

EMA workshop on the development of new medicinal products for the treatment of ulcerative colitis and Crohn's disease

Overview of authorised medicines for IBD in Europe - previous regulatory positions



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(No conflicts of interest)**

The views expressed in this presentation are primarily those of the author and do not necessarily express those of the BfArM, nor of the EMA

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(By definition)



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Regulatory situation in Europe:

- Products licensed via centralised procedure
 - Marketing authorisation by EU commission, valid for all EU-member countries plus EEC countries NO, IS and LIE
- Products licensed via decentralised/mutual recognition procedure
 - Marketing authorisation led by one country, all other MSs (only) comment on the assessment
 - Results in national marketing authorisations, which are similar in the MSs involved
 - Choice of MSs involved by applicant
- Products licensed on national level only
 - „Historical products“

Mesalazine (and associated products):

- Licensed via DCP/MRP
- Products:
 - Brands: Pentasa, Claversal, Asacol, Salofalk, Mezavant
(e.g. in Germany: 156 registered products)
 - Oral formulations:
 - Tablets, granules,
 - Rectal formulations
 - Suppositories, rectal foam, rectal suspension/enemas
 - Indication(s)
 - Rectal formulations:
 - Treatment of acute left-sided UC
(restricted to the rectum for supps.; partly restricted to „mild to moderate“)
 - Oral formulations:
 - „Mild to moderate UC“,
 - Partly „acute treatment and maintenance of remission“ or „induction and maintenance“
 - or Dosing instructions differentiate between induction and maintenance
 - Older licenses with indication: Acute treatment of CD
 - Children: Licensed for 6-18 year olds

„Mesalazine-associated products“:

- Licensed via DCP/MRP and/or national only:
- Products: (oral forms only)
 - Olsalazine
 - Acute treatment of UC and maintenance of remission
 - Balsalazide
 - Treatment of mild to moderate UC and maintenance of remission
 - Sulfasalazine:
 - Acute treatment of UC and maintenance of remission;
acute treatment of mild to moderate CD when the colon is involved

Corticosteroids:

- Substances:
 - Prednisone
 - Prednisolone
 - Methylprednisolone
 - Budesonide
 - Beclomethasone

Usually „historical“ national licenses only
- Pharmaceutical forms:
 - Oral: Tablets (IR and MR), granulate
 - Rectal: Enemas, Foams
 - Intravenous
- Indications:
 - UC and CD („global“), or acute treatment of UC and CD (for the „historicals“)
 - Rectal forms: acute UC (partly left-sided, proctosigmoiditis, etc.)
 - Budesonide: Entocort and Budenofalk: CD („mild to moderate“, „involvement of ileum and ascending colon“)
Cortiment MMX: „Induction of remission in mild to moderate UC when treatment with mesalazine is not sufficient“
- Children:

Dosing instructions for children usually included for predni
No paediatric use for budesonide

Immunosuppressants/Immunomodulators:

Thiopurines: Azathioprine

- Indication: Moderate to severe UC and CD
- Mercaptopurine: Not licensed (DE and UK)

Methotrexate:

- Licensing status variable across countries
- One i.v. form approved for „mild to moderately severe CD in combination with corticosteroids when thiopurines are not effective or in case of intolerance“

„Other immunosuppressants“ – Usually not licensed for any IBD indication

- Cyclosporine
- Tacrolimus
- Mydophenolate mofetil
- Cyclophosphamide
- 6-Thioguanine (recently licensed in NL; MRP awaited; maintenance of remission in CD and UC in pat. intolerant or not responding to AZA and 6-MP)

- Others:**
- Generally not licensed
 - Antibiotics
 - Probiotics (one license for „maintenance of remission of UC“ for Mutaflor in DE)

Biologicals:

- Licensed via centralised procedure
(„compulsory scope“ of using centralised procedure for substances using biotechnological processes)
- Products:
 - TNF- α antibodies:
 - Infliximab (Remicade; +biosimilars)
 - Adalimumab (Humira)
 - Golimumab (Simponi)
 - Integrin antibodies
 - Vedolizumab (Entyvio)
- Indications:
 - Second (third) line in moderate to severe disease
 - „Treatment of...” (no specification on induction or maintenance)
- Children:
 - Infliximab for UC and CD,
 - Adalimumab for CD, all others: adults only

Not licensed in EU: Certolizumab-pegol, Natalizumab

Guideline on the development of new medicinal products for the treatment of Ulcerative Colitis (2008):

- Patient characteristics/In- and exclusion criteria
 - Patients classified based on Montreal classification:
 - Proctitis/Left sided/extensive UC
 - Mild/moderate/severe
 - Special situations: Refractory disease; steroid dependency
 - Histological diagnosis required
 - Crohn, indeterminate, ischaemic, microscopic, infectious colitis should be excluded
 - Define level of treatment (first/second/third line), define failed therapy
- Aims of therapy – Potential indications (“claims”):
 - Treatment of active disease: Remission: Rem. to be achieved within 4-8 wk, and maintained for further 4 wk.
 - Maintenance treatment: Keep remission in remission Include those in remission only, keep in remission for 52 wks.
 - Both need confirmation in separate studies
- Study design
 - Randomised placebo- and active controlled studies
 - At least two studies
 - Induction and maintenance of remission in different trials

- UC guideline (continued):
 - Endpoints: Should reflect disease activity
 - Clinical activity indices mentioned (incl. missing validation) but none recommended
 - Preferable to use those including signs and symptoms
 - Endoscopic evaluation may be part of the index but is not mandatory
 - Remission definition depends on index used
 - should include normalisation of stool frequency, lack of urgency and no blood in stool
 - Secondary endpoints:
 - Individual components of index, endoscopy, histology, biomarkers
 - Choice of comparator
 - Depends on setting claimed (first, second, third line; induction or maintenance; extent of disease)
 - Placebo not acceptable for first line moderate and severe disease; in all other circumstances recommended
 - Special situations/populations
 - Steroid refractory/dependent population:
 - Acute severe first line indication

- **Guideline on the development of new medicinal products for the treatment of Crohn's Disease (2009):**
 - Patient characteristics/in- and exclusion criteria
 - Characterisation regarding phenotype, duration, activity, localisation etc. necessary
 - Disease activity at least 220 on CDAI
 - Diagnosis must be documented by recent visualisation (e.g. radiology, (capsule)) endoscopy, and histology
 - Failed prior therapies should be taken into account
 - Definition of Disease stages/potential claims
 - Reflection of Montreal/Vienna classification
 - Potential Claims/Duration of trials:
 - Treatment of active disease/Induction of remission (4-8 weeks)
 - Maintenance of remission/prevention of relapse (52 weeks)
 - Treatment of fistulising disease (no duration given)
 - Claims for steroid sparing, endoscopic remission, treatment of obstruction are not part of indication but may be included in prescribing information in other sections
 - Study design
 - Randomised double-blind parallel group studies
 - Induction and maintenance trials may be studied in separate or combined trials,
 - but re-randomisation is mandatory

- CD guideline (continued):
 - Endpoints
 - Primary: An ideal endpoint does not exist, CDAI recommended. Remission is CDAI<150
 - Secondary: Response (reduction of at least 100 pts. CDAI), biomarkers, endoscopy, QoL, steroid sparing, reduction in surgical procedures
 - Choice of comparator
 - For first line indication active control should be included; placebo recommended unless aimed at superiority
 - In the “add-on” setting, placebo is recommended
 - For steroid and immunosuppressive refractory CD, comparison with anti-TNF is recommended.
 - Special populations
 - Steroid dependent population
 - Withdrawal of steroids accepted as objective
 - Fistulising Disease:
 - Applicable to chronic, non-suppurative fistulas
 - Objectives/Endpoints:
 - » Fistula closure (primary endpoint), secondary endpoints
 - » Active comparator (antibiotics) recommended

Concept paper on revision of the two guidelines (2014)

- Problems identified:
 - Definition of endpoints – morphological endpoints may reflect long-term outcome better
 - “Mucosal healing” – how to define it
 - Combination with other components (clinical, biomarkers)
 - Paediatrics: Current guideline only includes general comments. Clarification needed for:
 - Extrapolation from adults to children
 - Design of studies in children (placebo?)
 - General study design:
 - Do we still need the strict separation between induction and maintenance?

Thank you for your attention!

