

A list of clinical trials with curcumin in patients with different diseases

Disease	Dose/Frequency	Patients	Response	Reference
Safety trials				
Phase 1	2000 mg/day ¹	10	Pipeline enhanced bioavailability by 2000%	Shoba et al,1998
Phase-I	500-12,000 mg/day x 90 days	25	Histologic improvement of precancerous lesions ⁴	Cheng et al, 2001
Phase 1	500-12,000 mg/day	24	Safe, well-tolerated even at 12 g/day	Lao et al, 2006
Efficacy trials				
Rheumatoid arthritis	1200 mg/day x14 days	18	Improved symptoms	Deodhar et al, 1980
Postoperative inflammation	400 mg; 3 x/day x5 days	46	Decrease in inflammation	Satoskar et al, 1986
External cancerous lesions	1% ointment x several months	62	Reduction in smell In 90% pts, Reduction of itching in all cases, Dry lesions in 70% pts.	Kuttan et al, 1987
Cardiovascular	500 mg/day x 7 days	10	Reduction in lesion size & pain in 10% pts. Decreased serum lipid peroxidase (33%), Increased HDL cholesterol (29%), Decreased total serum cholesterol (12%)	Soni and Kuttan, 1992
HIV	625 mg; 4x/day x 56 days	40	Well tolerated	James et al,1996
Gall bladder function	20 mg, single dose (2 h)	12	Decreased gall bladder volume	Rasyid et al,1999
Chronic anterior uveitis	375 mg; 3x /day x 84 days	32	86% decrease in chronic anterior uveitis	Lal et al,1999
Psoriasis	1% curcumin gel	40	Decreased PhK ² , TRR ³ , parakeratosis, and density of epidermal CD8+ T cells	Heng et al, 2000
Atherosclerosis	10 mg; 2x/day x 28 days	12	Lowered LDL and apoB, Increased HDL and ApoA	Ramirez-Bosca et al,2000
Idiopathic Inflammatory Orbital Pseudotumors	375 mg; 3x /day x 180-660 days	8	4 pts recovered completely 1 pt showed decrease in swelling No recurrence	Lal et al,2000
Colorectal cancer	36-180 mg/day x 120 days	15	Lowered GST	Sharma et al, 2001
Human gall bladder function	20-80 mg, single dose (2 hours)	12	Reduced gall bladder volume by 50%	Rasyid et al, 2002
Irritable bowel syndrome	72-144 mg/day x 56 days	207	Reduced symptoms	Bundy et al, 2004
Colorectal cancer	450-3600 mg/day x 120 days	15	Lowered inducible serum PGE2 levels	Sharma et al, 2004
Liver metastasis from CRC	450-3600 mg/day x 7 day	12	Low bioavailability	Garcea et al, 2004
Cadaveric renal transplantation	480 mg; x1-2/day x 30 days	43	Induced HO-1 activity Improved early graft function	Shoskes et al, 2005
Tropical pancreatitis	500 mg/day x 42 days	20	Improved symptoms	Durgaprasad et al, 2005
Inflammatory bowel disease	550 mg; x 2-3/day x 60 days	10	Improved symptoms	Holt et al, 2005
Colorectal cancer	450-3600 mg/day x 7 days	12	Decreased M1G DNA adducts	Garcea et al, 2005
Ulcerative colitis	2000 mg/day x 180 days	89	Maintains remission (how many)	Hanai et al, 2006
Improves cognitive function	-	1010	Better MMSE score⁵	Ng et al, 2006
Familial adenomatous polyposis	480 mg; x3/day x 180 days	5	Reduces polyp numbers and volume in FAP patients	Cruz-Correa et al, 2006

Notes: 1. + Piperine 20 mg/kg; 2, PhK: Phosphorylase kinase; 3. TRR: keratinocyte transferrin receptor ; 4. Histologic improvement of precancerous lesions was seen in 1 out of 2 patients with recently resected bladder cancer, 2 out of 7 patients of oral leucoplakia, 1 out of 6 patients of intestinal metaplasia of the stomach, 1 out of 4 patients with CIN and 2 out of 6 patients with Bowen's disease; 5. MMSE: Mini-Mental State Examination Score.

pdfMachine

A pdf writer that produces quality PDF files with ease!

Produce quality PDF files in seconds and preserve the integrity of your original documents. Compatible across nearly all Windows platforms, simply open the document you want to convert, click "print", select the "Broadgun pdfMachine printer" and that's it! Get yours now!

A list of ongoing clinical trials with curcumin in patients with different diseases

Disease	Study Type/Design	Patients #	Start Date	Trial Site
Colon cancer	Phase-I, Randomized	24	Completed	Univ. of Michigan, Ann Arbor, USA
Colorectal cancer, ACF ¹	Phase-I, Randomized ²	-	Suspended	Rockefeller University Hospital, New York, USA
Colon cancer	Phase-III, Randomized	100	March, 2006	Tel-Aviv Sourasky Medical Center, Tel-Aviv, Israel
Colorectal cancer, ACF ¹	Phase-II, Non-randomized	48	September, 2006	Univ. of Illinois, Chicago, USA
FAP	Phase-II, Randomized ⁴	68	July, 2005	Univ. of Pennsylvania, Philadelphia, USA
FAP	Phase-II, Non-randomized	-	November, 2005	Johns Hopkins University, Baltimore, USA
Aberrant crypt foci	Prevention, Randomized ⁵	60	April, 2004	Cancer Institute of New Jersey, New Brunswick, USA
Pancreatic cancer	Phase-II, Non-randomized ⁶	45	July, 2004	Rambam Medical Center, Haifa, Israel
Pancreatic cancer	Phase-II, Non-randomized	50	November, 2004	M.D. Anderson Cancer Center, Houston, USA
Pharmacokinetics	Treatment, Non-randomized	6	August, 2005	Massachusetts General Hospital, Boston, USA
Myeodysplastic syndrome	Phase II	30		Univ. Massachusetts, Worcester, USA (Raza A)
Alzheimer's disease	Phase-II, Randomized	33	July, 2003	Univ. of California Los Angeles, Los Angeles, USA
Alzheimer's disease	Phase-I & II, Randomized ⁷	30	Completed	Chinese University of Hong Kong, Shatin, Hong Kong
Multiple myeloma	Randomized ⁸	30	November, 2004	M.D. Anderson Cancer Center, Houston, USA
Myelodysplastic syndrome	Phase-I & II, Non-randomized ⁹	50	December, 2006	Hadassah Medical Organization, Jerusalem, Israel
Psoriasis	Phase-II, Non-randomized ¹⁰	-	October, 2005	Univ. of Pennsylvania, Philadelphia, USA
Epilepsy	Phase 1	?	?	AIIMS, Delhi, India (Gupta YK)
Advanced HNSCC	Phase II (1-8 g/day; 56 d)	40	?	Himalyan Institute of Medical Sciences, India (Saini S)
HNSCC	Phase II/III DBRPC (3.6 g/day,bid)	300	?	AIIMS, Delhi, India (Bahadur S/Ranju R/Rath GK/Julka PK)
Cervical cancer (Stage IIb,IIIb)	Phase II/III DBRPC (2 g/day,bid, 1 year)	100	?	AIIMS, Delhi, India (Singh N/Jain SK/Rath GK/Julka PK)
Oral premalignant lesions	Phase II/III DBRPC (4 g/day,bidx 28 d)	90	?	Tata Memorial Cancer Ctr, India (D'Cruz A)
Oral premalignant lesions	Phase II/III DBRPC (3.6 g/day,bid)	96	Nov, 2006	Amrita Institute, Kochi, India (Kuriakose MA)
Oral leukoplakia	Phase II (curcumin gel, 3x/day, 6 mo)	100	?	Regional cancer center, Trivan, India (Ramadas K, Pillai MR)
Gall bladder cancer	Phase II (2-8 g/day)	60	?	BHU, India (Shukla VK)

Notes: 1. ACF; Aberrant crypt foci

Trials were performed with curcumin in combination with 2. Quercetin², sulindac; 2. Celecoxib; 3. ACF; 4. Curcuminoids; 5. NSAIDs; 6. Gemcitabine; 6. Ginkgo extract; 7. Bioperine; 8. Coenzyme Q10; 10. Curcuminoids C3 complex; DBRPC, Double blind, randomized placebo-controlled

pdfMachine

A pdf writer that produces quality PDF files with ease!

Produce quality PDF files in seconds and preserve the integrity of your original documents. Compatible across nearly all Windows platforms, simply open the document you want to convert, click "print", select the "Broadgun pdfMachine printer" and that's it! Get yours now!

pdfMachine

A pdf writer that produces quality PDF files with ease!

Produce quality PDF files in seconds and preserve the integrity of your original documents. Compatible across nearly all Windows platforms, simply open the document you want to convert, click "print", select the "Broadgun pdfMachine printer" and that's it! Get yours now!