

# DOSES OF IBD THERAPIES IN PEDIATRICS

	Induction	Maintenance
Oral mesalazine	60-80 mg/kg/d up to 4.8g/d	
Topical mesalazine	25 mg/kg up to 1gr	
Sulfasalazine	40-70 mg/kg/d up to 4 g/d	
Azathioprine	Thiopurines are not used for induction of remission	2-2.5 mg/kg/d*
Mercaptopurine		Children < 6 y/o may need 3mg/kg/d
Methotrexate	15 mg/m <sup>2</sup> up to 25IM/week Rarely used for induction alone	1-1.5 mg/kg/d*
		10 mg/m <sup>2</sup> up to 15 mg IM/w
Infliximab	IV 5 mg/kg (0,2,6w) Higher doses needed if < 30kg Very frequently needed higher doses in children so TDM recommended	5 mg/kg q8w
Adalimumab**	SC 160/80/40 mg (0,2,4 w) if >40kg 80/40/20 mg (0,2,4 w) if < 40kg	40 mg q2w if >40kg 20 mg q2w if <40kg
Golimumab	SC 200/ 100 mg (0,2 w) if ≥45kg If < 45 kg should be dosed based on BSA: 115 and 60 mg/m <sup>2</sup> at weeks 0 & 2	If weight: < 45kg: 60 mg/m <sup>2</sup> q4w >45kg: 100 mg q4w
Vedolizumab	IV 5 mg/kg up to 300 mg (0,2,6w) If < 30 kg, higher dose may be required	Same dose q8w
Ustekinumab	IV 1st dose: 6mg/kg with up to 520mg	SC 90 mg q8w/q12w for standard adult BSA 1.73m <sup>2</sup> Calculate BSA and adjust



Some IBD drugs do not have registered pediatric trials and data comes from observational studies  
Tofacitinib was approved in 2020 for pediatric treatment in Rheumatoid arthritis, psoriatic and juvenile arthritis. Studies with tofacitinib in pediatric UC have used higher doses than in RA but this is not standardized yet.  
Similar situation occurs with upadacitinib or with infliximab subcutaneous

ESPHGAN guideline 2020 & 2018  
Croft NM et al. *J Crohns Colitis*. 2023; 17(2): 249-258.

BSA: body surface area

\*Dose adjustment required for patients on allopurinol or with low or intermediate TPMT activity

\*\*BSA-based dosing could be considered taking as a base an adult BSA of 1.73m<sup>2</sup> (ie, induction with 92 mg/m<sup>2</sup> followed by 46 mg/m<sup>2</sup> followed by 23 mg/m<sup>2</sup> q2w for maintenance).

NOTE: only standard doses were provided. Some biological drugs can be intensified

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