

L^AT_EX Preamble

```

\documentclass{article}
\usepackage{graphicx} % Required for inserting images
\usepackage{tikz}
\usepackage[landscape]{geometry}
\usepackage{float}
\usepackage{listings}
\usepackage{caption}
\usepackage{subcaption}

%arrange page numbers
\usepackage{fancyhdr}
\pagestyle{fancy}
\fancyhf{}
\renewcommand{\headrulewidth}{0pt}
\fancyhead[R]{\thepage}

%setup Tikz to draw the graphs
\usetikzlibrary{external}
\tikzexternalize
%load options
\usetikzlibrary{positioning, calc, shapes.geometric, shapes.multipart,
               shapes, arrows.meta, arrows, decorations.markings, external, trees}

%Create custom arrow style:
\tikzstyle{Arrow} = [
thick,
decoration={
markings,
mark=at position 0.9999 with {
\arrow[thick]{latex}}},
shorten >= 3pt, preaction = {decorate}]

```

LaTeX Code for Figure 1:

```
\begin{tikzpicture}
  \node (1) {};
  \node [right =of 1] (2) {\textbf{Heavy Alcohol Use (Exposure)}};
  \node [right =of 2] (3) {};
  \node [right =of 3] (4) {\textbf{Death (Outcome)}};
  \node [left =of 1] (5) {\textbf{SEP}};
  \node [above =of 3] (6) {\textbf{Smoking}};

  \draw[Arrow] (2.east)--(4.west);
  \draw[Arrow] (2) to (6);
  \draw[Arrow] (6) to (4);
  \draw[Arrow] (5) to [out=-25, in=-160] (4);
  \draw[Arrow] (5) to (6);
  \draw[Arrow] (5.east)--(2.west);
\end{tikzpicture}
```

Daggity Code for Figure 1:

```
dag {
  "Heavy Alcohol Use" [exposure,pos="-0.641,0.725"]
  Death [outcome,pos="0.403,0.714"]
  SEP [selected,pos="-1.648,0.714"]
  Smoking [pos="-0.232,-0.073"]
  "Heavy Alcohol Use" -> Death
  "Heavy Alcohol Use" -> Smoking
  SEP -> "Heavy Alcohol Use"
  SEP -> Death [pos="-0.582,1.774"]
  SEP -> Smoking
  Smoking -> Death
}
```

LaTeX Code for Figure 2:

```

\begin{tikzpicture}
  \node (1) {\textbf{Family Hx of heavy Alcohol Use}};
  \node [above =of 1] (11) {};
  \node [above =of 11] (12) {};
  \node [above =of 12] (13) {};
  \node [right =of 1] (2) {};
  \node [above =of 2] (10) {\textbf{Friends heavy alcohol use}};
  \node [above =of 10] (8) {\textbf{SEP}};
  \node [right =of 2] (3) {\textbf{Heavy Alcohol Use (Exposure)}};
  \node [above =of 3] (9) {};
  \node [right =of 8] (7) {};
  \node [right =of 3] (4) {};
  \node [above =of 4] (6) {\textbf{Smoking}};
  \node [right =of 4] (5) {\textbf{Death (Outcome)}};

  \draw[Arrow] (3.east)--(5.west);
  \draw[Arrow] (3) to (6);
  \draw[Arrow] (6) to (5);
  \draw[Arrow] (1) to (3);
  \draw[Arrow, thick] (1.north)--(8.west);
  \draw[Arrow] (1) to [out=-25, in=-160] (5);
  \draw[Arrow] (8) to (6);
  \draw[Arrow] (8) to [out=25, in=140] (5);
  \draw[Arrow] (10) to (6);
  \draw[Arrow] (10) to (3);
  \draw[Arrow] (8) to (10);

\end{tikzpicture}

```

Daggity Code for Figure 2:

```

dag {
  "Friends Heavy Alcohol Use" [pos="-1.002,0.076"]
  "Heavy Alcohol Use" [exposure,pos="-0.641,0.725"]
  "family hx of heavy alcohol use" [selected,pos="-1.648,0.714"]
  Death [outcome,pos="0.403,0.714"]
  SEP [pos="-1.071,-0.423"]
  Smoking [pos="-0.232,-0.073"]
  "Friends Heavy Alcohol Use" -> "Heavy Alcohol Use"
  "Friends Heavy Alcohol Use" -> Smoking
  "Heavy Alcohol Use" -> Death
  "Heavy Alcohol Use" -> Smoking
  "family hx of heavy alcohol use" -> "Heavy Alcohol Use"
  "family hx of heavy alcohol use" -> Death [pos="-0.582,1.774"]
  "family hx of heavy alcohol use" -> SEP
  SEP -> "Friends Heavy Alcohol Use"
  SEP -> Death [pos="0.085,-0.783"]
  SEP -> Smoking
  Smoking -> Death
}

```

L^AT_EX Code for Figure 3:

```

\begin{tikzpicture}
  \node (1) {\textbf{Family Hx of heavy alcohol use}};
  \node [above =of 1] (11) {};
  \node [above =of 11] (12) {};
  \node [above =of 12] (13) {};
  \node [right =of 1] (2) {};
  \node [above =of 2] (10) {\textbf{Friends heavy alcohol use}};
  \node [above =of 10] (8) {\textbf{SES}};
  \node [right =of 2] (3) {\textbf{Heavy Alcohol Use (Exposure)}};
  \node [above =of 3] (9) {};
  \node [right =of 8] (7) {};
  \node [right =of 3] (4) {};

```

```

\begin{tikzpicture}
\node [above =of 4] (6) {\textbf{Smoking}};
\node [right =of 4] (5) {\textbf{Death (Outcome)}};
\node [above =of 1] (14) {\textbf{Unmeasured (U)}};
\draw[Arrow] (3.east)--(5.west);
\draw[Arrow] (3) to (6);
\draw[Arrow] (6) to (5);
\draw[Arrow] (1) to (3);
\draw[Arrow, thick] (1) to [out=40, in=-160] (8);
\draw[Arrow] (1) to [out=-25, in=-160] (5);
\draw[Arrow] (8) to (6);
\draw[Arrow] (8) to [out=25, in=140] (5);
\draw[Arrow] (10) to (6);
\draw[Arrow] (10) to (3);
\draw[Arrow] (8) to (10);
\draw[Arrow] (14) to (1);
\draw[Arrow] (14) to (8);
\end{tikzpicture}

```

Daggity Code for Figure 3:

```

dag {
  "Friends Heavy Alcohol Use" [pos="-1.002,0.076"]
  "Heavy Alcohol Use" [exposure,pos="-0.641,0.725"]
  "family hx of heavy alcohol use" [selected,pos="-1.648,0.714"]
  Death [outcome,pos="0.403,0.714"]
  SEP [pos="-1.071,-0.423"]
  Smoking [pos="-0.232,-0.073"]
  U [pos="-1.710,-0.047"]
  "Friends Heavy Alcohol Use" -> "Heavy Alcohol Use"
  "Friends Heavy Alcohol Use" -> Smoking
  "Heavy Alcohol Use" -> Death
  "Heavy Alcohol Use" -> Smoking
  "family hx of heavy alcohol use" -> "Heavy Alcohol Use"
  "family hx of heavy alcohol use" -> Death [pos="-0.582,1.774"]
}

```

```

"family hx of heavy alcohol use" -> SEP
SEP -> "Friends Heavy Alcohol Use"
SEP -> Death [pos="0.085,-0.783"]
SEP -> Smoking
Smoking -> Death
U -> "family hx of heavy alcohol use"
U -> SEP
}

```

L^AT_EX Code for Figure 4a and 4b:

```

\begin{figure}[H]
%Figure 4a
\subsection{Figure 4a}
\begin{tikzpicture}
\node [text width =3.5cm] (1) {\textbf{Unmeasured/Unknown Risk Factors}};
\node [right =of 1] (2) {};
\node [right =of 2] (3) {};
\node [above =of 2] (4) {\textbf{Heart Failure}};
\node [above =of 1] (6) {};
\node [above =of 6] (7) {\textbf{Obesity}};
\node [right =of 4] (8) {\textbf{Mortality}};

\draw[Arrow] (7) to (4);
\draw[Arrow] (7) to (4);
\draw[Arrow] (4) to (8);
\draw[Arrow] (1) to (8);
\draw[Arrow] (1) to (4);
\end{tikzpicture}

%Figure 4b
\subsection{Figure 4b}
\begin{tikzpicture}
\node [text width =3.5cm] (1) {\textbf{Unmeasured/Unknown Risk Factors}};

```

```

\node [right =of 1] (2) {};
\node [right =of 2] (3) {};
\node [rectangle, outer sep=2, draw, above =of 2] (4) {\textbf{Heart Failure}};
\node [above =of 1] (6) {};
\node [above =of 6] (7) {\textbf{Obesity}};
\node [right =of 4] (8) {\textbf{Mortality}};

\draw[Arrow] (7) to (4);
\draw[Arrow] (4) to (8);
\draw[Arrow] (1) to (8);
\draw[Arrow] (1) to (4);
\end{tikzpicture}

```

Daggity Code for Figure 4a and 4b:

4a

```

dag {
  "Heart Failure" [exposure,pos="-0.575,0.545"]
  "Unmeasured/Unknown" [pos="-1.119,1.008"]
  Mortality [outcome,pos="-0.072,0.545"]
  Obesity [pos="-1.071,-0.006"]
  "Heart Failure" -> Mortality
  "Unmeasured/Unknown" -> "Heart Failure"
  "Unmeasured/Unknown" -> Mortality
  Obesity -> "Heart Failure"
}

```

4b

```

dag {
  "Heart Failure" [adjusted,pos="-0.685,0.529"]
  "Unmeasured/Unknown" [pos="-1.119,1.008"]
}

```

```

Mortality [outcome,pos="-0.072,0.545"]
Obesity [pos="-1.071,-0.006"]
"Heart Failure" -> Mortality
"Unmeasured/Unknown" -> "Heart Failure"
"Unmeasured/Unknown" -> Mortality
Obesity -> "Heart Failure"
}

```

L^AT_EX Code for Figure 5:

A

```

\begin{tikzpicture}
  \node [text width=2.5cm, align=center] (4) at (10,7) {\textbf{Death before Age 4 Years}};
  \node (2) at (6,7) {\textbf{SEP at Birth}};
  \node [text width=3cm] (6) at (14,7) {\textbf{Infections from Birth to Age 4 Years}};
  \node (1) at (6,5) {\textbf{Birthweight}};
  \node [text width=3cm] (5) at (14,5) {\textbf{Lung Function at Age 4 Years}};
  \node [rectangle, draw, outer sep=0.1cm] (7) at (10,9) {\textbf{S}};

  \draw[Arrow] (1.east) to (4.south);
  \draw[Arrow] (2.south) to (1.north);
  \draw[Arrow] (2.south) to (5.north west);
  \draw[Arrow] (6.west) to (4.east);
  \draw[Arrow] (6.south) to (5.north);
  \draw[Arrow] (1.east) to (5.west);
  \draw[Arrow] (2.east) to (4.west);
  \draw[Arrow] (4.north) to (7.south);

\end{tikzpicture}

```

B


```

\begin{tikzpicture}
  \node [text width=3cm, rectangle, draw, outer sep=0.1cm] (4) at (10,7)
    {\textbf{Antihypertensive Medication Use}};
  \node (3) at (10,5) {\textbf{Hypertension}};
  \node (2) at (6,7) {\textbf{Obesity}};
  \node (6) at (14,7) {\textbf{Schooling}};
  \node (1) at (6,5) {\textbf{Physical Activity}};
  \node (5) at (14,5) {\textbf{Diet}};

  \draw[Arrow] (2.south) to (1.north);
  \draw[Arrow] (2.east) to (4.west);
  \draw[Arrow] (1.east) to (3.west);
  \draw[Arrow] (5.west) to (3.east);
  \draw[Arrow] (6.south) to (5.north);
  \draw[Arrow] (6.west) to (4.east);
  \draw[Arrow] (4.south) to (3.north);
\end{tikzpicture}

```

Daggity Code for Figure 5:

A

```

dag {
  "Death before Age 4" [pos="-0.663,0.344"]
  "Lung Function at Age 4" [pos="-0.061,1.296"]
  "SEP at birth" [pos="-1.203,0.545"]
  "infection from birth to age 4" [outcome,pos="-0.072,0.545"]
  Birthweight [exposure,pos="-1.228,1.286"]
  S [pos="-0.663,-0.341"]
  "Death before Age 4" -> S
  "SEP at birth" -> "Death before Age 4"
  "SEP at birth" -> "Lung Function at Age 4"
  "SEP at birth" -> Birthweight
}

```

```
"infection from birth to age 4" -> "Death before Age 4"
"infection from birth to age 4" -> "Lung Function at Age 4"
Birthweight -> "Death before Age 4"
Birthweight -> "Lung Function at Age 4"}
```

B

```
dag {
  "Physical Activity" [exposure,pos="-1.228,1.286"]
  "antihypertensive medication use" [pos="-0.604,0.200"]
  Obseity [pos="-1.203,0.545"]
  diet [outcome,pos="-0.061,1.296"]
  hypertension [pos="-0.615,1.286"]
  schooling [pos="-0.072,0.545"]
  "Physical Activity" -> hypertension
  "antihypertensive medication use" -> hypertension
  Obseity -> "Physical Activity"
  Obseity -> "antihypertensive medication use"
  diet -> hypertension
  schooling -> "antihypertensive medication use"
  schooling -> diet
}
```

L^AT_EX Code for Figure 6:

```
\subsection*{A}
\begin{tikzpicture}
  \node (1) {};
  \node [right =of 1] (2) {};
  \node [right =of 2] (3) {\textbf{Alcohol Use Disorder(Exposure)}};
  \node [right =of 3] (4) {};
  \node [right =of 4] (5) {\textbf{5-Year Mortality(Outcome)}};
```

```

\draw[Arrow] (3.east)--(5.west);
\end{tikzpicture}

\subsection*{B}
\begin{tikzpicture}
  \node (1) [text width=2cm] {\textbf{Family Hx of Alcohol Use}};
  \node [right =of 1] (2) {};
  \node [right =of 2] (3) {};
  \node [right =of 3] (4) {\textbf{Alcohol Use Disorder(Exposure)}};
  \node [right =of 4] (6) {\textbf{5-Year Mortality (Outcome)}};
  \node [above =of 1] (13) {};
  \node [above =of 2] (9) {\textbf{Heavy Alcohol Use}};
  \node [above =of 13] (7) {\textbf{SEP}};
  \node [right =of 7] (8) {\textbf{Care Access}};
  \node [right =of 6, rectangle, draw] (14) {\textbf{S}};

  \draw[Arrow] (4.east)--(6.west);
\end{tikzpicture}
\end{figure}
%need to split these up to smaller figures
\setcounter{figure}{5} %this resets counter so both smaller figures are Figure 6.

\begin{figure}[H]
\subsection*{C}
\begin{tikzpicture}
  \node (1) [text width=2cm] {\textbf{Family Hx of Alcohol Use}};
  \node [right =of 1] (2) {};
  \node [right =of 2] (3) {};
  \node [right =of 3] (4) {\textbf{Alcohol Use Disorder(Exposure)}};
  \node [right =of 4] (6) {\textbf{5-Year Mortality (Outcome)}};
  \node [above =of 1] (13) {};
  \node [above =of 2] (9) {\textbf{Heavy Alcohol Use}};
  \node [above =of 13] (7) {\textbf{SEP}};
  \node [right =of 7] (8) {\textbf{Care Access}};
  \node [right =of 6, rectangle, draw] (14) {\textbf{S}};

```

```

\draw[Arrow] (4.east)--(6.west);
\draw[Arrow] (1.north) to (7.south);
\draw[Arrow] (7.east) to (8.west);
\draw[Arrow] (7) to (9);
\draw[Arrow] (9) to (4);
\draw[Arrow] (8) to [out=0, in=140] (6);
\draw[Arrow] (8.south) to (4.north);
\draw[Arrow] (9) to (4);
\draw[Arrow] (9) to [out=0, in=160] (6);
\draw[Arrow] (1) to (9);
\draw[Arrow] (8) to [out=0,in=140] (14);
\end{tikzpicture}

\subsection*{D}
\begin{tikzpicture}
  \node (1) [text width=3cm] {\textbf{Friends Alcohol Use}};
  \node [right =of 1] (2) {};

  \node [right =of 2] (4) {\textbf{Alcohol Use Disorder (Exposure)}};
  \node [right =of 4] (6) {\textbf{5-Year Mortality(Outcome)}};
  \node [above =of 1] (13) {};
  \node [above =of 2, text width=1.8cm] (9) {\textbf{Heavy Alcohol Use}};
  \node [above =of 13] (7) {\textbf{SEP}};
  \node [right =of 7] (8) {\textbf{Care Access}};
  \node [above =of 6] (15) {};
  \node [above =of 15] (16) {\textbf{Smoking}};
  \node [below =of 2] (17) {\textbf{U}};
  \node [left =of 1, text width=2.5cm,align=center] (18) {\textbf{Family Hx of Alcohol Abuse}};
  \node [right =of 6, rectangle, draw] (20) {\textbf{S}};

  \draw[Arrow] (4.east)--(6.west);
  \draw[Arrow] (18.east) to (1.west);
  \draw[Arrow] (7.east) to (8.west);
  \draw[Arrow] (7) to (9);
  \draw[Arrow] (9) to (4);
  \draw[Arrow] (8) to [out=0, in=140] (6);

```

```

\draw[Arrow] (8.south) to (4.north);
\draw[Arrow] (9) to (4);
\draw[Arrow] (9) to [out=0, in=160] (6);
\draw[Arrow] (1) to (9);
\draw[Arrow] (7) to [out=-10, in=180] (16);
\draw[Arrow] (9) to (16);
\draw[Arrow] (16) to (6);
\draw[Arrow] (17) to [out=20, in=-140] (4);
\draw[Arrow] (17) to [out=0, in=-160] (6);
\draw [Arrow] (7) to [out=10, in=120] (6);
\draw [Arrow] (18) to (7);
\draw [Arrow] (18) to [out=30, in=180] (9);
\draw [Arrow] (18) to [out=-30, in=-180] (4);
\draw[Arrow] (8) to [out=0,in=90] (20);
\draw[Arrow] (17) to [out=0,in=-160] (20);
\end{tikzpicture}

```

Daggity Code for Figure 6:

6a

```

dag {
  "5-year mortality" [outcome,pos="0.133,0.056"]
  "Alcohol use disorder" [exposure,pos="-0.860,0.066"]
  "Alcohol use disorder" -> "5-year mortality"
}

```

6b

```

dag {
  "5-year mortality" [outcome,pos="0.133,0.056"]
  "Alcohol use disorder" [exposure,pos="-0.860,0.066"]
  "Care access" [pos="-0.973,-1.004"]
}

```

```

"Family history of alcohol use" [pos="-1.743,0.179"]
"Heavy Alcohol Use" [pos="-1.188,-0.397"]
S [adjusted,pos="0.713,0.097"]
SEP [pos="-1.502,-0.958"]
"Alcohol use disorder" -> "5-year mortality"
}

```

6c

```

dag {
  "5-year mortality" [outcome,pos="0.133,0.056"]
  "Alcohol use disorder" [exposure,pos="-0.860,0.066"]
  "Care access" [pos="-0.973,-1.004"]
  "Family history of alcohol use" [pos="-1.743,0.179"]
  "Heavy Alcohol Use" [pos="-1.188,-0.397"]
  S [adjusted,pos="0.713,0.097"]
  SEP [pos="-1.502,-0.958"]
  "Alcohol use disorder" -> "5-year mortality"
  "Care access" -> "5-year mortality"
  "Care access" -> S
  "Family history of alcohol use" -> "Heavy Alcohol Use"
  "Family history of alcohol use" -> SEP
  "Heavy Alcohol Use" -> "5-year mortality"
  "Heavy Alcohol Use" -> "Alcohol use disorder"
  SEP -> "Care access"
  SEP -> "Heavy Alcohol Use"
}

```

6d

```

dag {
  "5-year mortality" [outcome,pos="0.133,0.056"]
  "Alcohol use disorder" [exposure,pos="-0.860,0.066"]
}

```

```

"Care access" [pos="-0.973,-1.004"]
"Family history of alcohol use" [pos="-2.075,0.349"]
"Friends alcohol use" [pos="-1.425,0.081"]
"Heavy Alcohol Use" [pos="-1.188,-0.397"]
S [adjusted,pos="0.713,0.097"]
SEP [pos="-1.502,-0.958"]
U [pos="-0.794,0.843"]
smoking [pos="0.020,-0.943"]
"Alcohol use disorder" -> "5-year mortality"
"Care access" -> "5-year mortality"
"Care access" -> S
"Family history of alcohol use" -> "Friends alcohol use"
"Family history of alcohol use" -> "Heavy Alcohol Use"
"Family history of alcohol use" -> SEP
"Friends alcohol use" -> "Heavy Alcohol Use"
"Heavy Alcohol Use" -> "5-year mortality"
"Heavy Alcohol Use" -> "Alcohol use disorder"
"Heavy Alcohol Use" -> smoking
SEP -> "Care access"
SEP -> "Heavy Alcohol Use"
SEP -> smoking [pos="-0.688,-1.437"]
U -> "5-year mortality"
U -> "Alcohol use disorder"
U -> S
smoking -> "5-year mortality"
}

```

L^AT_EX Code for Figure 7:

```

\subsection*{A}
\begin{tikzpicture}
  \node [rectangle, draw](1) {\textbf{Alcohol Use Disorder (Exposure)}};
  \node [right =of 1] (2) {};
  \node [right =of 2] (3) {};

```

```

\node [right =of 3] (4) {};
\node [right =of 4, rectangle, draw] (5) {\textbf{5-Year Mortality (Outcome)}};
\node [above =of 1, rectangle, draw] (6) {\textbf{SEP}};
\node [right =of 6, rectangle, draw] (7) {\textbf{Care Access}};
\node [right =of 7, rectangle, draw] (8) {\textbf{Heavy alcohol use}};
\node [right =of 8, rectangle, draw] (9) {\textbf{Smoking}};
\draw [Arrow] (6) to (1); \draw [Arrow] (6) to (5);
\draw [Arrow] (7) to (1); \draw [Arrow] (7) to (5);
\draw [Arrow] (8) to (1); \draw [Arrow] (8) to (5);
\draw [Arrow] (9) to (1); \draw [Arrow] (9) to (5);
\end{tikzpicture}
\subsection*{B}
\begin{tikzpicture}
\node (1) {};
\node [right =of 1] (2) {\textbf{Alcohol use disorder (Exposure)}};
\node [right =of 2] (3) {};
\node [right =of 3] (4) {\textbf{Death (Outcome)}};
\node [left =of 1] (5) {\textbf{SEP}};
\node [above =of 3] (6) {\textbf{Smoking}};
\draw[Arrow] (2.east)--(4.west);
\draw[>=latex, thick, <->] (2)--(6);
\draw[Arrow] (6) to (3);
\draw[Arrow] (5) to [out=-25, in=-160] (4);
\draw[Arrow] (5) to [out=30, in=180] (6);
\draw[>=latex, thick, <->] (5.east)--(2.west);
\end{tikzpicture}

```

Daggity Code for Figure 7:

A

```

"5-year mortality" [outcome,pos="0.133,0.056"]
"Alcohol use disorder" [exposure,pos="-0.860,0.066"]
"Care access" [pos="-0.973,-1.004"]

```



```

"Family history of alcohol use" [pos="-2.075,0.349"]
"Friends alcohol use" [pos="-1.425,0.081"]
"Heavy Alcohol Use" [pos="-1.188,-0.397"]
S [adjusted,pos="0.713,0.097"]
SEP [pos="-1.502,-0.958"]
U [pos="-0.794,0.843"]
smoking [pos="0.020,-0.943"]
"Alcohol use disorder" -> "5-year mortality"
"Care access" -> "5-year mortality"
"Care access" -> S
"Family history of alcohol use" -> "Friends alcohol use"
"Family history of alcohol use" -> "Heavy Alcohol Use"
"Family history of alcohol use" -> SEP
"Friends alcohol use" -> "Heavy Alcohol Use"
"Heavy Alcohol Use" -> "5-year mortality"
"Heavy Alcohol Use" -> "Alcohol use disorder"
"Heavy Alcohol Use" -> smoking
SEP -> "Care access"
SEP -> "Heavy Alcohol Use"
SEP -> smoking [pos="-0.688,-1.437"]
U -> "5-year mortality"
U -> "Alcohol use disorder"
U -> S
smoking -> "5-year mortality"
}

```

B

```

dag {
  "5-year mortality" [outcome,pos="0.133,0.056"]
  "Alcohol use disorder" [exposure,pos="-1.020,0.040"]
  SEP [adjusted,pos="-1.623,1.121"]
  smoking [adjusted,pos="-0.042,-0.881"]
  "Alcohol use disorder" -> "5-year mortality"
  "Alcohol use disorder" <-> SEP
}

```

```

"Alcohol use disorder" <-> smoking
SEP -> "5-year mortality"
SEP -> smoking [pos="-1.261,-0.757"]
smoking -> "5-year mortality"
}

```

*Note that node with edge ending on an edge cannot be made in daggity

L^AT_EX Code for Supplemental Figure 1

```

\begin{tikzpicture}
  \node [text width=2.8cm] (1) {\textbf{Friend's heavy alcohol use$_{time 0}$}};
  \node [right =of 1] (2) {\textbf{Heavy Alcohol Use$_{time 0}$}};
  \node [right =of 2, text width=2.8cm] (3) {\textbf{Friend's heavy alcohol use$_{time 1}$}};
  \node [right =of 3] (4) {\textbf{Heavy Alcohol Use$_{time 1}$}};
  \node [right =of 4] (5) {};
  \node [right =of 5] (8) {\textbf{Death}};
  \node [below =of 3] (6) {\textbf{Smoking$_{time 1}$}};
  \node [right =of 6] (9) {};
  \node [right =of 9] (7) {\textbf{Smoking$_{time 2}$}};
  \draw[Arrow, thick] (1.east) -- (2.west);
  \draw[Arrow, thick] (1) to [out=25, in=160] (3);
  \draw[Arrow, thick] (1) to [out=25, in=160] (4);
  \draw[Arrow, thick] (1) to [out=25, in=160] (8);
  \draw[Arrow, thick] (2.east) -- (3.west);
  \draw[Arrow, thick] (2) to [out=25, in=160] (4);
  \draw[Arrow, thick] (3.east) -- (4.west);
  \draw[Arrow, thick] (3) to [out=25, in=160] (8);
  \draw[Arrow, thick] (2) to (6);
  \draw[Arrow, thick] (6.east) -- (4.south);
  \draw[Arrow, thick] (6.east) -- (7);
  \draw[Arrow, thick] (4) to (7);
  \draw[Arrow, thick] (7) to (8);
\end{tikzpicture}

```

Daggity Code for Supplemental Figure 1

```
dag {
  "5-year mortality" [outcome,pos="1.246,0.112"]
  "Friends heavy alcohol use_time 0" [adjusted,pos="-1.783,0.184"]
  "Friends heavy alcohol use_time 1" [pos="-0.316,0.107"]
  "Heavy alcohol use_time 0" [pos="-0.878,-0.109"]
  "heavy alcohol use_time 1" [exposure,pos="0.334,-0.186"]
  smoking_time1 [adjusted,pos="-0.250,0.925"]
  smoking_time2 [pos="0.709,0.920"]
  "Friends heavy alcohol use_time 0" -> "5-year mortality" [pos="-0.466,-1.529"]
  "Friends heavy alcohol use_time 0" -> "Friends heavy alcohol use_time 1" [pos="-0.685,-0.618"]
  "Friends heavy alcohol use_time 0" -> "Heavy alcohol use_time 0"
  "Friends heavy alcohol use_time 0" -> "heavy alcohol use_time 1" [pos="-0.663,-0.927"]
  "Friends heavy alcohol use_time 1" -> "heavy alcohol use_time 1"
  "Heavy alcohol use_time 0" -> "Friends heavy alcohol use_time 1"
  "Heavy alcohol use_time 0" -> smoking_time1
  "heavy alcohol use_time 1" -> "5-year mortality"
  "heavy alcohol use_time 1" -> smoking_time2
  smoking_time1 -> "heavy alcohol use_time 1"
  smoking_time1 -> smoking_time2
  smoking_time2 -> "5-year mortality"
}
```