| Cerebral Insufficiency (Alzheimer's Disease, Multi-infarct Dementia, Cerebro-Organic Syndrome) | | | | | | | | | |
|--|--|---|--|--|--|---|--|--|--|
| Author/Year | Subject | Design | Duration | Dosage | Preparation | Results/Conclusion | | | |
| Van Dongen et al., 2000 | Dementia and age-associated memory impairment (AAMI) | R, DB, PC, MC, PG n=196 older patients with mild to moderate dementia or AAMI; inten- tion to treat analysis | Total 24 weeks. Patients randomized to usual dose, high dose, or placebo for 3 months, then randomized again for next 3 months | 80 mg, 2x/day or 120 mg, 2x/day or placebo | EGb-761 | In 24 weeks, ginkgo group showed no improvement compared to placebo in outcome measures (neuropsychological testing, digit memory span, verbal learning, depressive mood, self-evaluated health and memory, and behavioral evaluation). No benefit was seen for higher dose or extended duration of ginkgo. Ginkgo did not benefit any subgroups. Authors concluded that ginkgo is not effective to treat mild to moderate dementia or AAMI. | | | |
| Rigney et al., 1999 | Memory and psychomotor performance | R, DB, PC, CO (5-way) n=31 asymptomatic individuals (30-59 years old) | Each treat- ment was taken for 2 days and separated by a washout peri- od of 5 days or more | 50 mg, 3x/day; or 100 mg 3x/day; or 120 mg, 1x/day in a.m.; or 240 mg/day in a.m.; or placebo | Kaveri® LI 1370 (50 mg film- coated tablets) | Ginkgo produced a non-significant cognitive improvement in overall word recall (short-term workingmemory task) (p=0.318) and significantly increased integrative capacity of the central nervous system (based on the critical flicker fusion threshold test) (p=0.043). There was no improvement in choice reaction time. Authors concluded that improvements in asymptomatic controls are most pronounced for working memory, and in individuals over 50 years of age. | | | |
| Brautigam et al., 1998 | Cerebral insufficiency | R, DB, PC n=197 elderly patients with cognitive impairment | 6 months | I.9 ml, 3x/day undiluted; or I.9 ml, 3x/day (I:1 dilution) or placebo | Geriaforce® (liquid extract) | Low-dose ginkgo treatment significantly improved short-term visual memory more than high dose or placebo treatment (based on contrast statistical analysis of the Benton Test of Visual Retention-Revised task) (p=0.0076). There was no improvement in the following parameters: attention or concentration (based on Expended Mental Control Test); short-term memory or learning curve (based on Rey Test part 2). Overall, ginkgo had limited efficacy in this battery of subjective and objective tests. [Note: The ginkgo extract used in this trial is not phyto-equivalent with the 2 preparations upon which most of the studies on ginkgo have been conducted.] | | | |
| Kanowski et al., 1997 | Dementia | R, DB, PC, MC, P n=156 elderly patients with Alzheimer's disease or multi-infarct dementia | 6 months | 120 mg 2x/day or placebo | EGb-761 (120 mg capsule) | Per protocol and intent-to-treat analyses significantly favored EGb-761 over placebo (p=0.012). Clinical Global Impressions scores, a measure of psychopathological assessment, increased 15% (p<0.05). Syndrom-Kurztest, for the assessment of attention and memory, improved 20% (p<0.05). Overall, EGb-761 was well-tolerated and effective in treatment of Alzheimer's disease and multi-infarct dementia. | | | |
| Le Bars et al., 1997 | Dementia | R, DB, PC, MC, P n=202 elderly patients with mild to severe Alzheimer's disease or mulit-infarct dementia | 13 months | 40 mg, 3x/day or placebo | Ginkgold® (EGb-761 40 mg tablet) | Patients receiving ginkgo had no significant change in ADAS-Cog score (evaluates memory, language skill, and orientation), but by comparison there was significant worsening in placebo group (p=0.04). Patients taking ginkgo had mild improvement on GERRI test, (assesses daily living and social behavior) while placebo group had significant worsening (p=0.04). Both groups had slight worsening in CGIC, (assesses overall psychopathology). It was concluded that ginkgo is safe and capable of stabilizing or improving cognitive performance and social functioning of demented patients for 6 months to I year. | | | |
| Hofferberth, 1994 | Dementia | R, DB, PC n=40 elderly patients with Alzheimer's disease | 3 months | 80 mg per day (2x 40 mg) or placebo | EGb-761 film-coated tablets (Tebonin® forte) | Of individuals treated with ginkgo, 90.5% had significant improvement in memory and attention as assessed by Syndrom-Kurztest total value at end of study (p=0.00017). Improvements were seen in all 5 subsets of the SCAG (cognitive disturbances, emotional disturbances, lack of drive, social behavior, and somatic disturbances) (p<0.01). Authors concluded treatment improved memory, attention, psychopathology, psychomotor performance, functional dynamics, and neurophysiology after one month. Ginkgo was well-tolerated. | | | |

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| Author/Year | Subject | Design | Duration | Dosage | Preparation | Results/Conclusion |
|-----------------------------|--|---|----------|---|--|---|
| Vesper and Hansgen, 1994 | Cerebral insufficiency | R, DB, PC, MC n=86 elderly patients with cerebral insufficiency | 3 months | 50 mg, 3x/day or placebo | Kaveri® LI 1370 (50 mg film- coated tablets) | Target parameters and results were established with help of computer diagnostics and demonstrated improved reaction time, concentration (p<0.05), and mental flexibility (p<0.05), and improved memory (p<0.05), improved concentration power (p<0.05) after several weeks of ginkgo treatment. |
| Grässel, 1992 | Cerebral insufficiency | R, DB, PC, MC n=53 elderly patients with cerebral insufficiency | 24 weeks | 80 mg, 2x/day or placebo | Rökan® EGb-761 (80 mg film- coated tablets) | Computer aided measurements revealed improved short-term memory and learning rate after treatment for 6 weeks or 24 weeks, respectively. |
| Brüchert et al., 1991 | Cerebral insufficiency | R, DB, PC n=209 patients with typical symptoms of cerebral insuf- ficiency | 3 months | 50 mg, 3x/day or placebo | Kaveri® LI 1370 (50 mg film- coated tablets) | After 12 weeks, statistically significant improvements were demonstrated on 8 out of 11 typical symptoms. In ginkgo group, period for figure connection test was improved by 25% vs. only 14% in placebo group (p<0.01) Both physicians and patients judged highly significant differences between ginkgo and placebo. |
| Halama, 1991 | Dementia of degenerative or vascular origin | R, DB, PC n=42 patients with presenile, senile, and arteriosclerot- ic dementia | 3 months | 50 mg, 3x/day or placebo | Kaveri® LI 1370 (50 mg film- coated tablets) | After 12 weeks, significant differences between ginkgo and placebo group for 7 out of 11 typical symptoms. Ginkgo group was significantly faster in carrying out figure configuration test after 6 and 12 weeks. Authors concluded that ginkgo treatment resulted in improvement in cerebral functional capacity in patients with degenerative and vascular dementia. |
| Rai et <i>al.</i> , 1991 | Memory impairment | R, DB, PC, P n=27 elderly patients with mild to moderate memory impairment | 6 months | 40 mg, 3x/day or placebo | Tanakan® EGb-761 (40 mg tablets) | Ginkgo improved performance on digit-copying subtest of Kendrick battery at both 12 (p=0.022) and 24 (p=0.017) weeks, and improved speed of response on computerized classification task (p=0.02591), and mean reaction time (p=0.0502). Although the digit recall task at 24 weeks showed much lower scores (p=0.032), further analysis indicated that ginkgo has beneficial effects on mental efficiency. |
| Schmidt et al., 1991 | Cerebral insufficiency | R, DB, PC n=99 patients with cerebral insufficiency | 3 months | 150 mg/day or placebo | Kaveri® LI 1370 (50 mg film- coated tablets) | After only 4 weeks, 8 of 12 typical symptoms of cerebral insufficiency improved significantly (p<0.05 to p<0.01) compared to placebo. Ginkgo was very well-tolerated. |
| Eckmann, 1990 | Cerebral insufficiency | R, DB, PC n=58 patients with cerebral insufficiency with leading symptom of depressive mood. | 6 weeks | I 60 mg/day or placebo | LI 1370 liquid form | Marked differences in improvement of 11 of 12 symptoms in ginkgo group compared to placebo group. Largest number of improvements observed between 2nd and 4th week of treatment. |
| Hofferberth, 1989 | Cerebro- organic syndrome | R, DB, PC n=36 elderly patients with cerebro- organic syndrome | 2 months | 40 mg, 3x/day or placebo | Rökan® EGb-761 (40 mg film- coated tablets) | Psychometric tests showed improved visual response speed with reduced saccade (eye movement) duration and latency (Saccade test) (p<0.0001), and improved reaction time (Vienna determination test and trail making test) (p<0.0001). Researchers concluded ginkgo is well-tolerated and of clinical efficacy. |
| Vorberg et al., 1989 | Cerebral insufficiency | R, DB, PC n=96 patients with typical symptoms of cerebral insufficiency | 3 months | 15 ml, 3x/day (112 mg/day) or placebo | LI 1370 liquid form (Kaveri®) | Severity of symptoms improved in ginkgo group by 50% compared to only 25% with placebo. Statistically significant differences between ginkgo and placebo could be demonstrated for these symptoms: loss of memory, lack of concentration, anxiety, dizziness, and headache (p<0.05 to p<0.001). |

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| Cerebral I | nsufficienc | y (Alzheim | er's Diseas | e, M ulti-infa | rct Dement | tia, Cerebro-Organic Syndrome) (cont.) |
|--------------------------|---------------------------------------|---|---|--|---|--|
| Author/Year | Subject | Design | Duration | Dosage | Preparation | Results/Conclusion |
| Halama et al., 1988 | Cerebro- vascular insufficiency | R, DB, PC n=40 elderly patients with mild to medium cere- brovascular insufficiency | 3 months | 40 mg, 3x/day or placebo | Tebonin® forte EGb-761 (40 mg film- coated tablets) | After 12 weeks of ginkgo treatment, there was significant improvement in SCAG scale (p=0.0005), dizziness, (p<0.001), tinnitus (p=0.035), and lessened indifference to surroundings. |
| Wesnes et al., 1987 | Idiopathic cognitive impairment | R, DB, PC n=54 elderly patients with idiopathic cognitive impairment | 3 months | 40 mg, 3x/day or placebo | Tanakan® EGb-761 (40 mg film- coated tablets) | Treatment improved cognitive function and mental efficiency based on a battery of computerized and pencil-and-paper tasks (number matching, p=0.0183; word recognition, p=0.026), and increased interest in everyday life. Researchers concluded that ginkgo may be potentially helpful in treating early stages of primary degenerative dementia. |
| Taillandier et al., 1986 | Cerebral insufficiency | R, DB, PC, MC n=166 elderly patients with cerebral insufficiency | I2 months | 2 ml, 3x/day (160 mg /day), or placebo | Tanakan® EGb-761 liquid form (40 mg/ml) | Scores on geriatric clinical evaluation scale test (measuring intellectual functions, mood, social insertion, and neurosensory disorders) were improved after 3 months of ginkgo treatment (p<0.05) and reached 17% improvement for placebo (p=0.01). Authors concluded that ginkgo is effective in ameliorating cerebral disorders due to aging. |
| Arrigo, 1986 | Cerebro- vascular insufficiency | R, DB, PC, CO n=80 elderly patients with chronic cere- brovascular insufficiency | 45 days drug; 15 days wash- out; vs. 45 days control; 15 days wash-out | 40 mg, 3x/day or placebo | Tebonin® forte EGb-761 | Ginkgo improved memory (p<0.0001), logical thinking, and vigilance, based on WAIS (p<0.01), a Word Recognition task and a Memory Table (p<0.0001). In addition, ginkgo lessened headache, dizziness, tinnitus, visual impairment, and asthenia, based on selfassessment by patients. |

Peripheral Vascular Disease (Intermittent Claudication)

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| Author/Year | Subject | Design | Duration | Dosage | Preparation | Results/Conclusion |
| Schweizer and Hautmann, 1999 | Peripheral Arterial Occlusive Disease; Fontaine's Stage IIb | R, DB, MC, P n=74 | 6 months | 120 mg/day (n=38); 240 mg/day (n=36) | Rökan® | Pain-free walking distance improved with both 120 mg and 240 mg treatments, with a mean increase of 60.6 meters, and 107 meters, respectively (p=0.0253). The superiority of the higher dose was statistically significant and demonstrated a substantial therapeutic benefit. |
| Peters et al., 1998 | Intermittent claudication | R, DB, PC, MC n=111 | 6 months | 40 mg, 3x/day or placebo | Tebonin® forte EGb-761 40 mg film- coated tablets | Ginkgo group experienced a significant decrease of pain associated with walking and increased walking distance, at 8 (p=0.017), 16 (p=0.007), and 24 (p=0.016) weeks. |
| Bauer, 1984 | Peripheral arterial insufficiency, Fontaine's Stage IIb | R, DB, PC, PG n=79 | 6 months | 40 mg, 3x/day or placebo | Rökan® EGb-761 40 mg film- coated tablets | Ginkgo group experienced decreased pain associated with walking, improved walking distance, and increased limb perfusion. Ginkgo was concluded to be a beneficial clinical treatment. |

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| Respirato | ry Conditi | ons (Asthr | na and Acu | ite Mounta | in [Altitude |] Sickness) |
|--------------------------|---|---|---------------------------|--|---|--|
| Author/Year | Subject | Design | Duration | Dosage | Preparation | Results/Conclusion |
| Gertsch et al., 2002 | Acute mountain sickness (AMS) | R, DB, PC n=26 sea level residents | l day prior to ascent | 60 mg or placebo, 3x/day | Ginkgo biloba extract (brand not stated) | Participants traveled by air from sea level to 4,205 meters over 3 hrs with 1 hr at 2,835 m. Ginkgo group showed significantly lower median Lake Louise Self-report scores (LLSR) than placebo (4, range 1–8 vs. 5, range 2–9, p=0.03). Ginkgo lowered the incidence of AMS but this effect was not deemed statistically significant compared with placebo (58.3% vs. 92.9%, p=0.07). Authors conclude pretreatment with ginkgo one day prior to rapid ascent may reduce severity of AMS. |
| Leadbetter et al., 2001 | Acute mountain sickness (AMS) | DB, PC n=40 | 5 days prior to ascent | 120 mg or placebo, 2x/day | Ginkgo biloba extract (brand not stated) | Ginkgo reduced the incidence and severity of AMS when taken 5 days prior to an ascent of 4,300 meters. The ginkgo group demonstrated a decrease in incidence of AMS of 33% compared with 68% in the placebo group (p<0.02). |
| Li et al., 1997 | Asthma | PC n=61 | 2 months | 45 g crude herb, 10 ml, 3x/day (15 g/10 ml) (equates to 1,400 mg of standard extract) or placebo | Concentrated ginkgo leaf liquid product (produced by Quindao Fengyi Biotechnology Limited). Contains 14.5 mg/ml flavone glycosides and 2.8 mg/ml terpene lactones | Improved airway reactivity test at 4 and 8 weeks (p<0.05). Improved pulmonary function test at 8 weeks (p<0.05) including forced expiratory volume and peak expiratory flow rate. |
| Roncin et al., 1996 | Control of acute mountain (altitude) sick- ness (AMS) and vascular reactivity to cold exposure | | 30 days | 80 mg, 2x/day or placebo | Tanakan® EGb-761 80 mg tablets | Ginkgo was effective in preventing AMS. No individuals receiving prophylactic experienced AMS, compared to 41% taking placebo (p=0.0014). Respiratory symptoms of altitude sickness occurred in 13.6% of the ginkgo group (p=0.000012), compared to 81.8% of the placebo group. Of ginkgo subjects, 18% reported moderate or severe impairment of diuresis at high altitude compared with 77% of placebo subjects. Ginkgo also reduced vasomotor disorders of the extremities, as demonstrated by plethysmography (p<10–8) and questionnaire (p<10–9). Authors concluded ginkgo treatment was effective. |
| Tinnitus a | nd Acute | Cochlear [| Deafness | | | |
| Author/Year | Subject | Design | Duration | Dosage | Preparation | Results/Conclusion |
| Drew and Davies, 2001 | Tinnitus | DB, PC n=956 | 12 weeks | 50 mg, 3x/day or placebo | LI 1370 or placebo | The researchers concluded that 50 mg ginkgo extract LI 1370 given 3 times daily for 12 weeks is no more |

| Author/Year | Subject | Design | Duration | Dosage | Preparation | Results/Conclusion |
|--------------------------|----------|--|-----------|-----------------------------|----------------------------------|---|
| Drew and Davies, 2001 | Tinnitus | DB, PC n=956 | 12 weeks | 50 mg, 3x/day or placebo | LI 1370 or placebo | The researchers concluded that 50 mg ginkgo extract LI 1370 given 3 times daily for 12 weeks is no more effective than placebo. This conclusion was based upon participant's assessment of tinnitus before, during, and after treatment. |
| Meyer, 1986 | Tinnitus | R, DB, PC, MC n=103 patients with recent tinnitus (appearing within the previous 12 months) | 13 months | 2 ml, 2x/day or placebo | Rökan® EGb-761 liquid form | Ginkgo treatment significantly improved symptoms of tinnitus compared to placebo (p=0.05). The time before disappearance or distinct improvement in 50% of tinnitus cases was 70 days in ginkgo group, compared to 119 days for placebo. Authors concluded that treatment with ginkgo improves the evolution of tinnitus. |

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| Tinnitus and Acute Cochlear Deafness (cont.) | | | | | | | | |
|--|---|--|--|--|---|---|--|--|
| Author/Year | Subject | Design | Duration | Dosage | Preparation | Results/Conclusion | | |
| Dubreuil, 1986 | Acute cochlear deafness | R, DB, C n=20 individu- als with acute cochlear deaf- ness (partial or complete) within the preceding week | 30 days | 4 ml liquid ginkgo extract 2x/day or 2 tablets nicergoline 3x/day | Rökan® EGb-761 or nicergoline | Ginkgo was superior over nicergoline, an alpha-blocker commonly prescribed for the same indication. By day 10, ginkgo group had an average gain of 30 decibels/frequency, compared to a 21-decibel gain with nicergoline treatment. By day 30, ginkgo patients had gained on average 34 decibels/frequency, compared to 23 decibels for nicergoline patients. After one month of treatment, ginkgo group registered a total gain exceeding the nicergoline group by 67 decibels, (6-15 decibels, depending on frequency). The small sample size demands cautious conclusions; however, ginkgo demonstrated much greater efficacy than nicergoline. Therapeutic results were obtained as early as day 10; however, several weeks of treatment are suggested to consolidate the result. | | |
| Other | | | | | | | | |
| Author/Year | Subject | Design | Duration | Dosage | Preparation | Results/Conclusion | | |
| Engelsen et al., 2002 | Drug interaction (long-term warfarin use in patients with recurrent venous thromboem-bolism, mechanical heart valves) or chronic atrial fibrillation) | R, DB, PC, CO n=21 | 4 weeks each phase with 2 week washout between each phase | 100 mg ginkgo daily, 100 mg coenzyme Q10 daily or placebo | Bio-Biloba® (Ginkgo); Bio- Quinone® (CoQ10); placebo | The stability was confirmed by linear regression of INR values and geometric mean doses of warfarin did not change during treatment. The study concluded that CoQ10 and ginkgo do not interact with warfarin. | | |
| Hauns et al., 2001 | Advanced colorectal cancer | Phase II n=32 | Every 3 weeks, for 4 treatments (12 weeks) | 350 mg ginkgo as a 30- minute i.v. infusion (days 1–6) followed by 500 mg/m2/d 5-FU as a 30- minute i.v. infusion (days 2–6) | EGb-761 and 5-Fluorouracil (5-FU) | The results suggested a good benefit-risk ratio of combining 5-FU and EGb 761 therapy as the second line treatment. Patients showed an overall response rate of 6.3%, with the disease progressing in 22 patients. Of these, the disease progressed in 17 patients after one course of treatment, 2 patients after 3 treatments, and 3 patients after 4 treatments. The study saw no change in 8 patients and a partial response in 2 patients. | | |
| Cohen and Bartlik, 1998 | Sexual dysfunction secondary to SSRI use | O n=63 | I month | Average dose: 207 mg/day 40-60-120 mg, 2x/day (dosage range: 40-60 mg, 4x/day to 120 mg 2x/day) | Ginkgo extract (brand not stated) 40 or 60 mg capsules | Ginkgo was 84% effective in treating antidepressant-induced sexual dysfunction predominantly caused by selective serotonin reuptake inhibitors. Women were more responsive than men, with relative success rates of 91% versus 76%. Ginkgo had positive effects on desire, excitement, orgasm, and resolution phases of the sexual response cycle. | | |
| ltil et al., 1996 | Effect on electro- physiological characteristics of the central nervous system | R, DB, PC, CO n=12 | Acute treat- ment followed by a minimum 3-day wash- out | | Ginkgold® EGb-761 | The higher doses had more pharmacological effects than the 40 mg dose, and the 120 or 240 mg dose may be clinically more beneficial (changes in alpha activity, p=0.002; change in coefficient of CEEG response, p=0.008). Ginkgo extract has electrophysiological effects in the central nervous system similar to other well-known cognitive activators. | | |

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| Schaffler and Reeh, 1985 Schaffler and Reeh, 1985 R, DB, PC, CO n=8 Reh, 1985 Schaffler and Reeh, 1985 Schaffler and Reeh, 1985 Schaffler and Reeh, 1985 R, DB, PC, CO n=8 Schaffler and Reeh n=8 Reh, 1985 R, DB, PC, CO n=8 R, DB, PC, CO n=8 Reh, 1985 Schaffler and Reeh n=8 Reh, 1985 Schaffler and Reeh n=8 Robert and Reeh n=8 R, DB, PC, CO n=8 R, DB, PC, CO n=8 Robert and Reeh n=8 Robert and Reeh n=8 R, DB, PC, CO n=8 R, DB, PC, CO n=8 Robert and Robert and Reeh n=8 Robert and Robert and Reeh n=8 Robert and Robert a | Other (con | t.) | | | | | |
|--|---------------|------------|---|------------------------------|--|-------------------------|---|
| n=20 elderly patients with moderately severe depression Robustian Part P | Author/Year | Subject | Design | Duration | Dosage | Preparation | Results/Conclusion |
| Reeh, 1985 CO n=8 washout, I week placebo 2-week washout, I week placebo Reeh, 1985 CO n=8 and crops), 2 ml 2x/day or placebo forte EGb 761 liquid form placebo of ginkgo. Hypoxia-induced increase of corneoretinal resting potential and the augmented respiratory drive were reduced. Compared with placebo, saccadic eye movements and choice reaction times were significantly reduced under cumulative hypoxic stress. These finding were interpreted as indicative of a protective action against hypoxia, relevant to the treatment of cardiovas- | Halama, I 990 | Depression | n=20 elderly patients with moderately severe | 2 months | or placebo. Patients continued taking existing antidepressive medication (75–100 mg/day Stangyl®, n=12; 75–100 mg/day Ludiomil®, n=5; 50–75 mg/day Pertrofan®, | forte EGb-761 (40 mg | unchanged in 4, and became worse in 3 patients. Placebo-treated groups showed no lessened depression, while depression remained unchanged in 5 and wors- ened in 5 patients. Authors conclude that results are |
| | | Нурохіа | CO | 2-week washout, I week | drops), 2 ml 2x/day or | forte EGb 761 | resting potential and the augmented respiratory drive were reduced. Compared with placebo, saccadic eye movements and choice reaction times were significantly reduced under cumulative hypoxic stress. These findings were interpreted as indicative of a protective action against hypoxia, relevant to the treatment of cardiovas- |

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