Aggressive Goals Are Within Reach





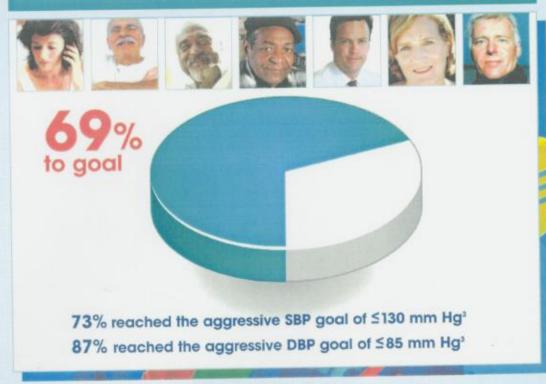


In a clinical trial

BENICAR and BENICAR HCT helped a majorit

According to NHANES, only 31% of patients with hypertension are controlled

Nearly 7 out of 10 patients on BENICAR or BENICAR HCT reached the aggressive goal of ≤130/85 mm Hg and more than half of these patients did so on BENICAR monotherapy^{2,3}



Overall mean baseline: 161/97 mm Hg

Adapted from Neutel et al. Journal of Clinical Hypertension, 2004

Patients were titrated at 4-week intervals until they reached the goal of ≤130/85 mm Hg: BENICAR 20 mg, BENICAR 40 mg, BENICAR 40 mg + HCTZ 12.5 mg, BENICAR 40 mg + HCTZ 25 mg²

USE IN PREGNANCY

When used in pregnancy during the second and third trimesters, drugs that act directly on the renin-angiotensin system can cause injury and even death to the developing fetus. When pregnancy is detected, BENICAR or BENICAR HCT should be discontinued as soon as possible. See WARNINGS, Fetal/Neonatal Morbidity and Mortality in the prescribing information.

f patients reach aggressive goals

- JNC 7 guidelines establish more aggressive goals: treat most patients to BP <140/90 mm Hg; treat patients with comorbidities to BP <130/80 mm Hg¹
- Landmark studies show patients require 2 to nearly 4 different agents to reach BP goal**

Majority of patients reached goal of ≤130/85 mm Hg on BENICAR or BENICAR HCT^{2,3}

Stage 1 patients reached goal

89%

JNC 7 defines Stage 1 as SBP 140-159 mm Hg or DPB 90-99 mm Hg

Stage 2 patients reached goal

54%

JNC 7 defines Stage 2 as SBP ≥160 mm Hg or DPB ≥100 mm Hg

Mean baseline Stage 1: 150/95 mm Hg; Mean baseline Stage 2: 170/98 mm Hg

American hours have been extent of the property of Chical Harman and Chical Harman a

Openiable matterner, 24 week titraten filal (ovaluable cohort, re-179). Patients who must entry criteria were inflated on BENICAR 20 mg QC. The end of study BP goal for all patients was \$130/85 mm Hg. If the goal BP was not achieved, antihyportensive therapy was titrated at 4 week intervals according to the totowing step was algorithm until the goal BP was attained up-titration of BENICAR to 40 mg QD addition of HCTZ 12.5 mg QD, then up-titration of HCTZ to 25 mg QD, addition of amorphis besytate 5 mg/d; and up-titration of anisotiphe besytate to 10 mg/d. Pescent of patients achieving goal based on 179 evaluable patients. Results presented are at Week 16, prior to the addition of amorphise besytate.

BENICAR and BENICAR HCT are indicated for the treatment of hypertension. They may be used alone or in combination with other antihypertensive agents. BENICAR HCT is not indicated for initial therapy.

Please see full prescribing information for BENICAR and BENICAR HCT.

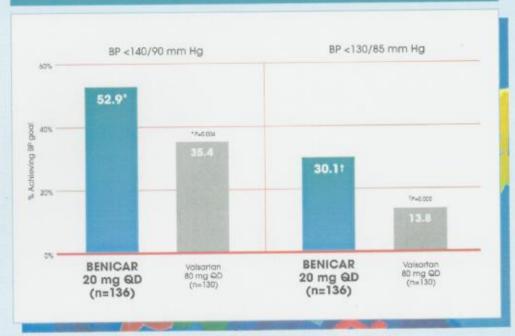




vs other ARBs

BENICAR monotherapy help

BENICAR starting doses: aggressive goal attainment vs valsartan^{3,7}

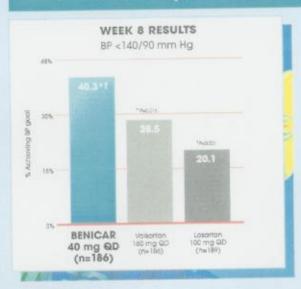


Mean ambulatory baselines (mm Hg): BENICAR 152/94; valsartan 152/95

Ambulatory 8P monitoring (ASPM) results based on secondary analysis at Week 8 from valsartan component. Part of multicenter randomized, double-blind, parallel-group study. Overall control-rate comparison of BENICAR 20 mg GD (n=136) with losartan potassium 50 mg GD (n=134), valsartan 80 mg GD (n=130), and ribesartan 150 mg GD (n=134).

- In the same study, BENICAR 20 mg QD vs valsartan 80 mg QD achieved the following DBP cuff reductions: -11.5 mm Hg for BENICAR vs -7.9 mm Hg for valsartan (P<0.0001)⁷
 - Mean cuff baselines (mm Hg): BENICAR 157/104;
 valsartan 155/104

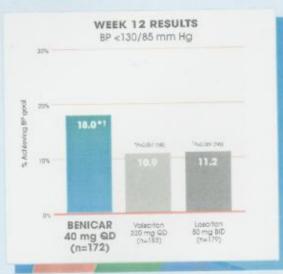
BENICAR titrated doses: aggressive goal attainment vs valsartan and losartan in patients with Stage 2 Hypertension³



Curt 8P control results (Secondary analysis) at a 12-week randomend, double send, forced-trimation study (Nr/23) companing the efficacy and safety at BFNICAR versul vasartan, bacterian pattestum, and placebo in patients with Stage 2 Prysertenson. The primary enapont was 8-week mean aut. DBF reductions in this study 27% of BENICAR patients, 19% of validation patients, 23% of location patients, 23% of location patients, and 22% of placebo patients were Attacan American.

wells the rearridge (15-90) 12.2% P<0.001

At Week 8, mean BP reductions were superior to losartan (P<0.001) and similar to valsartan (P=0.078, NS).



Where 12 data from second chase of study designed to show requirement Sine study description about

law the for plocebo (mi 87): 2.3%, PkD 001

In the second phase of the study, designed to show equivalence, BENICAR dosing was maintained at 40 mg, valsartan dose was doubled to 320 mg and losartan dose was changed to 50 mg BID. At Week 12, mean BP reductions were similar among the treatment groups.

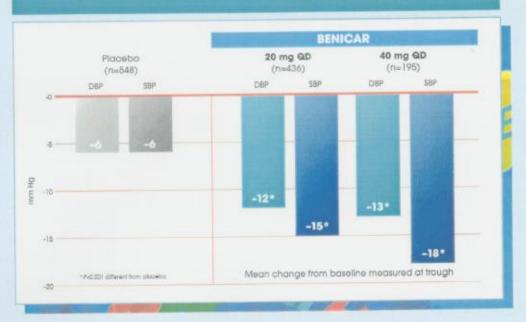
Mean cuff baselines (mm Hg): BENICAR 156/104; valsartan 154/103; losartan 155/104; placebo 154/103





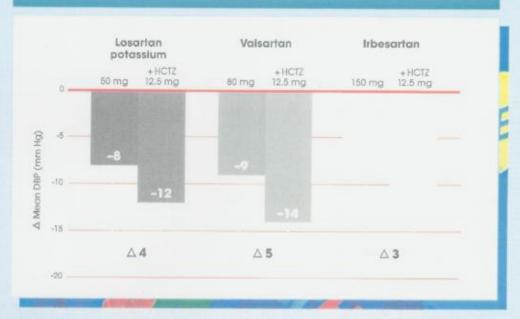
BENICAR monotherapy help

BENICAR provides mean double-digit BP reductions³



Study design Piacebo and BENICAR sitting data. Derived from 7 dose-ranging studies. Duration=6 to 12 weeks. Patients taking BENICAR 2.5 to 80 mg.n=2145. Patients taking piacebo, n=548.

DBP reductions when low-dose HCTZ added to 3 other ARBs¹⁰



Address from Carrie et al Ansenza Joseph at Appertunion, 2000

Faced meta or cycle septembring weighted overtage antihyperfensive efficacy from 43 double bind, tandamised, controlled trait. Results compare LEP reductions using APRs as starting-cases manatherapy as manatherapy literary and as APR-14012-012 5 mg/ comparation therapy literary results may vary train these managements appeared to present

Alegations improved most frequently processed

66% to DBP goal

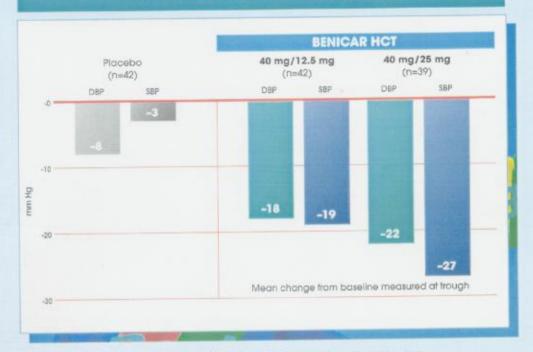
- Nearly 2 out of 3 patients on BENICAR monotherapy achieved the aggressive DBP goal of ≤85 mm Hg within 8 weeks in one titration or less in a clinical trial²
 - -Mean baseline: 161/97 mm Ha





Even more patients reach aggressive goc

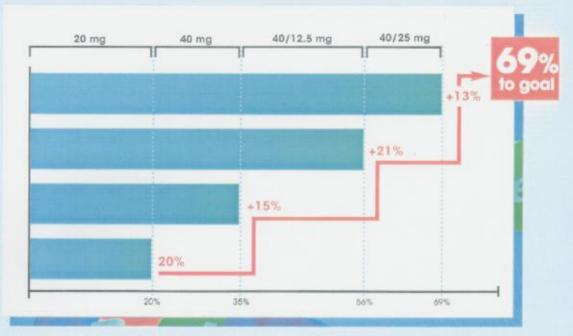
BENICAR HCT provides significant mean double-digit reductions of up to 27 mm Hg SBP¹²



Mean baselines (mm Hg): Placebo 152/103; BENICAR+HCTZ 152-154/103-104

Adapted from Chrysant et al. American Journal of Hypertension: 2004.

Piacebo and BENICAR + HCTZ sitting data: A pivotal randomized, double-bind, parallel-group, factorial study (N=50Z). Duration=8 weeks following a 4-week placebo run in period.



Overall mean baseline: 161/97 mm Hg (n=179, nearly 70% were Stage 2 patients)

Amonte of the New poll of all Incomes of Clinical Report Americans 2000

Open-label, multicontal, 24 week thration trial (evaluable conort, no 17%) Patients who that early criting were intrated on BENICAR 20 mg QD, the one of study BF goal for all patients was \$150/85 mm Hg. If the goal BF was not achieved, antitypentaneive therapy, was littered at 4 week piles of according to the following stop-wise algorithm until the goal IFF was offered up thration of IEEE to 40 mg QD, addition of IEEE to 25 mg QD, according to amicopare between 5 mg/s1 and up thration of amicopare between the property of patients achieving goal based on 17% evaluation patients. Nesure proceeded are at Week 15 process to the adultion of amicological between

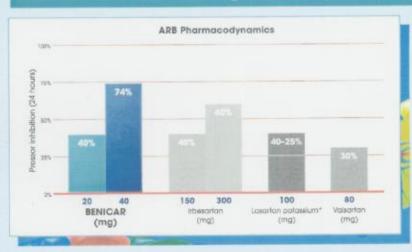
More than half of the patients who reached goal of ≤130/85 mm Hg on BENICAR or BENICAR HCT were controlled on BENICAR monotherapy^{2,3}





Reaching aggressive BP goal

BENICAR blockade of BP-raising effect of angiotensin II at 24 hours vs other ARBs³



Percentage inhibition based on current package inserts all agents administered as a single dose.

No information on effect of larger doses of valsartan was available.

Losartan inhibition ranged between 25% and 40%.

Pressor inhibition refers to the blockade or interruption of any BP-raising mechanism in the body, including blockade of angiotensin Angiotensin II is a major contributor to vasoconstriction, which is a principal component of hypertension.

BENICAR 40 mg inhibited 74% of the BP-raising effect of angiotensin II at 24 hours³

ARB pharmacokinetic parameters ¹				
ARB	Half-life (Hours)	Time to Maximum 8P Effect [®] (Weeks)	P450 Metabolism	Elimination (Approximations)
BENICAR	13	2	МО	35%-50% renal 50%-65% hepatobiliary
Irbesartan	11-15	2	Yes (CYP 2C9)	20% renal 80% hepatobiliary
Losartan potassium	6-9	6	Yes (CYP 2C9 and 3A4)	35% renal 60% hepatobiliary
Valsartan	6	4	Unknown	13% renal 83% hepatobiliary

¹Based on current pockage Inserts, ¹From clinical trials.

Clinical significance of pharmacodynamic and pharmacokinetic data is unknown.

Please see boxed **WARNING regarding use in Pregnancy** in the prescribing information for BENICAR and BENICAR HCT.

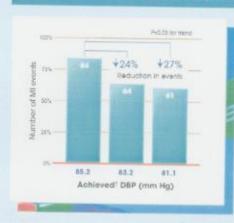




with BENICAR

The Hypertension Optimal Treatment (HOT) trial confirms: reaching BP goals is essential¹³

Lower diastolic blood pressure associated with fewer MIs*



Renisonated multinational study.

19, 18 700 hyperhansial patients Basiston

DBP+100-116 mm Fig. Study convanies, the association

Extends in rapid CV events and a floatment goals.

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*Alternocardiol interchan

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thrend or shape.

The great efficacy of BENICAR and BENICAR HCT—combined with favorable safety and tolerability

In clinical trials:

- The withdrawal rates due to adverse events (AEs) were similar with BENICAR and BENICAR HCT to placebo: BENICAR (2.4% vs 2.7%); BENICAR HCT (2.0% vs 2.0%)
- The incidence of AEs with BENICAR and BENICAR HCT was similar to placebo
 - The only AE that occurred in >1% of patients treated with BENICAR and more frequently than placebo was dizziness (3% vs 1%)
 - AEs reported in >2% of patients taking BENICAR HCT and more frequently than placebo included nausea (3%), hyperuricemia (4%), dizziness (9%), and upper respiratory tract infection (7%)
- No Initial dosage adjustments necessary with BENICAR in elderly or in moderate to marked renal impairment*/hepatic dysfunction
 - In patients with possible depletion of intravascular volume (eg, patients on diuretics, particularly with impaired renal function), BENICAR should be initiated under close medical supervision and consideration given to use of a lower starting dose

(Creatining decrance < 40 mL/min.

 BENICAR HCT is not recommended in patients with severe renal impairment and is contraindicated in patients with anuria or hypersensitivity to other sulfonamidederived drugs

Aggressive Goals Are Within Reach

In a clinical trial

More patients on BENICAR and BENICAR HCT reached aggressive goals

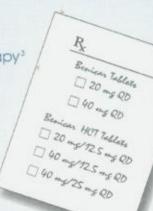
69% of patients on BENICAR or titrated up to the maximum dose of BENICAR HCT reached the aggressive goal of ≤130/85 mm Hg²

- -89% of Stage 1 patients reached goal
- -54% of Stage 2 patients reached goal

More than half the patients who reached the aggressive goal of ≤130/85 mm Hg on BENICAR or BENICAR HCT were controlled on BENICAR monotherapy²

Other trials demonstrate excellent monotherapy goal attainment vs other antihypertensives3,7,8

Even more patients reached aggressive goals when HCTZ was added to BENICAR monotherapy



BENICAR—available to more than 93% of HMO/PBM lives³





GREAT BP REDUCTIONS FOR MORE AGGRESSIVE GOALS

Please see boxed WARNING regarding use in Pregnancy in the prescribing information for BENICAR and BENICAR HCT.

For detailing purposes only. Not to be left with physician.



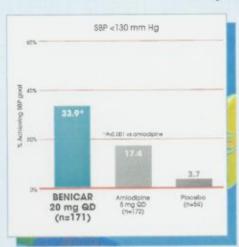
©2004 Sankyo Pharma Inc.

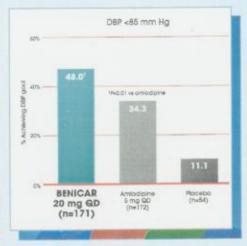
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More BENICAR patients achieved aggressive BP goals than patients on amlodipine⁸

Chrysant Study⁸





Adapted from Chrysant et al. Journal of Human Hypertension, 2003,*

Ambusatory BP control results (a secondary endpoint) from 8-week, randomized, double-blind, placebo-controlled study (N=440) of patients with mild-to-moderate hypertension. Study drugs given at recommended starting doses.

Mean ambulatory baselines (mm Hg): BENICAR 154/96; amlodipine besylate 154/95; placebo 154/96

- BENICAR, at the starting dose of 20 mg QD, provides mean double-digit BP reductions vs baseline similar to amlodipine at the starting dose⁸
 - 10.3/10.8 mm Hg reductions with BENICAR
 - 10.3/10.1 mm Hg reductions with amlodipine
 - Mean cuff baselines (mm Hg): BENICAR 155/104, amlodipine 155/104, placebo 154/103

A second study vs the CCB felodipine yielded similar results in mean BP reductions.9

References:

1. Hallar I. Kotchen TA. Trends in prevalence, awareness, treatment, and control of hypertension in the United States, 1988-2000, JAMA, 2003;290;(No.2):199-206, 2. Neutel JM, Smith DHG, Weber MA, Wana AC, Masonson HN. Use of an olmesartan medoxomil-based treatment algorithm for hypertension control. J Clin Hypertens. 2004:6:168-174, 3, Data on file, Sankyo Pharma Inc., Parsippany, N.J. 4, The Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure, Bethesda, Md. National Institutes of Health: National Heart, Lung, and Blood Institute; National High Blood Pressure Education Program: May 2003, NIH publication 03-5233, 5, Cushman WC, Ford CE, Cuffer JA, et al. Success and predictors of blood pressure control in diverse North American settings: The antihypertensive and lipid-lowering treatment to prevent heart attack trial (ALLHAT). J Clin Hypertens. 2002;4(6):393-404. 6. Bakris GL, Williams M, Dwarkin L. et al. Preserving renal function in adults with hypertension and diabetes: a consensus approach. National Kidney Foundation Hypertension and Diabetes Executive Committees Working Group. Am J Kidney Dis 2000;36(3):646-661.7. Opani S, Williams D, Chrysant SG, Marbury TC, Neutel J. Comparative efficacy of almesartan, losartan, valsartan, and irbesartan in the control of essential hypertension. J Clin Hypertens. 2001.3:283.291 8. Chrysont SG. Marbury TC. Robinson TD. Anthypertensive efficacy and safety of almesartan medaxamil compared with amladipine for mild-to-moderate hypertension. J Hum Hypertens 2003: 17:425-432. 9. Stumpe KO, Ludwig M. Antihypertensive efficacy of olmesartan compared with other antihypertensive drugs. J Hum Hypertens. 2002: 16(suppl 12): \$24-\$28. 10. Confin PR. Spence JD, Williams B, et al. Angiotensin II antagonists for hypertension: are there differences in efficacy? Am J Hypertens. 2000;13:418-426. 11, IMS Health, National Prescription Audit January-December 2003, 12, Chrysant SG, Weber MA, Wang AC. Hinman DJ. Evaluation of antihypertensive therapy with the combination of oimesortan medoxomil and hydrochlarothiazide, Am J Hypertens, 2004;17:262-259, 13. Hansson L, Zanchetti A, Carruthers SG, et al. Effects of intensive blood-pressure lowering and low-dose aspirin in patients with hypertension; principal results of the Hypertension Optimal Treatment (HOT) randomised trial. Lancet. 1998;361:1755-1762. 14. IMS Health. National Prescription Audit, March 2004 vs December 2003.