

## Appendix 2. Search strings

### Subject-initial sentences

#### Subject-initial pattern 1: no adverbial

#S:[cat="S"]

& #NP1:[cat="NP"] & #NP1 >@1 #LNP1 & #NP1 >@r #RNP1 & #S > #NP1

& #NP2:[cat="NP"] & #NP2 >@1 #LNP2 & #NP2 >@r #RNP2 & #S >\* #NP2

& #FinV: [pos="VB" & morph=("PRS\ AKT" | "PRT\ AKT")] & #S > #FinV

& (#S >@1 [pos!="H./] | #S >@1 #REL:[pos="HA"] & #NP1 !>@1 #REL)

& #RNP1 . #FinV

& ((#FinV . #LNP2 | #FinV . #PL:[(pos="PL" | (pos="PN" & morph=/.\*DEF\ OBJ/))])

& #PL . #LNP2) & (#RNP2 . #END:[pos!="VB" | [cat="ROOT"] >@r #RNP2)

//FV följs av PL och/eller NP2, som följs av ej verb eller inget

| #FinV . #V1:[(pos="VB" & morph=("INF\ AKT" | "SUP\ AKT")) | pos="IE"])

& ((#V1 . #LNP2 | #V1 . #PL:[(pos="PL" | (pos="PN" & morph=/.\*DEF\ OBJ/))])

& #PL . #LNP2)

| #V1 . #V2:[pos="VB" & morph=("INF\ AKT" | "SUP\ AKT"))

& ((#V2 . #LNP2 | #V2 . #PL:[(pos="PL" | (pos="PN" & morph=/.\*DEF\ OBJ/))])

& #PL . #LNP2)

| #V2 . #V3:[pos="VB" & morph=("INF\ AKT" | "SUP\ AKT"))

& (#V3 . #LNP2 | #V3 . #PL:[(pos="PL" | (pos="PN" & morph=/.\*DEF\ OBJ/))])

& #PL . #LNP2)))))

& #S >@1 #LS

& (#MC:[cat="ROOT"] > #S | #MC:[cat="ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S

& ([pos != ("SN"|"KN"|"HA")]) . #LS & #LS:[pos!="SN"|"KN"|"HA"] ]

| #MC >@1 #LS & #LS:[pos!="SN"|"KN"|"HA"])

| #EC:[cat != "ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S

& (#SBNC:[pos=("SN"|"KN"|"HA")]) . #LS | #S >@1 #SBNC:[pos=("SN"|"KN"|"HA")]

| ([pos != ("SN"|"KN"|"HA")]) . #LS & #LS:[pos!="SN"|"KN"|"HA"] ]

| #EC >@1 #LS & #LS:[pos!="SN"|"KN"|"HA"])))

| #EC:[cat="ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S

& (#SBNC:[pos=("SN"|"KN"|"HA")]) . #LS | #S >@1 #SBNC:[pos=("SN"|"KN"|"HA")])

## Subject-initial pattern 2: preverbal adverbial

#S:[cat="S"]

& #NP1:[cat="NP"] & #NP1 >@1 #LNP1 & #NP1 >@r #RNP1 & #S > #NP1  
& #NP2:[cat="NP"] & #NP2 >@1 #LNP2 & #NP2 >@r #RNP2 & #S >\* #NP2  
& #FinV: [pos="VB" & morph=("PRS\ AKT" | "PRT\ AKT")] & #S > #FinV  
& (#S >@1 [pos!="H./"] | #S >@1 #REL:[pos = "HA"] & #NP1 !>@1 #REL)

& #AVP:[cat="AVP"] & #AVP >@1 #LAVP & #AVP >@r #RAVP  
& (#RNP1 . #LAVP | #AVP2:[cat="AVP"] & #AVP2 >@1 #LAVP2 & #AVP2 >@r #RAVP2  
& #RNP1 . #LAVP2 & #RAVP2 . #LAVP)  
& #RAVP . #FinV

& ((#FinV . #LNP2 | #FinV . #PL:[(pos="PL" | (pos="PN" & morph = /\*DEF\ OBJ/))]  
& #PL . #LNP2) & (#RNP2 . #END:[pos!="VB"] | [cat="ROOT"] >@r #RNP2)  
//FV följs av PL och/eller NP2, som följs av ej verb eller inget  
| #FinV . #V1:[(pos="VB" & morph=("INF\ AKT" | "SUP\ AKT")) | pos="IE"]]  
& ((#V1 . #LNP2 | #V1 . #PL:[(pos="PL" | (pos="PN" & morph = /\*DEF\ OBJ/))]  
& #PL . #LNP2)  
| #V1 . #V2:[pos="VB" & morph=("INF\ AKT" | "SUP\ AKT")]  
& ((#V2 . #LNP2 | #V2 . #PL:[(pos="PL" | (pos="PN" & morph = /\*DEF\ OBJ/))]  
& #PL . #LNP2)  
| #V2 . #V3:[pos="VB" & morph=("INF\ AKT" | "SUP\ AKT")]  
& (#V3 . #LNP2 | #V3 . #PL:[(pos="PL" | (pos="PN" & morph = /\*DEF\ OBJ/))]  
& #PL . #LNP2))))

& #S >@1 #LS

& (#MC:[cat="ROOT"] > #S | #MC:[cat="ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S  
& ([pos != ("SN"|"KN"|"HA")]. #LS & #LS:[pos!=("SN"|"KN"|"HA") ]  
| #MC >@1 #LS & #LS:[pos!=("SN"|"KN"|"HA")]))

| #EC:[cat != "ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S  
& (#SBNC:[pos=("SN"|"KN"|"HA")]. #LS | #S >@1 #SBNC:[pos=("SN"|"KN"|"HA")]  
| ([pos != ("SN"|"KN"|"HA")]. #LS & #LS:[pos!=("SN"|"KN"|"HA") ]  
| #EC >@1 #LS & #LS:[pos!=("SN"|"KN"|"HA")]))

| #EC:[cat="ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S  
& (#SBNC:[pos=("SN"|"KN"|"HA")]. #LS | #S >@1 #SBNC:[pos=("SN"|"KN"|"HA")]))

### Subject-initial pattern 3: postverbalt adverbial

```
#S:[cat="S"]
& #NP1:[cat="NP"] & #NP1 >@1 #LNP1 & #NP1 >@r #RNP1 & #S > #NP1
& #NP2:[cat="NP"] & #NP2 >@1 #LNP2 & #NP2 >@r #RNP2 & #S >* #NP2
& #FinV: [pos="VB" & morph=("PRS\ AKT" | "PRT\ AKT")] & #S > #FinV
& (#S >@1 [pos!=/H./] | #S >@1 #REL:[pos = "HA"] & #NP1 !>@1 #REL)

& #RNP1 . #FinV

& #AVP:[cat="AVP"] & #AVP >@1 #LAVP & #AVP >@r #RAVP
& (#FinV . #LAVP | #AVP2:[cat="AVP"] & #AVP2 >@1 #LAVP2 & #AVP2 >@r #RAVP2
  & #FinV . #LAVP2 & #RAVP2 . #LAVP)

& ((#RAVP . #LNP2 | #RAVP . #PL:[(pos="PL" | (pos="PN" & morph=/.*DEF\ OBJ/))])
& #PL . #LNP2) & (#RNP2 . #END:[pos!= "VB" | [cat="ROOT"] >@r #RNP2])
  // AVP följs av PL och/eller NP2, som följs av ej verb eller inget
  | #RAVP . #V1:[(pos="VB" & morph=("INF\ AKT" | "SUP\ AKT")) pos="IE"])
& ((#V1 . #LNP2 | #V1 . #PL:[(pos="PL" | (pos="PN" & morph=/.*DEF\ OBJ/))])
& #PL . #LNP2)
  | #V1 . #V2:[pos="VB" & morph=("INF\ AKT" | "SUP\ AKT")])
& ((#V2 . #LNP2 | #V2 . #PL:[(pos="PL" | (pos="PN" & morph=/.*DEF\ OBJ/))])
& #PL . #LNP2)
  | #V2 . #V3:[pos="VB" & morph=("INF\ AKT" | "SUP\ AKT")])
& (#V3 . #LNP2 | #V3 . #PL:[(pos="PL" | (pos="PN" & morph=/.*DEF\ OBJ/))])
& #PL . #LNP2))))

& #S >@1 #LS
& (#MC:[cat="ROOT"] > #S | #MC:[cat="ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S
  & ([pos != ("SN"|"KN"|"HA")]. #LS & #LS:[pos!=("SN"|"KN"|"HA") ]
  | #MC >@1 #LS & #LS:[pos!=("SN"|"KN"|"HA")]))

| #EC:[cat != "ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S
  & (#SBNC:[pos=("SN"|"KN"|"HA")]. #LS | #S >@1 #SBNC:[pos=("SN"|"KN"|"HA")])
  | ([pos != ("SN"|"KN"|"HA")]. #LS & #LS:[pos!=("SN"|"KN"|"HA") ]
  | #EC >@1 #LS & #LS:[pos!=("SN"|"KN"|"HA")]))))

| #EC:[cat = "ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S
  & (#SBNC:[pos=("SN"|"KN"|"HA")]. #LS | #S >@1 #SBNC:[pos =("SN"|"KN"|"HA")]))))
```

## Object-initial sentences

```
#S:[cat="S"]
& #NP1:[cat="NP"] & #NP1 >@1 #LNP1 & #NP1 >@r #RNP1 & #S > #NP1
& #NP2:[cat="NP"] & #NP2 >@1 #LNP2 & #NP2 >@r #RNP2 & #S >* #NP2
& #FinV:[pos="VB" & morph=("PRS\ AKT" | "PRT\ AKT")] & #S > #FinV
& #V1:[(pos="VB" & morph=("INF\ AKT" | "SUP\ AKT")) | pos="IE"]

& (#S >@1 [pos!="H./"] | #S >@1 #REL:[pos="HA"] & #NP1 !>@1 #REL)

& #RNP1 . #FinV

& (#FinV . #LNP2 & #RNP2 . #V1
  | #AVP:[cat="AVP"] & #AVP >@1 #LAVP & #AVP >@r #RAVP &
    ((#FinV . #LAVP & #RAVP . #LNP2 & #RNP2 . #V1
      | #FinV . #LNP2 & #RNP2 . #LAVP & #RAVP . #V1)
    | #AVP2:[cat="AVP"] & #AVP2 >@1 #LAVP2 & #AVP2 >@r #RAVP2 &
      (#FinV . #LAVP2 & #RAVP2 . #LAVP & #RAVP . #LNP2 & #RNP2 . #V1
        | #FinV . #LNP2 & #RNP2 . #LAVP2 & #RAVP2 . #LAVP & #RAVP . #V1)))

& ((#V1 . #END:[pos!=("VB" | "PL")] | #V1 . #PL:[(pos="PL" | (pos="PN" & morph=/. *DEF\ OBJ/))])
  | #V1 . #V2:[pos="VB" & morph=("INF\ AKT" | "SUP\ AKT")])
& ((#V2 . #END:[pos!=("VB" | "PL")]
  | #V2 . #PL:[(pos="PL" | (pos="PN" & morph=/. *DEF\ OBJ/))])
  | #V2 . #V3:[pos="VB" & morph=("INF\ AKT" | "SUP\ AKT")])
& (#V3 . #END:[pos!=("VB" | "PL")]
  | #V3 . #PL:[(pos="PL" | (pos="PN" & morph=/. *DEF\ OBJ/))]))

& #S >@1 #LS
& (#MC:[cat="ROOT"] > #S | #MC:[cat="ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S
  & ([pos!="SN"|"KN"|"HA"]) . #LS & #LS:[pos!="SN"|"KN"|"HA"])
  | #MC >@1 #LS & #LS:[pos!="SN"|"KN"|"HA"]])

| #EC:[cat!="ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S
  & (#SBNC:[pos=("SN"|"KN"|"HA")] . #LS | #S >@1 #SBNC:[pos=("SN"|"KN"|"HA")]
    | ([pos!="SN"|"KN"|"HA"]) . #LS & #LS:[pos!="SN"|"KN"|"HA"])
    | #EC >@1 #LS & #LS:[pos!="SN"|"KN"|"HA"]]))

| #EC:[cat="ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S
  & (#SBNC:[pos=("SN"|"KN"|"HA")] . #LS | #S >@1 #SBNC:[pos=("SN"|"KN"|"HA")]))
```

## Passives

### Passives pattern 1: no adverbials

#S:[cat="S"]

& #NP1:[cat="NP"] & #NP1 >@1 #LNP1 & #NP1 >@r #RNP1 & #S > #NP1

& #NP2:[cat="NP"] & #NP2 >@1 #LNP2 & #NP2 >@r #RNP2 & #S >\* #NP2

& #APP:[cat="PP"] & #APP > #AP:[pos="PP" & word=("av" | "AV" | "aV" | "Av")] & #AP.#LNP2

& (#S >@1 [pos!=/H./] | #S >@1 #REL:[pos="HA"] & #NP1 !>@1 #REL)

& (#FinV: [pos="VB" & morph=("PRS\ SFO" | "PRT\ SFO")] & #S > #FinV & #RNP1 . #FinV

& (#FinV . #AP | #FinV . #PL:[(pos="PL" | (pos="PN" & morph=/.\*DEF\ OBJ/))])

& #PL . #AP) & (#RNP2 . #END:[pos!="VB" | [cat="ROOT"] >@r #RNP2)

//FV följs av PL och/eller NP2, som följs av ej verb eller inget

| #FinV: [pos="VB" & morph=("PRS\ AKT" | "PRT\ AKT")] & #S > #FinV & #RNP1 . #FinV

& (#FinV . #V1:[(pos="VB" & morph=("INF\ SFO" | "SUP\ SFO") | pos="IE")])

& (#V1 . #AP | #V1 . #PL:[(pos="PL" | (pos="PN" & morph=/.\*DEF\ OBJ/))])

& #PL . #AP)

| #FinV . #V1: [(pos="VB" & morph=("INF\ AKT" | "SUP\ AKT") | pos="IE")]

& (#V1 . #V2:[pos="VB" & morph=("INF\ SFO" | "SUP\ SFO")])

& (#V2 . #AP | #V2 . #PL:[(pos="PL" | (pos="PN" & morph=/.\*DEF\ OBJ/))])

& #PL . #AP)

| #V1 . #V2: [(pos="VB" & morph=("INF\ AKT" | "SUP\ AKT") | pos="IE")]

& #V2 . #V3:[pos="VB" & morph=("INF\ SFO" | "SUP\ SFO")]

& (#V3 . #LNP2 | #V3 . #PL:[(pos="PL" | (pos="PN" & morph=/.\*DEF\ OBJ/))])

& #PL . #AP))))

& #S >@1 #LS

& (#MC:[cat="ROOT"] > #S | #MC:[cat="ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S

& ([pos != ("SN"|"KN"|"HA")]) . #LS & #LS:[pos!=("SN"|"KN"|"HA")]

| #MC >@1 #LS & #LS:[pos!=("SN"|"KN"|"HA")])

| #EC:[cat != "ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S

& (#SBNC:[pos=("SN"|"KN"|"HA")]) . #LS | #S >@1 #SBNC:[pos=("SN"|"KN"|"HA")]

| ([pos != ("SN"|"KN"|"HA")]) . #LS & #LS:[pos!=("SN"|"KN"|"HA")]

| #EC >@1 #LS & #LS:[pos!=("SN"|"KN"|"HA")]))

| #EC:[cat="ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S

& (#SBNC:[pos=("SN"|"KN"|"HA")]) . #LS | #S >@1 #SBNC:[pos=("SN"|"KN"|"HA")]))

## Passive pattern 2: preverbal adverbial

```
#S:[cat="S"]
& #NP1:[cat="NP"] & #NP1 >@1 #LNP1 & #NP1 >@r #RNP1 & #S > #NP1
& #NP2:[cat="NP"] & #NP2 >@1 #LNP2 & #NP2 >@r #RNP2 & #S >* #NP2
& #APP:[cat="PP"] & #APP > #AP:[pos="PP" & word=("av" | "AV" | "aV" | "Av")] & #AP.#LNP2
& (#S >@1 [pos!="H./] | #S >@1 #REL:[pos="HA"] & #NP1 !>@1 #REL)

& #AVP:[cat="AVP"] & #AVP >@1 #LAVP & #AVP >@r #RAVP
& (#RNP1 . #LAVP | #AVP2:[cat="AVP"] & #AVP2 >@1 #LAVP2 & #AVP2 >@r #RAVP2
  & #RNP1 . #LAVP2 & #RAVP2 . #LAVP)

& (#FinV:[pos="VB" & morph=("PRS\ SFO" | "PRT\ SFO")] & #S > #FinV & #RAVP . #FinV
  & (#FinV . #AP | #FinV . #PL:[(pos="PL" | (pos="PN" & morph=/. *DEF\ OBJ/))]
  & #PL . #AP) & (#RNP2 . #END:[pos!="VB"] | [cat="ROOT"] >@r #RNP2)

| #FinV:[pos="VB" & morph=("PRS\ AKT" | "PRT\ AKT")] & #S > #FinV & #RAVP . #FinV
  & (#FinV . #V1:[pos="VB" & morph=("INF\ SFO" | "SUP\ SFO")]
    & (#V1 . #AP | #V1 . #PL:[(pos="PL" | (pos="PN" & morph=/. *DEF\ OBJ/))]
    & #PL . #AP)

| #FinV . #V1: [(pos="VB" & morph=("INF\ AKT" | "SUP\ AKT") | pos="IE")]
  & (#V1 . #V2: [pos="VB" & morph=("INF\ SFO" | "SUP\ SFO")]
    & (#V2 . #AP | #V2 . #PL:[(pos="PL" | (pos="PN" & morph=/. *DEF\ OBJ/))]
    & #PL . #AP)

| #V1 . #V2: [pos="VB" & morph=("INF\ AKT" | "SUP\ AKT")]
  & #V2 . #V3:[pos="VB" & morph=("INF\ SFO" | "SUP\ SFO")]
  & (#V3 . #AP | #V3 . #PL:[(pos="PL" | (pos="PN" & morph=/. *DEF\ OBJ/))]
  & #PL . #AP)))

& #S >@1 #LS
& (#MC:[cat="ROOT"] > #S | #MC:[cat="ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S
  & ([pos != ("SN"|"KN"|"HA")] . #LS & #LS:[pos!="SN"|"KN"|"HA"] ]
  | #MC >@1 #LS & #LS:[pos!="SN"|"KN"|"HA"]))

| #EC:[cat != "ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S
  & (#SBNC:[pos=("SN"|"KN"|"HA")] . #LS | #S >@1 #SBNC:[pos=("SN"|"KN"|"HA")]
    | ([pos != ("SN"|"KN"|"HA")] . #LS & #LS:[pos!="SN"|"KN"|"HA"] ]
    | #EC >@1 #LS & #LS:[pos!="SN"|"KN"|"HA"])))

| #EC:[cat="ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S
  & (#SBNC:[pos=("SN"|"KN"|"HA")] . #LS | #S >@1 #SBNC:[pos=("SN"|"KN"|"HA")]))
```

### Passive pattern 3: postverbal adverbial

#S:[cat="S"]

& #NP1:[cat="NP"] & #NP1 >@1 #LNP1 & #NP1 >@r #RNP1 & #S > #NP1

& #NP2:[cat="NP"] & #NP2 >@1 #LNP2 & #NP2 >@r #RNP2 & #S >\* #NP2

& #APP:[cat="PP"] & #APP > #AP:[pos="PP" & word=("av" | "AV" | "aV" | "Av")] & #AP.#LNP2

& #AVP:[cat="AVP"] & #AVP >@1 #LAVP & #AVP >@r #RAVP

& (#S >@1 [pos!="H./"] | #S >@1 #REL:[pos="HA"] & #NP1 !>@1 #REL)

& (#FinV:[pos="VB" & morph=("PRS\ SFO" | "PRT\ SFO")] & #S > #FinV & #RNP1 . #FinV

& (#FinV . #LAVP | #AVP2:[cat="AVP"] & #AVP2 >@1 #LAVP2 & #AVP2 >@r #RAVP2

& #FinV . #LAVP2 & #RAVP2 . #LAVP)

& (#RAVP . #AP | #RAVP . #PL:[(pos="PL" | (pos="PN" & morph=/. \*DEF\ OBJ/))])

& #PL . #AP) & (#RNP2 . #END:[pos!="VB" | [cat="ROOT"]]) >@r #RNP2)

// AVP följs av PL och/eller NP2, som följs av ej verb eller inget

| #FinV:[pos="VB" & morph=("PRS\ AKT" | "PRT\ AKT")] & #S > #FinV & #RNP1 . #FinV

& (#FinV . #LAVP | #AVP2:[cat="AVP"] & #AVP2 >@1 #LAVP2 & #AVP2 >@r #RAVP2

& #FinV . #LAVP2 & #RAVP2 . #LAVP)

& (#RAVP . #V1:[pos="VB" & morph=("INF\ SFO" | "SUP\ SFO")])

& (#V1 . #AP | #V1 . #PL:[(pos="PL" | (pos="PN" & morph=/. \*DEF\ OBJ/))])

& #PL . #AP)

| (#RAVP . #V1:[(pos="VB" & morph=("INF\ AKT" | "SUP\ AKT")) pos="IE"])

& #V1 . #V2:[pos="VB" & morph=("INF\ SFO" | "SUP\ SFO")])

& (#V2 . #AP | #V2 . #PL:[(pos="PL" | (pos="PN" & morph=/. \*DEF\ OBJ/))])

& #PL . #AP)

| #V1 . #V2:[pos="VB" & morph=("INF\ AKT" | "SUP\ AKT")])

& #V2 . #V3:[pos="VB" & morph=("INF\ SFO" | "SUP\ SFO")])

& (#V3 . #AP | #V3 . #PL:[(pos="PL" | (pos="PN" & morph=/. \*DEF\ OBJ/))])

& #PL . #AP))))

& #S >@1 #LS

& (#MC:[cat="ROOT"] > #S | #MC:[cat="ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S

& ([pos != ("SN"|"KN"|"HA")]) . #LS & #LS:[pos!="SN"|"KN"|"HA"] ]

| #MC >@1 #LS & #LS:[pos!="SN"|"KN"|"HA"]])

| #EC:[cat != "ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S

& (#SBNC:[pos=("SN"|"KN"|"HA")]) . #LS | #S >@1 #SBNC:[pos=("SN"|"KN"|"HA")]

| ([pos != ("SN"|"KN"|"HA")]) . #LS & #LS:[pos!="SN"|"KN"|"HA"] ]

| #EC >@1 #LS & #LS:[pos!="SN"|"KN"|"HA"]]))

| #EC:[cat="ROOT"] > #SDOM:[cat!="NP"] & #SDOM > #S

& (#SBNC:[pos=("SN"|"KN"|"HA")]) . #LS | #S >@1 #SBNC:[pos=("SN"|"KN"|"HA")]))