EGF IN CLINICAL PRACTICE

Author/Ref.	Indication	Route/dose andidurat	Number of patients	Study	Outcome	Safety
Brown (23)	Acceleration of epidermal regeneration of donor sites	Topic; EGF 10 mcg/ml until re-epithelialisation	12 patients; controlled within patient, side/side (EGF/SS)	DBRCT	Acceleration of the rate of healing	Not described
Alert (24)	Prevention of skin burns by radiotherapy	Topic; EGF 10 mcg/g of SSC/twice a day, for the whole radiotherapy programme	23 patients for EGF cream	POL	Potent radioprotection	Not described
Brown (25)	Healing stimulation of different types of chronic wounds	Topic; EGF 10 mcg/g of SSC until healing	9 patients crossed over to EGF	POL-crossover	Wounds closure in eight patients	†
Falanga (26)	Healing of venous ulcers	Topic; EGF 10 mcg/ml/10 weeks or until healing	17 EGF/18 PL	DBRCT	Greater reduction in ulcer size and larger number of ulcers healed	Follow-up not mentioned Well tolerated
Borges (27)	Burn wounds healing enhancement	Topic; EGF 10 mcg/g of cream/48 hours until healing	10 pediatric patients for EGF group	Phase II. DBRCT	Wound healing and re-epithelialisation enhancement	Well tolerated
Cohen (28)	Healing of controlled wounds	Topic; EGF 10 mcg/g of SSC/twice daily, no longer than day 21.	17 healthy volunteers/wounds for EGF	DBRCT	No difference in wound healing	Well tolerated
Gonzalez (29)	Healing stimulation of venous ulcers	Topic; EGF 10 mcg/g of cream; thrice a week / 6 weeks	40 patients for EGF creams	DBRCT	Wound healing enhancement by EGF	Well tolerated
Rodriguez (30)	Acne progress control and scars amelioration	Topic; EGF 10 mcg/g of cream/24 hours for 6 weeks	30 patients for EGF	DBRCT	Acne control and scars attenuation	Well tolerated
Tsang (18)	Healing of diabetic foot ulcers	Topic; EGF @2–0.04% for 12 weeks	21 per EGF concentration group	DBRCT	Enhancement of healing and healing time reduction	Follow-up–6 months. We tolerated

Fable 1 (Continued)						
Author/Ref.	Indication	Route/dose andi du rat	Number of patients	Study	Outcome	Safety
Hong (19)	Healing of diabetic foot ulcers	Topic; EGF 005% + dressing until healing	68 patients crossed over to EGF	POL-Crossover	Enhanced healing of neuropathic foot ulcer	Follow-up–6 months. Well tolerated
Viswanathan (31)	Efficacy and safety of EGF gel in patients with Grade I or II DFU	Topic; EGF 150 mcg/g up to 16 weeks*	30 EGF / 30 PL	Phase III-DBRCT	Enhancement of healing healing time reduction	aWdell tolerated. Follow-up f 2 years
Berlanga (32)	Efficacy of EGF local infiltrations in terminal DFU	Local EGF (intralesionally) injected at 25–125 mcg/ulcer, thrice a week up to 8 weeks	29 patients for EGF	POL	Stimulation of ulcer granulation	Well tolerated. 1-year follow-up
Fdez-Montequin (33)	Efficacy of EGF local infiltrations in terminal DFU	IDEM. injected at 25 or 75 mcg/ulcer, thrice a week up to 8 weeks	41 patients for either EGF dose	Phase II. DBR-dose controlled	Stimulation of ulcer granulation	Well tolerated. 1-year follow up
Mohan (34)	Healing rate, reduction of healing time	Topic; EGF 150 mcg/g for 15 weeks or total healing	135 only for EGF	Phase IV (PMS)	Enhancement and speedi M ell tolerated for the healing process of DFU	
Tabrizi (35)	Reduction of healing time for PV lesions	Topic; EGF 10 mcg/in SSC until healing	20 patients. Controlled within patient, left/right	DBRCT	Significant reduction in healing time	Well tolerated
Betancourt (36)	Efficacy of EGF local infiltrations for ulcer healing	Injected into the ulcer 75 mcg, thrice a week up to re-epithelialisation	20 patients	POL	Stimulation of ulcer granulation and re-epithelialisation	Well tolerated

Treatment was prolonged even if wounds healed earlier to check for adverse effects.

⁺Although safety data are not explicitly described, it can be inferentiativere followed for years whereauthors described ulcers recuerter a period between 1 and 4 years. EGF, epidermal growth factor; DBRCT, double Halindomised-controlled trial; POL, prosportivelabel; PL, placebo; Mcg, microgram; PVpbignas vulgaris; PMS, post-markgetinerveillance study; DFU, diabe foot ulcers; SS, silver sulphadiazine cream.

Author/Ref.	Indication	Dose, durationtero	No. of patients	Study	Outcome	Safety
Elder (37)	Research study in HV and ZES	EGF 025 μg/kg/h for 1 hour IV	4 ZES patients and 4 normal subjects	POL	Reduction in gastric hypersecretion. Ulcer pain relieved	Well tolerated
Koffman (38)	Research study	Daily infusions of 1 hour. EGF 025 µg/kg/h for 5 days IV	5 duodenal ulcer patients	POL	EGF modifies gastric acid secretion	Not described
Walker-Smith (39)	Microvillous atrophy	EGF 100 ng/kg/h for two 6-day periods IV	1 pediatric patient with microvillous atrophy	CR	EGF-induced crypt cells proliferation	Well tolerated
Drumm (40)	Microvillous atrophy	EGF 100 ng/kg/h for 21 days. IV and enteral	2 pediatric patients	CR	EGF-stimulated intestinal cells mitosis	Well tolerated
Sullivan (41)	NEC	EGF 100 ng/kg/h for 6 days	1 pediatric patient	CR	EGF-stimulated intestinal cells mitosis	Well tolerated
ltoh (42)	Gastric ulcer healing	IV 6 mcg/patient, twice a week for 8 weeks	86 patients for EGF	DBRCT	Enhanced ulcer healing	Well tolerated
Haedo (43)	Duodenal ulcer healing	Oral. EGF at 450 or 600 mg/day for 6 weeks	47 patients for EGF	DBRCT	EGF treatment shortened healing time	Well tolerated
Palomino (44)	Stimulation of duodenal ulcer healing	Oral. 450 or 2250 mcg/day/6 weeks or until complete healing	68 patients for EGF	DBRCT	EGF-stimulated ulcer healing in a dose-response manner	Well tolerated
Sinha (45)	UC healing by EGF	Daily rectal enemas. EGF 5 mcg/in 100 ml of carrier for 14 days	14 patients	DBRCT	EGF enemas are an effective treatment for active UC	Well tolerated
Sigalet (46)	Intestinal physiology improvement	Oral. 100 mcg/kg/day for 6 weeks	5 pediatric patients	POL	EGF improved different parameters	Well tolerated
Sullivan (47)	Trophic effect on the GITM	IV EGF continuous infusion at 100 ng/kg/h for 6 days	8 neonates	PRDB	Enhancement of mucosal remodeling and trophism	Well tolerated

EGF, epidermal growth factor; DBRCT, double rainedomised-controlled trial; POL, prospective label; CR, case report; PRDB, prospective domised, double blind; Mcg, microgram; ZES, Zollinger–Ellison syndrome; HV, healthy volunteers; UC, ulcerative colitis; mg, milliginaray encoded for the syndrome at tract mucosa; NEC, necrotising procolitis.