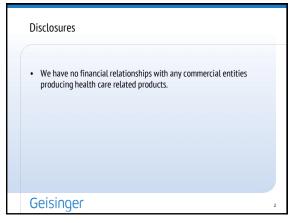
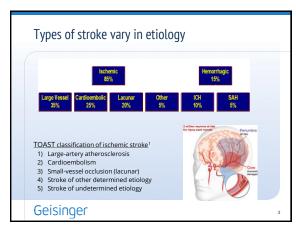
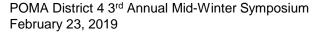


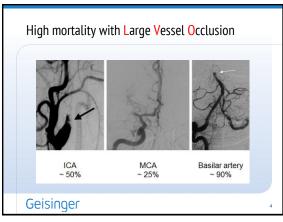
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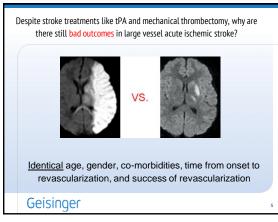


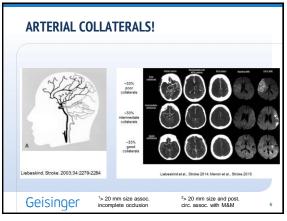


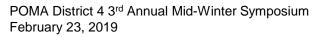




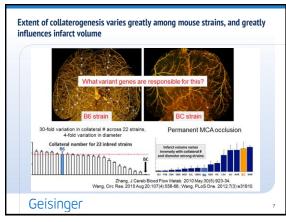


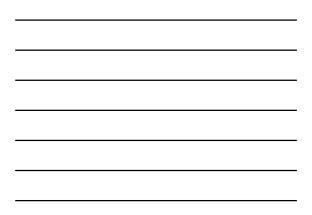




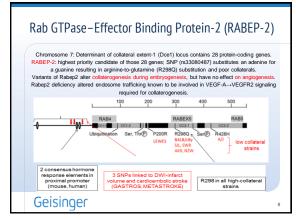




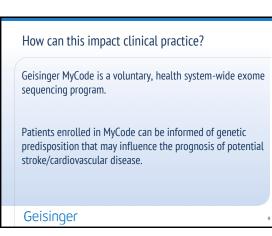




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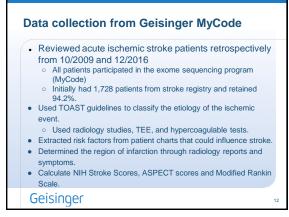
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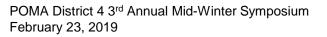


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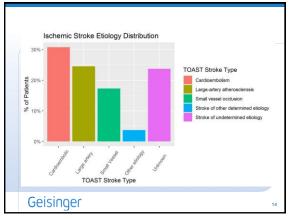




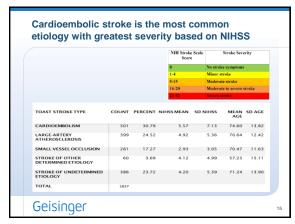












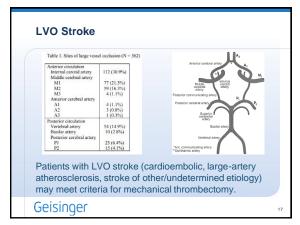




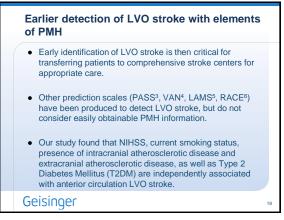
Part I: Large Vessel Occlusion (LVO) Prediction Scale

Geisinger

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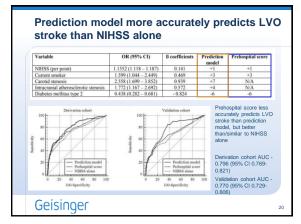


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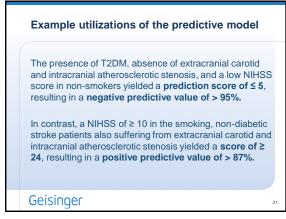


LVO stroke					
	Derivation cohort (n=1026)			Validation cohort (=514)	
	Anterior circulation LVO (n=165)	Ø LVO (n = 861)	OR (95% CI) / p-value	Anterior circulation LVO (n=83)	Ø LVO (n= 431)
Age	67.7 ± 14.0	67.1 ± 13.3	0.582	66.7 ± 14.0	68.2 ± 12.6
Females	91 (55.2%)	441 (51.2%)	1.171 (0.838 - 1.637)	43 (51.8%)	190 (44.1%)
$BMI \ge 25$	121 (73.3%)	688 (79.9%)	0.691 (0.471 - 1.014)	64 (77.1%)	342 (79.4%)
Current smoker#	50 (33.1%)	196 (22.9%)	1.667 (1.146 - 2.424)	27 (36.0%)	82 (19.2%)
Alcohol consumption [§]	64 (45.1%)	311 (37.5%)	1.367 (0.954 - 1.957)	22 (29.7%)	138 (34.1%)
Carotid stenosis	100 (60.6%)	292 (33.9%)	2.998 (2.128 - 4.223)	50 (60.2%)	140 (32.5%)
Intracranial atherosclerotic stenosis	73 (44.2%)	222 (25.8%)	2.284 (1.621 - 3.219)	35 (42.2%)	114 (26.5%)
Atrial fibrillation	44 (26.7%)	184 (21.4%)	1.338 (0.914 - 1.960)	19 (22.9%)	98 (22.7%)
Diabetes mellitus type 2	43 (26.1%)	345 (40.1%)	0.527 (0.363 - 0.766)	28 (33.7%)	176 (40.8%)
NIHSS ⁵	7.5 (10.0 ± 8.2)	2 (3.8 ± 4.5)	< 0.001	6 (9.0 ± 9.0)	$2(3.3 \pm 4.0)$
$NIHSS^3 \ge 6$	94 (58.5%)	174 (21.2%)	5.288 (3.702 - 7.553)	41 (51.2%)	71 (17.3%)

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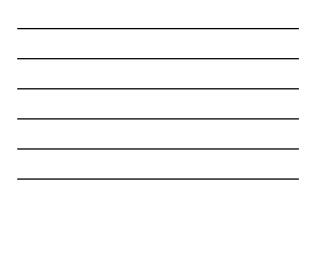


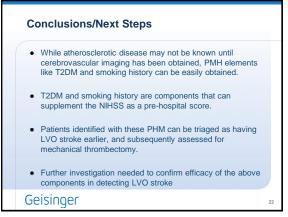
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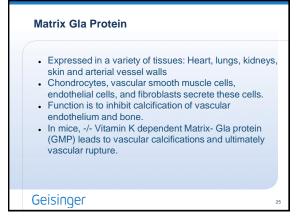


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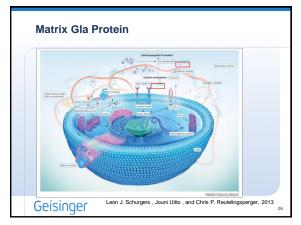
Matrix Gla protein polymorphism rs1800801 is associated with recurrence of ischemic stroke

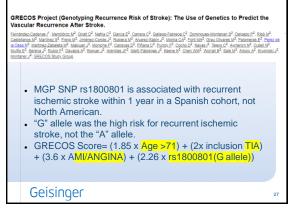
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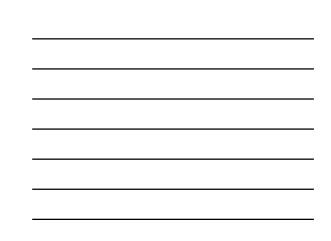


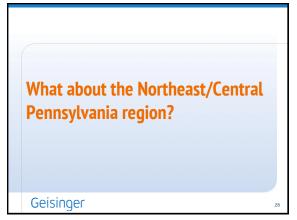
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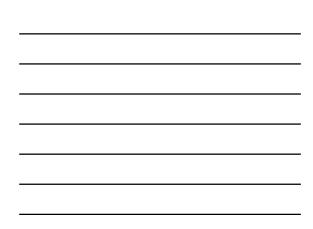
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Table 1. Patient characteristics			
•	Recurrent stroke	No recorrect stroke	Statistics
	within first year	NO recurrent shoke	OR (95% CD / p-value
Patients (N)	79/1068 (7.4%)	989/1068 (92.6%)	OK (95% Ct)/ p-vaule
Age in years [mean = SD]	65.9 ± 14.5	68.2 ± 13.2	0.387
Say	00.5 - 14.5	00.2 - 17.2	0.507
Female	44/79 (55.7%)	483/989 (48.8%)	1.317 (0.830 - 2.089)
Male	35/79 (44,3%)	506/989 (51,2%)	
TOAST subtypes of stroke			≤0.001
Cardioembolism	24/79 (30.4%)	313/989 (31.6%)	
Large-artery atherosclerosis	25/79 (31.6%)	222/989 (22.4%)	
Small vessel occlusion	5/79 (6.3%)	168/989 (17.0%)	
Stroke of undetermined etiology	17/79 (21.5%)	263/989 (26.6%)	
Stroke of other determined etiology	8/79 (10.1%)	23/989 (2.3%)	
History of hypertension	67/79 (84.8%)	784/989 (79.3%)	1.460 (0.775 - 2.750)
Diabetes mellitus II	35/79 (44.3%) 64/79 (81.0%)	392/989 (39.6%) 704/989 (71.2%)	1.211 (0.763 - 1.923) 1.727 (0.968 - 3.081)
Dyalipidemia Smoking status ¹	64/79 (\$1.0%)	704/939 (71.2%)	1.727 (0.968 - 3.081)
Current	20/79 (25.3%)	205/967 (21.2%)	1.260 (0.742 - 2.141)
Former	25/79 (31.6%)	390/967 (40.3%)	1.200 (0.742 - 2.141)
Never	34/79 (43.0%)	372/967 (38.5%)	
Alcohol consumption ³	25/79 (31.6%)	344/936 (36.8%)	0.797 (0.487 - 1.304)
BMI≥25	63/79 (79.7%)	786/989 (79.5%)	1.017 (0.575 - 1.798)
Perioheral vascular disease	13/79 (16.5%)	107/989 (10.8%)	1.624 (0.867 - 3.041)
Coronary artery disease	33/79 (41.8%)	301/989 (30.4%)	1.640 (1.028 - 2.616)
Atrial fibrillation	18/79 (22.8%)	223/989 (22.5%)	1.014 (0.587 - 1.751)
Prior stroke	35/79 (44.3%)	75/989 (7.6%)	9.694 (5.865 - 16.022)
Carotid stenosis	28/79 (35.4%)	384/989 (38.8%)	0.865 (0.536 - 1.396)
Intracranial arterioscherosis	32/79 (40.5%)	333/989 (33.7%)	1.341 (0.840 - 2.142)
Anemia	13/79 (16.5%)	145/989 (14.7%)	1.146 (0.617 - 2.132)
Pro-congulant congulation disorder	9/79 (11.4%)	31/989 (3.1%)	3.973 (1.820 - 8.674)
Family history	24/79 (30.4%)	207/989 (20.9%)	648 (0.996 - 2.727)

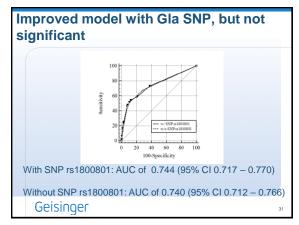
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AA ge	notype n	as the higl	nestrisk	
Table 2. Genotyp	e frequencies of S	SNP rs1800801		
Polymorphism	Genotype	Recurrent	No recurrent stroke	P value
rs1800801	GG (N = 422)	22/422 (5.2%)	400/422 (94.8%)	0.011
	GA (N = 506)	39/506 (7.7%)	467/506 (92.3%)	
	AA (N = 140)	18/140 (12.9%)	122/140 (87.1%)	
	HWE	0.928	0.424	
Linear-by-linear	association p = 0.0	004. HWE = Hardy-	Weinberg equilibriun	1
Subgrou	ip analysis	between AA	Vs. GA genot	types
suggest	s the AA ae	enotype is at	higher risk for	
00	0		1 year (OR =	
			· · ·	2.002,
95% CI	1.013 – 3.9	37, p = 0.029	9).	
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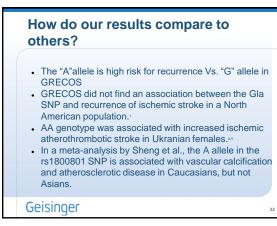




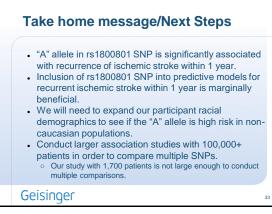
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