AZCERT

MSS MedSafety Scan®

COVID-19 Clinical Decision Support

AZ CERT

CREDIBLEMEDS®
powered by AZCERT.ORG

M S S MedSafety Scan®

MISSION

To foster the safe use of medicines

VISION

To be the trusted international authority for research, evidence and resources for the safe use of medicines

Dear friends and supporters of AZCERT,

In the midst of today's ever-changing landscape, AZCERT and its web-based public forum, CredibleMeds® continue to make advances that promote and enable safe medicine use. This steady and substantial progress comes as a direct result of the support we receive from you, our generous donors and benefactors.

Our supporters continue to be our champions for innovation, allowing us to consistently develop new and bold medical applications that make life-saving information available for use in ways that are both novel and transformational.

We can't thank you enough for your help that enables AZCERT to remain an independent, trusted authority on safe medicine use — helping to globally advance effective, patient-centric, evidence-based, healthcare, every single day.

With best regards,

Ray Woosley

Crucial QT risk assessment with real-time decision support for safe prescribing

Better, quicker and more informed decisions at the point of care.
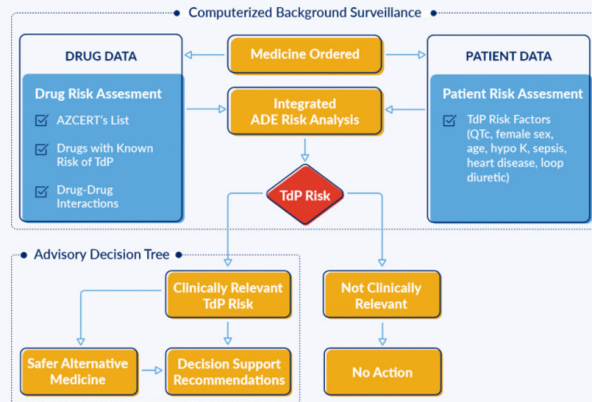
REQUEST A DEMO

Clinical Decision Support

MedSafety Scan® (MSS), developed by scientists at the Arizona Center for Education and Research on Therapeutics (AZCERT), is a platform for therapeutic decision support that incorporates the QTdrugs database from the CredibleMeds website with reliable drug-drug interaction predictions to identify patients at greatest risk of major adverse drug reactions. MSS is built on expert manual curation of QT-risk and drug-drug interaction data to deliver accurate therapeutic risk assessment without false positives or irrelevant information that can overwhelm prescribers due to alert fatigue.

MSS captures essential data to identify a high risk profile, and then informs prescribers when medications and/or combinations of medicines have the potential to cause prolonged QT interval, torsades de pointes (TdP) arrhythmia and/or sudden cardiac death. This personalized risk assessment assists prescribers throughout the decision-making process, not just after a prescribing error has been detected.

Computerized Background Surveillance

DRUG DATA — Medicine Ordered — PATIENT DATA

Drug Risk Assesment
- ☑ AZCERT's List
- ☑ Drugs with Known Risk of TdP
- ☑ Drug-Drug Interactions

Integrated ADE Risk Analysis

Patient Risk Assesment
- ☑ TdP Risk Factors (QTc, female sex, age, hypo K, sepsis, heart disease, loop diuretic)

TdP Risk

● Advisory Decision Tree ●

Clinically Relevant TdP Risk → **Safer Alternative Medicine** → **Decision Support Recommendations**

Not Clinically Relevant → **No Action**

Personalized Risk Scoring

Personalized scoring for risk of prescription medicines.

Using clinical data from the patient's electronic medical record, the MedSafety Scan® algorithm gathers important clinical characteristics of each patient, assesses the risk of drug-induced harm and provides personalized medical risk assessment and clinical options for monitoring or medication adjustment based on individual patient data.

As each medical facility will most likely have their own patient demographics and drug use patterns, the system is designed to be customized for use in any clinical environment and the threshold and type of notifications sent to prescribers can be customized on a site-by-site scenario for each institution or clinical unit.

AZCERT DEBUTS MEDSAFETY SCAN®

Ushering in a New Era of Clinical Decision Support Utilizing Scientific Data and Informatics

MedSafety Scan's ability to aggregate, curate and personalize prescription advisories in clinical settings is a pioneering application — ushering in a new era for how we use data, information and knowledge to improve human health and the delivery of health care services. AZCERT's world-renowned credibility in the specific area of medication safety has offered the healthcare industry an easy-to-follow roadmap by using our expertise in implementing well-proven and cutting edge science to develop applications that are focused on the patients' and the prescribers' best possible clinical decisions.

MedSafety Scan is accelerating the pathway for healthcare systems to reliably use healthcare IT solutions to consistently and dependably deliver life-saving clinical decision support advisories.

MedSafety Scan® Paves the Way for Healthcare Systems to Reliably Use Clinical Decision Support IT Solutions

In January 2020, AZCERT launched medsafetyscan.com, a website that provides valuable information about the benefits and features of MedSafety Scan®. MedSafetyScan.com offers a comprehensive introduction to MedSafety Scan's real-time decision support capabilities and will support partnership development in 2020 and beyond.

OUR AIMS

- To reduce the harm from prescribing errors and drug-drug interactions

- To provide the public, healthcare providers and research scientists with a credible, accurate and reliable assessment of the potential harm caused by medications

- To enable healthcare systems to improve the safe use of medications by incorporating the AZCERT research findings in their electronic systems designed to support and foster the safe use of medicines
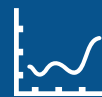
KEY STRATEGIES TO ACCOMPLISH OUR AIMS

- Remain independent of sources of bias that could negatively impact in our analyses of drug safety

- Provide research tools that are novel and which can be integrated into the most modern healthcare systems

- Partner with trusted and respected organizations which share our mission and our standard of independence

MEASURE OUR IMPACT

- We know we're making progress if the scientific information we provide continues to be used by patients, prescribers and healthcare systems to make decisions that result in improved health outcomes
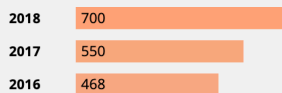
AZCERT RECEIVES GUIDESTAR PLATINUM STATUS

We are proud to announce that AZCERT has achieved the Platinum GuideStar Status Seal of Transparency, the highest level of recognition given by GuideStar, the world's largest source of information on nonprofit organizations. We believe that transparency goes hand in hand with maintaining independence and credibility as a leading authority in the safe use of medicines. Platinum GuideStar Status is a testament to this pledge of credibility.

Number of health outcomes improved

TOTALS BY YEAR

Year	Value
2018	700
2017	550
2016	468

POPULATION(S) SERVED
General/Unspecified

RELATED PROGRAM
Clinical Decision Support for Safe Use of Antibiotics

TYPE OF METRIC
Outcome - describing the effects on people or issues
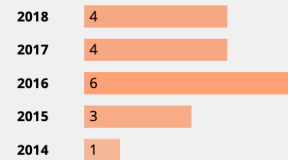
DIRECTION OF SUCCESS
Increasing

CONTEXT NOTES
Number of prescription errors is being tracked in a major hospital system of 29 hospital ICUs

Number of press articles published

TOTALS BY YEAR

Year	Value
2018	4
2017	4
2016	6
2015	3
2014	1

POPULATION(S) SERVED
General/Unspecified

RELATED PROGRAM
Clinical Decision Support for Safe Use of Antibiotics

TYPE OF METRIC
Output - describing our activities and reach
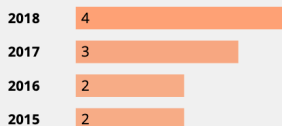
DIRECTION OF SUCCESS
Holding steady

CONTEXT NOTES
Articles published in the scientific or medical literature on the safe use of medicines

Number of groups brought together in a coalition/alliance/partnership

TOTALS BY YEAR

Year	Value
2018	4
2017	3
2016	2
2015	2

POPULATION(S) SERVED
General/Unspecified

RELATED PROGRAM
CredibleMeds Website

TYPE OF METRIC
Output - describing our activities and reach
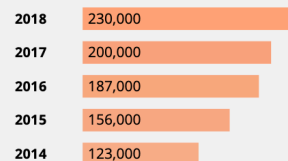
DIRECTION OF SUCCESS
Increasing

CONTEXT NOTES
Created partnership between a College of Medicine and a major non-profit healthcare systems of 29 hospitals. Expanded to include additional hospital systems in Indiana, Belgium and the Netherlands

Number of return website visitors

TOTALS BY YEAR

Year	Value
2018	230,000
2017	200,000
2016	187,000
2015	156,000
2014	123,000

POPULATION(S) SERVED
General/Unspecified

RELATED PROGRAM
CredibleMeds Website

TYPE OF METRIC
Input - describing resources we use

DIRECTION OF SUCCESS
Increasing

CONTEXT NOTES
Unique new visitors to the CredibleMeds website is a measure of the quality and value of the scientific analyses we conduct

AZCERT

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