Appendix I STROBE Statement—Checklist of items that should be included in reports of cohort studies

Item

	No	Recommendation	
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	
		(b) Provide in the abstract an informative and balanced summary of what was done and	
		what was found	
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	
Objectives	3	State specific objectives, including any prespecified hypotheses	
Methods			
Study design	4	Present key elements of study design early in the paper	
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment,	
		exposure, follow-up, and data collection	
Participants	6	(a) Give the eligibility criteria, and the sources and 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, potential confounders, and effect	
		modifiers. Give diagnostic criteria, if applicable	
Data sources/	8*	For each variable of interest, give sources of data and details of methods of assessment	
measurement		(measurement). Describe comparability of assessment methods if there is more than one	
		group	
Bias	9	Describe any efforts to address potential sources of bias	
Study size	10	Explain how the study size was arrived at	
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe	

		which groupings were chosen and why
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding
		(b) Describe any methods used to examine subgroups and interactions
		(c) Explain how missing data were addressed
		(d) If applicable, explain how loss to follow-up was addressed
		(\underline{e}) Describe any sensitivity analyses
Results		
Participants	13*	(a) Report numbers of individuals at each stage of study—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
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and
		information on exposures and potential confounders
		(b) Indicate number of participants with missing data for each variable of interest
		(c) Summarise follow-up time (eg, average and total amount)
Outcome data	15*	Report numbers of outcome events or summary measures 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
		(b) Report category boundaries when continuous variables were categorized
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a
		meaningful time period
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity
		analyses

Discussion

Key results	18	Summarise key results with reference to study objectives	
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	
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations,	
		multiplicity of analyses, results from similar studies, and other relevant evidence	
Generalisability	21	Discuss the generalisability (external validity) of the study results	
Other information			
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	

^{*}Give information separately for exposed and unexposed groups.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLOS Medicine at http://www.plosmedicine.org/, Annals of Internal Medicine at http://www.annals.org/, and Epidemiology at http://www.epidem.com/). Information on the STROBE Initiative is available at http://www.strobe-statement.org.

Appendix II Five types of surgeries

Category number	r Medical Procedure Name	Billing code
K046-00	Open reduction of fracture (thigh)	150019210
K073-00	Open reduction of intra-articular fracture (hip)	150042710
K073-02	Arthroscopic open reduction of intra-articular fracture (hip)	150353310
K081-00	Artificial femoral head replacement (hip)	150049510
K082-00	Total hip replacement (hip)	150050410

These types of surgeries were identified based on a single national list of official medical fees based on standard disease codes or medical procedure codes in the Ministry of Health, Labour and Welfare. The list can refer to the website:

https://shinryohoshu.mhlw.go.jp/shinryohoshu/paMenu/doPaDetailSpNext&100

Appendix III

1. Quantile and multiple linear regression R code

1.1 Data preprocessing R code

```
```{r setup}
options(knitr.kable.NA = ", digits = 3)
knitr::opts chunk$set(warning = FALSE)
setwd(dirname(rstudioapi::getActiveDocumentContext()[["path"]]))
getwd()
rm(list=ls())
library(kableExtra)
library(knitr)
library(multcomp)
dat=read.csv('分位数 LOS six months after.csv',fileEncoding = 'GBK')
colnames(dat)[14]='y'
dat[,2:13] = scale(dat[,2:13])
dat[,14] = log(1+dat[,14])
star=function(x)
 if(x \le 0.001) \{ return('***') \}
 else if(x \le 0.01) \{ return('**') \}
 else if(x <= 0.05) \{ return('*.') \}
 }else{return(")}
}
tau=c(0.25,0.5,0.75,0.9)
library(quantreg)
```

#### 1.2 R code of constructing quantile regression analysis model

```
```{r warning=FALSE}
dat1=dat
dat1$Sex=as.factor(dat1$Sex)
main=c('Sex',"Age","Antidementia prescriptions",'LOS before','Outpatient service before',
        'Anti-osteoporosis agents before', 'Antibacterial agents before',
        'Antihypertensive agents before', 'Diabetes mellitus agents before',
        'Constipation agents before', 'Indwelling urinary catheter before',
        'Drip injections before', 'Severe pressure ulcer treatments before'
)
plist=array(NA,c(length(tau),length(main),7))
Scheffe Sig <- matrix(",length(main)+1,length(tau))
k=1
for(ttt in tau){
  rq1=rq(y\sim.,data=dat1,tau=ttt)
  s=summary(rq1,se = 'iid')
  coefficients iid <- s$coefficients
  alpha <- 0.05
  z critical <- qnorm(1 - alpha/2)
  lower ci <- coefficients iid[-1, 1] - z critical * coefficients iid[-1, 2]
  upper ci <- coefficients iid[-1, 1] + z critical * coefficients iid[-1, 2]
  plist[k,c(1,4,5)] = coefficients iid[-1,c(1,2,4)]
  plist[k,,2]=lower ci
  plist[k,,3]=upper ci
  plist[k,6]=p.adjust(plist[k,5], method = "holm")
  plist[k,7]=p.adjust(plist[k,5], method = "BH")
  k=k+1
}
```

1.3 R code of constructing linear regression analysis model

```
```{r}
 lm=lm(y\sim.,data=dat1)
 summary lm=summary(lm)
 conf int <- summary lm$coefficients[1, "Pr(>|t|)"]
 conf level <- 0.95 # 置信水平, 默认为 95%
 t critical \leftarrow qt(1 - conf level, df = summary lm$df[2])
 conf interval <- c(
 summary lm$coefficients[1, "Estimate"] - t critical * summary lm$coefficients[1, "Std.
Error"],
 summary lm$coefficients[1, "Estimate"] + t critical * summary lm$coefficients[1, "Std.
Error"]
)
 co=summary lm$coefficients
 co=cbind(co[,1],confint(lm),co[,-1])
 co=data.frame(co,Sig=sapply(co[,'Pr(>|t|)'], star));
 co\p holm <- c(0,p.adjust(co\pr...t..[-1], method = "holm"))
 co\sig holm=sapply(co\p holm, star)
 co\p bh <- c(0,p.adjust(co\pr...t..[-1], method = "BH"))
 co\sig bh=sapply(co\p bh, star)
 kable(co)%>%kable styling(full width=F,position='left')
```

#### 1.4 Result output R code

```
'``{r warning=FALSE}
i=1

table=plist[,i,]
rownames(table)=c(0.25,0.5,0.75,0.9)
colnames(table) = c('value','2.5%','97.5%','Std. Error','p-value',"p_holm","p_bh")
```

```
table=data.frame(table)
table$Sig=sapply(table[,'p.value'],star)
table$sig holm=sapply(table$p holm, star)
table$sig bh=sapply(table$p bh, star)
kable(table,caption = main[i])%>%kable styling(full width=F,position='left')
i=i+1
table=plist[,i,]
rownames(table)=c(0.25,0.5,0.75,0.9)
colnames(table) = c('value', '2.5%', '97.5%', 'Std. Error', 'p-value', "p holm", "p bh")
table=data.frame(table)
table$Sig=sapply(table[,'p.value'],star)
table$sig holm=sapply(table$p holm, star)
table$sig bh=sapply(table$p bh, star)
kable(table,caption = main[i])%>%kable styling(full width=F,position='left')
i=i+1
table=plist[,i,]
rownames(table)=c(0.25,0.5,0.75,0.9)
colnames(table) = c('value', '2.5%', '97.5%', 'Std. Error', 'p-value', "p holm", "p bh")
table=data.frame(table)
table$Sig=sapply(table[,'p.value'],star)
table$sig holm=sapply(table$p holm, star)
table$sig bh=sapply(table$p bh, star)
kable(table,caption = main[i])%>%kable styling(full width=F,position='left')
i=i+1
table=plist[,i,]
rownames(table)=c(0.25,0.5,0.75,0.9)
colnames(table) = c('value','2.5%','97.5%','Std. Error','p-value',"p holm","p bh")
table=data.frame(table)
table$Sig=sapply(table[,'p.value'],star)
```

```
table$sig holm=sapply(table$p holm, star)
table$sig bh=sapply(table$p bh, star)
kable(table,caption = main[i])%>%kable styling(full width=F,position='left')
i=i+1
table=plist[,i,]
rownames(table)=c(0.25,0.5,0.75,0.9)
colnames(table) = c('value','2.5%','97.5%','Std. Error','p-value',"p holm","p bh")
table=data.frame(table)
table\Sig=sapply(table[,'p.value'],star)
table\sig holm=sapply(table\p holm, star)
table$sig bh=sapply(table$p bh, star)
kable(table,caption = main[i])%>%kable styling(full width=F,position='left')
i=i+1
table=plist[,i,]
rownames(table)=c(0.25,0.5,0.75,0.9)
colnames(table) = c('value','2.5%','97.5%','Std. Error','p-value',"p holm","p bh")
table=data.frame(table)
table\Sig=sapply(table[,'p.value'],star)
table$sig holm=sapply(table$p holm, star)
table$sig bh=sapply(table$p bh, star)
kable(table,caption = main[i])%>%kable styling(full width=F,position='left')
i=i+1
table=plist[,i,]
rownames(table)=c(0.25,0.5,0.75,0.9)
colnames(table) = c('value', '2.5%', '97.5%', 'Std. Error', 'p-value', "p holm", "p bh")
table=data.frame(table)
table\Sig=sapply(table[,'p.value'],star)
table\sig holm=sapply(table\partial holm, star)
table$sig bh=sapply(table$p bh, star)
```

```
kable(table,caption = main[i])%>%kable styling(full width=F,position='left')
i=i+1
table=plist[,i,]
rownames(table)=c(0.25,0.5,0.75,0.9)
colnames(table) = c('value', '2.5%', '97.5%', 'Std. Error', 'p-value', "p holm", "p bh")
table=data.frame(table)
table$Sig=sapply(table[,'p.value'],star)
table$sig holm=sapply(table$p holm, star)
table\sig bh=sapply(table\p bh, star)
kable(table,caption = main[i])%>%kable styling(full width=F,position='left')
i=i+1
table=plist[,i,]
rownames(table)=c(0.25,0.5,0.75,0.9)
colnames(table) = c('value', '2.5%', '97.5%', 'Std. Error', 'p-value', "p holm", "p bh")
table=data.frame(table)
table$Sig=sapply(table[,'p.value'],star)
table\sig holm=sapply(table\partial holm, star)
table\sig bh=sapply(table\p bh, star)
kable(table,caption = main[i])%>%kable styling(full width=F,position='left')
i=i+1
table=plist[,i,]
rownames(table)=c(0.25,0.5,0.75,0.9)
colnames(table) = c('value','2.5%','97.5%','Std. Error','p-value',"p holm","p bh")
table=data.frame(table)
table$Sig=sapply(table[,'p.value'],star)
table$sig holm=sapply(table$p holm, star)
table$sig bh=sapply(table$p bh, star)
kable(table,caption = main[i])%>%kable styling(full width=F,position='left')
i=i+1
```

```
table=plist[,i,]
rownames(table)=c(0.25,0.5,0.75,0.9)
colnames(table) = c('value', '2.5%', '97.5%', 'Std. Error', 'p-value', "p holm", "p bh")
table=data.frame(table)
table$Sig=sapply(table[,'p.value'],star)
table$sig holm=sapply(table$p holm, star)
table\sig bh=sapply(table\p bh, star)
kable(table,caption = main[i])%>%kable styling(full width=F,position='left')
i=i+1
table=plist[,i,]
rownames(table)=c(0.25,0.5,0.75,0.9)
colnames(table) = c('value','2.5%','97.5%','Std. Error','p-value',"p_holm","p_bh")
table=data.frame(table)
table\Sig=sapply(table[,'p.value'],star)
table$sig holm=sapply(table$p holm, star)
table\sig bh=sapply(table\p bh, star)
kable(table,caption = main[i])%>%kable styling(full width=F,position='left')
i=i+1
table=plist[,i,]
rownames(table)=c(0.25,0.5,0.75,0.9)
colnames(table) = c('value', '2.5%', '97.5%', 'Std. Error', 'p-value', "p holm", "p bh")
table=data.frame(table)
table$Sig=sapply(table[,'p.value'],star)
table$sig holm=sapply(table$p holm, star)
table$sig bh=sapply(table$p bh, star)
kable(table,caption = main[i])%>%kable styling(full_width=F,position='left')
i=i+1
٠.,
```

#### 2. Ordinal regression R code

#### 2.1 Data preprocessing R code

```
```{r setup}
options(knitr.kable.NA = ", digits = 3)
knitr::opts chunk$set(warning = FALSE)
setwd(dirname(rstudioapi::getActiveDocumentContext()[["path"]]))
getwd()
rm(list=ls())
library(kableExtra)
library(knitr)
dat=read.csv('序数 20241001.csv',fileEncoding = 'GBK')
young id=which(dat$Age<=80&dat$Age>=65)
mid id=which(dat$Age<=90&dat$Age>=81)
old id=which(dat$Age>=91)
dat$Sex=as.factor(dat$Sex)
dat[,2:13] = scale(dat[,2:13])
star=function(x)
  if(x \le 0.001) \{ return('***') \}
  else if(x <= 0.01) \{return('**')\}
  else if(x <= 0.05) \{ return('*.') \}
  }else{return(")}
```

2.2 R code of constructing ordinal regression analysis model

```
j=18
r=foreach(i=j:26,.errorhandling="pass",.packages = c('MASS','brant')) %dopar% {
    dat_polr=dat[,c(1:13,i)]
    g0=which(dat_polr[,14]==0)
```

```
g1=which(dat polr[,14]<=max(dat polr[,14])/2&dat polr[,14]>0)
g2=which(dat polr[,14]>max(dat polr[,14])/2)
dat polr[g0,14]=0
dat polr[g1,14]=1
dat polr[g2,14]=2
dat polr[,14]=as.factor(dat polr[,14])
colnames(dat polr)[14]='Y'
if(i=21||i=27){dat polr=dat polr[,-13]}
po=polr(Y\sim., data = dat polr)
br=brant(po)
if(br[1,3]<0.05){
  while(br[1,3] < 0.05){
  dat polr=dat polr[,-which.min(br[-1,3])]
  po=polr(Y\sim., data = dat polr, Hess = T)
  br=brant(po)
  }
if(br[1,3] >= 0.05){
     ctable <- coef(summary(po))
     p <- pnorm(abs(ctable[, "t value"]), lower.tail = FALSE) * 2
     ctable <- cbind(ctable, "p value" = p)
     conf=confint(po)
     ctable=data.frame(ctable, 'star'=sapply(ctable[,4], star), rbind(conf, c(0,0), c(0,0)))
     ctable[,-5]=round(ctable[,-5],5)
```

```
po0=polr(Y\sim 1, data = dat polr)
       model p=1-pchisq(po0$deviance-po$deviance,df=po0$df.residual-po$df.residual)
     }
    list(round(br,5),ctable,round(model p,5))}
```{r polr2, include=FALSE}
for(i in c(25)){
 dat polr=dat[,c(1:13,i)]
 g0=which(dat polr[,14]==0)
 g1=which(dat polr[,14]<=max(dat polr[,14])/2&dat polr[,14]>0)
 g2=which(dat polr[,14]>max(dat_polr[,14])/2)
 dat_polr[g0,14]=0
 dat polr[g1,14]=1
 dat polr[g2,14]=2
 dat polr[,14]=as.factor(dat polr[,14])
 colnames(dat polr)[14]='Y'
 if(i==21){dat polr=dat polr[,-13]}
 po=polr(Y\sim., data = dat polr)
 br=brant(po)
 if(br[1,3]<0.05){
 while (br[1,3]<0.05)
 dat polr=dat polr[,-which.min(br[-1,3])]
 po=polr(Y\sim., data = dat polr, Hess = T)
 br=brant(po)
 }
 }
```

```
if(br[1,3] >= 0.05){
 ctable <- coef(summary(po))
 p <- pnorm(abs(ctable[, "t value"]), lower.tail = FALSE) * 2
 ctable <- cbind(ctable, "p value" = p)
 conf=confint(po)
 ctable=data.frame(ctable, 'Sig'=sapply(ctable[,4],star),rbind(conf,c(0,0),c(0,0)))
 ctable[,-5]=round(ctable[,-5],5)
 po0=polr(Y\sim 1, data = dat polr)
 model p=1-pchisq(po0$deviance-po$deviance,df=po0$df.residual-po$df.residual)
 }
 r[[i-17]]=list(round(br,5),ctable,round(model p,5),po0)}
 i=17
 ...
2.3 Result output R code
 ##
    ```{r}
    i=i+1
    co=r[[i-17]][[1]];
                                 co=data.frame(co,Sig=sapply(co[,'probability'],
                                                                                            star));
kable(co)%>%kable styling(full width=F,position='left');
     ##
    ```{r}
 table=r[[i-17]][[2]]
```

coefficients iid=as.data.frame(table)

```
coefficients_iid=coefficients_iid[,c(1,2,3,6,7,4,5)]

l=nrow(coefficients_iid)-2

coefficients_iid$p_holm <- c(p.adjust(coefficients_iid$p.value[1:1], method = "holm"),0,0)

coefficients_iid$p_holm=sapply(coefficients_iid$p_holm, star)

coefficients_iid$p_bh <- c(p.adjust(coefficients_iid$p.value[1:1], method = "BH"),0,0)

coefficients_iid$p_bh = sapply(coefficients_iid$p_bh, star)

kable(coefficients_iid)%>%kable_styling(full_width=F,position='left')

bar=table[1:(nrow(table)-2),1]

par(las=1,xpd=T)

barplot(bar,width=20,horiz=T,cex.names=0.7,names.arg

=substring(rownames(table)[1:length(bar)],1,10))

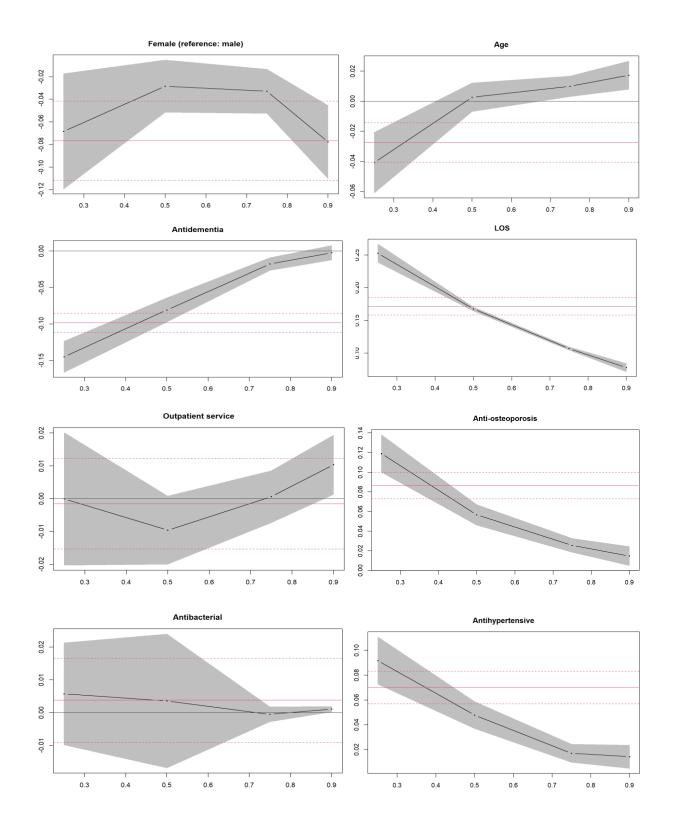
""

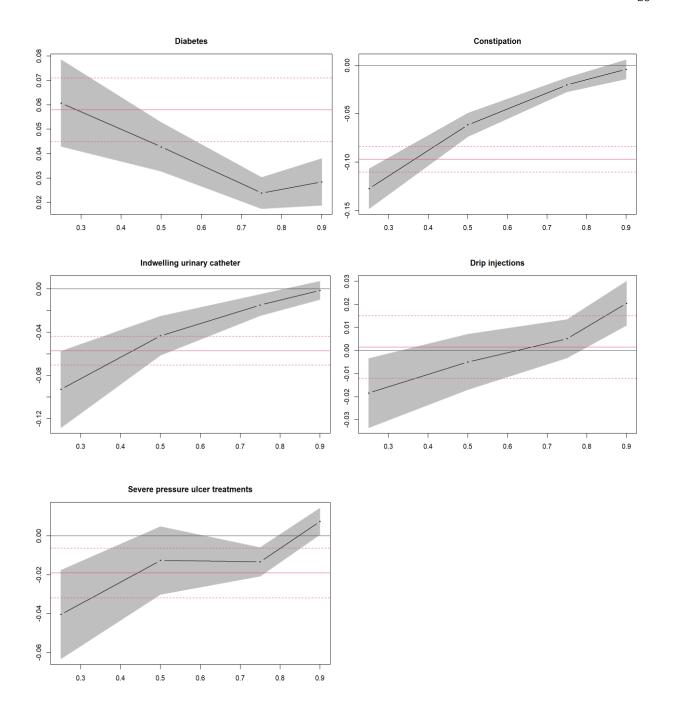
##

""
{r}

r[[i-17]][[3]]
```

Appendix IV Figure 1 Preoperative factors associated with LOS within first postoperative half-year in Linear regressions and the regressions for each quantile





Note: The x-axis represents each percentile point of the dependent variable (LOS), and the results for each independent variable are shown starting from the 25th percentile (0.25). The solid red line represents the standardized regression coefficient or dummy variable's regression coefficient for multiple linear regressions; red dashed lines show their 95% CIs. The black lines represent the standardized regression coefficient or dummy variable's regression coefficient for quantile regressions, while gray areas indicate 95% CIs. LOS: Preoperative one-year LOS (days). Outpatient service: Preoperative one-year days of outpatient utilization. Antidementia: Preoperative one-year number of months with physician orders for antidementia prescriptions. Anti-osteoporosis:

Preoperative one-year number of months with physician orders for anti-osteoporosis prescriptions. Antibacterial: Preoperative one-year number of months with physician orders for antibacterial agents. Antihypertensive: Preoperative one-year number of months with physician orders for agents for diabetes mellitus. Constipation: Preoperative one-year number of months with physician orders for constipation prescriptions. Indwelling urinary catheter: Preoperative one-year number of months with physician orders for indwelling urinary catheters. Drip injections: Preoperative one-year number of months with physician orders for drip injections. Severe pressure ulcer treatments: Preoperative one-year number of months with physician orders for severe pressure ulcer treatments.

# Appendix V Preferred reporting items for systematic reviews and meta-analyses extension for scoping reviews checklist

	Tot scoping reviews enceknst				
SECTION	ITEM	PRISMA-ScR CHECKLIST ITEM	REPORTED ON PAGE #		
TITLE					
Title	1	Identify the report as a scoping review.	1		
ABSTRACT					
		Provide a structured summary that			
		includes (as applicable): background,			
Structured	2	objectives, eligibility criteria, sources of	1		
summary	2	evidence, charting methods, results, and	1		
		conclusions that relate to the review			
		questions and objectives.			
INTRODUCTION	I				
		Describe the rationale for the review in the			
Rationale	3	context of what is already known. Explain	2-3		
Rationale	3	why the review questions/objectives lend	2-3		
		themselves to a scoping review approach.			
		Provide an explicit statement of the			
		questions and objectives being addressed			
		with reference to their key elements (e.g.,			
Objectives	4	population or participants, concepts, and	4		
		context) or other relevant key elements			
		used to conceptualize the review questions			
		and/or objectives.			
METHODS					

CE CETON	VOICE (		REPORTED ON
SECTION	ITEM	PRISMA-ScR CHECKLIST ITEM	PAGE #
Protocol and registration	5	Indicate whether a review protocol exists; state if and where it can be accessed (e.g., a Web address); and if available, provide registration information, including the registration number.	6
Eligibility criteria	6	Specify characteristics of the sources of evidence used as eligibility criteria (e.g., years considered, language, and publication status), and provide a rationale.	4-6
Information sources*	7	Describe all information sources in the search (e.g., databases with dates of coverage and contact with authors to identify additional sources), as well as the date the most recent search was executed.	6
Search	8	Present the full electronic search strategy for at least 1 database, including any limits used, such that it could be repeated.	43
Selection of sources of evidence†	9	State the process for selecting sources of evidence (i.e., screening and eligibility) included in the scoping review.	7
Data charting process‡	10	Describe the methods of charting data from the included sources of evidence (e.g., calibrated forms or forms that have been tested by the team before their use, and whether data charting was done	7-8

SECTION	ITEM	PRISMA-ScR CHECKLIST ITEM	REPORTED ON
SECTION		TRISMA-SCR CHECKLIST TIEM	PAGE#
		independently or in duplicate) and any	
		processes for obtaining and confirming	
		data from investigators.	
		List and define all variables for which data	
Data items	11	were sought and any assumptions and	8
		simplifications made.	
Critical		If done, provide a rationale for conducting	
appraisal of		a critical appraisal of included sources of	
individual	12	evidence; describe the methods used and	Click here to enter
sources of		how this information was used in any data	text.
evidence§		synthesis (if appropriate).	
Synthesis of	12	Describe the methods of handling and	0
results	13	summarizing the data that were charted.	8
RESULTS			
		Give numbers of sources of evidence	
Selection of		screened, assessed for eligibility, and	
sources of	14	included in the review, with reasons for	38
evidence		exclusions at each stage, ideally using a	
		flow diagram.	
Characteristics		For each source of evidence, present	
of sources of	15	characteristics for which data were charted	29-31
evidence		and provide the citations.	
Cuisi1		If done, present data on critical appraisal	
Critical	16	of included sources of evidence (see item	
appraisal within		12).	

SECTION	ITEM	PRISMA-ScR CHECKLIST ITEM	REPORTED ON PAGE #
sources of			
evidence			
Results of		For each included source of evidence,	
individual	17	present the relevant data that were charted	32-37
sources of	17	that relate to the review questions and	32-31
evidence		objectives.	
Synthesis of		Summarize and/or present the charting	
results	18	results as they relate to the review	8-15
resuits		questions and objectives.	
DISCUSSION			
		Summarize the main results (including an	
Summary of		overview of concepts, themes, and types of	
evidence	19	evidence available), link to the review	15-17
evidence		questions and objectives, and consider the	
		relevance to key groups.	
Limitations	20	Discuss the limitations of the scoping	17-18
Limitations		review process.	
		Provide a general interpretation of the	
Canalysians	21	results with respect to the review questions	10
Conclusions		and objectives, as well as potential	18
		implications and/or next steps.	
FUNDING			
		Describe sources of funding for the	Click have to enter
Funding	22	included sources of evidence, as well as	Click here to enter
		sources of funding for the scoping review.	text.

SECTION	ITEM	PRISMA-ScR CHECKLIST ITEM	REPORTED ON PAGE #
		Describe the role of the funders of the scoping review.	

# **Appendix VI Search strategy**

### 1.MEDLINE (OvidSP)

# Searches

Results

1 exp Dementia/

204,376

2 Cognitive Dysfunction/

35,531

3 (dement\* or alzheimer\* or pick\* or ftd or ftld or "fronto-temporal" or "cognitive impairment" or mci).mp.

387,541

4 or/1-3

414,054

5 Emergency Service, Hospital/

87,007

6 Emergency Medical Services/

48,517

7 Emergency Services, Psychiatric/

2,555

8 emergency.mp.

395,287

9 or/5-8

395,287

10 4 and 9

3,028

2

11 Residential Facilities/ or Assisted Living Facilities/ or Group Homes/ or Homes for the Aged/ 2,531 12 Hospitals, Rehabilitation/ 129 13 ("nursing home\*" or "group home\*" or "home for the aged" or "homes for the aged").mp. 60,042 14 (("skilled nursing" or "long-term" or subacute or hospice or convalescent) adj2 (fascilit\* or home\*)).mp. 4,253 15 ("rehabilitation hospital\*" or "geriatric hospital\*").mp. 4,141 16 or/11-15 73,212 17 10 and 16 259 18 remove duplicates from 17

#### 2. CINAHL (EBSCOhost)

Search ID# Search Terms

"Emergency Medical Services") OR emergency

Results

S1 (MH "Dementia+") OR (MH "Mild Cognitive Impairment") OR (dement\* or alzheimer\* or pick\* or ftd or ftld or "fronto-temporal" or "cognitive impairment" or mci )

154,282

S2 (MH "Emergency Service") OR (MH "Emergency Services, Psychiatric") OR (MH

231,542

S3 S1 AND S2

2,235

S4 (MH "Residential Facilities+") OR ( "nursing home\*" or "group home\*" or "home for the aged" or "homes for the aged" ) OR ( ("skilled nursing" or "long-term" or subacute or hospice or convalescent) n1 (fascilit\* or home\*) ) OR ( "rehabilitation hospital\*" or "geriatric hospital\*" ) 63,688

S5 S3 AND S4

# No. Query Results #15 #8 AND #14 793 #14 #9 OR #10 OR #11 OR #12 OR #13 108226 #13 'rehabilitation hospital\*' OR 'geriatric hospital\*' 28933 #12 ('skilled nursing' OR 'long-term' OR subacute OR hospice OR convalescent) NEAR/2 (fascilit\* OR home\*) 7616 #11 'nursing home'/de 63847 #10 'assisted living facility'/de 3157 #9 'residential home'/de 8240 #8 #4 AND #7 12332 #7 #5 OR #6 888678 #6 emergency 886475 #5 'emergency health service'/exp

3.Embase (embase.com)

#4 #1 OR #2 OR #3

708641

#3 dement\* OR alzheimer\* OR pick\* OR ftd OR ftld OR 'fronto-temporal' OR 'cognitive impairment' OR mci

649148

#2 'mild cognitive impairment'/de

36343

#1 'dementia'/exp

### 4. Cochrane Library (Wiley)

ID Search

Hits

#1 MeSH descriptor: [Dementia] explode all trees

9215

#2 MeSH descriptor: [Cognitive Dysfunction] this term only

2940

#3 (dement\* or alzheimer\* or pick\* or ftd or ftld or "fronto-temporal" or "cognitive impairment" or mci):ti,ab,kw

34755

#4 #1 or #2 or #3

35907

#5 MeSH descriptor: [Emergency Service, Hospital] this term only

3116

#6 MeSH descriptor: [Emergency Medical Services] this term only

1306

#7 MeSH descriptor: [Emergency Services, Psychiatric] this term only

56

#8 emergency:ti,ab,kw

32143

#9 #5 or #6 or #7 or #8

32143

#10 #4 and #9

524

#11 MeSH descriptor: [Residential Facilities] explode all trees

```
#12 MeSH descriptor: [Hospitals, Rehabilitation] this term only

7

#13 ("nursing home*" or "group home*" or "home for the aged" or "homes for the aged"):ti,ab,kw

4740

#14 (("skilled nursing" or "long-term" or subacute or hospice or convalescent) N1 (fascilit* or home*)):ti,ab,kw

5

#15 ("rehabilitation hospital*" or "geriatric hospital*"):ti,ab,kw

945

#16 #11 or #12 or #13 or #14 or #15

6292

#17 #10 and #16

56
```

# 5. JBI (OvidSP)

# Searches

Results

1 (dement\* or alzheimer\* or pick\* or ftd or ftld or "fronto-temporal" or "cognitive impairment" or mci).mp.

844

2 emergency.mp.

1,461

3 1 and 2

183

4 ("nursing home\*" or "group home\*" or "home for the aged" or "homes for the aged").mp.

523

5 (("skilled nursing" or "long-term" or subacute or hospice or convalescent) adj2 (fascilit\* or home\*)).mp.

105

6 ("rehabilitation hospital\*" or "geriatric hospital\*").mp.

45

7 or/4-6

582

8 3 and 7