Supplemental Table 1. STROBE Statement—Checklist of items that should be included in reports of cohort studies

	Item		Page
	No	Recommendation	No
Title and abstract	1	(a) Indicate the study's design with a commonly used term	1
		in the title or the abstract	
		(b) Provide in the abstract an informative and balanced	4
		summary of what was done and what was found	
		Introduction	
Background/ration	2	Explain the scientific background and rationale for the	
ale		investigation being reported	
Objectives	3	State specific objectives, including any prespecified	6
		hypotheses	
		Methods	
Study design	4	Present key elements of study design early in the paper	7
Setting	5	Describe the setting, locations, and relevant dates,	7
· ·		including periods of recruitment, exposure, follow-up, and	
		data collection	
Participants	6	(a) Give the eligibility criteria, and the sources and	7
-		methods of selection of participants. Describe methods of	
		follow-up	
		(b) For matched studies, give matching criteria and	
		number of exposed and unexposed	
Variables	7	Clearly define all outcomes, exposures, predictors,	9,10
		potential confounders, and effect modifiers. Give	
		diagnostic criteria, if applicable	
Data sources/	8	For each variable of interest, give sources of data and	7,8
measurement		details of methods of assessment (measurement). Describe	
		comparability of assessment methods if there is more than	
		one group	
Bias	9	Describe any efforts to address potential sources of bias	7-10
Study size	10	Explain how the study size was arrived at	7
Quantitative	11	Explain how quantitative variables were handled in the	9,10
variables		analyses. If applicable, describe which groupings were	
		chosen and why	
Statistical methods	12	(a) Describe all statistical methods, including those used to	9-11
		control for confounding	
		(b) Describe any methods used to examine subgroups and	NA
		interactions	
		(c) Explain how missing data were addressed	7

		(d) If applicable, explain how loss to follow-up was addressed	
(e) Describe any sensitivity analyses			
		Results	
Participants	13*	(a) Report numbers of individuals at each stage of study—	7
Turterpunts	10	eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	,
		(b) Give reasons for non-participation at each stage(c) Consider use of a flow diagram	7
Descriptive data	14	(a) Give characteristics of study participants (eg	12,29
1		demographic, clinical, social) and information on exposures and potential confounders	-31
		(b) Indicate number of participants with missing data for each variable of interest	7
		(c) Summarise follow-up time (eg, average and total amount)	13
Outcome data	15	Report numbers of outcome events or summary measures	13
		over time	
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included	13,14, 35
		(b) Report category boundaries when continuous variables were categorized	29
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	12, 33
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	S5-S8
Discussion		,	
Key results	18	Summarise key results with reference to study objectives	16
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias	19
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	18,19
Generalisability	21	Discuss the generalisability (external validity) of the study results	18
Other information			17

Funding 22 Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based

Supplemental Table 2. Reclassification table of RTRs.

		Updated Model				
			RTRs in Risk			
		T) (): 1	36 11 1 1	TT: 1	RTR reclassified
		Low	Medium low	Medium high	High	(%)
lel	Low	188	19	2	0	10
Model	Medium low	22	34	10	0	48
Initial	Medium high	7	15	38	13	48
Ini	High	0	2	15	83	17

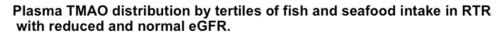
Supplemental Table 3. Diet components in subjects at the third TMAO tertile.

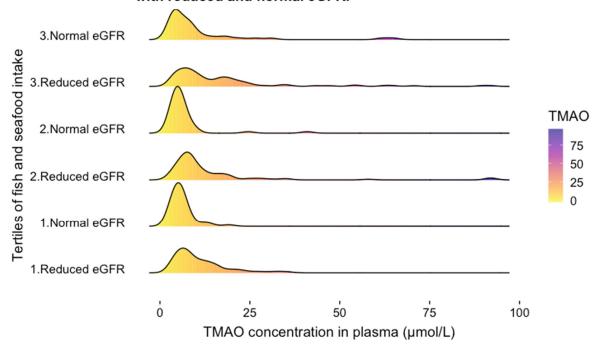
	Median (IQ range)	Mean (SD)	Population mean consumption[1]
Egg intake, g/day	8.92(7.14,14.28)	12.68 (9.9)	12
Vegetable Intake, g/day	95.75(65.83,140.15)	106.81 (70.1)	127
Fruit Intake, g/day	99.43(52.71,191.41)	121.25 (84.8)	122
Fish and Seafood Intake, g/day	14.87(4.679,22.95)	17.242 (16.0)	15

Supplemental Table 4. Comparison of Standardized Net Benefits of two predictive models.

Risk Threshold	Traditional Model	TMAO & Diet enriched Model
0.1	0.646	0.653
0.2	0.466	0.509
0.3	0.333	0.360
0.4	0.247	0.276
0.5	0.155	0.207
0.6	0.103	0.207
0.7	0.017	0.080

Supplemental Figure 1. A





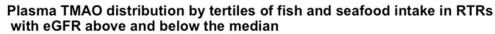
Tertiles of fish and seafood intake in RTRs with reduced eGFR (<60 ml/min * 1.73m²)

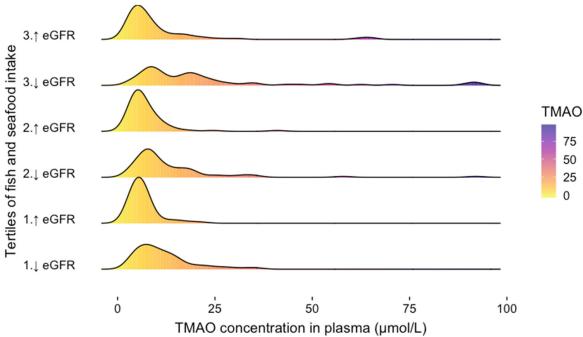
- 1.Reduced eGFR = 0 7.55 g/day
- 2.Reduced eGFR = 7.55 17.1 g/day
- 3.Reduced eGFR = 17.1 106 g/day

Tertiles of fish and seafood intake in RTRs with normal eGFR (>=60 ml/min * 1.73m²)

- 1.Normal eGFR = 0 4.69 g/day
- 2.Normal eGFR = 4.69 15.7 g/day
- 3.Normal eGFR = 15.7 80.8 g/day

Supplemental Figure 1. B





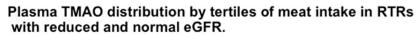
Tertiles of fish and seafood intake in RTRs with eGFR below the median (< 47.96 ml/min * 1.73m²)

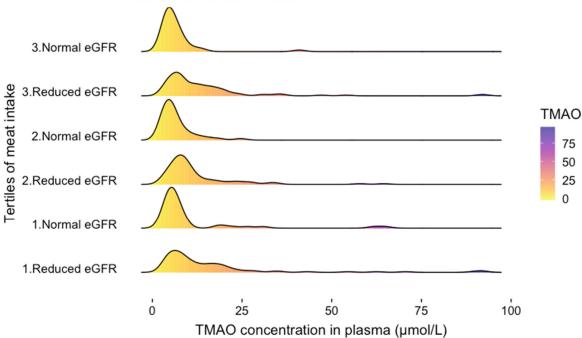
- 1. \downarrow eGFR = 0 − 6.45 g/day
- $2. \downarrow eGFR = 6.45 16.7 g/day$
- $3. \downarrow eGFR = 16.7 106 g/day$

Tertiles of fish and seafood intake in RTRs with eGFR above the median (>=47.96 ml/min * 1.73m²)

- 1. \uparrow eGFR = 0 6.97 g/day
- $2. \uparrow eGFR = 6.97 16.8 g/day$
- $3. \uparrow eGFR = 16.8 80.8 g/day$

Supplemental Figure 2.A





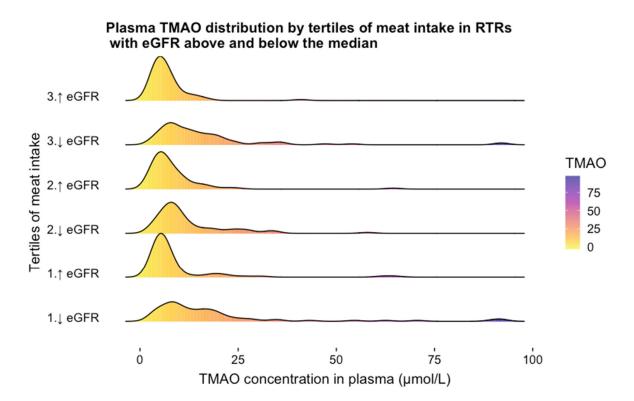
Tertiles of meat intake in RTRs with reduced eGFR (< 60 ml/min * 1.73m²)

- 1. Reduced eGFR = 0.1 71.4 g/day
- 2. Reduced eGFR = 71.4 93.5 g/day
- 3. Reduced eGFR = 93.5 270 g/day

Tertiles of meat intake in RTRs with normal eGFR (>= 60 ml/min * 1.73m²)

- 1. Normal eGFR = 0.1 70 g/day
- 2. Normal eGFR = 70 97.4 g/day
- 3. Normal eGFR = 97.4 158 g/day

Supplemental Figure 2.B



Tertiles of meat intake in RTRs with eGFR below the median (<47.96 ml/min * 1.73m²)

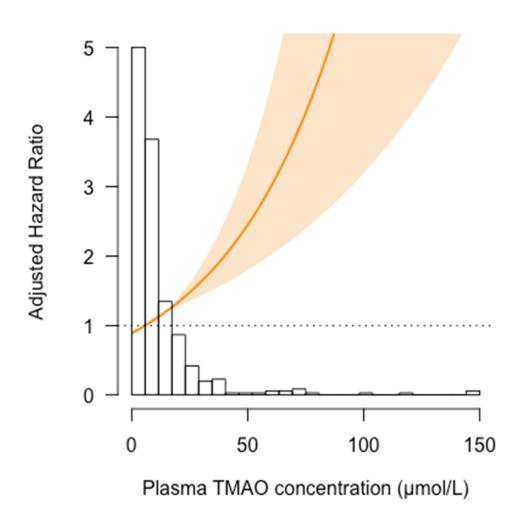
- $1. \downarrow eGFR = 0.1 70 g/day$
- $2. \downarrow eGFR = 70 93.4 g/day$
- $3. \downarrow eGFR = 93.4 205 g/day$

Tertiles of meat intake in RTRs with eGFR below the median (>=47.96 ml/min * 1.73m²)

- 1. \uparrow eGFR = 0.1 71.3 g/day
- 2. \uparrow eGFR = 71.3 96.1 g/day
- $3. \uparrow eGFR = 96.1 270 g/day$

Supplemental Figure 3.

Association between TMAO and graft failure



Supplemental References.

1. The diet of the Dutch: Results of the first two years of the Dutch National Food Consumption Survey 2012-2016 | RIVM. https://www.rivm.nl/publicaties/diet-of-dutch-results-of-first-two-years-of-dutch-national-food-consumption-survey-2012. Accessed 22 Dec 2020