Supplementary table 1. The four types of social isolation question and the scoring criteria for the composite social isolation score.

Items [^]	Questions	Answers	Scoring		
			Score of 0 if:	Score of 1 if:	Score of 2 if
Face-to-face contact	How many people do you spend time	"≥3people", "< 3 people"	≥ 3 people	< 3 people	Live alone
with co-inhabitants	with on a regular basis (at least once a	and "Live alone			
	month; do not include phone/mail				
	conversations; excluding the workplace;				
	including family)?				
Face-to-face contact	How often do you see any of your	"≥1 time/month", "< 1	≥ 1 time	< 1	No such
with non-co-	friends or relatives (do not include	time/month" and "No	/month	time/month	contact
inhabitants	phone/mail conversations; excluding	such contact"			
	those who lived together)?				
Non-face-to-face	Do you have any relatives or friends you	"≥1 time/month", "< 1	≥ 1 time	< 1	No such
contact (by	don't often see but keep in contact with	time/month", and "No	/month	time/month	contact
telephone/mail)	by phone or letter? How often do you	such contact"			
	contact them?				
Club/organization	How often do you join in activities of the	"≥1 time/month" and "<	≥ 1 time	< 1	NA
contact	GHHARE or other organizations?	1 time/month"	/month	time/month	
Composite score: sum			0	~7	
of scores					

Supplementary table 2. The Chinese version of four types of social isolation question and the scoring criteria for the composite social isolation score.

类型	问题	回答	得分		
			0分:	1分:	2分
与同住者面对面	与您经常交往的人有多少个?(至少每	"不少于3人","少	不少于3人	少于3人	独居
接触	月一次;不包括电话交谈;不包括工作	于 3 人"和"独居"			
	场所,但包括家人)				
与非共同居住者	与您的朋友、亲戚见面的频率(不包	"至少每月一次",	至少每月一	少于每月一	没有接触
面对面接触	括与您同住的人)	"少于每月一次"和	次	次	
		"没有接触"			
非面对面接触	您是否有一些朋友或亲戚,虽然没经	"至少每月一次",	至少每月一	少于每月一	没有接触
(通过电话/邮	常见面,但通过电话和信件保持联系?	"少于每月一次"和	次	次	
件)	如果是, 您与他们联系的频率是?	"没有接触"			
俱乐部/组织的接	您是否有加入团体或协会?如果有,您	"至少每月一次"和	至少每月一	少于每月一	
触	参加他们活动的频率?	"少于每月一次"	次	次	
总分:			()~7	

Supplementary table 3. Association of hearing loss with depressive symptoms (GDS-15 score ≥8)

Hearing	Depressive symptoms (GDS-15 scores≥8), OR (95% CI)				
status	Number (%	Crude model	Model 1	Model 2	Model 3
	cases)				
Good	2256 (2.53)	Ref (1.00)	Ref (1.00)	Ref (1.00)	Ref (1.00)
Fair	6094 (4.64)	1.88 (1.41,	1.74 (1.30,	1.57 (1.17,	1.54 (1.15,
		2.51)***	2.34)***	2.11)**	2.08)**
Poor	612 (7.35)	3.06 (2.05,	2.40 (1.58,	1.78 (1.16,	1.70 (1.10,
		4.58)***	3.65)***	2.73)**	2.62)*

Ref=reference; OR=odds ratio; CI=confidence interval; GDS-15=the 15-item Geriatric Depression Scale

Model 1: adjusted for age, sex, income, education, occupation, smoking, alcohol use

Model 2: additionally adjusted for self-rated health, comorbidities

Model 3: additionally adjusted for social isolation

Supplementary table 4. Association of hearing loss with depressive symptoms after excluding participants with hearing aids (n=20)

Hearing	Depressive symptoms, OR (95% CI)			
status	Crude model	Model 1	Model 2	
Good	Ref (1.00)	Ref (1.00)	Ref (1.00)	
Fair	1.90 (1.42, 2.55)***	1.77 (1.32, 2.38)***	1.60 (1.19, 2.16)**	
Poor	3.21 (2.14, 4.80)***	2.52 (1.65, 3.84)***	1.88 (1.22, 2.89)**	

Ref=reference; OR=odds ratio; CI=confidence interval

Model 1: adjusted for age, sex, income, education, occupation, smoking, alcohol use

Model 2: additionally adjusted for self-rated health, comorbidities

^{**}P<0.05

^{**}P<0.01

^{***}P<0.001

^{**}P<0.01

^{***}P<0.001