

History

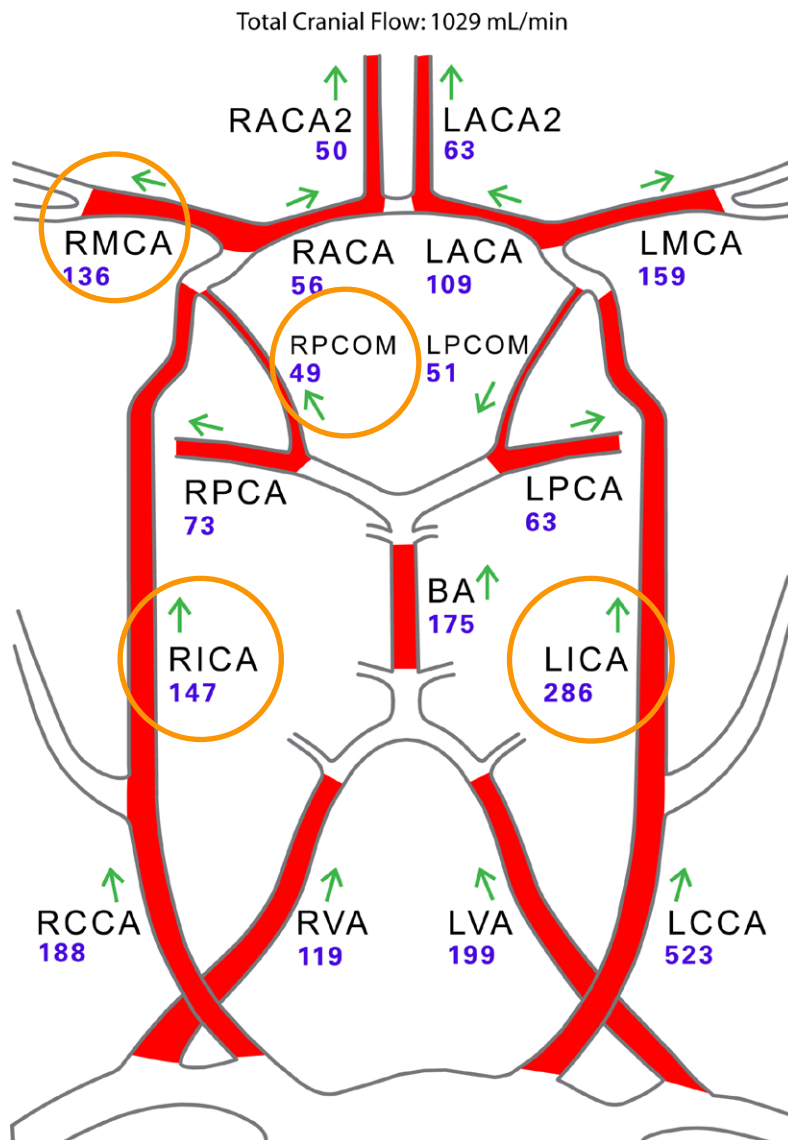
- ❖ 58 year old male with a history of right parietal stroke
- ❖ Had right carotid endarterectomy for >90 RICA stenosis
- ❖ 21 months post CEA, has a 70% RICA restenosis on CTA
- ❖ Referred for evaluation of asymptomatic restenosis

PHYSICIAN'S CONCERNS?

- Whether to intervene on an asymptomatic patient
- Stenosis is progressive, flow limiting and severe

HOW DID NOVA HELP?

- NOVA supported decision to intervene
- Quantified improvement in flow after stenting



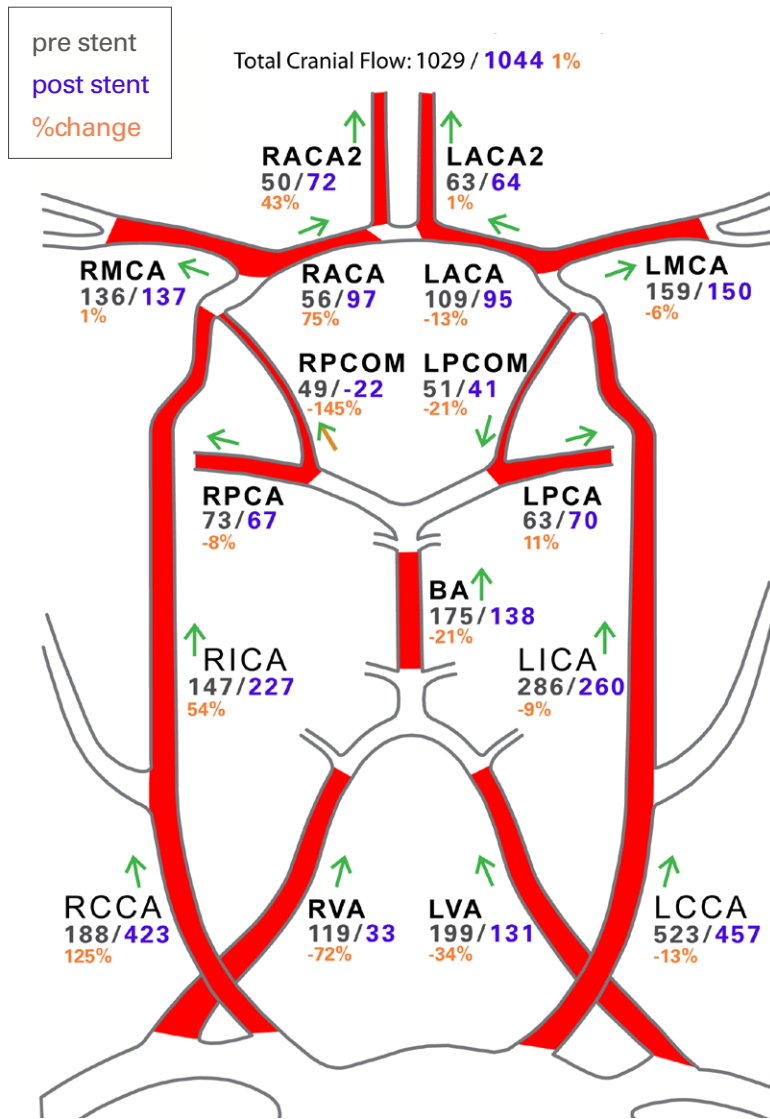
NOVA Report – Pre intervention

- Vessel map shows relative asymmetry in right and left internal carotid artery flow
- RMCA well compensated by collaterals
- Rpcom flows anteriorly

Angiogram

85-90% short-segment stenosis of RCCA at the C4-5 level which is amenable to endovascular angioplasty and stenting.

NOVA Comparative Map



NOVA Report – Post intervention

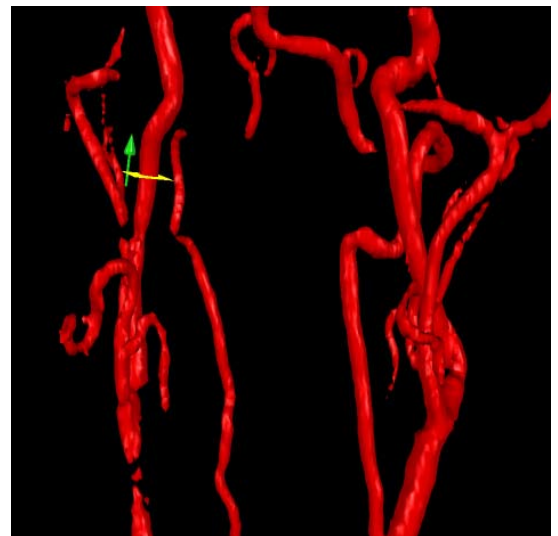
- RICA flow increases 54% after stenting
- Right and left carotid flow symmetry
- RMCA flow is stable
- Rpscom now flows posteriorly
- Corresponding decrease in Basilar artery flow

Case Summary

NOVA quantitative MRA was used to evaluate cerebral vessel flows pre and post carotid stenting.

Patient will be followed with NOVA at 6 months and 1 year.

He remains on ASA 325mg QD and Plavix 75 mg QD; length of plavix to be determined after next NOVA.



NOVA 3D showing measurement plane on Right Internal Carotid Artery distal to stent