What Is The Best Medical Treatment For Patients With Carotid Stenosis (Asymptomatic And Symptomatic): Can High Risk Plaques Be Made Low Risk And Smaller? All Stroke Patients Should Be On Statins Because They Decrease Recurrent Stroke And Mortality Rates Markedly J. David Spence C.M., M.D., FRCPC, FAHA Stroke Prevention & Atherosclerosis Research Centre Robarts Research Institute



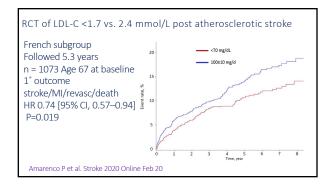
Patients with carotid stenosis are at high risk

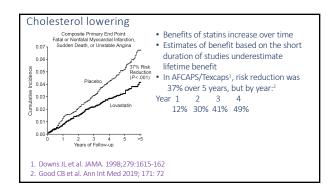
• Not just stroke

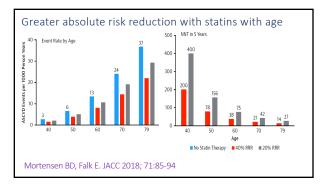
- They have a high risk of coronary disease
- They should all receive intensive medical therapy
- Age should not be an impediment to intensive medical Rx
- The best results are with "Treating Arteries" instead of merely treating risk factors
 - Target is plaque regression, not just lipid levels

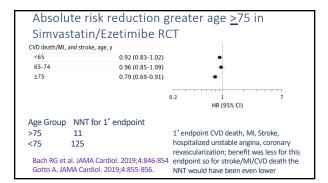
Best medical therapy for carotid stenosis

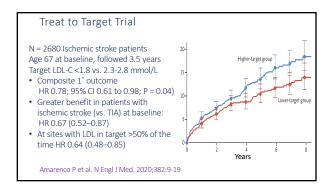
- Smoking cessation
- Mediterranean diet
- Exercise
- Intensive lipid lowering therapy
- Antiplatelet agents
- Blood pressure control
 - Importance of measuring plasma renin and aldosterone
 - Individualized therapy for hypertension

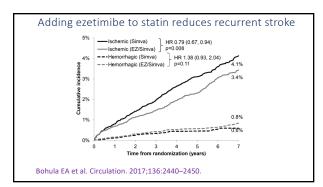


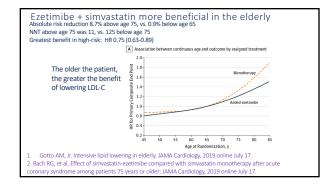


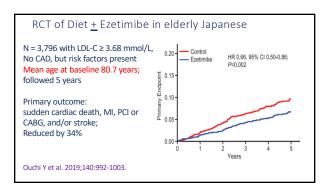


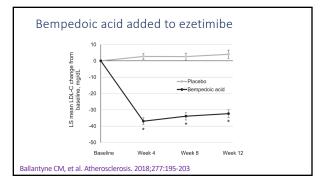










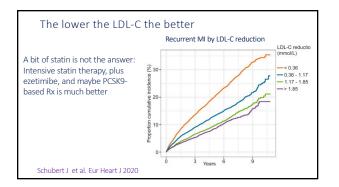


Ezetimibe should routinely be added to statin or bempedoic acid

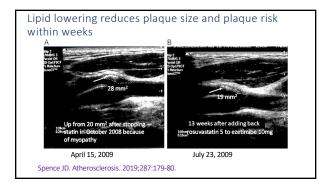
- It is synergistic with statin: more than doubles the effect
- Permits lower dose of statin in those with muscle problems
- Reduces the risk of stroke/MI/CVD death (including age \geq 75)
- \bullet Is now recommended as Grade 1 in new European guideline 1

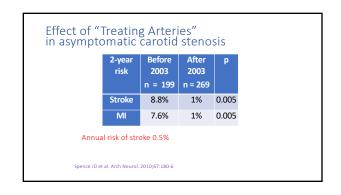
1.Mach F, et al. 2019 ESC/EAS Guidelines for the management of dyslipidaemias. European Heart Journal. ePub 2019 Aug 31

Lipid lowering and stroke risk Post-CABG PROVE-IT The lower the LDL-C, the better GISSI PROSPER SEARCH ALLI SPARCL-CS (-) WOSCOPS ALLIANCE Al-sec SPARCL MEGA A to Z TNI HPS CARE ssss SPARCL-CS (+) CARDS belati -35 -40 reduction (%; active mir -45 -50 control groups) 0 -10 -15 -20 -25 -30 -35 -44 Between-group differences in LDL cholesterol reduction (%; active n Amarenco P, Labreuche J. Lancet Neurol 2009; 8: 453–63



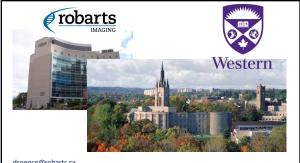






Best medical therapy for patients with carotid stenosis: Conclusions

- Mediterranean Diet, smoking cessation, exercise, antiplatelet agent
- Effective blood pressure control (with renin/aldosterone-based Rx)
- All patients with carotid stenosis should receive intensive lipid lowering Rx
- "Treating Arteries" instead of merely treating risk factors
- Ezetimibe should be routinely added to statin or bempedoic acid
- For statin-intolerant patients, use ezetimibe + bempedoic acid + PCSK9-based Rx • Such as evolocumab (Repatha)



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