Questions	Responses
1. Bedtime and wake time in the past month	
1.1. When do you usually go to bed?	A specific time (hour: minute, in 24-hour format).
1.2. When do you usually wake up?	A specific time (hour: minute, in 24-hour format).
2. Naps	
2.1 Do you take naps on daytime?	Yes or no.
2.2 How often?	Unit: times/week
2.3 How long?	Unit: min/time
3. Insomnia	
3.1. How long does it usually take you to fall asleep?	1) <10 min; 2) 10-20 min; 3) 21-30 min; 4) >30 min.
3.2. How is your sleep in the past month?	1) Pretty Good; 2) Good; 3) Bad; 4) Very bad
3.3. Have you ever used medicine for sleep in the past month?	Yes or no
	The ESS is a short, self-administered questionnaire that consists of eight questions asking to rate how likely it is to fall asleep in
4. Daytime sleepiness was assessed by the Epworth	everyday situations (each question can be scored from 0 to 3 points;
Sleepiness Scale (ESS)	'0' indicates no sleepiness, '3' indicates significant sleepiness). It
	provides a total score which has been shown to relate to the subject's
	level of daytime sleepiness (total score range 0-24 points).
5. Do you snore during sleep?	Yes or no.

Supplemental Table 1. The assessment of sleep patterns

Fruit and sweet foods pattern		Animal foods pattern		Vegetable pattern		
Food items	Factor	Food items	Factor	Food items	Factor	
	loadings		loadings		loadings	
Strawberry, kiwi fruit, persimmon	0.62	Animal offal (except for animal liver)	0.71	Chinese cabbage	0.64	
Grape	0.61	Animal blood	0.69	Cucumber	0.64	
Pineapple	0.56	Animal liver	0.68	Celery	0.63	
Western-style pastry, cakes	0.53	Instant noodle	0.66	Green vegetable	0.63	
Chinese cakes	0.53	Preserved egg	0.66	Pumpkin, carrot	0.58	
Sweets, candied fruits	0.53	Pork skin	0.60	Eggplant	0.58	
Sea-plant	0.52	Wonton	0.60	Chinese watermelon	0.56	
Pear	0.52	Sausage	0.58	Tomato (including the ketchup)	0.53	
Chinese sauerkraut	0.51	Sea fish	0.55	Raw vegetables (except for tomato)	0.52	
Walnut	0.50	Freshwater fish	0.54	Egg	0.52	
Cookies	0.50	Miscellaneous sauce noodles	0.52	Mushroom	0.52	
Peach	0.49	Seafood (shellfish, squid, shrimp)	0.50	Bell peppers	0.51	
Ice cream	0.49	Carbonated beverage	0.48	Coarse cereals	0.50	
Nuts	0.49	Steamed stuffed bun, dumpling	0.45	Potato (except for sweet potato)	0.49	
Preserved bean curd	0.48	Chinese sauerkraut	0.45	Radish (expect for carrot)	0.47	
Onion	0.48	Low-fat milk	0.44	Congee	0.47	
Fruit juice, vegetable juice	0.48	Salted eggs	0.44	Soya bean products	0.47	
Lotus root	0.48	Bread	0.43	Poultry	0.44	
Other kinds of fruit	0.48	Sweets, candied fruits	0.42	Meat	0.44	
Mung bean	0.47	Ice cream	0.42	Sweet potato	0.44	

Table S2. The factor loadings of primary food items of dietary patterns^a

^a For simplicity, only the top 20 food items of factor loadings of each pattern are shown. The fruit and sweet foods pattern, animal foods pattern, and vegetable pattern explained 12.60%, 11.14%, and 11.01% of the variance in total food intake, respectively.

Subgroups	Sleep and dietary patterns			P for trend ^b	<i>P</i> for interaction ^c
Men					
	Sleep pattern score ≥ 4	4 and/or animal foods patter	rn score < median value		
	Neither	Either	Both		0.69
No. of participants	1,774	2,739	1,471		
No. of incident MAFLD	636	852	449		
Adjusted model ^e	Reference	0.92 (0.83, 1.01) ^d	0.80 (0.67, 0.96)	< 0.01	
	Sleep pattern score	≥ 4 and/or vegetable pattern	score≥median value		
	Neither	Either	Both		0.09
No. of participants	1,391	2,801	1,792		
No. of incident MAFLD	503	891	543		
Adjusted model ^e	Reference	0.90 (0.81, 1.01)	0.86 (0.76, 0.98)	0.03	
Women					
	Sleep pattern score ≥ 4	4 and/or animal foods patter	rn score < median value		
	Neither	Either	Both		
No. of participants	1,394	3,431	2,878		
No. of incident MAFLD	192	484	364		
Adjusted model ^e	Reference	0.94 (0.82, 1.08)	0.71 (0.58, 0.87)	< 0.01	
	Sleep pattern score	≥ 4 and/or vegetable pattern	score≥median value		
	Neither	Either	Both		
No. of participants	1,668	3,813	2,222		
No. of incident MAFLD	241	504	295		
Adjusted model ^e	Reference	0.85 (0.73, 0.99)	0.75 (0.63, 0.90)	< 0.01	
Age < 40 years			. ,		
-	Sleep pattern score ≥ 4	4 and/or animal foods patter	rn score < median value		

	Neither	Either	Both		< 0.01
No. of participants	2,231	3,949	2,315		
No. of incident MAFLD	521	720	318		
Adjusted model ^e	Reference	0.88 (0.79, 0.99)	0.73 (0.63, 0.84)	< 0.0001	
-	Sleep pattern score ≥	≥ 4 and/or vegetable pattern	n score≥median value		
	Neither	Either	Both		0.04
No. of participants	1,980	4,135	2,380		
No. of incident MAFLD	418	745	396		
Adjusted model ^e	Reference	0.89 (0.78, 1.00)	0.78 (0.68, 0.91)	< 0.01	
Age≥40 years					
	Sleep pattern score ≥ 2	4 and/or animal foods patte	rn score < median value		
	Neither	Either	Both		
No. of participants	937	2,221	2,034		
No. of incident MAFLD	307	616	495		
Adjusted model ^e	Reference	0.91 (0.79, 1.04)	0.85 (0.73, 0.98)	0.03	
	Sleep pattern score ≥	4 and/or vegetable pattern	n score≥median value		
	Neither	Either	Both		
No. of participants	1,079	2,479	1,634		
No. of incident MAFLD	326	650	442		
Adjusted model ^e	Reference	0.91 (0.79, 1.04)	0.90 (0.77, 1.06)	0.23	
BMI < 24					
	Sleep pattern score ≥ 4	4 and/or animal foods patte	rn score < median value		
	Neither	Either	Both		0.03
No. of participants	1,950	3,984	2,892		
No. of incident MAFLD	277	439	264		
Adjusted model ^e	Reference	0.83 (0.71, 0.97)	0.71 (0.59, 0.85)	< 0.001	

Sleep pattern score ≥ 4 and/or vegetable pattern score ≥ median value					
	Neither	Either	Both		0.04
No. of participants	1,937	4,276	2,613		
No. of incident MAFLD	244	464	272		
Adjusted model ^e	Reference	0.85 (0.73, 0.99)	0.75 (0.62, 0.90)	< 0.01	
BMI ≥ 24					
	Sleep pattern score ≥ 4	and/or animal foods patte	rn score < median value		
	Neither	Either	Both		
No. of participants	1,218	2,186	1,457		
No. of incident MAFLD	551	897	549		
Adjusted model ^e	Reference	0.90 (0.81, 1.00)	0.82 (0.73, 0.93)	< 0.01	
	Sleep pattern score ≥	4 and/or vegetable pattern	n score≥median value		
	Neither	Either	Both		
No. of participants	1,122	2,338	1,401		
No. of incident MAFLD	500	931	566		
Adjusted model ^e	Reference	0.90 (0.80, 1.00)	0.86 (0.76, 0.98)	0.03	

^a MAFLD, metabolic dysfunction-associated alcoholic fatty liver disease; BMI, body mass index.

^b *P* for trend was calculated using Cox proportional hazard models by coding groups as a continuous variable.

^c *P* for interaction was calculated using the cross-product terms of stratification variables and groups based on the fully adjusted Cox proportional hazard regression model.

^d Hazard ratio (95% confidence interval) (all such values).

^eModel 2 was adjusted for age, sex, BMI, educational level, employment status, household income, smoking status, drinking status, hypertension, dyslipidemia, diabetes, physical activity, family history of diseases (cardiovascular disease, hypertension, and diabetes) and energy intake (excluding the stratification variable).

Table S4. The joint effect of baseline healthy sleep and dietary pattern on the risk of MAFLD (n = 12,705) (incident MAFLD in the first year during the follow-up were excluded)^a

	Sleep and dietary patterns				
	Sleep pattern score \geq 4 and/or animal foods pattern score < median value				
	Neither	Either	Both		
No. of participants	2,831	5,727	4,147		
No. of incident MAFLD	529	899	567		
Adjusted model 2 ^d	Reference	0.89 (0.80, 0.99) °	0.80 (0.71, 0.91)	< 0.001	
	Sleep pattern score \geq 4 and/or vegetable pattern score \geq median value				
	Neither	Either	Both		
No. of participants	2,782	6,176	3,747		
No. of incident MAFLD	481	937	577		
Adjusted model 2 ^e	Reference	0.90 (0.81, 1.01)	0.85 (0.75, 0.97)	0.02	

^a MAFLD, metabolic dysfunction-associated alcoholic fatty liver disease; BMI, body mass index.

^b *P* for trend was calculated using Cox proportional hazard models by coding groups as a continuous variable.

^c Hazard ratio (95% confidence interval) (all such values).

^d Adjusted for age, sex, BMI, educational level, employment status, household income, smoking status, drinking status, hypertension, dyslipidemia, diabetes, physical activity, family history of diseases (cardiovascular disease, hypertension, and diabetes) and energy intake.

Table S5. The joint effect of baseline healthy sleep and dietary pattern on the risk of MAFLD (n = 13,590) (participants with autoimmune liver disease, chronic hepatitis B or C, or liver surgery were excluded) ^a

	Sleep and dietary patterns				
	Sleep pattern score \geq 4 and/or animal foods pattern score < median value				
	Neither	Either	Both		
No. of participants	3,140	6,110	4,340		
No. of incident MAFLD	815	1,325	803		
Adjusted model 2 ^d	Reference	0.89 (0.81, 0.97) °	0.79 (0.71, 0.87)	< 0.0001	
	Sleep pattern score \geq 4 and/or vegetable pattern score \geq median value				
	Neither	Either	Both		
No. of participants	3,034	6,567	3,989		
No. of incident MAFLD	736	1,377	830		
Adjusted model 2 e	Reference	0.88 (0.81, 0.97)	0.83 (0.75, 0.93)	< 0.01	

^a MAFLD, metabolic dysfunction-associated alcoholic fatty liver disease; BMI, body mass index.

^b *P* for trend was calculated using Cox proportional hazard models by coding groups as a continuous variable.

^c Hazard ratio (95% confidence interval) (all such values).

^d Adjusted for age, sex, BMI, educational level, employment status, household income, smoking status, drinking status, hypertension, dyslipidemia, diabetes, physical activity, family history of diseases (cardiovascular disease, hypertension, and diabetes) and energy intake.

Table S6. The joint effect of baseline healthy sleep and dietary pattern on the risk of MAFLD (n = 14,219) (participants with self-reported cancer and CVD were included) ^a

	Sleep and dietary patterns				
	Sleep pattern score≥				
	Neither	Either	Both		
No. of participants	3,315	6,415	4,489		
No. of incident MAFLD	860	1,421	859		
Adjusted model 2 ^d	Reference	0.91 (0.83, 0.99) °	0.81 (0.73, 0.89)	< 0.0001	
	Sleep pattern score \geq 4 and/or vegetable pattern score \geq median value				
	Neither	Either	Both		
No. of participants	3,170	6,883	4,166		
No. of incident MAFLD	774	1,477	889		
Adjusted model 2 ^e	Reference	0.90 (0.82, 0.98)	0.84 (0.76, 0.94)	< 0.01	

^a MAFLD, metabolic dysfunction-associated alcoholic fatty liver disease; BMI, body mass index.

^b *P* for trend was calculated using Cox proportional hazard models by coding groups as a continuous variable.

^c Hazard ratio (95% confidence interval) (all such values).

^d Adjusted for age, sex, BMI, educational level, employment status, household income, smoking status, drinking status, hypertension, dyslipidemia, diabetes, physical activity, family history of diseases (cardiovascular disease, hypertension, and diabetes) and energy intake.