chapter\_9

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## R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

library(ggm)  
library(dagitty)

##   
## Attaching package: 'dagitty'

## The following object is masked from 'package:ggm':  
##   
## isAcyclic

shrier\_dag <- ggm::DAG(FitnessLevel ~ Coach,  
 TeamMotivation ~ Coach,   
 NeuromuscularFatigue ~ ConnectiveTissueDisorder,   
 TissueWeakness ~ ConnectiveTissueDisorder,  
 IntraGameProprioception ~ ContactSport,  
 PreviousInjury ~ ContactSport,  
 NeuromuscularFatigue ~ FitnessLevel,  
 PreGameProprioception ~ FitnessLevel,  
 ConnectiveTissueDisorder ~ Genetics,  
 FitnessLevel ~ Genetics,  
 NeuromuscularFatigue ~ Genetics,   
 Injury ~ IntraGameProprioception,  
 Injury ~ NeuromuscularFatigue,  
 IntraGameProprioception ~ NeuromuscularFatigue,   
 WarmUpExercises ~ PreGameProprioception,  
 PreviousInjury ~ TeamMotivation,   
 WarmUpExercises ~ TeamMotivation,  
 Injury ~ TissueWeakness,  
 IntraGameProprioception ~ WarmUpExercises)  
ggm::plotGraph(shrier\_dag)

![shrier](data:image/png;base64;base64,)

shrier

ggm::plotGraph(shrier\_dag)

## Load the Shrier model from the Dagitty library

gs <- dagitty::getExample("Shrier")

## List testable implications

x <- dagitty::impliedConditionalIndependencies( gs )  
print(length(x))

## [1] 197

print( x )

## Coch \_||\_ CnTD  
## Coch \_||\_ CntS  
## Coch \_||\_ Gntc  
## Coch \_||\_ Injr | InGP, NrmF, TssW  
## Coch \_||\_ Injr | NrmF, TssW, WrUE  
## Coch \_||\_ Injr | NrmF, PrGP, TmMt, TssW  
## Coch \_||\_ Injr | FtnL, NrmF, TmMt, TssW  
## Coch \_||\_ Injr | CnTD, InGP, NrmF  
## Coch \_||\_ Injr | CnTD, NrmF, WrUE  
## Coch \_||\_ Injr | CnTD, NrmF, PrGP, TmMt  
## Coch \_||\_ Injr | CnTD, FtnL, NrmF, TmMt  
## Coch \_||\_ Injr | FtnL, Gntc, InGP, NrmF  
## Coch \_||\_ Injr | FtnL, Gntc, WrUE  
## Coch \_||\_ Injr | FtnL, Gntc, TmMt  
## Coch \_||\_ InGP | NrmF, WrUE  
## Coch \_||\_ InGP | FtnL, Gntc, WrUE  
## Coch \_||\_ InGP | NrmF, PrGP, TmMt  
## Coch \_||\_ InGP | FtnL, NrmF, TmMt  
## Coch \_||\_ InGP | FtnL, Gntc, TmMt  
## Coch \_||\_ NrmF | FtnL, Gntc  
## Coch \_||\_ PrGP | FtnL  
## Coch \_||\_ PrvI | TmMt  
## Coch \_||\_ TssW  
## Coch \_||\_ WrUE | PrGP, TmMt  
## Coch \_||\_ WrUE | FtnL, TmMt  
## CnTD \_||\_ CntS  
## CnTD \_||\_ FtnL | Gntc  
## CnTD \_||\_ Injr | InGP, NrmF, TssW  
## CnTD \_||\_ Injr | NrmF, TssW, WrUE  
## CnTD \_||\_ Injr | NrmF, PrGP, TmMt, TssW  
## CnTD \_||\_ Injr | Coch, NrmF, PrGP, TssW  
## CnTD \_||\_ Injr | FtnL, NrmF, TmMt, TssW  
## CnTD \_||\_ Injr | Coch, FtnL, NrmF, TssW  
## CnTD \_||\_ Injr | FtnL, Gntc, NrmF, TssW  
## CnTD \_||\_ InGP | NrmF, WrUE  
## CnTD \_||\_ InGP | NrmF, PrGP, TmMt  
## CnTD \_||\_ InGP | Coch, NrmF, PrGP  
## CnTD \_||\_ InGP | FtnL, NrmF, TmMt  
## CnTD \_||\_ InGP | Coch, FtnL, NrmF  
## CnTD \_||\_ InGP | FtnL, Gntc, NrmF  
## CnTD \_||\_ PrGP | FtnL  
## CnTD \_||\_ PrGP | Gntc  
## CnTD \_||\_ PrvI  
## CnTD \_||\_ TmMt  
## CnTD \_||\_ WrUE | PrGP, TmMt  
## CnTD \_||\_ WrUE | Coch, PrGP  
## CnTD \_||\_ WrUE | FtnL, TmMt  
## CnTD \_||\_ WrUE | Coch, FtnL  
## CnTD \_||\_ WrUE | Gntc  
## CntS \_||\_ FtnL  
## CntS \_||\_ Gntc  
## CntS \_||\_ Injr | InGP, NrmF, TssW  
## CntS \_||\_ Injr | CnTD, InGP, NrmF  
## CntS \_||\_ Injr | FtnL, Gntc, InGP, NrmF  
## CntS \_||\_ Injr | Coch, FtnL, InGP, NrmF  
## CntS \_||\_ Injr | FtnL, InGP, NrmF, TmMt  
## CntS \_||\_ Injr | Coch, InGP, NrmF, PrGP  
## CntS \_||\_ Injr | InGP, NrmF, PrGP, TmMt  
## CntS \_||\_ Injr | InGP, NrmF, WrUE  
## CntS \_||\_ NrmF  
## CntS \_||\_ PrGP  
## CntS \_||\_ TmMt  
## CntS \_||\_ TssW  
## CntS \_||\_ WrUE  
## FtnL \_||\_ Injr | InGP, NrmF, TssW  
## FtnL \_||\_ Injr | NrmF, TssW, WrUE  
## FtnL \_||\_ Injr | NrmF, PrGP, TmMt, TssW  
## FtnL \_||\_ Injr | Coch, NrmF, PrGP, TssW  
## FtnL \_||\_ Injr | CnTD, InGP, NrmF  
## FtnL \_||\_ Injr | CnTD, NrmF, WrUE  
## FtnL \_||\_ Injr | CnTD, NrmF, PrGP, TmMt  
## FtnL \_||\_ Injr | Coch, CnTD, NrmF, PrGP  
## FtnL \_||\_ InGP | NrmF, WrUE  
## FtnL \_||\_ InGP | NrmF, PrGP, TmMt  
## FtnL \_||\_ InGP | Coch, NrmF, PrGP  
## FtnL \_||\_ PrvI | TmMt  
## FtnL \_||\_ PrvI | Coch  
## FtnL \_||\_ TmMt | Coch  
## FtnL \_||\_ TssW | CnTD  
## FtnL \_||\_ TssW | Gntc  
## FtnL \_||\_ WrUE | PrGP, TmMt  
## FtnL \_||\_ WrUE | Coch, PrGP  
## Gntc \_||\_ Injr | InGP, NrmF, TssW  
## Gntc \_||\_ Injr | NrmF, TssW, WrUE  
## Gntc \_||\_ Injr | NrmF, PrGP, TmMt, TssW  
## Gntc \_||\_ Injr | Coch, NrmF, PrGP, TssW  
## Gntc \_||\_ Injr | FtnL, NrmF, TmMt, TssW  
## Gntc \_||\_ Injr | Coch, FtnL, NrmF, TssW  
## Gntc \_||\_ Injr | CnTD, InGP, NrmF  
## Gntc \_||\_ Injr | CnTD, NrmF, WrUE  
## Gntc \_||\_ Injr | CnTD, NrmF, PrGP, TmMt  
## Gntc \_||\_ Injr | Coch, CnTD, NrmF, PrGP  
## Gntc \_||\_ Injr | CnTD, FtnL, NrmF, TmMt  
## Gntc \_||\_ Injr | Coch, CnTD, FtnL, NrmF  
## Gntc \_||\_ InGP | NrmF, WrUE  
## Gntc \_||\_ InGP | NrmF, PrGP, TmMt  
## Gntc \_||\_ InGP | Coch, NrmF, PrGP  
## Gntc \_||\_ InGP | FtnL, NrmF, TmMt  
## Gntc \_||\_ InGP | Coch, FtnL, NrmF  
## Gntc \_||\_ PrGP | FtnL  
## Gntc \_||\_ PrvI  
## Gntc \_||\_ TmMt  
## Gntc \_||\_ TssW | CnTD  
## Gntc \_||\_ WrUE | PrGP, TmMt  
## Gntc \_||\_ WrUE | Coch, PrGP  
## Gntc \_||\_ WrUE | FtnL, TmMt  
## Gntc \_||\_ WrUE | Coch, FtnL  
## Injr \_||\_ PrGP | FtnL, TmMt, WrUE  
## Injr \_||\_ PrGP | Coch, FtnL, WrUE  
## Injr \_||\_ PrGP | FtnL, Gntc, WrUE  
## Injr \_||\_ PrGP | CnTD, NrmF, WrUE  
## Injr \_||\_ PrGP | NrmF, TssW, WrUE  
## Injr \_||\_ PrGP | FtnL, InGP, NrmF, TmMt  
## Injr \_||\_ PrGP | Coch, FtnL, InGP, NrmF  
## Injr \_||\_ PrGP | FtnL, Gntc, InGP, NrmF  
## Injr \_||\_ PrGP | CnTD, InGP, NrmF  
## Injr \_||\_ PrGP | InGP, NrmF, TssW  
## Injr \_||\_ PrvI | CntS, TmMt  
## Injr \_||\_ PrvI | Coch, CntS, PrGP, WrUE  
## Injr \_||\_ PrvI | Coch, CntS, FtnL, WrUE  
## Injr \_||\_ PrvI | CntS, FtnL, Gntc, WrUE  
## Injr \_||\_ PrvI | CnTD, CntS, NrmF, WrUE  
## Injr \_||\_ PrvI | CntS, NrmF, TssW, WrUE  
## Injr \_||\_ PrvI | InGP, NrmF, TmMt, WrUE  
## Injr \_||\_ PrvI | InGP, NrmF, PrGP, TmMt  
## Injr \_||\_ PrvI | Coch, InGP, NrmF, PrGP  
## Injr \_||\_ PrvI | FtnL, InGP, NrmF, TmMt  
## Injr \_||\_ PrvI | Coch, FtnL, InGP, NrmF  
## Injr \_||\_ PrvI | FtnL, Gntc, InGP, NrmF  
## Injr \_||\_ PrvI | CnTD, InGP, NrmF  
## Injr \_||\_ PrvI | InGP, NrmF, TssW  
## Injr \_||\_ TmMt | Coch, PrGP, WrUE  
## Injr \_||\_ TmMt | Coch, FtnL, WrUE  
## Injr \_||\_ TmMt | FtnL, Gntc, WrUE  
## Injr \_||\_ TmMt | CnTD, NrmF, WrUE  
## Injr \_||\_ TmMt | NrmF, TssW, WrUE  
## Injr \_||\_ TmMt | Coch, InGP, NrmF, PrGP  
## Injr \_||\_ TmMt | Coch, FtnL, InGP, NrmF  
## Injr \_||\_ TmMt | FtnL, Gntc, InGP, NrmF  
## Injr \_||\_ TmMt | CnTD, InGP, NrmF  
## Injr \_||\_ TmMt | InGP, NrmF, TssW  
## Injr \_||\_ WrUE | InGP, NrmF, PrGP, TmMt  
## Injr \_||\_ WrUE | Coch, InGP, NrmF, PrGP  
## Injr \_||\_ WrUE | FtnL, InGP, NrmF, TmMt  
## Injr \_||\_ WrUE | Coch, FtnL, InGP, NrmF  
## Injr \_||\_ WrUE | FtnL, Gntc, InGP, NrmF  
## Injr \_||\_ WrUE | CnTD, InGP, NrmF  
## Injr \_||\_ WrUE | InGP, NrmF, TssW  
## InGP \_||\_ PrGP | FtnL, TmMt, WrUE  
## InGP \_||\_ PrGP | Coch, FtnL, WrUE  
## InGP \_||\_ PrGP | FtnL, Gntc, WrUE  
## InGP \_||\_ PrGP | NrmF, WrUE  
## InGP \_||\_ PrvI | CntS, TmMt  
## InGP \_||\_ PrvI | Coch, CntS, PrGP, WrUE  
## InGP \_||\_ PrvI | Coch, CntS, FtnL, WrUE  
## InGP \_||\_ PrvI | CntS, FtnL, Gntc, WrUE  
## InGP \_||\_ PrvI | CntS, NrmF, WrUE  
## InGP \_||\_ TmMt | Coch, PrGP, WrUE  
## InGP \_||\_ TmMt | Coch, FtnL, WrUE  
## InGP \_||\_ TmMt | FtnL, Gntc, WrUE  
## InGP \_||\_ TmMt | NrmF, WrUE  
## InGP \_||\_ TssW | CnTD  
## InGP \_||\_ TssW | FtnL, Gntc, NrmF  
## InGP \_||\_ TssW | Coch, FtnL, NrmF  
## InGP \_||\_ TssW | FtnL, NrmF, TmMt  
## InGP \_||\_ TssW | Coch, NrmF, PrGP  
## InGP \_||\_ TssW | NrmF, PrGP, TmMt  
## InGP \_||\_ TssW | NrmF, WrUE  
## NrmF \_||\_ PrGP | FtnL  
## NrmF \_||\_ PrvI | TmMt  
## NrmF \_||\_ PrvI | Coch  
## NrmF \_||\_ PrvI | FtnL, Gntc  
## NrmF \_||\_ TmMt | Coch  
## NrmF \_||\_ TmMt | FtnL, Gntc  
## NrmF \_||\_ TssW | CnTD  
## NrmF \_||\_ WrUE | PrGP, TmMt  
## NrmF \_||\_ WrUE | Coch, PrGP  
## NrmF \_||\_ WrUE | FtnL, TmMt  
## NrmF \_||\_ WrUE | Coch, FtnL  
## NrmF \_||\_ WrUE | FtnL, Gntc  
## PrGP \_||\_ PrvI | TmMt  
## PrGP \_||\_ PrvI | Coch  
## PrGP \_||\_ PrvI | FtnL  
## PrGP \_||\_ TmMt | Coch  
## PrGP \_||\_ TmMt | FtnL  
## PrGP \_||\_ TssW | CnTD  
## PrGP \_||\_ TssW | Gntc  
## PrGP \_||\_ TssW | FtnL  
## PrvI \_||\_ TssW  
## PrvI \_||\_ WrUE | TmMt  
## TmMt \_||\_ TssW  
## TssW \_||\_ WrUE | PrGP, TmMt  
## TssW \_||\_ WrUE | Coch, PrGP  
## TssW \_||\_ WrUE | FtnL, TmMt  
## TssW \_||\_ WrUE | Coch, FtnL  
## TssW \_||\_ WrUE | Gntc  
## TssW \_||\_ WrUE | CnTD

## Exogenous Variables

Getting the exogenous variables for the sports DAG example

dagitty::exogenousVariables(gs)

## [1] "Coach" "ContactSport" "Genetics"

## List minimal adjustment sets for direct causal effect

The code returns adjustment sets for identifying the average causal effect of “WarmUpExercises” on “Injury”

In a structural equation model (Gaussian graphical model), direct effects are simply the path coefficients.

The following code returns only minimal sufficient adjustment sets.

dagitty::adjustmentSets( gs, "WarmUpExercises", "Injury", effect="direct", type = "minimal" )

## { IntraGameProprioception, NeuromuscularFatigue, TissueWeakness }  
## { ConnectiveTissueDisorder, IntraGameProprioception,  
## NeuromuscularFatigue }  
## { FitnessLevel, Genetics, IntraGameProprioception, NeuromuscularFatigue  
## }  
## { Coach, FitnessLevel, IntraGameProprioception, NeuromuscularFatigue }  
## { FitnessLevel, IntraGameProprioception, NeuromuscularFatigue,  
## TeamMotivation }  
## { Coach, IntraGameProprioception, NeuromuscularFatigue,  
## PreGameProprioception }  
## { IntraGameProprioception, NeuromuscularFatigue, PreGameProprioception,  
## TeamMotivation }

## List canonical adjustment sets for total causal effect

The following code returns a single adjustment set that consists of all (possible) ancestors of exposures and outcomes, minus (possible) descendants of nodes on proper causal paths. This canonical adjustment set is always valid if any valid set exists at all.

dagitty::adjustmentSets(gs, "WarmUpExercises", "Injury", effect="total", type = "canonical" )

## { Coach, ConnectiveTissueDisorder, ContactSport, FitnessLevel,  
## Genetics, NeuromuscularFatigue, PreGameProprioception,  
## TeamMotivation, TissueWeakness }

## List minimal adjustment sets for total causal effect

dagitty::adjustmentSets(gs, "WarmUpExercises", "Injury", effect="total", type = "minimal" )

## { NeuromuscularFatigue, TissueWeakness }  
## { ConnectiveTissueDisorder, NeuromuscularFatigue }  
## { FitnessLevel, Genetics }  
## { Coach, FitnessLevel }  
## { FitnessLevel, TeamMotivation }  
## { Coach, PreGameProprioception }  
## { PreGameProprioception, TeamMotivation }

## Counting number of adjustment sets for total causal effect

list <- dagitty::adjustmentSets(gs, "WarmUpExercises", "Injury", effect="total", type = "all" )  
length(list)

## [1] 696

print(list)

## { Coach, FitnessLevel }  
## { Coach, ConnectiveTissueDisorder, FitnessLevel }  
## { Coach, ContactSport, FitnessLevel }  
## { Coach, ConnectiveTissueDisorder, ContactSport, FitnessLevel }  
## { FitnessLevel, Genetics }  
## { Coach, FitnessLevel, Genetics }  
## { ConnectiveTissueDisorder, FitnessLevel, Genetics }  
## { Coach, ConnectiveTissueDisorder, FitnessLevel, Genetics }  
## { ContactSport, FitnessLevel, Genetics }  
## { Coach, ContactSport, FitnessLevel, Genetics }  
## { ConnectiveTissueDisorder, ContactSport, FitnessLevel, Genetics }  
## { Coach, ConnectiveTissueDisorder, ContactSport, FitnessLevel, Genetics  
## }  
## { ConnectiveTissueDisorder, NeuromuscularFatigue }  
## { Coach, ConnectiveTissueDisorder, NeuromuscularFatigue }  
## { ConnectiveTissueDisorder, ContactSport, NeuromuscularFatigue }  
## { Coach, ConnectiveTissueDisorder, ContactSport, NeuromuscularFatigue }  
## { Coach, FitnessLevel, NeuromuscularFatigue }  
## { ConnectiveTissueDisorder, FitnessLevel, NeuromuscularFatigue }  
## { Coach, ConnectiveTissueDisorder, FitnessLevel, NeuromuscularFatigue }  
## { Coach, ContactSport, FitnessLevel, NeuromuscularFatigue }  
## { ConnectiveTissueDisorder, ContactSport, FitnessLevel,  
## NeuromuscularFatigue }  
## { Coach, ConnectiveTissueDisorder, ContactSport, FitnessLevel,  
## NeuromuscularFatigue }  
## { ConnectiveTissueDisorder, Genetics, NeuromuscularFatigue }  
## { Coach, ConnectiveTissueDisorder, Genetics, NeuromuscularFatigue }  
## { ConnectiveTissueDisorder, ContactSport, Genetics,  
## NeuromuscularFatigue }  
## { Coach, ConnectiveTissueDisorder, ContactSport, Genetics,  
## NeuromuscularFatigue }  
## { FitnessLevel, Genetics, NeuromuscularFatigue }  
## { Coach, FitnessLevel, Genetics, NeuromuscularFatigue }  
## { ConnectiveTissueDisorder, FitnessLevel, Genetics,  
## NeuromuscularFatigue }  
## { Coach, ConnectiveTissueDisorder, FitnessLevel, Genetics,  
## NeuromuscularFatigue }  
## { ContactSport, FitnessLevel, Genetics, NeuromuscularFatigue }  
## { Coach, ContactSport, FitnessLevel, Genetics, NeuromuscularFatigue }  
## { ConnectiveTissueDisorder, ContactSport, FitnessLevel, Genetics,  
## NeuromuscularFatigue }  
## { Coach, ConnectiveTissueDisorder, ContactSport, FitnessLevel,  
## Genetics, NeuromuscularFatigue }  
## { Coach, PreGameProprioception }  
## { Coach, ConnectiveTissueDisorder, PreGameProprioception }  
## { Coach, ContactSport, PreGameProprioception }  
## { Coach, ConnectiveTissueDisorder, ContactSport, PreGameProprioception  
## }  
## { Coach, FitnessLevel, PreGameProprioception }  
## { Coach, ConnectiveTissueDisorder, FitnessLevel, PreGameProprioception  
## }  
## { Coach, ContactSport, FitnessLevel, PreGameProprioception }  
## { Coach, ConnectiveTissueDisorder, ContactSport, FitnessLevel,  
## PreGameProprioception }  
## { Coach, Genetics, PreGameProprioception }  
## { Coach, ConnectiveTissueDisorder, Genetics, PreGameProprioception }  
## { Coach, ContactSport, Genetics, PreGameProprioception }  
## { Coach, ConnectiveTissueDisorder, ContactSport, Genetics,  
## PreGameProprioception }  
## { FitnessLevel, Genetics, PreGameProprioception }  
## { Coach, FitnessLevel, Genetics, PreGameProprioception }  
## { ConnectiveTissueDisorder, FitnessLevel, Genetics,  
## PreGameProprioception }  
## { Coach, ConnectiveTissueDisorder, FitnessLevel, Genetics,  
## PreGameProprioception }  
## { ContactSport, FitnessLevel, Genetics, PreGameProprioception }  
## { Coach, ContactSport, FitnessLevel, Genetics, PreGameProprioception }  
## { ConnectiveTissueDisorder, ContactSport, FitnessLevel, Genetics,  
## PreGameProprioception }  
## { Coach, ConnectiveTissueDisorder, ContactSport, FitnessLevel,  
## Genetics, PreGameProprioception }  
## { Coach, NeuromuscularFatigue, PreGameProprioception }  
## { ConnectiveTissueDisorder, NeuromuscularFatigue, PreGameProprioception  
## }  
## { Coach, ConnectiveTissueDisorder, NeuromuscularFatigue,  
## PreGameProprioception }  
## { Coach, ContactSport, NeuromuscularFatigue, PreGameProprioception }  
## { ConnectiveTissueDisorder, ContactSport, NeuromuscularFatigue,  
## PreGameProprioception }  
## { Coach, ConnectiveTissueDisorder, ContactSport, NeuromuscularFatigue,  
## PreGameProprioception }  
## { Coach, FitnessLevel, NeuromuscularFatigue, PreGameProprioception }  
## { ConnectiveTissueDisorder, FitnessLevel, NeuromuscularFatigue,  
## PreGameProprioception }  
## { Coach, ConnectiveTissueDisorder, FitnessLevel, NeuromuscularFatigue,  
## PreGameProprioception }  
## { Coach, ContactSport, FitnessLevel, NeuromuscularFatigue,  
## PreGameProprioception }  
## { ConnectiveTissueDisorder, ContactSport, FitnessLevel,  
## NeuromuscularFatigue, PreGameProprioception }  
## { Coach, ConnectiveTissueDisorder, ContactSport, FitnessLevel,  
## NeuromuscularFatigue, PreGameProprioception }  
## { Coach, Genetics, NeuromuscularFatigue, PreGameProprioception }  
## { ConnectiveTissueDisorder, Genetics, NeuromuscularFatigue,  
## PreGameProprioception }  
## { Coach, ConnectiveTissueDisorder, Genetics, NeuromuscularFatigue,  
## PreGameProprioception }  
## { Coach, ContactSport, Genetics, NeuromuscularFatigue,  
## PreGameProprioception }  
## { ConnectiveTissueDisorder, ContactSport, Genetics,  
## NeuromuscularFatigue, PreGameProprioception }  
## { Coach, ConnectiveTissueDisorder, ContactSport, Genetics,  
## NeuromuscularFatigue, PreGameProprioception }  
## { FitnessLevel, Genetics, NeuromuscularFatigue, PreGameProprioception }  
## { Coach, FitnessLevel, Genetics, NeuromuscularFatigue,  
## PreGameProprioception }  
## { ConnectiveTissueDisorder, FitnessLevel, Genetics,  
## NeuromuscularFatigue, PreGameProprioception }  
## { Coach, ConnectiveTissueDisorder, FitnessLevel, Genetics,  
## NeuromuscularFatigue, PreGameProprioception }  
## { ContactSport, FitnessLevel, Genetics, NeuromuscularFatigue,  
## PreGameProprioception }  
## { Coach, ContactSport, FitnessLevel, Genetics, NeuromuscularFatigue,  
## PreGameProprioception }  
## { ConnectiveTissueDisorder, ContactSport, FitnessLevel, Genetics,  
## NeuromuscularFatigue, PreGameProprioception }  
## { Coach, ConnectiveTissueDisorder, ContactSport, FitnessLevel,  
## Genetics, NeuromuscularFatigue, PreGameProprioception }  
## { Coach, ContactSport, FitnessLevel, PreviousInjury }  
## { Coach, ConnectiveTissueDisorder, ContactSport, FitnessLevel,  
## PreviousInjury }  
## { ContactSport, FitnessLevel, Genetics, PreviousInjury }  
## { Coach, ContactSport, FitnessLevel, Genetics, PreviousInjury }  
## { ConnectiveTissueDisorder, ContactSport, FitnessLevel, Genetics,  
## PreviousInjury }  
## { Coach, ConnectiveTissueDisorder, ContactSport, FitnessLevel,  
## Genetics, PreviousInjury }  
## { ConnectiveTissueDisorder, ContactSport, NeuromuscularFatigue,  
## PreviousInjury }  
## { Coach, ConnectiveTissueDisorder, ContactSport, NeuromuscularFatigue,  
## PreviousInjury }  
## { Coach, ContactSport, FitnessLevel, NeuromuscularFatigue,  
## PreviousInjury }  
## { ConnectiveTissueDisorder, ContactSport, FitnessLevel,  
## NeuromuscularFatigue, PreviousInjury }  
## { Coach, ConnectiveTissueDisorder, ContactSport, FitnessLevel,  
## NeuromuscularFatigue, PreviousInjury }  
## { ConnectiveTissueDisorder, ContactSport, Genetics,  
## NeuromuscularFatigue, PreviousInjury }  
## { Coach, ConnectiveTissueDisorder, ContactSport, Genetics,  
## NeuromuscularFatigue, PreviousInjury }  
## { ContactSport, FitnessLevel, Genetics, NeuromuscularFatigue,  
## PreviousInjury }  
## { Coach, ContactSport, FitnessLevel, Genetics, NeuromuscularFatigue,  
## PreviousInjury }  
## { ConnectiveTissueDisorder, ContactSport, FitnessLevel, Genetics,  
## NeuromuscularFatigue, PreviousInjury }  
## { Coach, ConnectiveTissueDisorder, ContactSport, FitnessLevel,  
## Genetics, NeuromuscularFatigue, PreviousInjury }  
## { Coach, ContactSport, PreGameProprioception, PreviousInjury }  
## { Coach, ConnectiveTissueDisorder, ContactSport, PreGameProprioception,  
## PreviousInjury }  
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## TeamMotivation, TissueWeakness }  
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## Genetics, NeuromuscularFatigue, PreGameProprioception,  
## PreviousInjury, TeamMotivation, TissueWeakness }

## List instrument variables for identifying direct causal effect

dagitty::instrumentalVariables( gs,"WarmUpExercises", "Injury" )

## Coach | NeuromuscularFatigue, TissueWeakness  
## ConnectiveTissueDisorder | NeuromuscularFatigue, TissueWeakness  
## FitnessLevel | NeuromuscularFatigue, TissueWeakness  
## Genetics | NeuromuscularFatigue, TissueWeakness  
## PreGameProprioception | NeuromuscularFatigue, TissueWeakness  
## PreviousInjury | ContactSport, NeuromuscularFatigue, TissueWeakness  
## TeamMotivation | NeuromuscularFatigue, TissueWeakness