

EBSCO Health Professional Services

CKN – What works?

August 2019

What we will cover today

Queensland Health Clinical Knowledge Network Clinical Engagement & What works? Shared Decision Making in Australia Clinical case

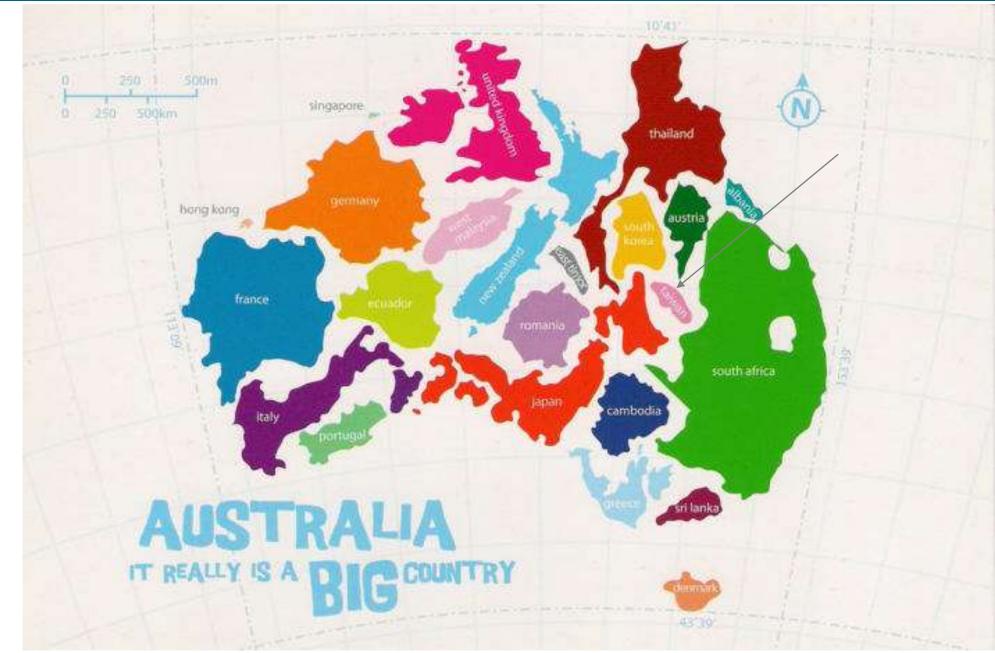
Australia

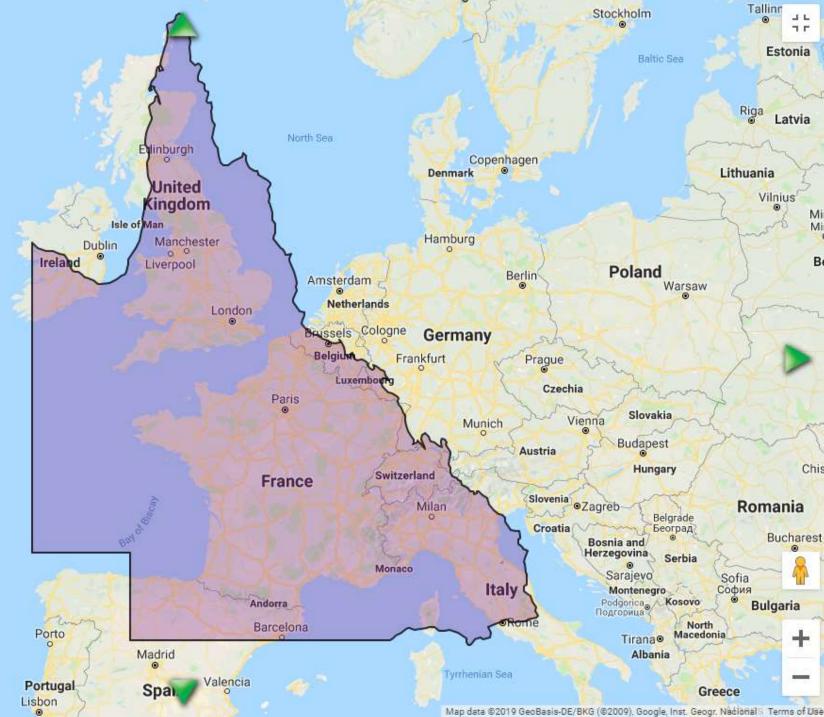
- Population 24.5 Million
- Medicare
- Ranked 8th Bloomberg's Healthcare Efficiency Score
- Aging population
- Rise in chronic disease

Taiwan

- Population 23.5 Million
- NHI
- Ranked 9th Bloomberg's Healthcare Efficiency Score
- Aging Population
- Rise in chronic disease

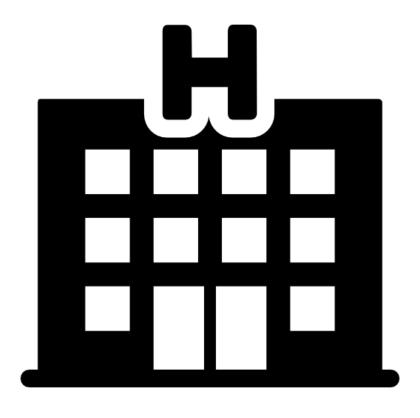






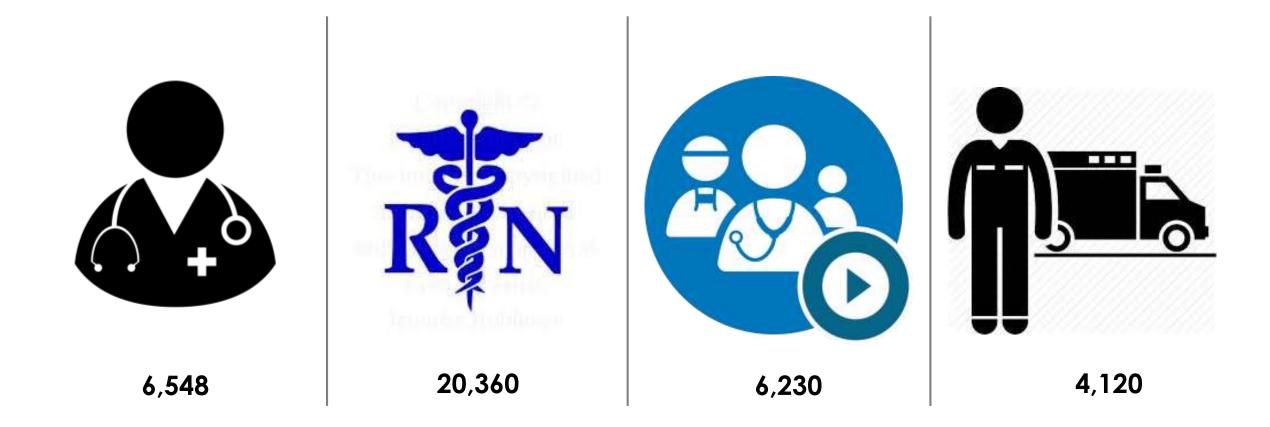


16 Hospital and Health Services



106 Hospitals

QLD Health Clinical Staff



Total 37,258

- Access outside of CKN portal
 - Mobile App
 - Remote Access
 - Desktop Links
 - EMR Link

- Access outside of CKN
- Engaging Medical Education
 - Orientation Programs
 - Interns
 - Residents/HMOs/PHOs
 - Registrars
 - Junior Medical Officer training days
 - Development Days

- Access outside of CKN
- Engaging Medical Education Units
- Engaging Clinical Educators
 - Nursing and Allied Health Educators
 - Orientation Programs
 - Development Days
 - In-session training
 - Ward Rounds

- Access outside of CKN
- Engaging Medical Education Units
- Engaging Clinical Educators
- Engage other State-wide Clinical Networks
 - Rural & Remote Clinical Support Unit
 - Clinical Excellence Division
 - eHealth Queensland
 - Queensland Ambulance Division

- Access outside of CKN
- Engaging Medical Education Units
- Engaging Clinical Educators
- Engage other State-wide Clinical Networks
- Sponsorships
 - Grand Rounds
 - Junior Medical Officer continuing development sessions
 - Career Days

- Access outside of CKN
- Engaging Medical Education Units
- Engaging Clinical Educators
- Engage other State-wide Clinical Networks
- Sponsorships
- Super Users
 - Onsite "expert"
 - Conduct "peer-to-peer" sessions
 - 5 active Super Users
 - Director of Clinical Training
 - Resident
 - Pharmacist
 - Clinical Nurse Educator
 - Medical Research Assistant

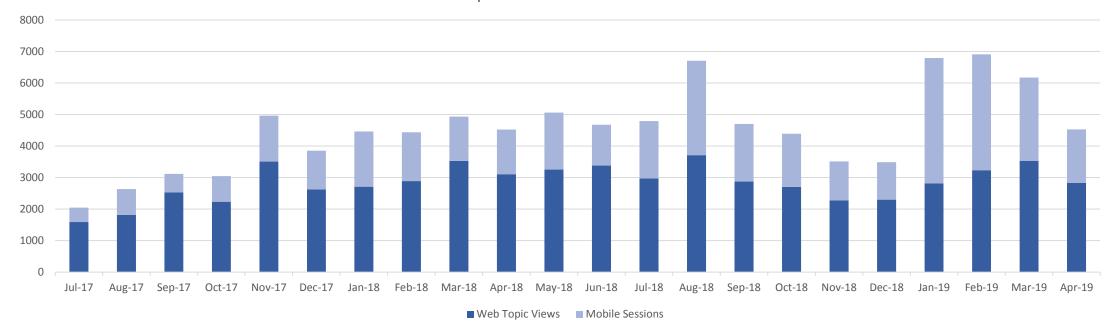


Challenges?

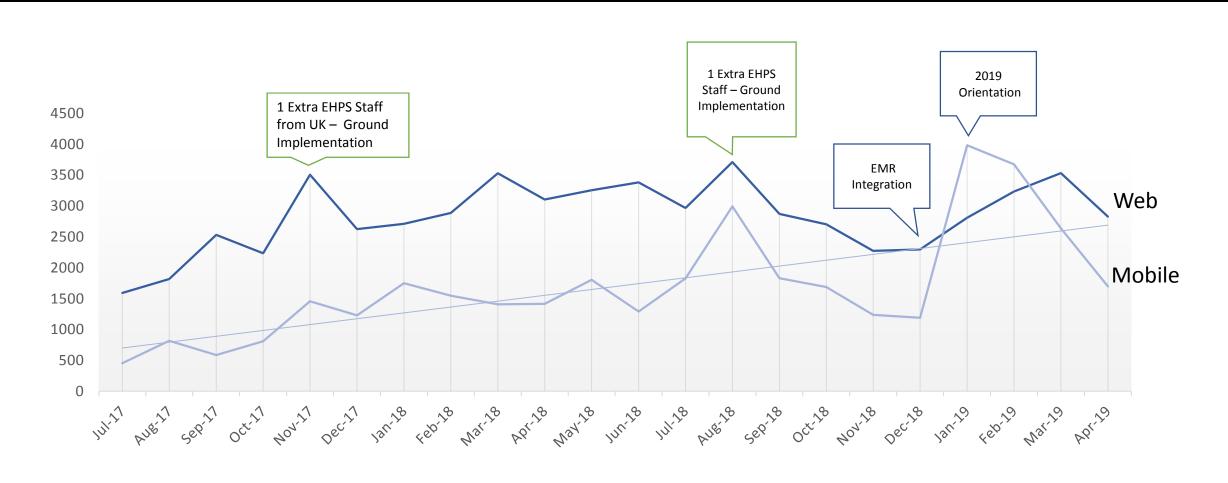
- QLD political environment
- Internal politics within CKN & HHSs
- EMR integration process

Total CKN Usage July 17 to April 19

Web topic views and Mobile Sessions



CKN Mobile vs Web Usage July 17 to April 19



Great success in Taiwan

- Mobile session grows from 42,316 to 58,245 and it's 38% increasing.(2018/1~7 & 2019/1~7)
- Top 6 country in the worldwide.
- DynaMed Success Story in China Medical University(will be published in 2019)
- Embed DynaMed with Hospital HIS System
 - China Medical University(Key Word)
 - Chi Mei Hospital(Key Word)
 - Taipei Veterans General Hospital(EBM Portal)
 - Kuo General Hospital(Key Word & ICD-10)
 - Ten-Chen Medical Group(icon)
 - Yonghe Cardinal Tien Hospital(icon)
 - Tzu Chi University & Buddhist Tzu Chi General Hospital(Teaching Portal)

Chi Mei Hospital



KUO General Hospital

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Ten-Chen Medical Group





The Most Useful Information



BEST EVIDENCE

- Systematic literature surveillance
- Critically appraised
- Synthesized
- Current



BEST GUIDANCE

- Recommendations based on the most recent clinical practice guidelines
- Backed by the best evidence
- Minimize bias

Complex Clinical Scenario

Clinical scenario:

75 y.o. female with new onset atrial fibrillation with a history of hypertension and diabetes mellitus.

What is her risk of stroke?

What is her bleeding risk?

What are her options for stroke prevention?

What are the relative risks and benefits of each of those options?

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Thromboembolic prophylaxis in atrial fibrillation

TOPIC

UPDATES





Overview and Recommendations

Background

Evaluation

Management

Related Summaries

Overview

Definitions

- Recommendations
- Assessing Embolic and Bleeding Risk
- Risk-Based Approach to Antithrombotic
 Therapy
- Vitamin K Antagonists (VKAs)
- Direct Oral Anticoagulants (DOACs)
- Antiplatelet Therapy

Anticoagulant plus Antiplatelet

- Left Atrial Appendage Closure
- Thromboembolic Prophylaxis For Patients
 Undergoing Cardioversion
- Adverse Effects of Thromboembolic Prophylaxis
- Ouality Improvement

Overview and Recommendations

Background

- Thromboembolism is a major complication of atrial fibrillation which may result in stroke or death.
- The risk of thromboembolism can be significantly reduced by an appropriate use of antithrombotic therapy but at a somewhat increased risk of bleeding.
- Most patients with atrial fibrillation are at increased risk of stroke and should receive thromboembolic prophylaxis in order to lower that risk.
- The net clinical benefit (risk of thromboembolism vs. risk of bleeding) needs to be considered in making a decision about what type of thromboembolic prophylaxis is used.

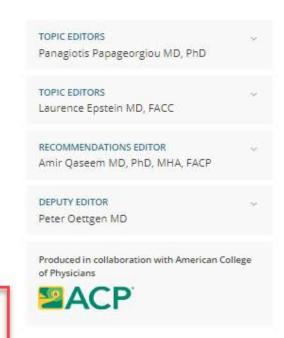
Evaluation

- Determine the patient's risk of stroke and major bleeding using a validated risk score such as (Strong recommendation):
- CHA2DS2-VASc score for risk stratification of stroke risk
- HAS-BLED score to predict the risk of bleeding
- EBSCO Health A FIB decision support ☐ for combining both calculators

Management

Treatment Based on Risk

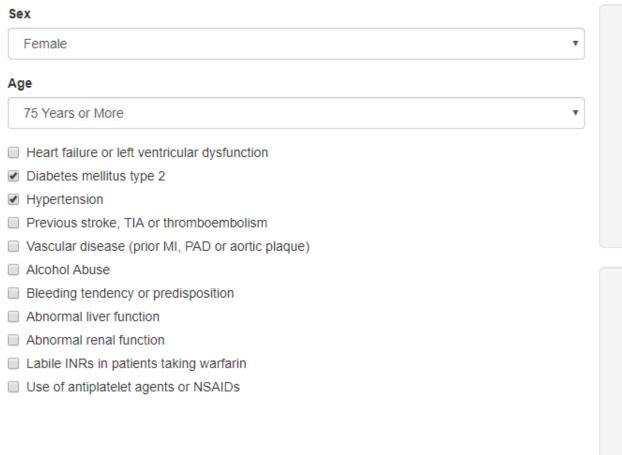
 Consider using a shared decision making patient decision aid to select thromboembolic prophylaxis options and discuss individualized benefits and harms with your patient to inform patient preferences.

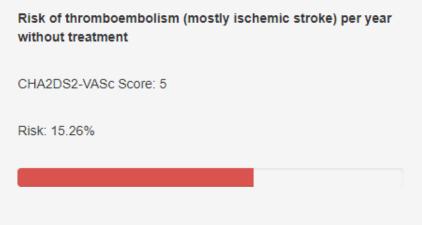


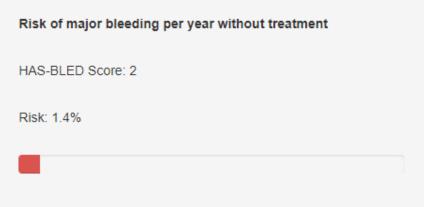


1. Complete Risk Scores

2. Select Options to Compare



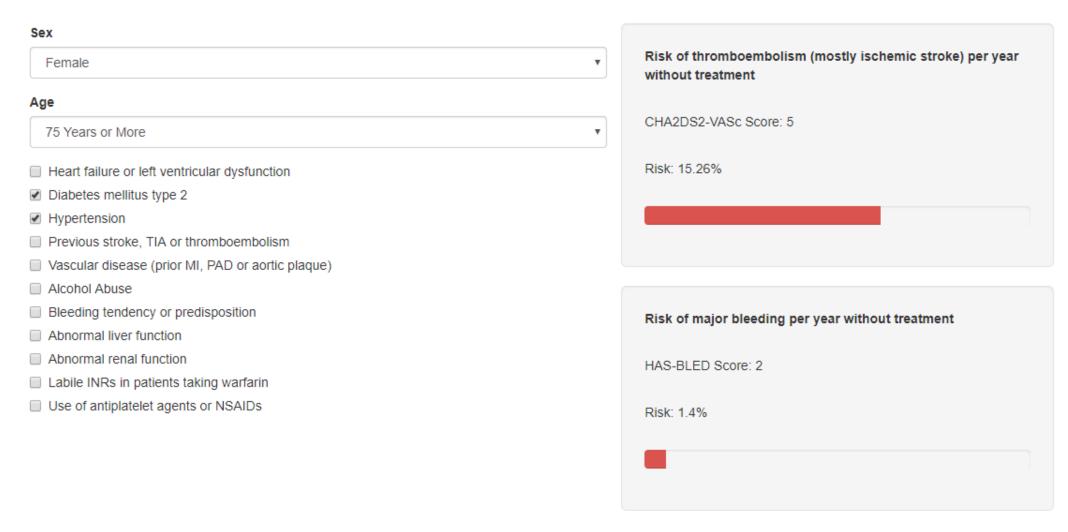




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1. Complete Risk Scores

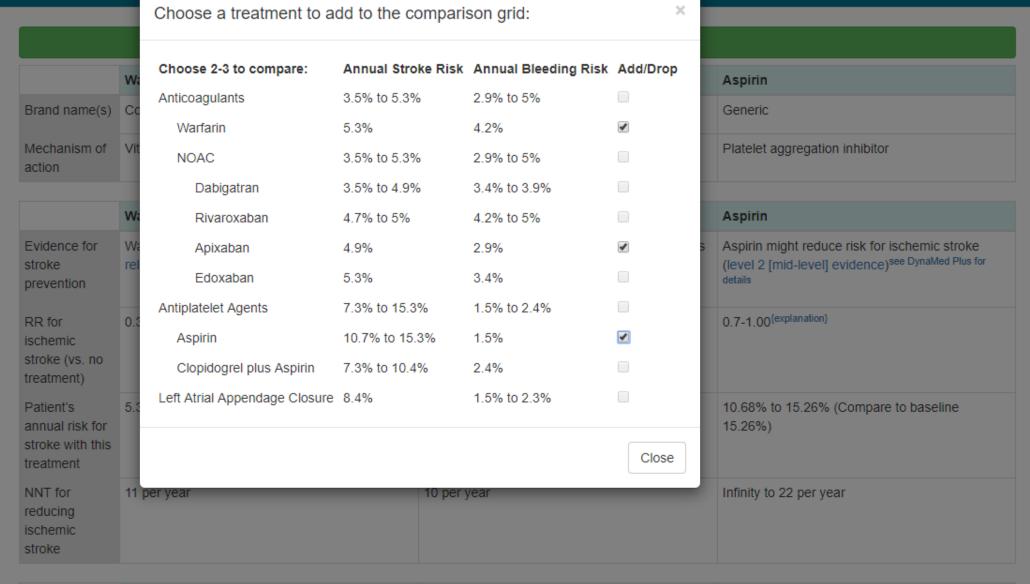
2. Select Options to Compare



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1. Complete Risk Scores

Select Options t Compare



	Warfarin	Apixaban	Aspirin
	Warfarin may increase risk of major bleeding (level 2 [mid-level] evidence) ^{see DynaMed Plus for details}		Aspirin might slightly increase risk for major bleeding (level 2 [mid-level] evidence) ^{see DynaMed} Plus for details

action

1. Complete Risk Scores

2. Select Options to Compare

Add/Change Options Warfarin Apixaban **Aspirin** Brand name(s) Coumadin, generic Eliquis Generic Factor Xa inhibitor Mechanism of Vitamin K antagonist Platelet aggregation inhibitor

	Warfarin	Apixaban	Aspirin		
Evidence for stroke prevention	Warfarin reduces risk of stroke (level 1 [likely reliable] evidence) ^{see DynaMed Plus for details}	Apixaban may reduce risk for ischemic stroke as effectively as warfarin (level 2 [mid-level] evidence) ^{see DynaMed Plus for details}	Aspirin might reduce risk for ischemic stroke (level 2 [mid-level] evidence) ^{see DynaMed Plus for details}		
RR for ischemic stroke (vs. no treatment)	0.35	0.32	0.7-1.00 ^{explanation}		
Patient's annual risk for stroke with this treatment	5.34% (Compare to baseline 15.26%)	4.88% (Compare to baseline 15.26%)	10.68% to 15.26% (Compare to baseline 15.26%)		
NNT for reducing ischemic stroke	11 per year	10 per year	Infinity to 22 per year		

	Warfarin	Apixaban	Aspirin		
Evidence for complications	Warfarin may increase risk of major bleeding (level 2 [mid-level] evidence) ^{see DynaMed Plus} for details	Apixaban may have lower risk of major bleeding compared to warfarin (level 2 [mid-level] evidence) ^{see DynaMed Plus for details}	Aspirin might slightly increase risk for major bleeding (level 2 [mid-level] evidence) ^{see DynaMed} Plus for details		
RR for major bleeding (vs. no treatment)	3	2.1	1.1		
Patient's annual risk for major bleeding with this treatment	4.20% (Compare to baseline 1.4%)	2.94% (Compare to baseline 1.4%)	1.54% (Compare to baseline 1.4%)		
NNH for increasing major bleeding	35 per year	64 per year	714 per year		

	Warfarin	Apixaban	Aspirin		
Side effects (nonbleeding)	Uncommon	Uncommon	Uncommon		
Typical dosing	Once daily with dose titrated to maintain INR 2-3	5 mg twice daily	75-325 mg once daily		
Renal dosing	No adjustment needed	2.5 mg twice daily if 2-3 of age ≥ 80 years, body weight ≤ 60 kg, or serum creatinine ≥ 1.5 mg/dL	No adjustment needed		
Drug interactions	Many (and drug-food interactions)	Fenofibrate, fluconazole, nefazodone, orlistat, simeprevir, SNRIs, SSRIs, tipranavir; dual CYP3A4 and P-glycoprotein inhibitors	Cyclosporine, digoxin, diuretics, duloxetine, feverfew, ginkgo, lithium, methotrexate, oral hypoglycemics, SSRIs, tacrolimus, tricyclic antidepressants, venlafaxine		
Antidote for reversal	Prothrombin complex concentrates and vitamin K	Not available	Not available		

For supporting evidence, see DynaMed Plus (Thromboembolic prophylaxis in atrial fibrillation: Comparing Treatment Options).

Why should consumers buy DynaMed?

- Provide clinicians with latest clinical evidence and clinical practice guidelines to provide them with the knowledge they need to provide the best care
- Provide support for clinical decision making in normal workflow
- Improve clinical outcomes and quality of care
- Reduce cost

Policy making for healthcare at the hospital and governmental levels

Dynamed provides

- Large number of recommendations with clear distinction of which are strongly supported by clinical evidence
- Linking to over 20,000 clinical practice guidelines
- Appraisal of evidence behind Quality Measures

