

Thiopurines

1971

AZA-CD

RCT/ AZA vs placebo/ CD/Induction

Conclusion:

Azathioprine was not better than placebo to induce improvement in active CD.

1971

AZA-CD II

RCT/ AZA vs placebo/ CD/ Maintenance

Conclusion:

Azathioprine was more effective than placebo in maintaining remission induced by prednisolone.

1974

AZA-UC

Randomized blind crossover trial/ AZA vs placebo /UC/ Induction

Conclusion:

In the treatment of an actual attack of UC the addition of azathioprine showed no benefit to a standard course of corticosteroid therapy.

1974

AZA-CD

Randomized blind crossover trial/AZA vs placebo / CD/ Induction

Conclusion:

This study does not provide evidence to support the effectiveness of AZA in the treatment of CD.

1979

Prednisone
sulfasalazine
AZA

RT/ AZA vs sulfasalazine vs prednisone vs placebo /CD/ Induction

Conclusion:

Prednisone & sulfasalazine are better than placebo inducing remission in CD but not azathioprine. Colonic CD was especially responsive to sulfasalazine & small bowel CD to prednisone.

Thiopurines II

1980

MCP

Randomized double blind crossover/ MCP vs placebo/ CD/Induction

Conclusion:

Mercaptopurine was better than placebo inducing clinical remission, reduction of steroids dosage and fistula healing.

2000

MCP kids

RCT/ MCP vs placebo/ pediatric CD/ Induction & Maintenance

ceboConclusion:

Addition of 6-MP to corticosteroids significantly lessens the need for prednisone and improves maintenance of remission.

2000

MCP-MTX
5ASA

RCT/ MCP vs MTX vs 5ASA / IBD / Induction

Conclusion:

These results suggest that 6-MP or MTX added to prednisone could be effective in steroid sparing, as well as in achieving and maintaining remission in steroid-dependent IBD patients.

2004

MCP/5ASA
postop

RCT /MCP vs 5ASA vs placebo / post surgery CD/Disease recurrence

Conclusion:

MCP was more effective than placebo at preventing postoperative recurrence but not 5ASA. MCP should be considered as a maintenance therapy after ileocolic resection.

2004

5ASA/ AZA
postop

Open label, RCT/ AZA vs 5ASA /post surgery CD/ Disease recurrence

Conclusion:

While no difference was observed in the efficacy of AZA and 5ASA in preventing recurrence after surgery, AZA is more effective in patients who have undergone previous intestinal resection

Thiopurines III

2006

AZA vs 5ASA

RCT/ AZA vs 5ASA/ steroid dependent UC / Induction & Maintenance

Conclusion:

Azathioprine is significantly more effective than 5-aminosalicylic acid in inducing clinical and endoscopic remission and avoiding steroid requirement in the treatment of steroid dependent ulcerative colitis.

2008

SUTD

Open randomized trial/ IFX+AZA vs conventional (steroids)/ New CD/ Induction remission

Conclusion:

Combined therapy more effective than conventional for induction and reduction of steroid use in recently diagnosed CD.

2008

METRO +/-
AZA

RCT/Metronidazol 3 months +/- AZA for 12 months / post surgery CD/ Disease recurrence

Conclusion:

Concomitant AZA resulted in lower endoscopic recurrence rates and less severe recurrences 12 months post-surgery.

2010

5ASA/AZA

RCT/ AZA vs 5ASA/ post surgery CD/ Disease recurrence

Conclusion:

In this population of patients with postoperative CD at high risk of clinical recurrence, superiority for azathioprine versus mesalazine could not be demonstrated for therapeutic failure.

2012

STORI

Prospective cohort/ stop IFX in CD in remission & maintenance on AZA/ Relapse

Conclusion:

Aprox 50% of patients with CD treated for a year with IFX+AZA relapsed within 1 year after discontinuation.

Thiopurines IV

2013

AZTEC

Prospective cohort/ stop IFX in CD in remission & maintenance on AZA/ Relapse

Conclusion:

Early AZ was no more effective than placebo to achieve sustained corticosteroid free remission but was more effective in preventing moderate to severe relapse in a post hoc analysis.

2013

AZA/METRO

RCT/ AZA vs AZA+Metronidazol/ post surgery CD/ Disease recurrence

Conclusion:

The addition of metronidazole to azathioprine did not significantly reduce the risk of endoscopic recurrence beyond azathioprine alone in this study but does not worsen its safety profile

2013

AZA vs IFX

Open label RT/ IFX vs AZA / post surgery CD/ Disease recurrence

Conclusion:

Infliximab was more effective than azathioprine in reducing histological, but not endoscopic and clinical recurrence after curative ileocolonic resection in "high risk" CD patients.

2013

ADA/AZA/
5ASA

RCT/AZA vs ADA vs 5ASA / post surgery CD/ Disease recurrence

Conclusion:

The administration of ADA after intestinal resective surgery was greatly effective in preventing endoscopic and clinical recurrence of CD.

2014

UC-SUCCESS

RCT/AZA vs IFX vs AZA+IFX / UC/ Induction

Conclusion:

IFX+AZA combotherapy superior to IFX or AZA alone achieving steroid free remission w16.

Thiopurines V

2015

REACT

RCT/ Early ADA+AZA vs conventional (steroids+/- thiopurine or ADA if no remission w12)CD/ Maintenance

Conclusion:

Lower risk of major adverse outcomes in early combined immunosuppression in CD vs conventional treatment. However, no differences in remission rates at 12 months.

2016

TOPPIC

RCT/MCP vs placebo / post surgery CD/ Disease recurrence

Conclusion:

MCP is effective in preventing postoperative clinical recurrence of CD, but only in patients who are smokers.

2016

DIAMOND

Open Label RCT/ ADA vs ADA+AZA / CD / Efficacy & safety

Conclusion:

Clinical efficacy of ADA+AZA did not differ from ADA monotherapy in CD naïve to both medications.

2017

APPRECI

RCT/ AZA vs ADA/ post surgery CD/ Disease recurrence

Conclusion:

ADA has not demonstrated a better efficacy than AZA [both associated with metronidazole] for prophylaxis of POR-CD in an unselected population.

2019

DIAMOND 2

Open label RCT/ ADA vs ADA+AZA / CD/ Maintenance

Conclusion:

Continuation of thiopurines > 6 months offers no clear benefit over scheduled ADA monotherapy.

Thiopurines VI

2020

AZA to ADAb

OL RCT/ Previous antiTNF immunogenicity randomized: AZA+antiTNF vs antiTNF / IBD / Maintenance
Conclusion:
In case of immune-mediated LOR to a first anti-TNF, AZA should be associated with the second anti-TNF.

2020

PIANO

Observational/Biologics and thiopurine/ pregnant IBD/ Safety
Conclusion:
Biologic, thiopurine, or combination therapy exposure during pregnancy was not associated with increased adverse maternal or fetal outcomes at birth or within the first year of life.

2021

STRIDENT

Open-label RCT/ADA high dose+AZA vs ADA standard / Stricturing CD/ Induction
Conclusion:
Treat to target intensification resulted in less treatment failure, reduction in stricture-inflammation, and improvement in stricture morphology, but these differences were not different from standard therapy.

2022

AAUC

Open label RCT/ Low dose AZA+allopurinol (ALLO)vs AZA standard / UC / Maintenance
Conclusion:
L-AZA/ALLO therapy was associated with a beneficial effect on steroid and infliximab-free clinical remission in patients with moderate-to-severe UC.

2023

SPARE

OL RCT/antiTNF or AZA withdrawal/ CD
Conclusion:
IFX withdrawal should only be considered after careful assessment of risks/benefits, whereas withdrawal of immunosuppressant therapy could generally be preferable when considering de-escalation.

Thiopurines VII

2023

MCP-UC

RCT/MCP vs placebo/ UC /Maintenance

Conclusion:

Mercaptopurine was superior to placebo in achieving clinical, endoscopic and histological outcomes at 1 year in UC patients.