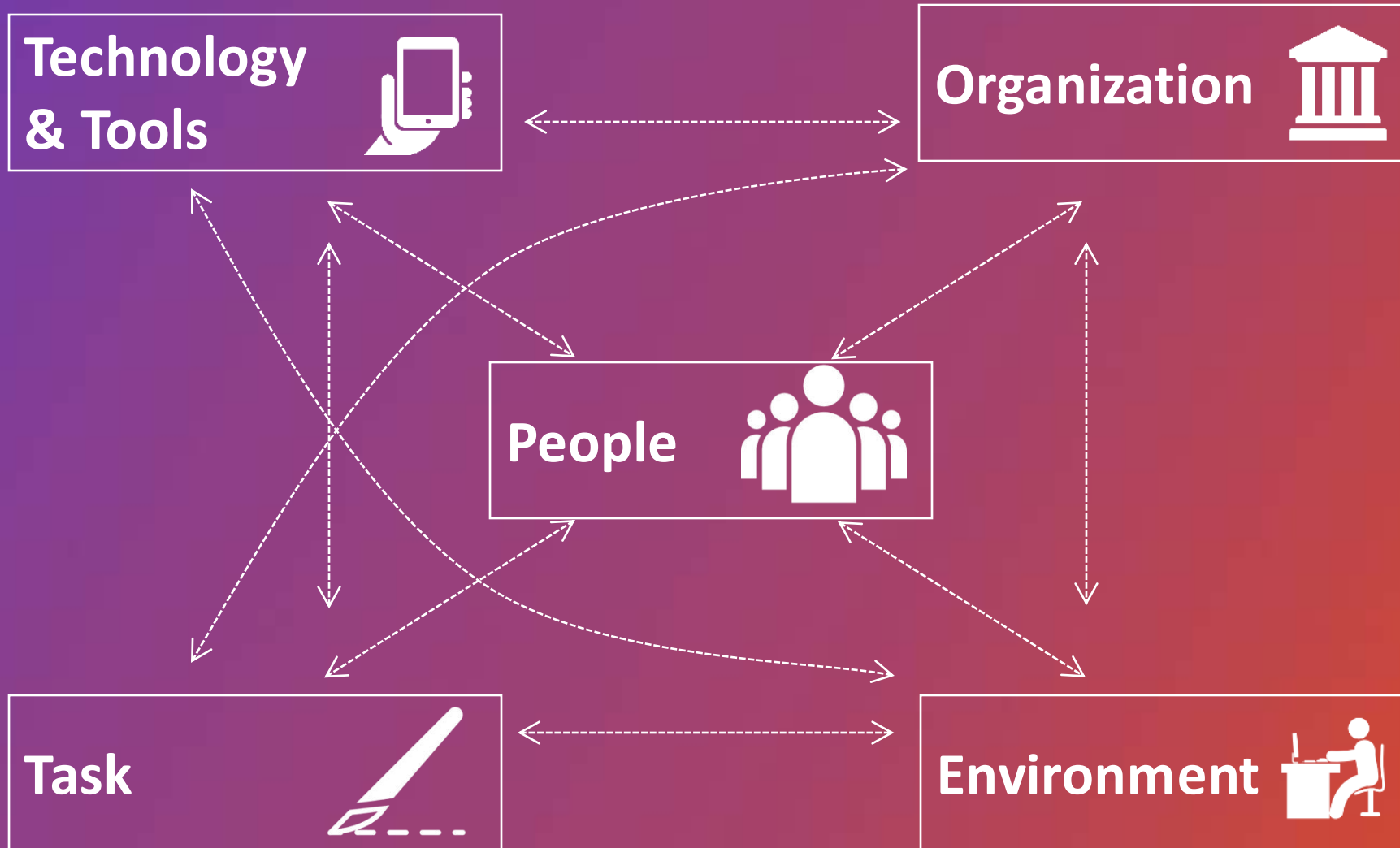
- Cognitive load

- Experts & expertise

- Teamwork & communication

Science of improving **human performance** and optimizing **system efficiency** during **interaction**

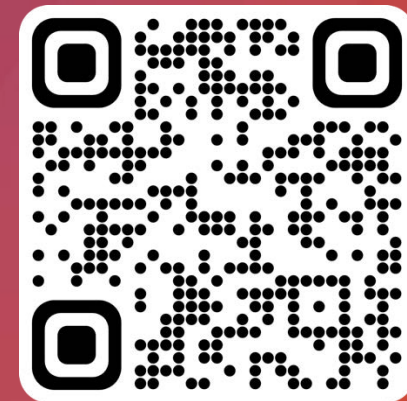
Socio-technical System



In Summary

- 1) Humans are imperfect, human factors explains why.
- 2) Work systems can help or hinder our performance.
Leverage on human factors to enhance systems.
- 3) Quality of decisions depends on **quality of information**.

Dr “SQ” Yin Shanqing, PhD
shanqing.yin@gmail.com
www.linkedin.com/in/shanqing



Introduction to group work

Alexandra Shaw
WHO consultant
Patient Safety Flagship
Integrated Health Services
WHO Headquarters
Switzerland



Objectives

- To review the attributes of diagnostic safety for correctness, relevance and completeness
- To critically assess the proposed implementation model in terms of structure, relation to other elements and completeness
- To evaluate the proposed interventions within the four domains at the different levels of intervention (policy, organizational and point-of-care levels)
- To identify any missed interventions and suggest relevant resources or strategies

Process

- The situational analysis, including the implementation model for diagnostic safety has been shared ahead of the consultation with all participants
- Session 2 participants have been assigned to join a working group
- There will be four groups, each with a moderator and a WHO focal point
- Moderators will introduce themselves, initiate a round of introductions of group members and brief the group on the task and questions
- The group will select a rapporteur to record and synthesize discussions
- Groups should discuss all questions outlined and notes taken in the format provided by the template
- The rapporteur will present the summary of the discussion in the plenary session tomorrow using the presentation template

Questions

- Are the proposed attributes of diagnostic safety comprehensive and relevant to all health care settings?
- What do you think of the implementation model in terms of structure, relation between different elements and completeness? Are there any critical elements or areas that are missing or need more emphasis? While answering, please put into consideration the unique needs and challenges of different health system contexts?
- What do you think of the proposed interventions. Are they comprehensive, feasible and do they cover all elements within the specific domain and level of implementation?
- From your experience, are there any best practices or innovative approaches that can be incorporated into the framework?

Presenting back to group

- Rapporteur to prepare presentation, with support of moderator, to report back to the wider group
- Powerpoint template will be shared with moderators
- 5 minutes to present the results of discussion

Groups

Group 1 – Health Workers

Moderator:

Annegret Hannawa

Note taker: Alexandra Shaw

Room D

Ndella Konate

Javiera Esperanza Fuentes

Contreras

Edwardo Haughton

Angeliki Karaïskou

Robert Velickovski

Gustavo Faissol Janot de Matos

Laura Zwaan

Aline Cristina Pedroso

Wolf Hautz

Melanie Leis

Ludjie Love Smeisschelle Merilan

Blerta Maliqi

Upuli Wijemanne

Malathi Arshanapalai

Nurshaim Tilenbaeva

Pradeep Kumar Dua

Ferid Shannoun

Group 2 – Patients and their representatives

Moderator: Sue Sheridan

Note taker:

Priyadarshani Galappatthy

Room D

Henrietta Hughes

Alex Adusei

Terence Vanginkel Wilde

Helen Haskell

Yin Shanqing

Maria Pilar Astier Peña

Hussain Jafri

Ogusa Shibata

Tereza Kasaeva

Anshu Banerjee

Suraya Dalil

Group 3: Systems and processes

Moderator: Albert Wu

Note taker: Ayda Taha

Room E

Deneke Ayele Abebe

Ali Asery

Tatiane Batista

Mustapha Elhousni

Tania Cardona

Aidan Fowler

Britta Gerloff

Ingo Härtel

Tuija Ikonen

Jitendra Nath Srivastava

Katherine De Bienassis

Aparna Singh Shah

Emilie Van Deventer

Matteo Cesari

Group 4: Diagnostics and technology

Moderator: Ana Aceves Capri

Note taker: Nikhil Gupta

Room E

Anthony Staines

Julia Tainijoki-Seyer

Kor Virya

Frédéric Cave

Kelly M Smith

Shin Ushiro

Mark Graber

Masaru Kurihara

Abdulelah Alhawsawi

Antonia Gama

Caroline Samer

Ratko Magjarević

Carmel Moran

Tomris Özben

Mondher Letaief

Roberto Verna

Improving diagnostic safety: WHO interventions



Moderator

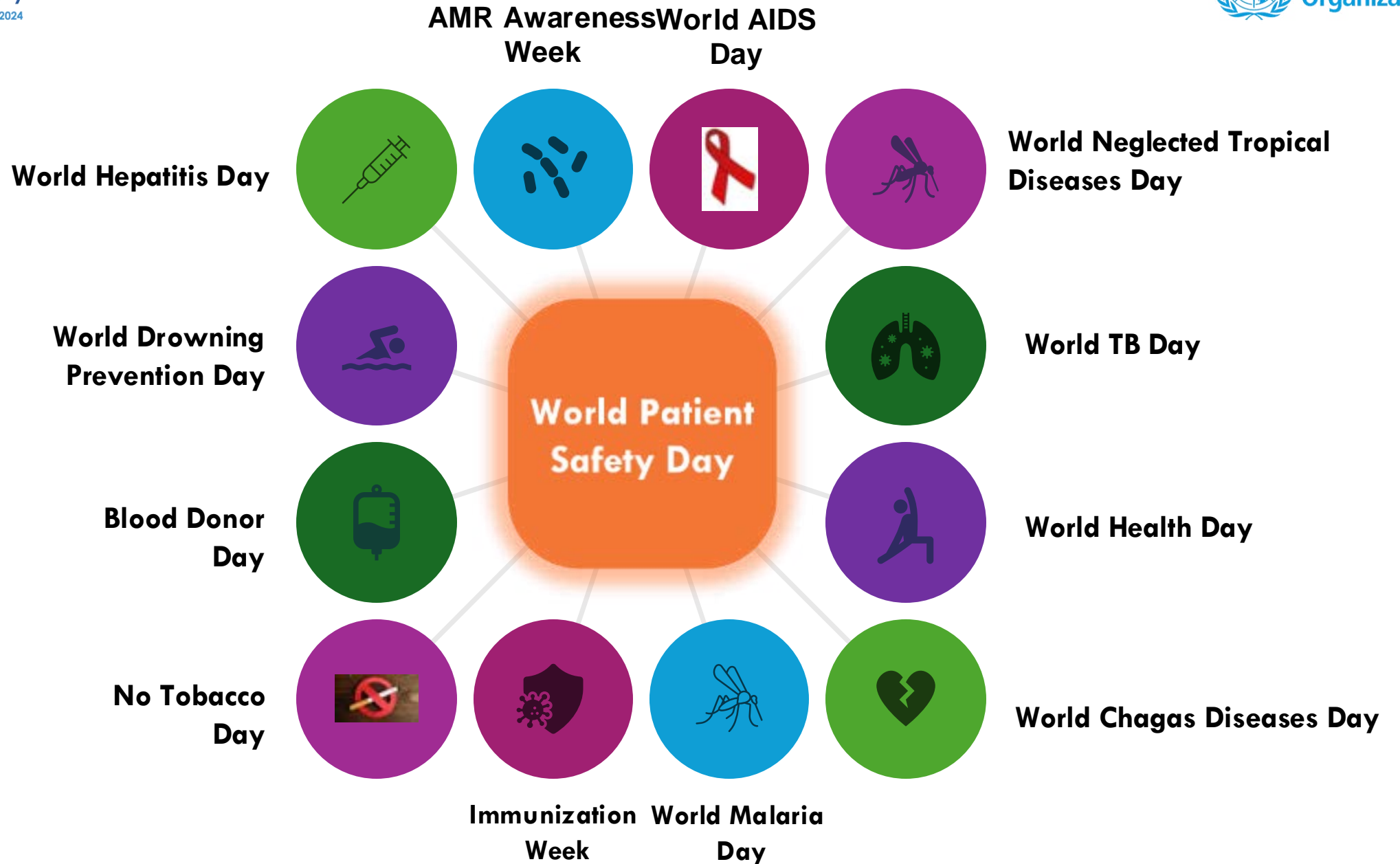
Dr. Blerta MALIQI
Unit Head,
Quality of Care
IHS Department
WHO
Geneva, Switzerland



Communicating and championing WPSD: the 2024 campaign

Dr. Ayda Taha
Technical officer
Patient Safety Flagship
Integrated Health Services
WHO Headquarters
Switzerland







Global Advocacy

**World Patient Safety
Day established
(WHA 72.6)**

**Safe health workers
Safe patients**

**Medication
Without Harm**



2016-2019

2019

2020

2021

2022

2023



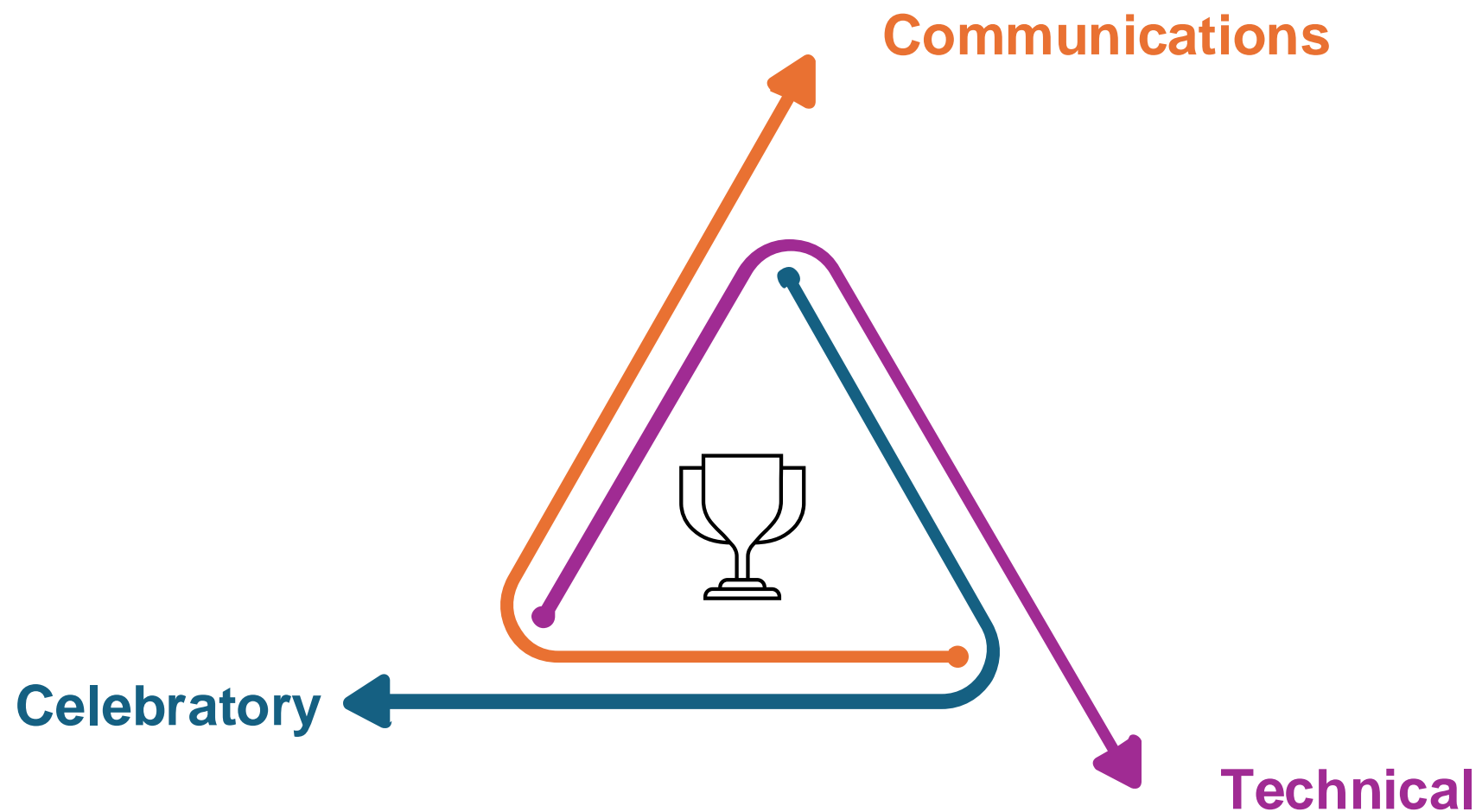
**Speak up for
patient safety!**

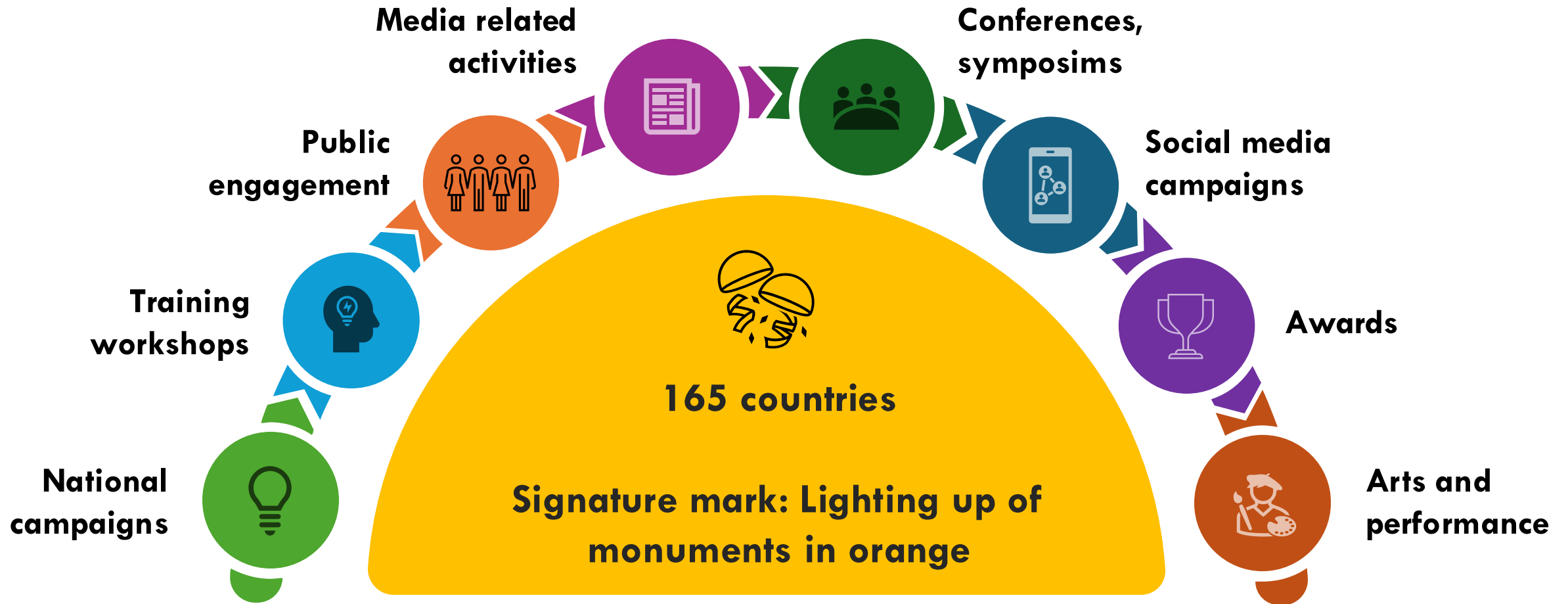


**Act now for safe and
respectful childbirth!**

**Elevate the voice
of patients!**



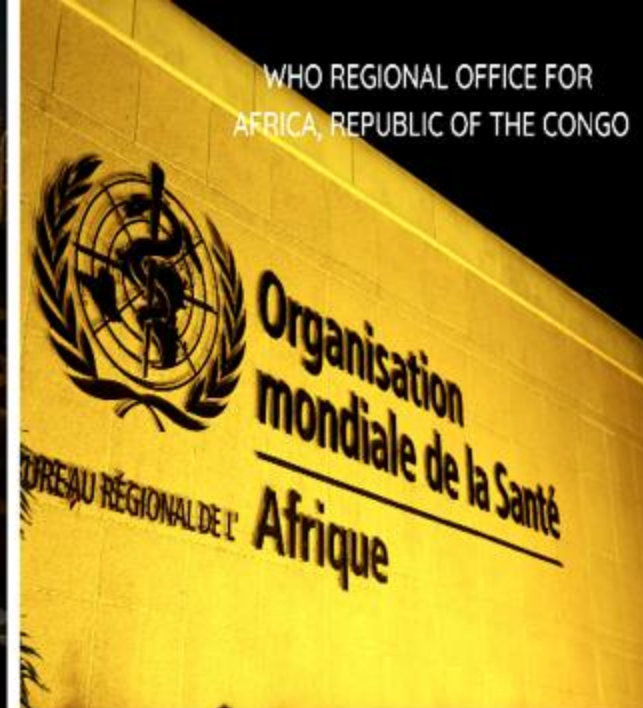




NATIONAL PALACE, MALAYSIA



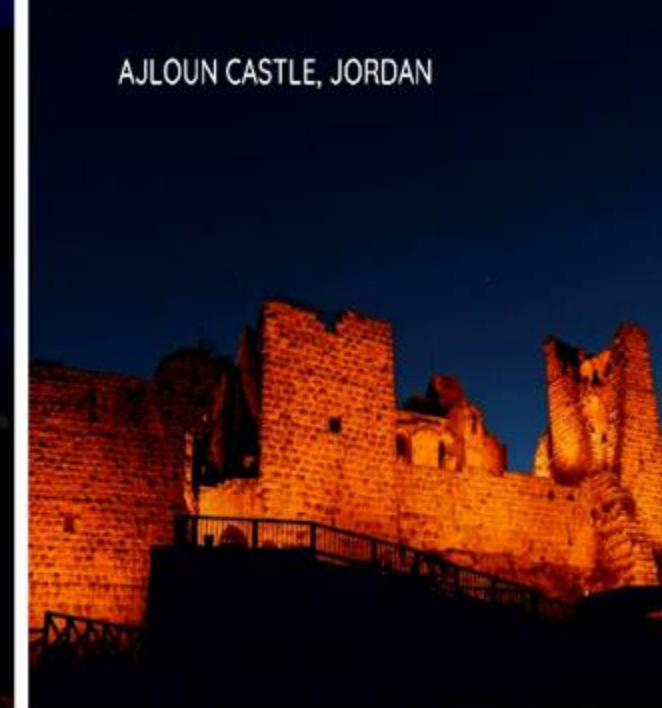
WHO REGIONAL OFFICE FOR
AFRICA, REPUBLIC OF THE CONGO



WIDMANN PALACE, ITALY



AJLOUN CASTLE, JORDAN



FLORALIS GENÉRICA,
ARGENTINA



JET D'EAU, SWITZERLAND



KINGDOM TOWER,
SAUDI ARABIA



JERUDONG PARK CRYSTAL
ARCH - BRUNEI



GOVERNMENT PALACE,
TIMOR-LESTE



CN TOWER, CANADA





High-level officials' participation



...nt Secretary, Federal Ministry of Health and Social ...
...mini, made the announcement at a press briefing on Mon.
...morate the 2023 World Patient Safety Day with the theme "Enga
...oice of Patients"

...aju, said that the National Patient Safety and Care Quality was in line with
...he Resolution 18 of the 55th World Health Assembly (WHA 55.18) which
...called for Member States to acknowledge the burden of patient safety and
...set up policies to manage them.

She further explained that the National Policy focuses on improving patient
...and family engagement in health care, medication safety, surgical safety,
...infection prevention and control as well as safety of all medical procedures



Patient engagement activities





EVENTO EM ALUSÃO AO
DIA MUNDIAL DE SEGURANÇA
DO PACIENTE



Santa Juliana

Patient organizations activities







2022

2020



2021



2023



Mobilizing global action

Contribuez à la charte des patients
patientsafety.dosts@minsante.cm

 အိဗီယွန် ခေါ်(၁) နိုင်ငံတော် နှင့် နိုင်ငံတော် အဖွဲ့အစည်းများ JSSM SOGA BANGKOK NATIONAL REFERRAL HOSPITAL THOMPSON CENTER 	
ကျန်းမာရေးဆရာမ ၁. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။ ၂. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။ ၃. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။ ၄. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။ ၅. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။ ၆. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။ ၇. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။ ၈. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။ ၉. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။ ၁၀. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။	Patients' Rights ၁. Patients have the right to receive information about their condition, treatment, and prognosis. ၂. Patients have the right to refuse or accept treatment. ၃. Patients have the right to privacy. ၄. Patients have the right to be treated with respect and dignity. ၅. Patients have the right to be treated without discrimination. ၆. Patients have the right to be treated in a safe and secure environment. ၇. Patients have the right to be treated by qualified and competent staff. ၈. Patients have the right to be treated in a timely manner. ၉. Patients have the right to be treated in a comfortable and pleasant environment. ၁၀. Patients have the right to be treated in a safe and secure environment.
ကျန်းမာရေးဆရာမ ၁. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။ ၂. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။ ၃. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။ ၄. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။ ၅. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။ ၆. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။ ၇. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။ ၈. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။ ၉. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။ ၁၀. ကျန်းမာရေးဆရာမသည် ကျန်းမာရေးဆရာမ၏ အကျိုးအမြတ်ကို ထိန်းသိမ်းရမည်။	Patients' Responsibilities ၁. Patients are responsible for providing accurate information about their condition and history. ၂. Patients are responsible for following the instructions of their healthcare providers. ၃. Patients are responsible for taking their medications as prescribed. ၄. Patients are responsible for attending to their appointments. ၅. Patients are responsible for paying for their services. ၆. Patients are responsible for keeping their personal information confidential. ၇. Patients are responsible for not smoking or drinking alcohol while in the hospital. ၈. Patients are responsible for not using their mobile phones in the hospital. ၉. Patients are responsible for not using their internet access in the hospital. ၁၀. Patients are responsible for not using their television in the hospital.

Rights and obligations of patients

Health System Guide

Author: Ministry of Health of the Czech Republic

When providing health care, or when drawing health services, providers must respect a number of patient rights. On the other hand, the patient has certain obligations that he must fulfil. The rights and obligations of the patient are mainly based on Act No. 372/2011 Coll. on health services [7].



Patient rights

In particular, the patient has the right to the provision of health services at an appropriate professional level, which means the provision of health services according to the rules of science and recognized medical procedures, while respecting the individuality of the patient, taking into account specific conditions and objective possibilities.

Also, the patient's indisputable right is the right to respect, dignified treatment, consideration and respect for privacy, including the right to the presence of a loved one.

Author: Ministry of Health of the Czech Republic

A close-up photograph of a middle-aged male doctor with grey hair, wearing a white lab coat over a blue shirt and tie. He has a stethoscope around his neck and is looking intently at two patients whose backs are to the camera. The doctor's hands are slightly raised as if he is explaining something. The background is a plain, light-colored wall.

In particular, the patient has the right to the provision of health services at an appropriate professional level, which means the provision of health services according to the rules of science and recognized medical procedures, while respecting the individuality of the patient, taking into account specific conditions and objective possibilities.

Also, the patient's indisputable right is the right to respect, dignified treatment, consideration and respect for privacy, including the right to the presence of a loved one.



 **The Queen Elizabeth Hospital - Barbados** ...
September 18 · 🌐

#DYK, every patient of the QEH has rights afforded to them under the Patients' Charter of Rights, which aims to support safe, effective and quality healthcare for all our patients.

Learn more: 👉👉👉
<http://qehconnect.com/patients-charter-of-rights>

#GettingBetterTogether #Beinformed
#September17th #WorldPatientSafetyDay

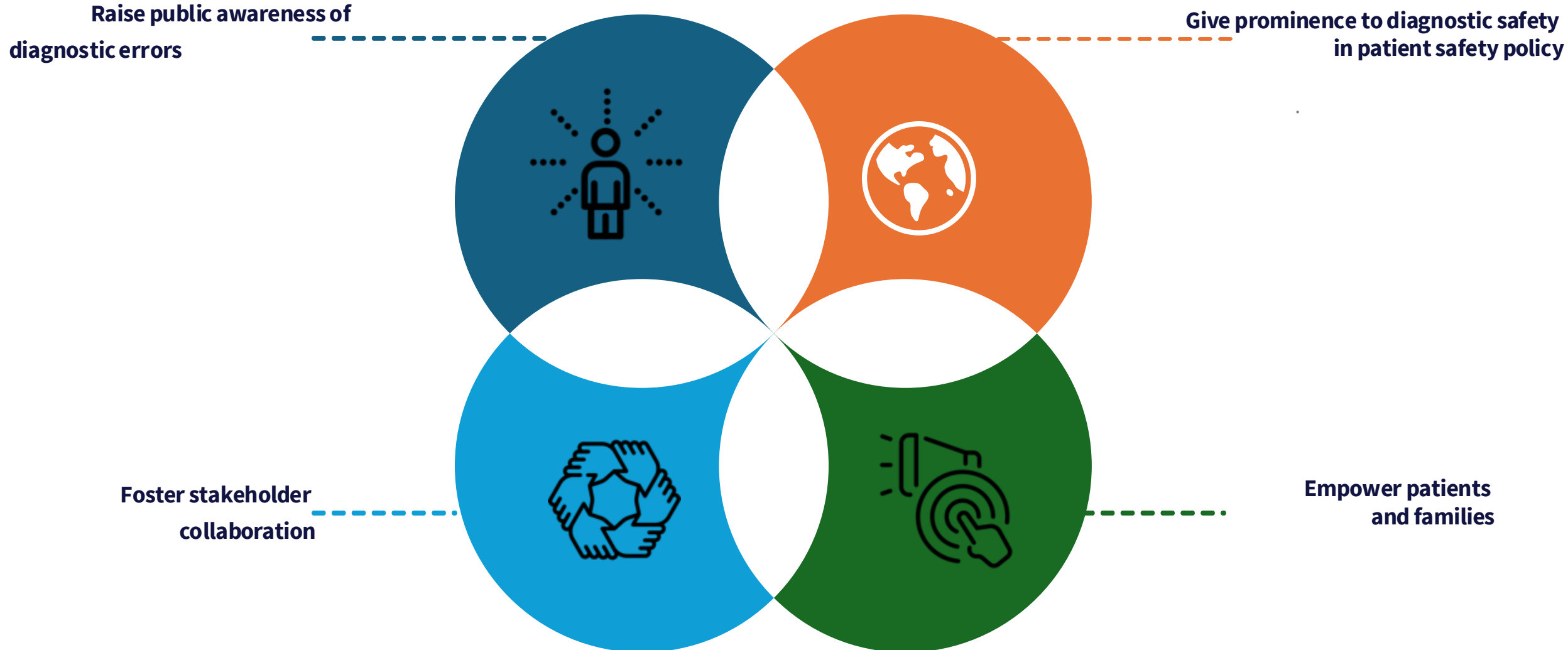
The Ministry of Public Health and Social Welfare, through the Quality Directorate, recalls its commitment to this challenge and encourages patients to exercise their right to ask questions and together make health care safer.





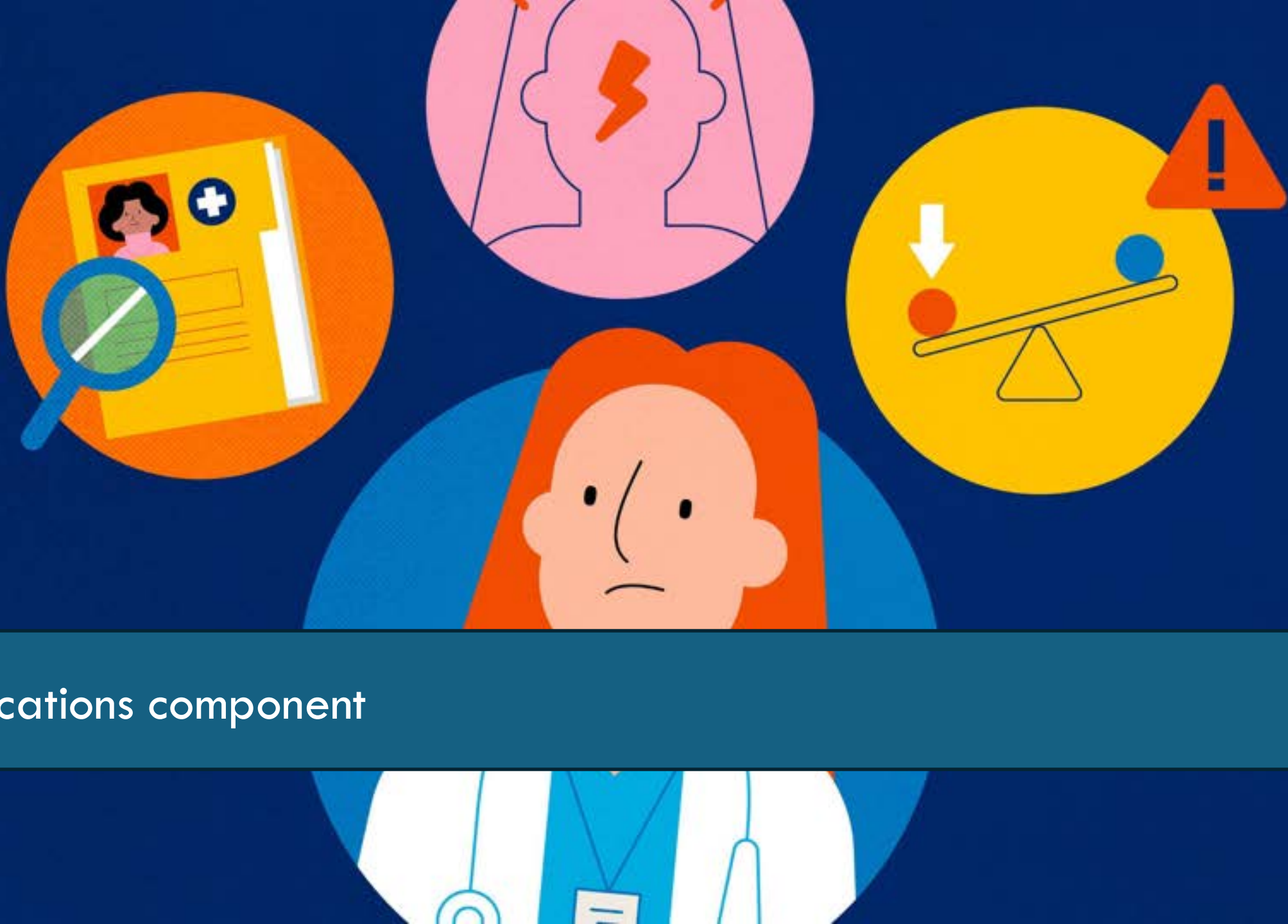
World Patient Safety Day 2024: 'Improving diagnosis for patient safety'

Objectives of World Patient Safety Day



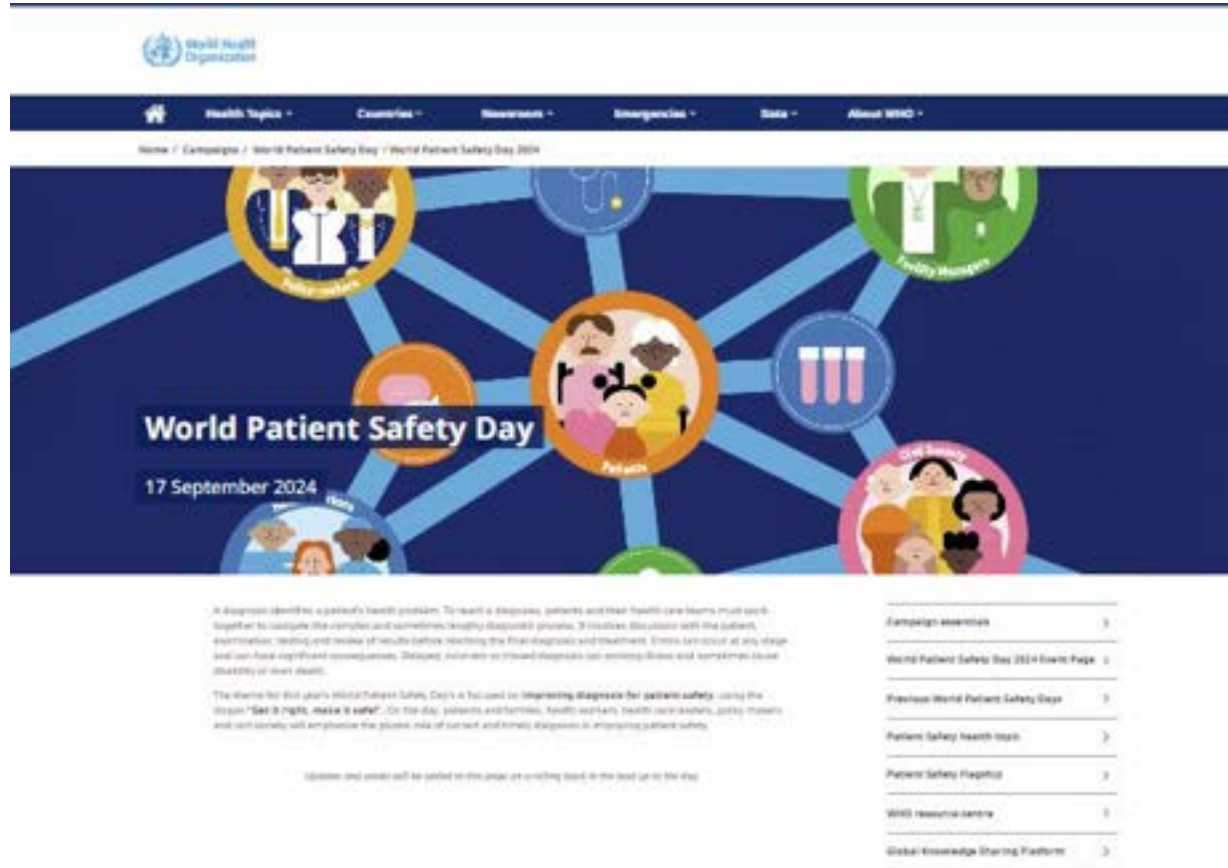
Target audiences





Communications component

Campaign website



[World Patient Safety Day 2024 \(who.int\)](https://www.who.int/campaigns/world-patient-safety-day-2024)

- ☐ Campaign messages
- ☐ Objectives
- ☐ Calls to action
- ☐ Advice for stakeholders
- ☐ E-survey to share plans
- ☐ WHO resource centre
- ☐ Global Knowledge Sharing Platform



Campaign materials



Web banner



Roll up banner



Zoom backgrounds

Campaign materials



Posters

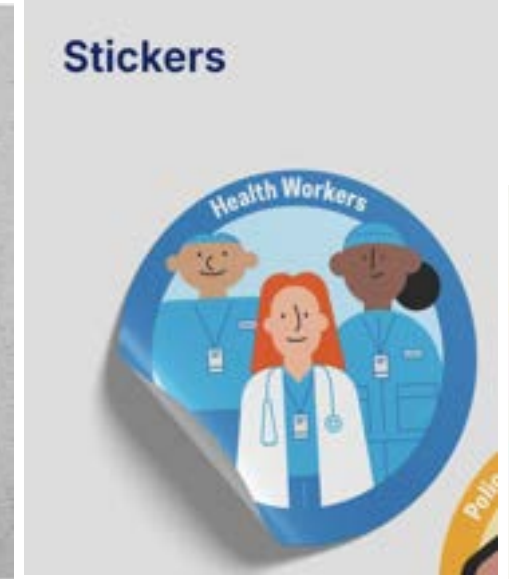
Campaign materials

PowerPoint template



Campaign materials

Souvenirs' design



Campaign materials – Social media

Infographics



Quiz backgrounds

Static Tiles



Campaign materials – Videos

Explainer video: Health workers

Social cut: General public

Patient and health worker video testimonies: Social media

Director-General's message





Celebratory component

Additional activities

- ☐ Global consultation
- ☐ Press release
- ☐ Lighting up of Jet d'Eau in orange on 17 September



Kind requests

- Please

☐ Amplify the campaign messages within your networks and on social media ‘Corporate and personal’. #WorldPatientSafetyDay #PatientSafety

- [World Health Organization | LinkedIn](#)
- [World Health Organization \(WHO\) | Geneva | Facebook](#)
- [World Health Organization \(WHO\) \(@WHO\) / X](#)
- [World Health Organization \(WHO\) - YouTube](#)
- [TikTok - Make Your Day](#)

☐ Share your activities on GPSN, through the [survey](#) or send an email to patientsafety@who.int

☐ Share your diagnostic safety resources on the [Global Knowledge Sharing Platform](#)

☐ Light up a monument in orange on 17 September



Thank you!

Closing remarks of Day 1



Sir Liam DONALDSON
WHO Envoy for
Patient Safety
WHO headquarters

