





**ECRI** 

## **US** Expert Speaker Live Show

- -Total Systematic Approach to Patient Safety
- -Patient Safety in the US



Dr. Marcus Schabacker (President and Chief Executive Officer of ECRI)



Dr. Piyawan Limpanyalert (Chief Executive Officer of HAI Thailand)

## TH Expert Speaker Live Show

- -Patient Safety in Thailand (3P Safety)
- TOP 10 Patient Safety Report 2023

Patient Safety in
Thailand and Top
10 Patient Safety
Report 2023

Dr.Piyawan Limpanyalert, MD
CEO of the Healthcare Accreditation
Institute, Thailand



## Journey of patient and personnel safety in Thailand



1997-present

2013-2015

2016

2017-2018

2018-2020

2022

Integrated quality and safety in hospital development for Hospital Accreditation

Engagement for Patient Safety program

Country selfassessment for Patient Safety Announcement National Policy

National
Committee
National
Strategy and
National Goals

2P Safety
Hospital Project
and World
Patient Safety
Day

Integrated in Hospital standards and criteria for accreditation

(automate)				
	Step 1	Step 2	Step 3	
Overview	Reactive	Proactive	Quality Culture	
Starting Point	Review Problems & Adverse Events	Systematic Analysis of Goal & Process	Evaluate Compliance with HA Standards	
Quality Process	Check-Act-Plan-Do	QA: PDCA CQI: CAPD	Learning & Improvement	
Success Criteria	Compliance with Preventive Measures	QA/CQI Relevant with Unit Goals	Better Outcomes	
HA Standard	Not Focus	Focus on Key Standards	Facus on All Standards	
Self Assessment	To Prevent Risk	To Identify Opportunity for Improvement	To Assess Overall Effort & Impact of Improvement	
Coverage	Key Problems	Key Processes	Integration of Key Systems	











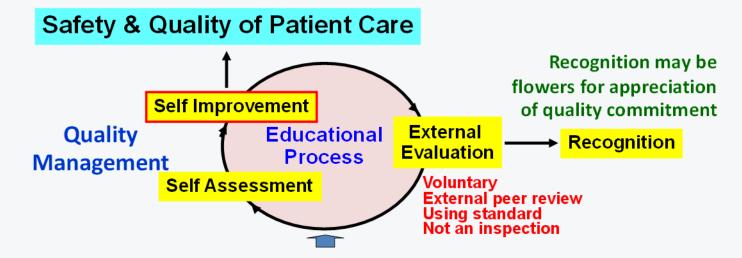




# Integrated quality and safety in hospital development for Hospital Accreditation

and the state of t

- The Healthcare Accreditation Institute (Public Organization) or HAI has legislative responsibility for quality improvement and accreditation of health care organizations in Thailand.
- The HAI has been actively involved in the patient safety movement through the process of hospital accreditation (HA) and various quality improvement initiatives.



## **Core Concepts:**

Flexible, context oriented
System approach, integration
Positive approach
Evaluation to stimulate improvement
Special character of healthcare (uncertainty, autonomy & accountability)

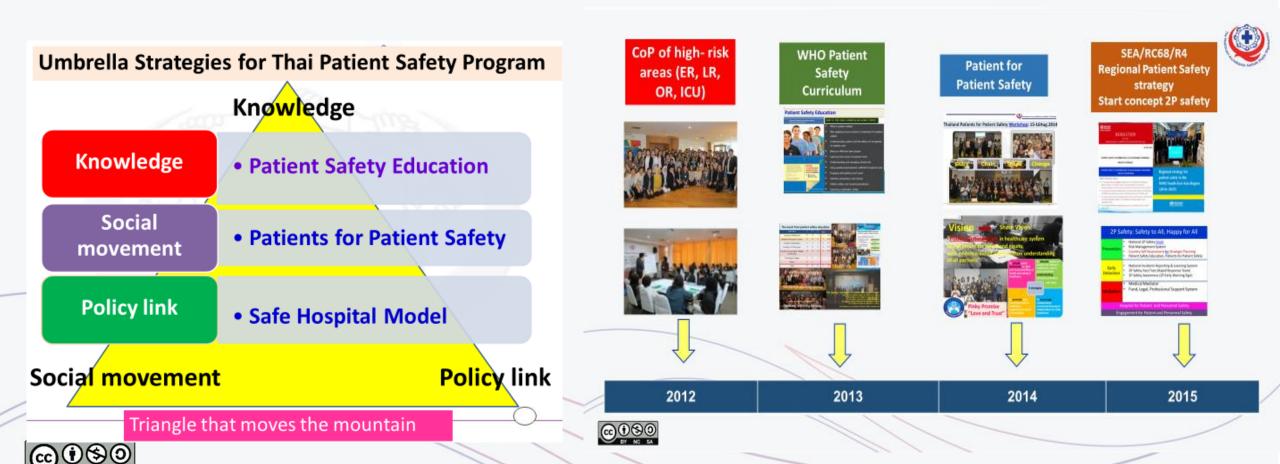
**HA** as an Educational Process



## **Engagement for Patient Safety program**



Engaged professionals ,Experts, Healthcare personnel, patients, family, policy maker, stakeholder both health and non-health



## **Country self-assessment for Patient Safety**





The Thailandself assessment
committee in
finalization of
the results on 16
Sep 2016



Table 3. 1 The summary dashboard of Thailand self-assessment results

Strategy Number	Strategic Direction	Total Marks	Marks Scored	Assessment	Comments
1	Strategic Direction 1	52	38		Good, need to expand
1.1	Legal and Regulatory Framework	32	25		Excellent, and maintain
1.2	Accreditation and External Quality Assessment	12	9		Good, need to expand
1.3	Safety Culture at HCF	4	3		Good, need to expand
1.4	Patient Involvements in PS and Care	4	1		Weak, need attention
2	Strategic Direction 2	12	3		Weak, need attention
2.1	Adverse Events Monitoring	12	3		Weak, need attention
3	Strategic Direction 3	32	15		Fair and room to improve
3.1	Competent Workforce	16	9		Good, need to expand
3.2	Patient Safety Risk Management	16	6		Fair and room to improve
4	Strategic Direction 4	40	38		Excellent, and maintain
4.1	Infection Prevention and Control	28	26		Excellent, and maintain
4.2	Sterilized Equipment	4	4		Excellent, and maintain
4.3	Environment, General Hygiene and Sanitation	8	8		Excellent, and maintain
5	Strategic Direction 5	80	61		Excellent, and maintain
5.1	Safe Surgical Care	8	5		Good, need to expand
5.2	Safe Childbirth	8	6		Good, need to expand
5.3	Safe Injection	16	14		Excellent, and maintain
5.4	Safe Medication	4	2		Fair and room to improve
5.5	Blood Safety	4	3		Good, need to expand
5.6	Medical Devices Safety	8	7		Excellent, and maintain
5.7	Safe Transplantation	32	24		Good, need to expand
6	Strategic Direction 6	12	6		Fair and room to improve
6.1	Research Capacity	12	6		Fair and room to improve

0% 0 1-25% 1 26-50% 2 51-75% 3 76-100% 4

Need to commence Weak, need attention Fair and room to improve Good, need to expand Excellent, and maintain

## **Announcement National Policy**



## National Patient and Personal (2P) Safety Policy

- All key stakeholders agreed to place an emphasis on personal safety improvement in parallel with patient safety improvement.
- After the final assessment was done on 16 September 2016, the National Policy on Patient and Personnel (2P) Safety was formally announced to the public by H E Clinical Professor Emeritus Dr. Piyasakol Sakolsatayadorn, Minister of Public Health (MOPH).



## 3 main objectives of the 2P Safety policy:



- To aim at achieving the national patient and personnel safety goals with strategic movement developed by the full, active participation of all key stakeholders.
- To promote the development of national incidents reporting and learning system under collaboration between health personnel and all related organizations at the local, regional and national levels.
- To encourage the engagement of patients and population in developing safety health systems in a creative manner.



Note: 15 organizations (e.g. MOPH, Health professional councils, National Health Commission, Foundation of Consumer Protection..., and HAI) signed the MOU in moving forward the 2P safety policy into actions.

14



13



## **Announcement National Strategy**



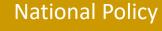




Announcement of 2P Safety Strategy on "Thailand Patient and Personnel Safety Day: 17 September 2017"



**Engagement of all** 



National Committee





**National Goals** 



## **Announcement Thailand Patient and personnel safety Goals**







	Patient Safety Goals Personnel Safety Goals			
S	Safe Surgery and Invasive Procedures	S	Security and privacy of information and Social Media (communication)	
1	Infection Prevention and Control	1	Infection and Exposure	
М	Medication & Blood Safety	М	Mental Health and Mediation	
Р	Patient Care Processes	Р	Process of work	
L	Line, Tube & Catheter, Device and Laboratory	L	Lane (ambulance), Legal Issues	
Ε	Emergency Response	E	Environment & Working conditions	

Each healthcare organization could pick up the topics of their interest to set as their safety goals and practical guides; then apply these in their operations and evaluate the achievement of these goals in accordance with their contexts.



Engaged of experts in different areas to co-working

WHO Propose a minimal common architecture for incident reporting systems in 2005 and 2009.

WORLD ALLIANCE FOR PATIENT SAFETY

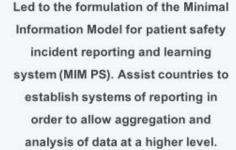
WHO DRAFT GUIDELINES FOR

ADVERSE EVENT REPORTING

AND LEARNING SYSTEMS









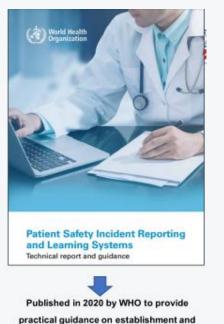
Minimal Information Model for Patient Safety Incident Reporting and **Learning Systems** 



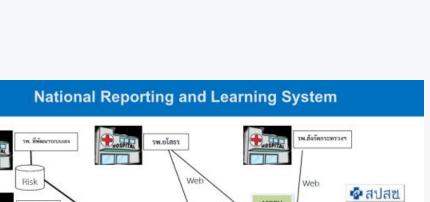
USER GUIDE



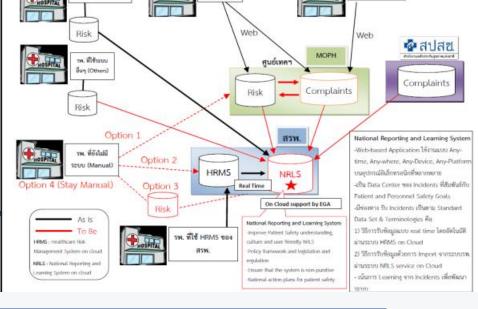




effective use of PSI RLS







From Global to National Policy: National Reporting

and Learning System



## "2P Safety Hospitals" as a platform for implementation and "World Patient Safety Day" for sharing and recognition

64.6% from 1,471 hospitals

## **2P Safety Hospitals**

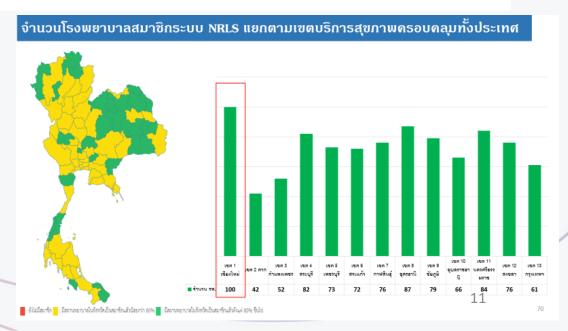
- 950 voluntary hospitals
- Leader announced 2P Safety policy and 2P safety
   Goals in hospitals
- RM in hospital and report incident to NRLS
- Platform for RCA with experts
- Safety Culture survey
- Sharing and Learning in CoPs
- Patient experience program
- World Patient Safety Day
- 2P Safety Tech produced 36 safety innovations









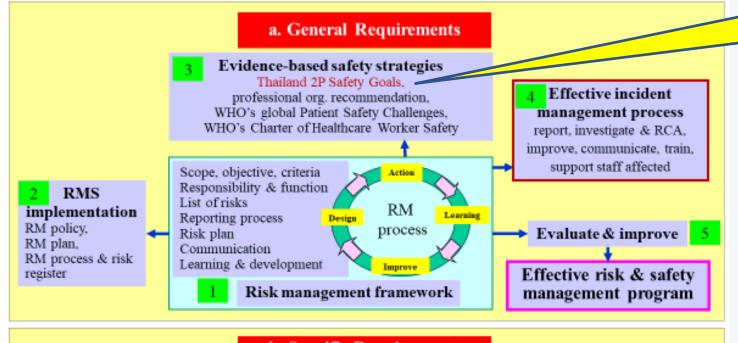


## Integrated to Hospital Accreditation Standards for sustainability



#### II-1.2 Risk Management System

The organization provides effective and coordinated risk and safety management system to manage risk and to protect safety for patients/customers, workforce and visitors.



#### **b.** Specific Requirements

Workforce Health and safety program (I-5.2 c & d) Facility, building and space management (II-3.1) Supplies, equipment & device management (II-3.2) Drug & medical products (II-6) Infection prevention & control (II-4) Medical records & patient data (II-5) Integrated 2P safety in HA standards and criteria for Accreditation





## Announcement Essential Standards for Safety as the criteria for accreditation









#### Essential standards for patient safety SIMPLE Nine essential standards Recommendations for hospital Guideline Hospitals must perform the following: 1. A surgery performed to a wrong person, on a wrong side, wrong procedure. 1. Hospitals must have guidelines for 2. Important infections in healthcare preventing patient from harm in nine organization according to organization, in Incidents essential standards. the group of: SSI, VAP, CAUTI, CABSI report: NRLS 2. Share the incident number of nine 3. Personnel acquire an infection from essential standards for patient safe of performing duty. annually. 4. The incident of medication error and Learning In case of an adverse event affecting adverse drug event. system: NRLS the patient (level E or higher), the 5. Blood transfusion to a wrong person, or with hospital should review and analyze a wrong group, a wrong type the root cause 6. Error in identifying a patient RM plan and Develop a risk management plan and Risk register Diagnostic error monitor its effectiveness to show 8. Error in reporting laboratory/pathological test results with the survey when conducting 9. Screening error at emergency room hospital survey.

National Patient and Personnel Safety Goals are critical preventable harms by National Patient and Personnel Safety Committee promotes and enforces major changes in the Thai healthcare system.



## National Reporting and learning System 2018-2022



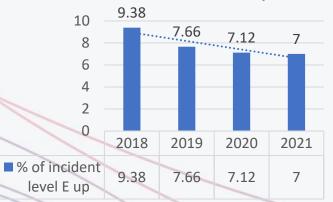


Costs lost in case of AE averaged 200,000 baht per case, in 4 year 17,460 incidence of E-up (AE) decrease, that save cost 3,492,000,000 million baht.



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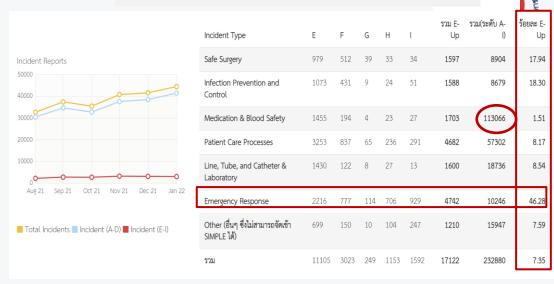
#### % of incident level E up



% of incident level E up

...... Linear (% of incident level E up)

### % patient suffering from incidents



2P Safety Gold	Incident	2018	2019	2020	2021	2022
S: Safe Surgery	CPS101 Surgery performed on the wrong body part					
	CPS102 Surgery performed on the wrong patient					
	CPS103 Wrong surgical performed on a patient					
I: Infection and prevention control	CPS111 SSI: Surgical Site Infection					
·	CPI201 CAUTI: Catheter Associated Urinary Tract Infection					
	CPI202 VAP: Ventilator-Associated Pneumonia					
	CPI203 CLABSI: Central Line-Associated Bloodstream Infection					
I: Infection and Exposure	GPI201 Airborne transmission					
•	GPI202 Droplet transmission					
	GPI203 Contact transmission					
	GPI204 Vector borne transmission					
M: Medication and blood safety	CPM101 Repeated drug allergy					
	CPM201 Medication error : Prescribing					
	CPM202 Medication error : Transcribing					
	CPM203 Medication error : Pre-dispensing					
	CPM204 Medication error : Dispensing					
	CPM205 Medication error : Administration					
	CPM501 Wrong blood tranfused					
	CPP101 Patient Identification					
P: Patient care process	CPP301 Misdiagnosis or delay diagnosis					
L: Lab safety	CPL201 Laboratory error					
	CPL203 Radiographic examination error					
E: Emergency response	CPE402 Under triage					
	CPE403 Over triage					
	CPE405 Delay Diagnosis and Delay treatment					
	CPE407 Missed Diagnosis					

## HAI & ECRI MoU Signing on 29 June 2022





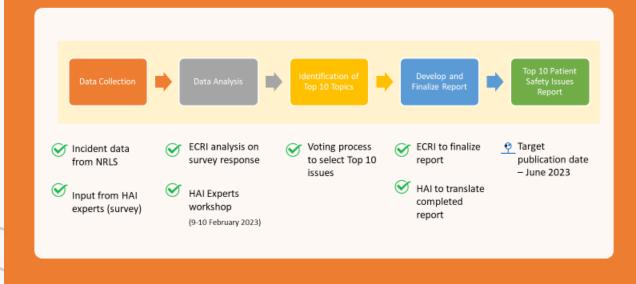
#### **Objectives:**

- To identify existing and imminent patient safety challenges faced by TH hospitals
- To share lessons from ECRI and HAI's analysis of patient safety data and information
- To offer strategies to support continuous improvement
- To enable learning healthcare

#### **MoU Objectives:**

- To jointly produce a white paper on Thailand Top 10 Patient Safety Issues.
- To jointly design and hold educational seminars/ roadshows to support the local community in addressing pressing healthcare concerns.
- To jointly develop and promote the quality improvement of patient care and patient safety.

#### Development of Thailand Top 10 Patient Safety Issues 2023



## HAI Experts Workshop on 9-10 Feb 2023







#### Key essential standards analysed:

- 1. Safe Surgery
- 2. Infection Prevention and Control (IPC) Patient
- Infection and ExposureStaff
- 4. Medication Error
- 5. Blood Safety
- Patient Identification
- 7. Diagnostic Error

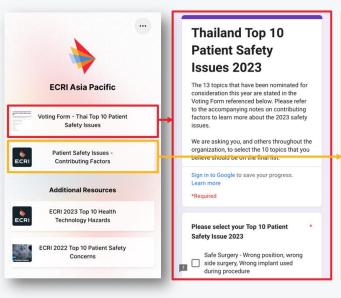
- 8. Lab-line Tube
- 9. Mental Health
- 10. Security Information
- 11. Maternal and Neonatal Morbidity
- 12. Telehealth/Telemedicine
- 13. AMR

#### For each essential standard analysed:

- Share identified key patient safety incident & survey results
- Discuss and reach consensus on contributing factors; leveraging HAI experts' knowledge and experience and ECRI's international learnings.
- Discuss guidelines/recommendations



## **Voting at HA National Forum 2023**









#### Final List Thailand: Top 10 Patient Safety Issues 2023

Total Votes (Round 1 + 2): Total number of votes-2,041



Essential Standards	1st Round of Voting	2nd Round of Voting	<b>Total Votes</b>	Percentage of Votes
Medication Error	1922	23	1945	95%
IPC	1872	22	1894	93%
Patient Identity	1864	23	1887	92%
Diagnostic Error	1767	23	1790	88%
Safe Surgery	1727	18	1745	85%
Infection and Exposure	1724	21	1745	85%
Laboratory/Pathology Inaccuracies	1611	20	1631	80%
Blood Safety	1603	19	1622	79%
Security Information	1594	17	1611	79%
AMR	1311	12	1323	65%
Mental Health	1254	12	1266	62%
Maternal & Neonatal	1060	16	1076	53%
Telehealth	871	4	875	43%
Total Mates	2018	7.0	2041	





#### Thailand Top 10 Patient Safety Issues 2023









- 1. Medication Errors
- 2. Infection Prevention & Control
- 3. Patient Identification
- 4. Diagnostic Errors
- 5. Safe Surgery
- 6. Infection and Exposure for Healthcare
- 7. Laboratory/Pathology Inaccuracies
- 8. Blood Safety
- 9. Health Information Security
- 10. Antimicrobial Resistance (AMR)



#### 1. Medication Errors – prescription, dispensing, administration

#### Contributing Factors

- Non-compliance to guideline practices (e.g., lack of independent double-checking)
- Confusion between look-alike-sound-alike drugs (e.g., inappropriate storage of LASA drugs)
- Information system (computerized provider order entry, Pharmacy Information System) design and usability issues (e.g., lack of field to enter administration route)
- Poor communication amongst clinicians and other healthcare workers results in inadequate handoffs and loss of information due to the prescription being transmitted verbally.
- Lack of patient history information may result in the wrong medication being prescribed to the patient.
- Physical environment distraction or interruptions.

#### Recommendation

- Medication management: separating look-alike drugs, capitalizing different letters in the names of sound-alike drugs, secure dangerous drugs by limiting access to locked areas.
- Ensure effective communication between medical staff by limiting the use of verbal or phone orders and ensuring that such orders are authenticated and signed by the ordering provider.
- Ensure effective design of computerized provider order entry (CPOE) systems, bar-coded medication administration (BCMA) systems, and automated dispensing cabinets (ADC) to be suitable for the medical staff requirements and ease of use to limit error.
- Maintain staff awareness and provide continuing education programs for clinical staff
- Review information about medication safety risks and errors that have occurred in other organizations and take action to prevent similar errors.



## Journey of Global Patient Safety and Thailand Patient and Personnel Safety

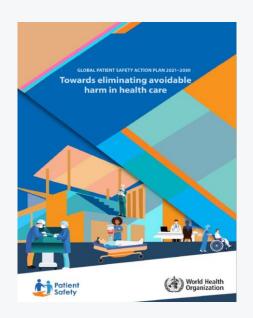




## **Integrated Global Action Patient Safety to Thailand Action**



- Propose Global Action Plan to National Patient and Personnel Safety committee.
- National survey on implementation of the Global patient safety action plan 2021–2030
- Review patient safety action and 2P safety strategy in Thailand
- Self-assessment to Identify GAP as area for improvement.
- Strategic matching to set priority
- Develop 2P safety 2022-2030 for announcement and implementation





**National Patient and Personnel Safety Committee** 

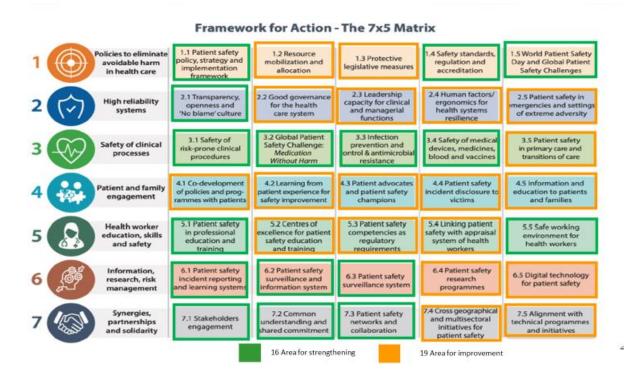






## **Global Patient Safety Action Plan**

#### Patient and Personnel Safety Healthcare Systems with Quality and Safety for All 2018-2021 4. Set up the 2. Establish 1.Prepare 3. Develop systems for health collaboration 5. Increase the supporting reporting, with the systems efficiency of personnel by learning, and enhancing their network of civil the overseeing necessary for measuring the capability and society and the ensuring the and nurturing quality and organizations of the raising their quality and safety involved in the safety in the healthcare awareness outcomes of about quality healthcare healthcare system. healthcare and safety. system. system. service. Competency Of National 2P Safety People-Hospital Healthcare Reporting and Accreditation centred care Goals Learning System worker



Matching Global on Patient safety with the National Patient and Personnel Safety Strategies



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## **Patient Personnel and People Safety**



#### Healthcare Systems with Quality and Safety for All 2022-2026

St.1: Prepare health personnel by enhancing their capability and raising their awareness about quality and safety St.2: Establish collaboration with the network of civil society and the organizations involved in the healthcare system.

St.3: Develop supporting systems necessary for ensuring the quality and safety in the healthcare system.

St.4: Set up the systems for reporting, learning, and measuring the quality and safety outcomes

S5.: Increase the efficiency of the overseeing and nurturing of the healthcare system.









Matching Global on Patient safety with the National Patient and Personnel Safety Strategies





Solutions >

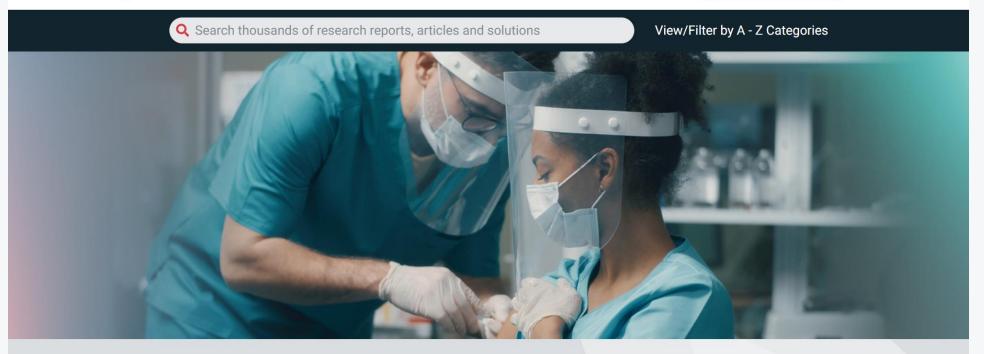
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About ECRI V

Become a Member

Log In





## **ECRI Patient Safety**

Our patient safety team drives improvements in safety working with healthcare delivery organizations and stakeholders across all settings of care. Named a Patient Safety Organization (PSO) by the U.S. Department of Health and Human Services, ECRI has collected more than 3 million serious patient safety events and near-miss reports from over 1,800 healthcare providers around the country.

Who is the ECRI and How are they here with us.













..โชคดีที่มีกัลยาณมิตร..ขอบคุณที่รู้จักกัน Mr.Woo Kit Seong (Eric Woo)

..เมื่อ 5 ปีก่อนฉันมีโอกาสไปประชุมต่างประเทศเกี่ยวกับเรื่อง Quality and Safety ระหว่างพักเบรคการประชุม ใต้ไปเดินชมบูธนิทรรศการที่มีการน่าเสนอขององค์กรต่างๆ ฉันสนใจองค์กรที่ชื่อ ECRI (Emergency Care Research Institute) ที่มีการน่าเสนองานวิจัยและซ้อมูลเกี่ยวกับ Top 10 Patient Safety และทำให้ฉันใต้รู้จัก Mr.Woo Kit Seong (Eric Woo) Regional Director, Asia Pacific. ECRI Institute ที่เป็นผู้นำเสนอเรื่องราว ต่างๆใต้อย่างน่าสนใจ สื่อสารเข้าใจง่ายและมีความเป็นมิตร ฉันเดินไปคุยกับ Woo ว่า ฉันอยากทำ Top 10 Patient Safety ของประเทศไทยบ้าง อยากเรียนรู้ว่าทำอย่างไร Woo บอกว่า ถ้ามีข้อมูล ถ้ามีทีมผู้เชี่ยวชาญ ที่สนใจเรื่องนี้ก็น่าจะทำได้ แต่ต้องใช้กระบวนการวิเคราะท์ข้อมูลและการ

มีส่วนร่วม ซึ่งตอนนั้นพึ่งเริ่มพัฒนาระบบ National Reporting and Leraning System ข้อมูลยังมีไม่มาก แต่มี ทีมผู้เขี่ยวชาญที่สนใจร่วมกันทำ patient and Personnel Safety Goals ฉันจึงขวนเขามารู้จักการขับเคลื่อน ในประเทศไทยก่อนไหม มาสื่อสารเรื่องราวขององค์กรเขาในประเทศไทย โดยเชิญมาร่วมงาน HA national Forum ในปี 2020 ซึ่ง Woo ก็รับปาก แต่น่าเสียดายด้วยสถานการณ์โควิด ทำให้ปีนั้นไม่ได้จัดงาน แล้วเราก็ ห่างหายกันไป

...ปี 2022 Mr.Dharmesh Doshi หนึ่งในทีมงานของ Woo ซึ่งเจอกันเมื่อ 5 ปีก่อนเดินทางมาเมืองไทย เพื่อ ขับเคลื่อนงานเรื่องเครื่องมือแพทย์และงานวิจัย ได้แวะมาหาฉันที่สำนักงาน และบอกว่า Woo ฝากถามว่ายัง สนใจทำเรื่องที่เคยคุยอยู่ไหม เราน่าจะเคลื่อนร่วมกันในทางงานวิชาการหรืองานวิจัย ฉันรู้สึกดีใจที่ Woo และ ทีม ERIC ยังไม่ลืมสิ่งที่ฉันตั้งใจ เราจึงเริ่มต้นคุยกับอีกครั้ง และนำมาซึ่งการลงนามความร่วมมือทางวิชาการ ระหว่าง สรพ.กับ ECRI เพื่อพัฒนาเชิงวิชาการมีเป้าหมาย produce a white paper on the Top 10 Patient Safety Concerns for Thailand healthcare providers through the analysis of patient safety reporting data from HAI's event reporting system, with the aim to improve patient safety through the sharing of learnings and evidence-based knowledge or information to the healthcare community. ในเดือนมีถึงนายน 2565

...หลังจากลงนามความร่วมมือ เกิดการทำงานร่วมกันอย่างชัดเจน และเห็นถึงความจริงใจและตั้งใจของ Woo และทีม ที่ประชุมวาง action plan การทำงานโดยกำหนดเป้าหมายร่วมกับทีมสรพ. ทำการบ้านน้าข้อมูลจาก NRLS ใปวิเคราะห์ ยกร้างประเด็นต่างๆ มาน่าเสนอโดยใช้ความรู้และกระบวนการที่ใช้กับการพัฒนาของ ECRI มาแลกเปลี่ยนอย่างเด็มที่ทุกครั้ง Woo เองมานั่งฟังการประชุมและการขับเคลื่อนเรื่อง 2P Safety ในประเทศ ทั้งวันโดยมีล่ามคอยแปลให้ เพื่อทำความเข้าใจระบบของไทย นั่นจึงเป็นที่มาที่ทำให้ฉันรู้จัก Woo มากขึ้น เรื่อยๆ และพบว่าทุกครั้งที่เจอกัน เขาพูดเสมอว่า เขาเป็น Non profit organization ที่ต้องการใช้ความรู้ใน การเปลี่ยนแปลงระบบให้เกิดความปลอดภัยด้วยความใจวางใจ อาจเป็นเพราะว่าเราคิดคล้ายกันหรือเราสนใจ เรื่องเดียวกันทำให้ฉันสนิทและคุยกันลื่นไหลกับ Woo

Special Thanks for Mr.Eric Woo, Regional Director, ECRI Asia Pacific



Thank you for your attention Q&A





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