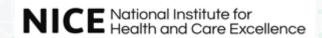


Authoring and publication platform for guideline development

# MAGICAPP PARTNERS























# WHAT IS MAGICAPP

- MAGICapp is a Norwegian not-for-profit Foundation
- Provides an authoring and publication platform used to make clinical practice guidelines, evidence summaries, and accompanying decision-aids (clinical decision support tools)
- Leader in dynamic updating, resulting in the first true "Living" Guidelines in Nephrology
- KDIGO Guidelines for BP, GN and Diabetes will be presented in Magicapp



# MAGICAPP FORMAT

- Structured recommendations presented in formats that enable users to access details and tailoring of recommendations to specific patients.
- Can be used online, on mobile, and incorporated into journal publications, like Kidney International.

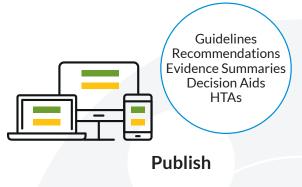
 Decision aids connected directly to recommendations, allowing a conversation between clinicians and patients about treatment choices (shared decision-making).



# STRUCTURED AUTHORING

- MAGICapp facilitates using standards for guidelines (e.g. GRADE methodology)
- Quality of the evidence, balance of benefits and harms, values and preferences, resources and other considerations
- Emphasis on transparency, linking recommendations to evidence (or detailed expert opinion, where appropriate)
- KDIGO is partnering with the Cochrane ERT for guidelines in Magicapp





5

# Formulate PICO questions

**1a. Define**Population
Intervention
Comparator

**1b. Define**Patient-important
Outcomes





# Formulate recommendations

- For or against (direction)
- Strong or weak (strength)
  - "We recommend..."
    "We suggest..."
- Formulate Rationale
- Include Practical information if needed



Find outcomes across studies



# Go from evidence to recommendations

Assess Evidence to Decision factors

- The balance between benefits & harms
- Quality of the documentation
- Values & preferences
- Resource use and other considerations







# Make evidence profiles

- Plot study details
- Plot effect estimates,
- Rate quality of evidence
- Write summary



For each outcome, rate the quality of all included studies combined, using study design, 5 downgrade factors and upgrade factors into: High, Moderate, Low, Very low





## DISSEMINATION

- KDIGO Website & App
- MAGICapp Site
- KI and cross disciplinary journals

#### 2017 Canadian Guideline for Opioids for Chronic Pain

The 2017 Canadian Guideline for Opioid Therapy and Chronic Non-Cancer Pain was developed in response to concerns that Canadians are the second highest users per capita of opioids in the world, while the rates of opioid prescribing and opioid-related hospital visits and deaths have been increasing rapidly.

The guideline's recommendations for clinical practice have been developed by an international team of clinicians, researchers and patients, led by the Michael G. DeGroote National Pain Centre at McMaster University and funded by Health Canada and the Canadian Institutes of Health Research. The guideline was published by the <a href="Canadian Medical Association Journal (CMAJ)">CMAJ</a>).

The guideline incorporates medical evidence published since the previous national opioid use guideline was made available in 2010. They are recommendations for physicians, but are not regulatory requirements.

The guideline does not look at opioid use for acute pain, nor for patients with pain due to cancer or in palliative care, or those under treatment for opioid use disorder or opioid addiction



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Find recommendations, evidence summaries and consultation decision aids for use in your practice





### Lignes directrices canadiennes relatives à l'utilisation des opioïdes pour le traitement de la douleur chronique non cancéreuse, édition 2017



#### Download PDF

#### **Appendicies**

- Values and Preferences Statement (English)
- Values and Preferences Statement (French)

#### Tools

- Opioid Tapering (Patient Info English)
- Opioid Tapering (Patient Info French)



# DYNAMIC UPDATING

- Guidelines in journals are static, but in MAGICapp they are in a web-based application, so much easier to update.
- Each recommendation statement can be updated separately, reducing time needed to update content.
- "Living" guidelines = continuous updating, so that they are always up to date.
  - Note: new evidence does not always change recommendations; focus of updates would be where recommendations need change.
  - KDIGO may make a note where new evidence was reviewed but no change was made.





Need an account? Sign up



Contact us

Improving patient care through guidelines, evidence summaries and decision aids that we can all trust, use and share

#### Recently published guidelines





BMJ Rapidrecs for Transcatheter aortic valve implantation versus surgical aortic valve replacement for severe aortic stenosis in low-intermediate risk patients

Per Olav Vandvik, on behalf of the RapidRecs panel - WikiRecs Group



#### The 2017 Canadian Guideline for Opioids for Chronic Non-Cancer Pain

Jason Busse Associate Professor, Department of Anesthesia, Associate Professor, Department of Health Research Methods, Evidence and Impact McMaster University - National pain center



#### Retningslinjer for antitrombotisk behandling og profylakse

Per Olav Vandvik - Norsk Selskap for Trombose og Hemostase



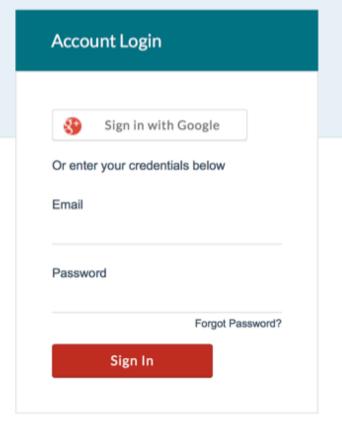
Nasjonal faglig retningslinje for svangerskapsdiabetes

Helsedirektoratet



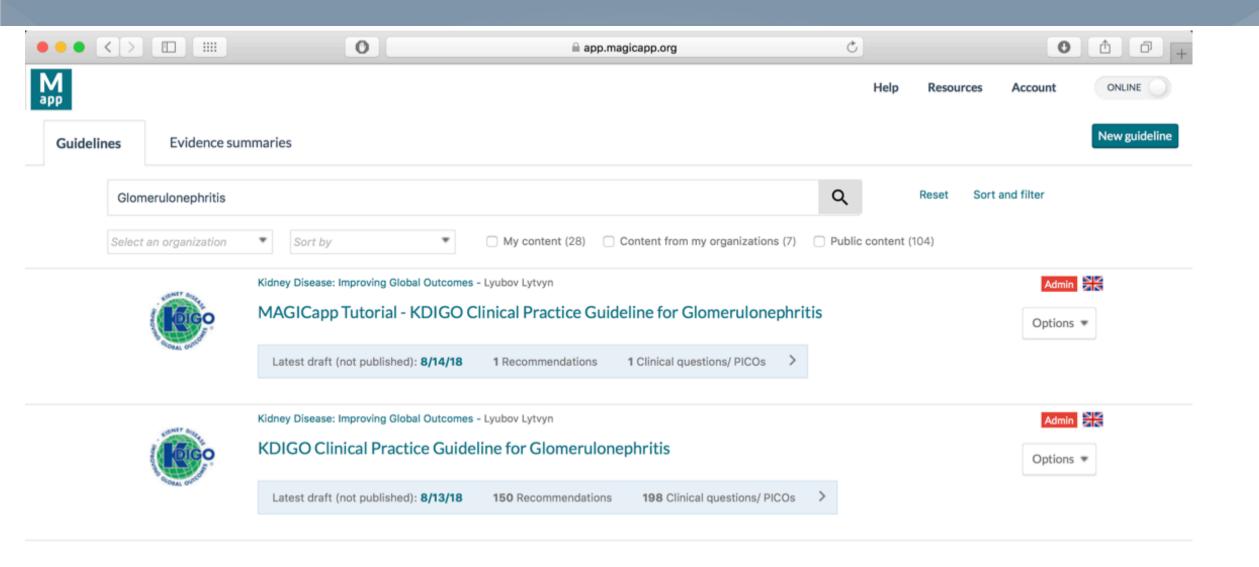
National klinisk retningslinje for indikation for transfusion med blodkomponenter

Sundhedsstyrelsen

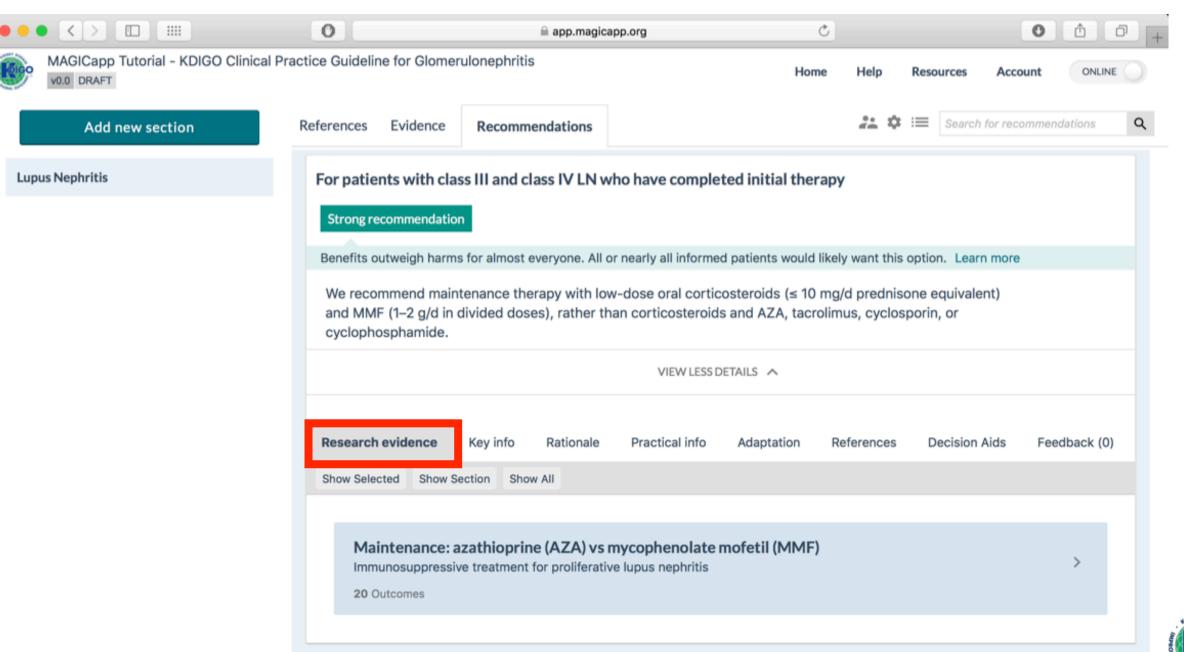




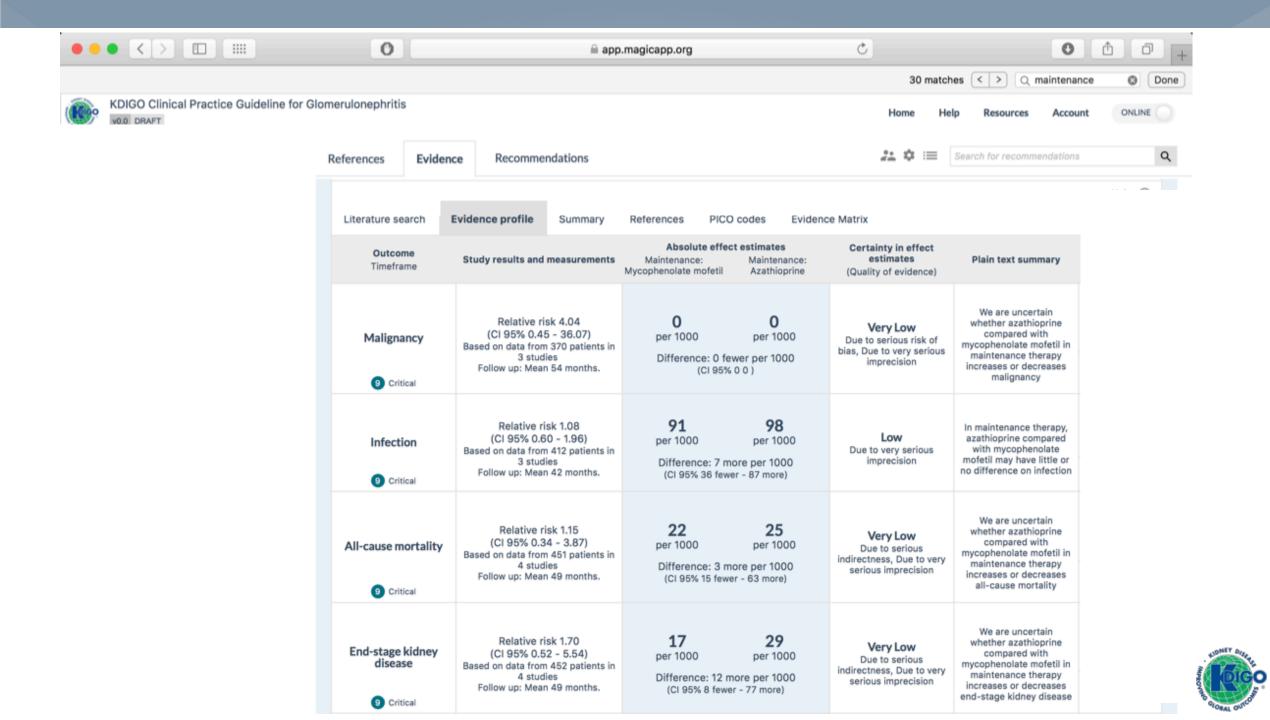


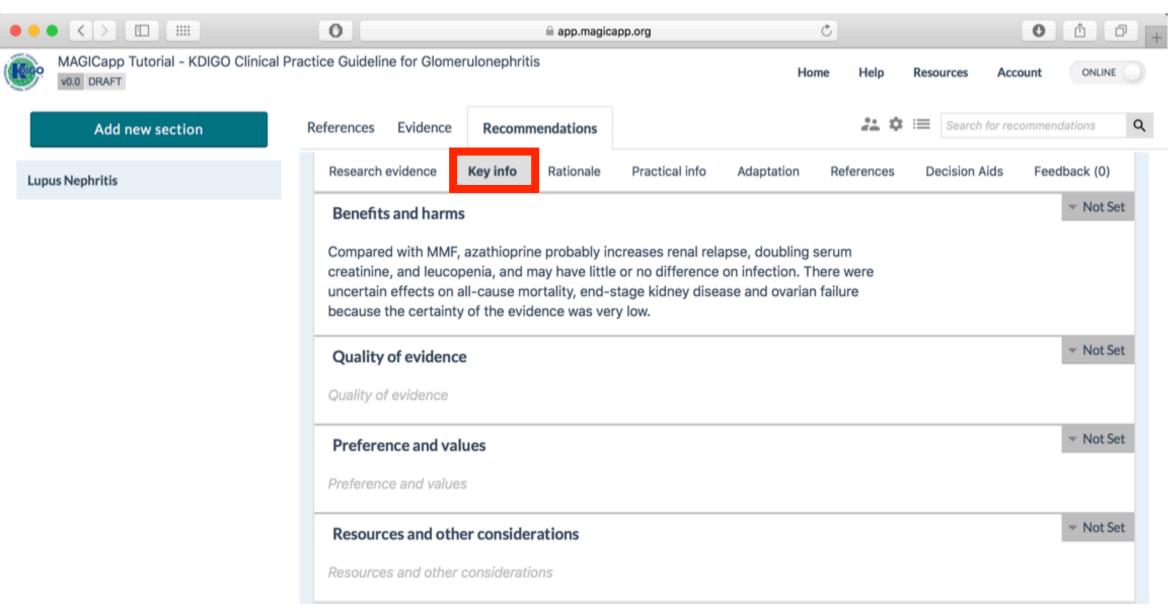




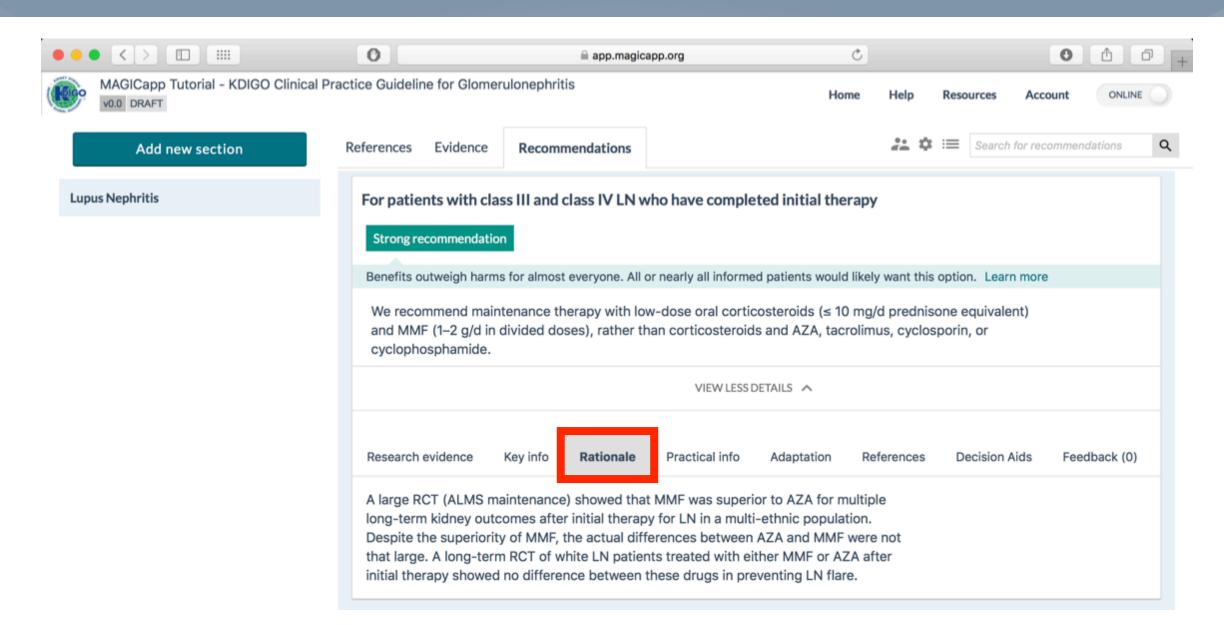




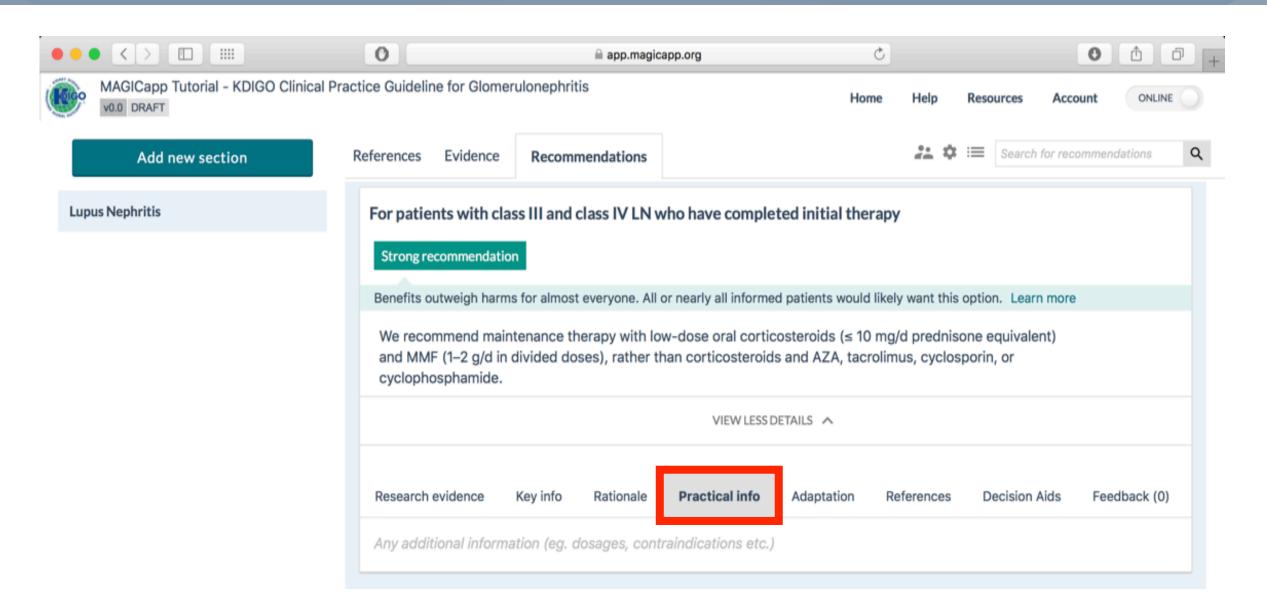




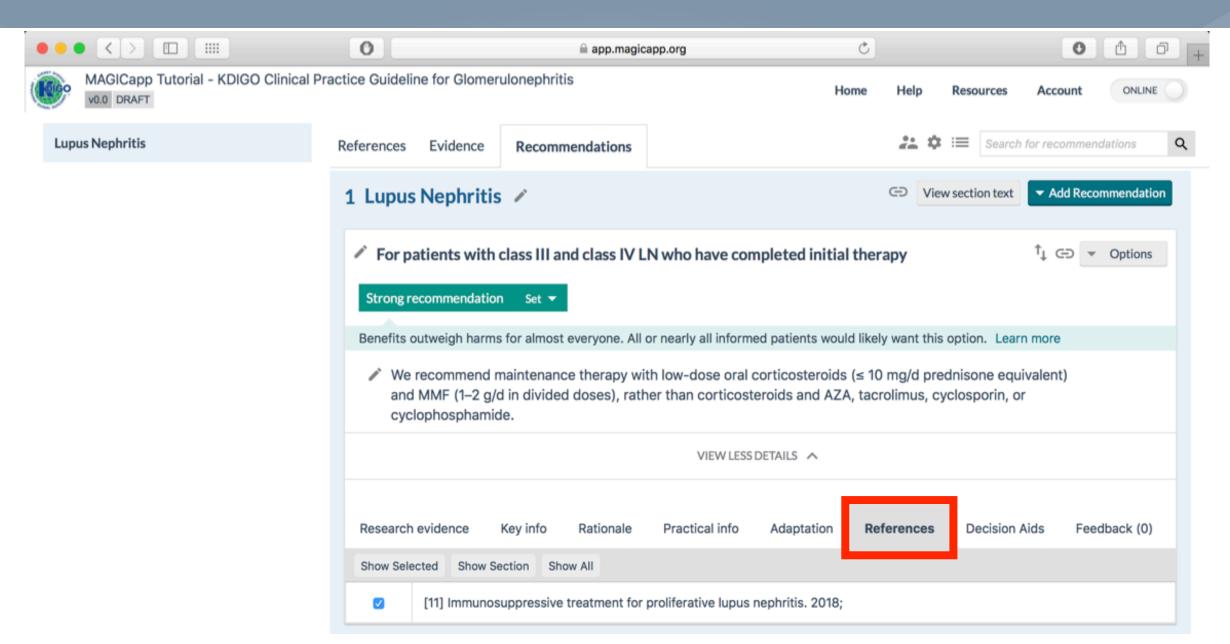




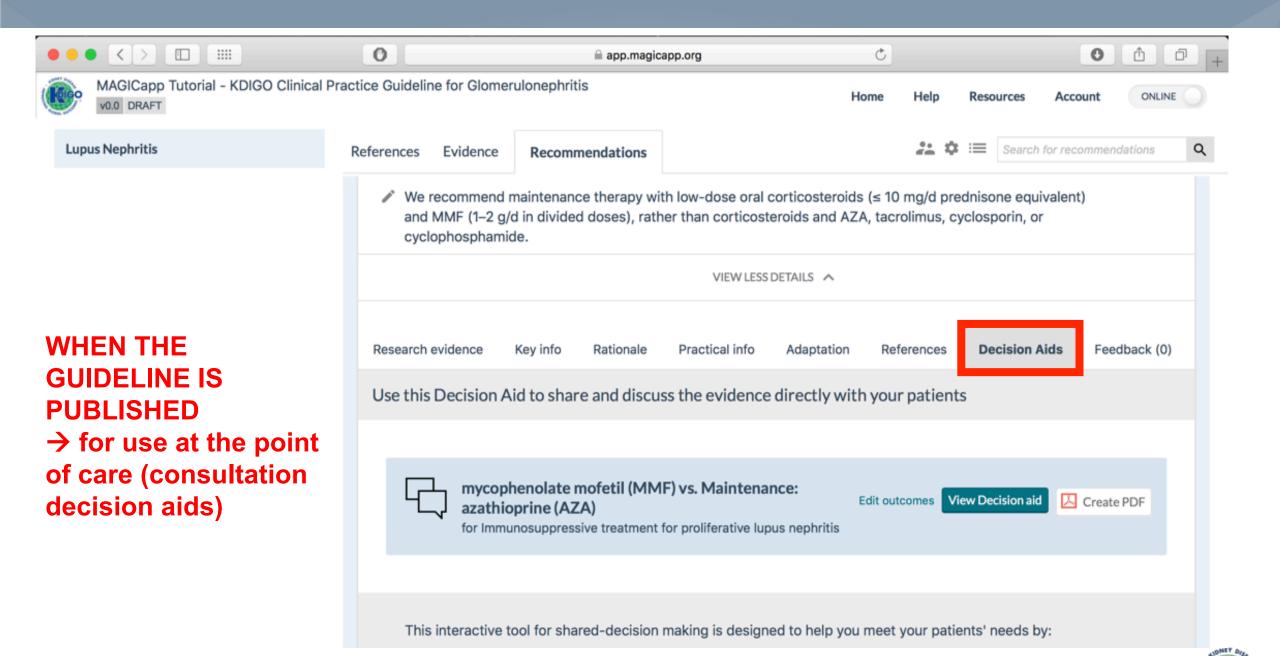












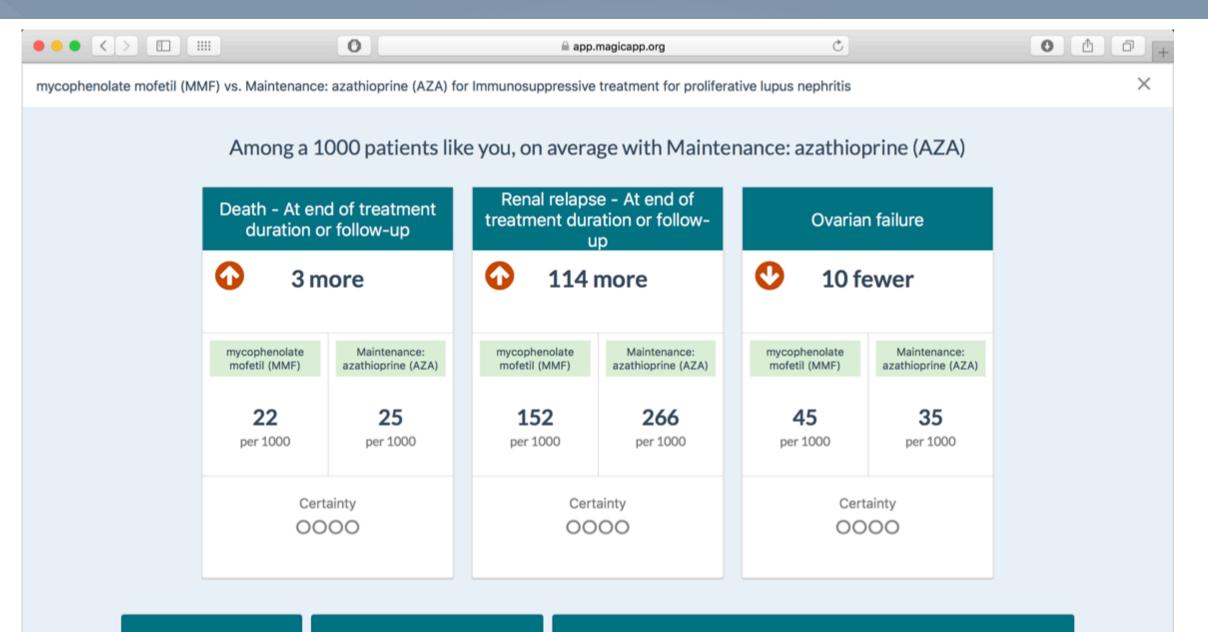
This interactive tool for shared-decision making is designed to help you meet your patients' needs by:

- Exploring what outcomes they wish to discuss
- Communicating the benefits and harms of each alternative, as well as their (un)certainty
- Discussing practical issues associated with each alternative

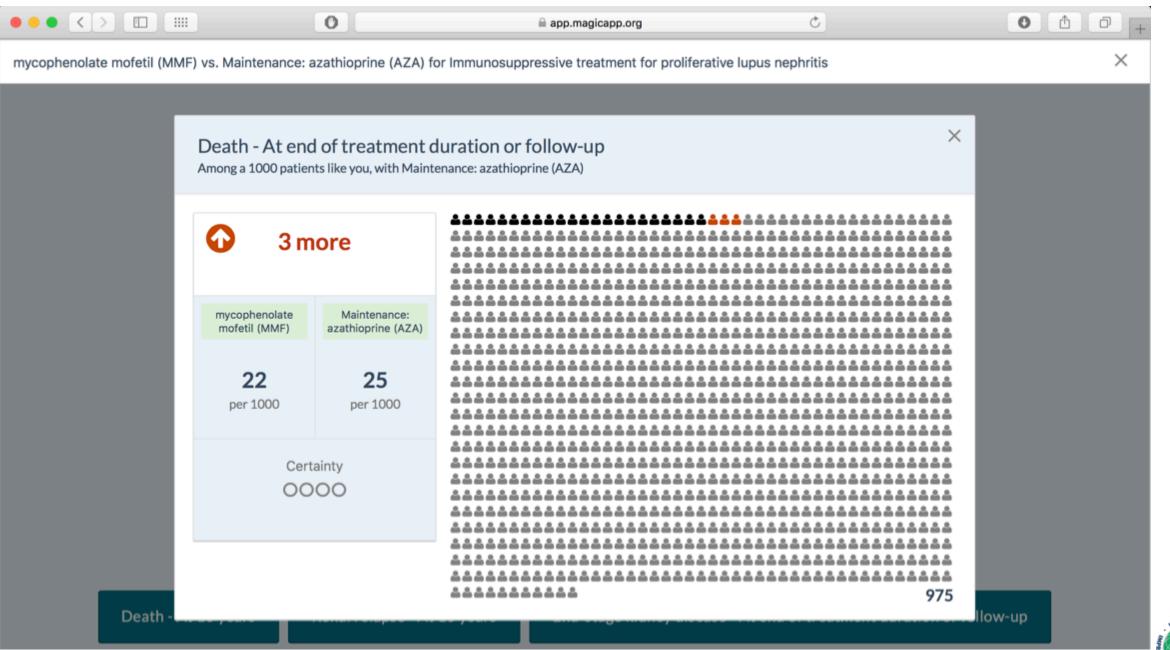
This decision aid does not replace clinical judgment. Adapt it to the context as needed and use your own communication style.

View educational module











### Alkylating agents vs Placebo or no treatment or steroids

Adults with idiopathic membranous nephropathy with nephrotic syndrome

10 Outcomes

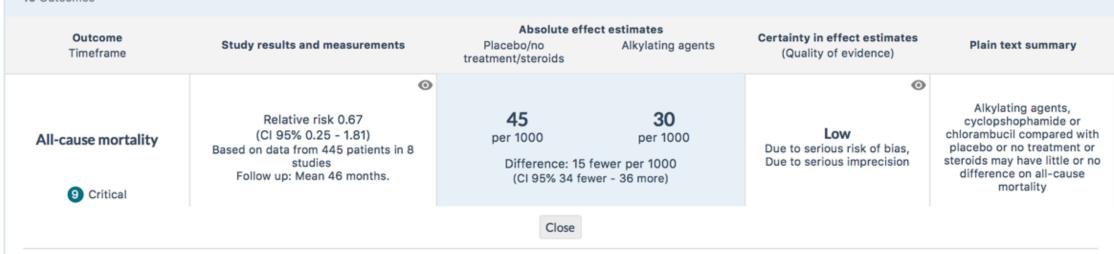
All-cause mortality  Relative risk 0.67 (CI 95% 0.25 - 1.81) Based on data from 445 patients in 8 studies Follow up: Mean 46 months.  Per 1000  Relative risk 0.67 (CI 95% 34 fewer - 36 more)  Difference: 15 fewer per 1000 (CI 95% 34 fewer - 36 more)  Per 1000  Difference: 15 fewer per 1000 (CI 95% 34 fewer - 36 more)  Moderate Due to serious risk of bias, Due to serious imprecision treatment or steroids make little or no different on all-cause mortality  Relative risk 0.31 (CI 95% 0.15 - 0.61) Based on data from 392 patients in 8 studies Follow up: Mean 43 months.  Difference: 109 fewer per 1000 (CI 95% 134 fewer - 62 fewer)  Difference: 109 fewer per 1000 (CI 95% 134 fewer - 62 fewer)  Per 1000  Per 1000  Per 1000  Difference: 109 fewer per 1000 (CI 95% 134 fewer - 62 fewer)  No studies were found tooked at ±50% loss of GFR  Relative risk (CI 95% -)  Per 1000  Pe					
All-cause mortality  Relative risk 0.67 (CI 95% 0.25 - 1.81) Based on data from 445 patients in 8 studies Follow up: Mean 46 months.  Per 1000 Difference: 15 fewer per 1000 (CI 95% 34 fewer - 36 more)  Due to serious risk of bias, Due to serious imprecision  Relative risk 0.31 (CI 95% 0.15 - 0.61) Based on data from 392 patients in 8 studies Follow up: Mean 43 months.  Per 1000 Difference: 109 fewer per 1000 (CI 95% 134 fewer - 62 fewer)  Per 1000 Difference: 109 fewer per 1000 (CI 95% 134 fewer - 62 fewer)  Per 1000 Difference: 109 fewer per 1000 (CI 95% 1)  Per 1000 Difference: 109 fewer per 1000 (CI 95% 1)  Per 1000 Difference: 109 fewer per 1000 (CI 95% 134 fewer - 62 fewer)  Per 1000 Difference: 109 fewer per 1000 (CI 95% 1)  Per 1000 Difference: 109 fewer per 1000 (CI 95% 1)  Per 1000 Difference: 109 fewer per 1000 (CI 95% 1)  Per 1000 Difference: 109 fewer per 1000 (CI 95% 1)  Per 1000 Difference: 109 fewer per 1000 (CI 95% 1)  No studies were found to looked at infection  No studies were found to looked at infection  No studies were found to looked at infection		Study results and measurements	Placebo/no Alkylating agents	estimates	Plain text summary
End-stage kidney disease    Relative risk 0.31 (CI 95% 0.15 - 0.61)   Based on data from 392 patients in 8 studies Follow up: Mean 43 months.     Total   Per 1000		Relative risk 0.67 (CI 95% 0.25 - 1.81) Based on data from 445 patients in 8 studies	per 1000 per 1000  Difference: 15 fewer per 1000	<b>Low</b> Due to serious risk of bias,	cyclopshophamide or chlorambucil compared
Per 1000 per 1000    Per 1000 per 1000 per 1000 per 1000 per 1000	disease	Relative risk 0.31 (CI 95% 0.15 - 0.61) Based on data from 392 patients in 8 studies	per 1000 per 1000  Difference: 109 fewer per 1000	Moderate  Due to serious risk of bias,  Due to serious  imprecision, Upgraded due to Very large magnitude of effect, Due to serious	cyclopshophamide or chlorambucil compared
Infection Relative risk per 1000 per 1000 (CI 95% - )  Relative risk per 1000 per 1000 looked at infection	_	Relative risk			No studies were found th looked at ≥50% loss of GFR
	_	Relative risk			No studies were found th looked at infection



#### Alkylating agents vs Placebo or no treatment or steroids

Adults with idiopathic membranous nephropathy with nephrotic syndrome

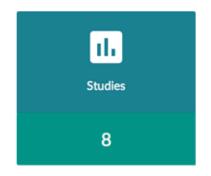
10 Outcomes



Data source for the relative effect (risk ratio, odds ratio, or hazard ratio)

#### Alkylating agents







Source of evidence

Systematic review

Study Design

Randomized controlled



~

#### Systematic review

[256] Immunosuppressive treatment for idiopathic membranous nephropathy in adults with nephrotic syndrome. 2018;

#### Included studies

Name	Duration Of Follow Up	Total Participants	Intervention Events	Intervention Participants	Control Events	Control Participants	Weight %
Howman 2013	12 months	70	2 (6.06%)	33	1 (2.7%)	37	18.0008
Jha 2007	Median 11 years	104	1 (1.96%)	51	3 (5.66%)	53	20.0557
Braun 1995	60 months	26	1 (6.67%)	15	0	11	10.3018
Tiller 1981	36 months	54	0	27	2 (7.41%)	27	11.1524
Imbasciati 1980	60 months	81	1 (2.38%)	42	3 (7.69%)	39	20.2271
Ponticelli 1983	31 months	62	0	32	1 (3.33%)	30	9.97242
Murphy 1992	24 months	26	1 (7.69%)	13	0	13	10.2897
Donadio 1974a	12 months	22	0	11	0	11	0

Attachments (forest plots, images)

2\_1\_Alkylating\_vs\_placebo\_-\_death\_od\_70781.png

Data source for the typical outcome for people who receive the comparator

#### Placebo or no treatment or steroids

Source of evidence

Control arm of reference used for intervention



# RAPID RECOMMENDATIONS

 MAGICapp also develops Rapid Recommendations in collaboration with BMJ



## Recommendation 1: Dual vs single antiplatelet therapy



### Patients that have experienced:



A score of 4 or more on the ABCD2 scale, which estimates the risk of recurrent stroke after a TIA

0



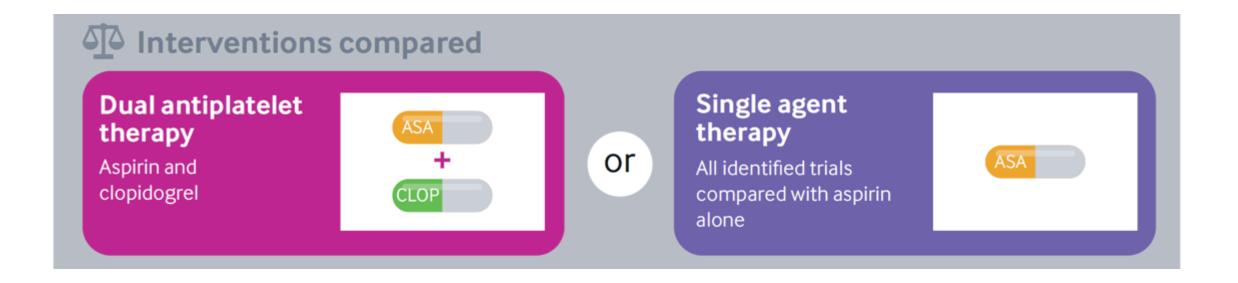


A score of 3 or less on the National Institutes of Health Stroke Scale (NIHSS), and no persistent disabling neurological deficit

0 42

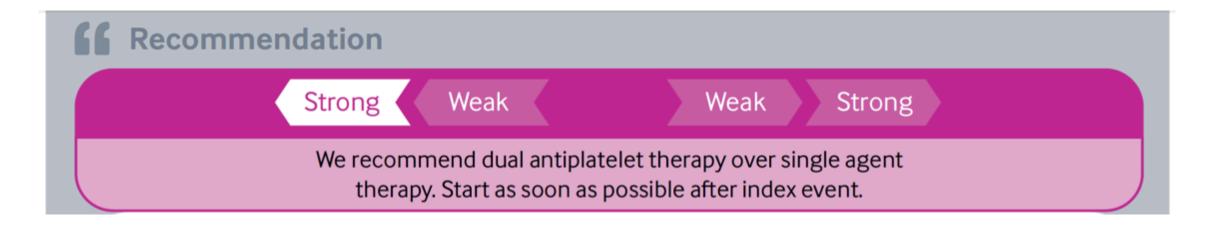


Recommendation 1: Dual vs single antiplatelet therapy





## Recommendation 1: Dual vs single antiplatelet therapy





## Recommendation 1: Dual vs single antiplatelet therapy

	Com	parison of benefits and	harms	
Favours dual anti	platelets <	No important difference	Favours sin	gle agent
thin 90 days		Events per 1000 people		Evidence quality
Non-fatal recurrent stroke	44	19 fewer	63	★★★★ High
All cause mortality	6	No important difference	5	<b>★★★</b> ★ Moderate
Functional disability	128	14 fewer	142	<b>★★★</b> ★ Moderate
Poor quality of life	55	13 fewer	68	<b>★★★</b> ★ Moderate
Recurrent TIA	36	No important difference	40	<b>★★★</b> ★ Moderate
Moderate or major bleeding	5	2 fewer	3	<b>★★★</b> ★ Moderate
Minor bleeding	13	7 fewer	6	★★★★ High



## Recommendation 1: Dual vs single antiplatelet therapy

### Key practical issues

#### **Dual antiplatelets**

Two different tablets taken once daily at same time

### Single agent

A single aspirin tablet once daily

Aspirin tablet should be swallowed whole, but clopidogrel tablet can be crushed or split

#### Dosing

Although dosing varied slightly in the included trials, for clopidogrel, most physicians and patients would probably prefer a loading dose of 300 mg rather than a higher dose. For aspirin, a daily dose between 75 mg and 81 mg represents a reasonable choice.

#### Values and preferences

The panel believes almost all patients place a high value on avoiding a recurrent stroke and a lower value on avoiding moderate or major bleeding.



### Recommendation 2: Duration of dual antiplatelet therapy





Patients initiating dual antiplatelet therapy after TIA or minor ischaemic stroke

# Interventions compared

#### **Shorter duration**

Dual antiplatelet therapy for 10-21 days after TIA or minor stroke



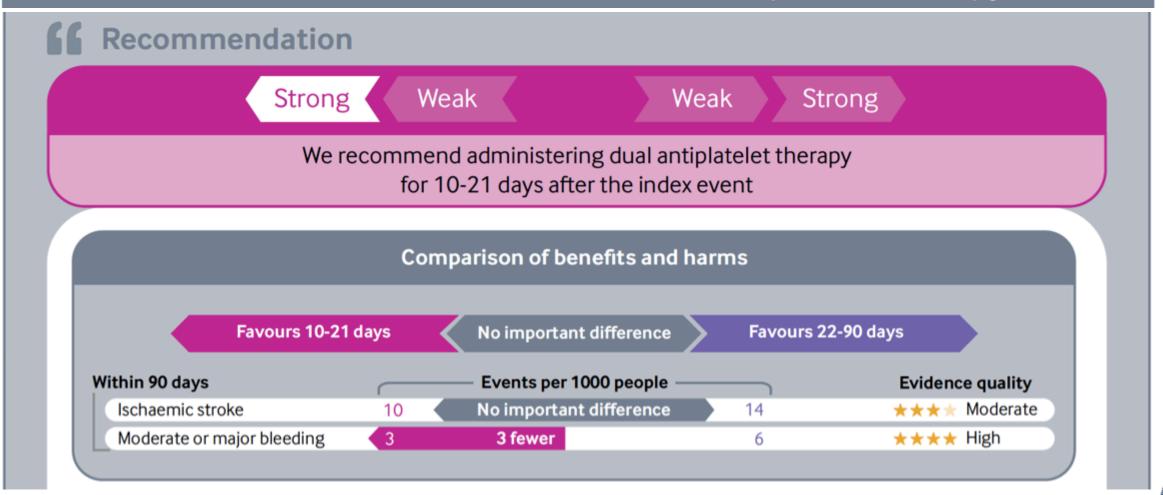
or

### Longer duration

Dual antiplatelet therapy for 22-90 days after TIA or minor stroke



## Recommendation 2: Duration of dual antiplatelet therapy



### Recommendation 2: Duration of dual antiplatelet therapy

#### Key practical issues

#### All people taking dual antiplatelets

Most patients should probably remain on single antiplatelet therapy indefinitely

Switch to anticoagulation instead of antiplatelet therapy when stroke workup reveals an indication (such as atrial fibrillation or patent foramen ovale without plans for closure)

