egibson-2:stanford-parser-2010-11-30 egibson$ ./lexparser-more-mem.csh ../stories\_jan26\_2011\_final/Story10\_finalized.txt

Loading parser from serialized file ./englishPCFG.ser.gz ... done [2.2 sec].

../stories\_jan26\_2011\_final/Story10\_finalized.txt

Parsing file: ../stories\_jan26\_2011\_final/Story10\_finalized.txt with 43 sentences.

Parsing [sent. 1 len. 39]: [Tourette, 's, syndrome, ,, a, neurological, disorder, characterized, by, repetitive, ,, involuntary, movements, ,, was, named, for, Dr., Georges, Gilles, de, la, Tourette, ,, the, pioneering, French, neurologist, who, first, described, the, condition, in, an, eighty-six-year-old, French, noblewoman, .]

(ROOT

(S

(NP

(NP

(NP (NNP Tourette) (POS 's))

(NN syndrome))

(, ,)

(NP

(NP (DT a) (JJ neurological) (NN disorder))

(VP (VBN characterized)

(PP (IN by)

(NP (JJ repetitive) (, ,) (JJ involuntary) (NNS movements)))))

(, ,))

(VP (VBD was)

(VP (VBN named)

(PP (IN for)

(NP

(NP (NNP Dr.) (NNP Georges) (NNP Gilles) (FW de) (FW la) (NNP Tourette))

(, ,)

(NP

(NP (DT the) (JJ pioneering) (JJ French) (NN neurologist))

(SBAR

(WHNP (WP who))

(S

(ADVP (RB first))

(VP (VBD described)

(NP (DT the) (NN condition))

(PP (IN in)

(NP (DT an) (JJ eighty-six-year-old) (JJ French) (NN noblewoman)))))))))))

(. .)))

poss(syndrome-3, Tourette-1)

nsubjpass(named-16, syndrome-3)

det(disorder-7, a-5)

amod(disorder-7, neurological-6)

appos(syndrome-3, disorder-7)

partmod(disorder-7, characterized-8)

amod(movements-13, repetitive-10)

amod(movements-13, involuntary-12)

agent(characterized-8, movements-13)

auxpass(named-16, was-15)

nn(Tourette-23, Dr.-18)

nn(Tourette-23, Georges-19)

nn(Tourette-23, Gilles-20)

nn(Tourette-23, de-21)

nn(Tourette-23, la-22)

prep\_for(named-16, Tourette-23)

det(neurologist-28, the-25)

amod(neurologist-28, pioneering-26)

amod(neurologist-28, French-27)

appos(Tourette-23, neurologist-28)

nsubj(described-31, neurologist-28)

advmod(described-31, first-30)

rcmod(neurologist-28, described-31)

det(condition-33, the-32)

dobj(described-31, condition-33)

det(noblewoman-38, an-35)

amod(noblewoman-38, eighty-six-year-old-36)

amod(noblewoman-38, French-37)

prep\_in(described-31, noblewoman-38)

Parsing [sent. 2 len. 30]: [It, is, almost, always, in, childhood, that, the, early, symptoms, of, Tourette, 's, are, first, noticed, ,, with, the, average, onset, between, the, ages, of, seven, and, ten, years, .]

(ROOT

(S

(NP (PRP It))

(VP (VBZ is)

(ADVP (RB almost) (RB always))

(PP (IN in)

(NP (NN childhood)))

(SBAR (IN that)

(S

(NP

(NP (DT the) (JJ early) (NNS symptoms))

(PP (IN of)

(NP (NNP Tourette) (POS 's))))

(VP (VBP are)

(ADVP (RB first))

(VP (VBN noticed) (, ,)

(PP (IN with)

(NP

(NP (DT the) (JJ average) (NN onset))

(PP (IN between)

(NP

(NP (DT the) (NNS ages))

(PP (IN of)

(NP (CD seven)

(CC and)

(CD ten) (NNS years))))))))))))

(. .)))

nsubj(is-2, It-1)

advmod(always-4, almost-3)

advmod(is-2, always-4)

prep\_in(is-2, childhood-6)

complm(noticed-16, that-7)

det(symptoms-10, the-8)

amod(symptoms-10, early-9)

nsubjpass(noticed-16, symptoms-10)

prep\_of(symptoms-10, Tourette-12)

possessive(Tourette-12, 's-13)

auxpass(noticed-16, are-14)

advmod(noticed-16, first-15)

ccomp(is-2, noticed-16)

det(onset-21, the-19)

amod(onset-21, average-20)

prep\_with(noticed-16, onset-21)

det(ages-24, the-23)

prep\_between(onset-21, ages-24)

nn(years-29, seven-26)

conj\_and(seven-26, ten-28)

nn(years-29, ten-28)

prep\_of(ages-24, years-29)

Parsing [sent. 3 len. 45]: [It, is, estimated, that, two, hundred, thousand, Americans, have, the, most, severe, form, of, Tourette, 's, ,, and, as, many, as, one, in, a, hundred, people, exhibit, milder, and, less, complex, symptoms, that, include, chronic, motor, and, vocal, tics, or, transient, tics, of, childhood, .]

(ROOT

(S

(S

(NP (PRP It))

(VP (VBZ is)

(VP (VBN estimated)

(SBAR (IN that)

(S

(NP

(QP (CD two) (CD hundred) (CD thousand))

(NNS Americans))

(VP (VBP have)

(NP

(NP (DT the)

(ADJP (RBS most) (JJ severe))

(NN form))

(PP (IN of)

(NP (NNP Tourette) (POS 's))))))))))

(, ,)

(CC and)

(S

(NP

(QP (RB as) (JJ many) (IN as) (NP (CD one)

(PP (IN in)

(NP (DT a) (CD hundred))))) (NNS people))

(VP (VBP exhibit)

(NP

(NP

(ADJP

(ADJP (JJ milder))

(CC and)

(ADJP (RBR less) (JJ complex)))

(NNS symptoms))

(SBAR

(WHNP (WDT that))

(S

(VP (VBP include)

(NP (NP

(ADJP

(ADJP (JJ chronic) (JJ motor))

(CC and)

(ADJP (JJ vocal))) (NN tics))

(CC or)

(NP

(NP (JJ transient) (NN tics))

(PP (IN of)

(NP (NN childhood)))))))))))

(. .)))

nsubjpass(estimated-3, It-1)

auxpass(estimated-3, is-2)

complm(have-9, that-4)

number(hundred-6, two-5)

number(thousand-7, hundred-6)

num(Americans-8, thousand-7)

nsubj(have-9, Americans-8)

ccomp(estimated-3, have-9)

det(form-13, the-10)

advmod(severe-12, most-11)

amod(form-13, severe-12)

dobj(have-9, form-13)

prep\_of(form-13, Tourette-15)

possessive(Tourette-15, 's-16)

quantmod(one-22, as-19)

quantmod(one-22, many-20)

quantmod(one-22, as-21)

nsubj(exhibit-27, people-26)

det(hundred-25, a-24)

quantmod(people-26, one-22)

prep\_in(one-22, hundred-25)

conj\_and(estimated-3, exhibit-27)

amod(symptoms-32, milder-28)

advmod(complex-31, less-30)

conj\_and(milder-28, complex-31)

amod(symptoms-32, complex-31)

dobj(exhibit-27, symptoms-32)

nsubj(include-34, symptoms-32)

rcmod(symptoms-32, include-34)

amod(tics-39, chronic-35)

dobj(include-34, tics-39)

amod(tics-39, vocal-38)

amod(tics-39, motor-36)

dobj(include-34, tics-39)

conj\_and(motor-36, vocal-38)

amod(tics-42, transient-41)

dobj(include-34, tics-42)

conj\_or(tics-39, tics-42)

prep\_of(tics-42, childhood-44)

Parsing [sent. 4 len. 23]: [For, the, majority, of, people, diagnosed, with, the, disorder, ,, Tourette, 's, is, not, a, chronic, condition, with, symptoms, lasting, a, lifetime, .]

(ROOT

(S

(PP (IN For)

(NP

(NP (DT the) (NN majority))

(PP (IN of)

(NP

(NP (NNS people))

(VP (VBN diagnosed)

(PP (IN with)

(NP (DT the) (NN disorder))))))))

(, ,)

(NP (NNP Tourette) (POS 's))

(VP (VBZ is) (RB not)

(NP

(NP (DT a) (JJ chronic) (NN condition))

(PP (IN with)

(NP

(NP (NNS symptoms))

(VP (VBG lasting)

(NP (DT a) (NN lifetime)))))))

(. .)))

det(majority-3, the-2)

prep\_for(condition-17, majority-3)

prep\_of(majority-3, people-5)

partmod(people-5, diagnosed-6)

det(disorder-9, the-8)

prep\_with(diagnosed-6, disorder-9)

nsubj(condition-17, Tourette-11)

possessive(Tourette-11, 's-12)

cop(condition-17, is-13)

neg(condition-17, not-14)

det(condition-17, a-15)

amod(condition-17, chronic-16)

prep\_with(condition-17, symptoms-19)

partmod(symptoms-19, lasting-20)

det(lifetime-22, a-21)

dobj(lasting-20, lifetime-22)

Parsing [sent. 5 len. 25]: [Rather, it, is, a, condition, whose, severity, peaks, in, the, early, teens, ,, with, improvement, occurring, in, the, late, teens, and, continuing, into, adulthood, .]

(ROOT

(S

(ADVP (RB Rather))

(NP (PRP it))

(VP (VBZ is)

(NP

(NP (DT a) (NN condition))

(SBAR

(WHNP (WP$ whose) (NNS severity))

(S

(VP (VBZ peaks)

(PP (IN in)

(NP (DT the) (JJ early) (NNS teens)))

(, ,)

(PP (IN with)

(NP

(NP (NN improvement))

(VP

(VP (VBG occurring)

(PP (IN in)

(NP (DT the) (JJ late) (NNS teens))))

(CC and)

(VP (VBG continuing)

(PP (IN into)

(NP (NN adulthood))))))))))))

(. .)))

advmod(condition-5, Rather-1)

nsubj(condition-5, it-2)

cop(condition-5, is-3)

det(condition-5, a-4)

poss(severity-7, condition-5)

nsubj(peaks-8, severity-7)

rcmod(condition-5, peaks-8)

det(teens-12, the-10)

amod(teens-12, early-11)

prep\_in(peaks-8, teens-12)

prep\_with(peaks-8, improvement-15)

dep(improvement-15, occurring-16)

det(teens-20, the-18)

amod(teens-20, late-19)

prep\_in(occurring-16, teens-20)

dep(improvement-15, continuing-22)

conj\_and(occurring-16, continuing-22)

prep\_into(continuing-22, adulthood-24)

Parsing [sent. 6 len. 19]: [However, ,, approximately, ten, percent, of, those, affected, have, a, progressive, or, disabling, course, that, lasts, into, adulthood, .]

(ROOT

(S

(ADVP (RB However))

(, ,)

(NP

(NP

(QP (RB approximately) (CD ten))

(NN percent))

(PP (IN of)

(NP

(NP (DT those))

(VP (VBN affected)))))

(VP (VBP have)

(NP (DT a)

(ADJP (JJ progressive)

(CC or)

(VBG disabling))

(NN course)

(SBAR

(WHNP (WDT that))

(S

(VP (VBZ lasts)

(PP (IN into)

(NP (NN adulthood))))))))

(. .)))

advmod(have-9, However-1)

quantmod(ten-4, approximately-3)

num(percent-5, ten-4)

nsubj(have-9, percent-5)

prep\_of(percent-5, those-7)

partmod(those-7, affected-8)

det(course-14, a-10)

amod(course-14, progressive-11)

conj\_or(progressive-11, disabling-13)

amod(course-14, disabling-13)

dobj(have-9, course-14)

nsubj(lasts-16, that-15)

ccomp(course-14, lasts-16)

prep\_into(lasts-16, adulthood-18)

Parsing [sent. 7 len. 25]: [It, is, not, uncommon, for, symptoms, to, be, present, for, an, extended, period, of, time, before, a, formal, diagnosis, of, Tourette, 's, is, obtained, .]

(ROOT

(S

(NP (PRP It))

(VP (VBZ is) (RB not)

(ADJP (JJ uncommon)

(PP (IN for)

(NP (NNS symptoms))))

(S

(VP (TO to)

(VP (VB be)

(ADJP (JJ present)

(PP (IN for)

(NP

(NP (DT an) (VBN extended) (NN period))

(PP (IN of)

(NP (NN time))))))

(SBAR (IN before)

(S

(NP

(NP (DT a) (JJ formal) (NN diagnosis))

(PP (IN of)

(NP (NNP Tourette) (POS 's))))

(VP (VBZ is)

(VP (VBN obtained)))))))))

(. .)))

nsubj(uncommon-4, It-1)

xsubj(present-9, It-1)

cop(uncommon-4, is-2)

neg(uncommon-4, not-3)

prep\_for(uncommon-4, symptoms-6)

aux(present-9, to-7)

cop(present-9, be-8)

xcomp(uncommon-4, present-9)

det(period-13, an-11)

amod(period-13, extended-12)

prep\_for(present-9, period-13)

prep\_of(period-13, time-15)

mark(obtained-24, before-16)

det(diagnosis-19, a-17)

amod(diagnosis-19, formal-18)

nsubjpass(obtained-24, diagnosis-19)

prep\_of(diagnosis-19, Tourette-21)

possessive(Tourette-21, 's-22)

auxpass(obtained-24, is-23)

advcl(present-9, obtained-24)

Parsing [sent. 8 len. 45]: [The, reasons, for, this, are, many, and, may, include, the, fact, that, for, families, and, physicians, unfamiliar, with, Tourette, 's, ,, mild, and, even, moderate, tic, symptoms, may, be, considered, inconsequential, ,, part, of, a, developmental, phase, ,, or, the, result, of, another, condition, .]

(ROOT

(S

(NP

(NP (DT The) (NNS reasons))

(PP (IN for)

(NP (DT this))))

(VP

(VP (VBP are)

(ADJP (JJ many)))

(CC and)

(VP (MD may)

(VP (VB include)

(NP

(NP (DT the) (NN fact))

(SBAR (IN that)

(S

(PP (IN for)

(NP (NP (NNS families)

(CC and)

(NNS physicians))

(S (ADJP (JJ unfamiliar)

(PP (IN with)

(NP (NNP Tourette) (POS 's)))))))

(, ,) (NP (ADJP (ADJP (JJ mild))

(CC and)

(ADJP (RB even) (JJ moderate)))

(NN tic) (NNS symptoms))

(VP (MD may)

(VP (VB be)

(VP (VBN considered)

(UCP

(ADJP (JJ inconsequential))

(, ,)

(NP

(NP (NN part))

(PP (IN of)

(NP (DT a) (JJ developmental) (NN phase))))

(, ,)

(CC or)

(NP

(NP (DT the) (NN result))

(PP (IN of)

(NP (DT another) (NN condition))))))))))))))

(. .)))

det(reasons-2, The-1)

nsubj(many-6, reasons-2)

nsubj(include-9, reasons-2)

prep\_for(reasons-2, this-4)

cop(many-6, are-5)

aux(include-9, may-8)

conj\_and(many-6, include-9)

det(fact-11, the-10)

dobj(include-9, fact-11)

complm(considered-30, that-12)

prep\_for(considered-30, families-14)

conj\_and(families-14, physicians-16)

prep\_for(considered-30, physicians-16)

amod(physicians-16, unfamiliar-17)

amod(families-14, unfamiliar-17)

prep\_with(unfamiliar-17, Tourette-19)

possessive(Tourette-19, 's-20)

amod(symptoms-27, mild-22)

advmod(moderate-25, even-24)

conj\_and(mild-22, moderate-25)

amod(symptoms-27, moderate-25)

nn(symptoms-27, tic-26)

nsubjpass(considered-30, symptoms-27)

aux(considered-30, may-28)

auxpass(considered-30, be-29)

dep(fact-11, considered-30)

acomp(considered-30, inconsequential-31)

dobj(considered-30, part-33)

conj\_or(inconsequential-31, part-33)

det(phase-37, a-35)

amod(phase-37, developmental-36)

prep\_of(part-33, phase-37)

det(result-41, the-40)

dobj(considered-30, result-41)

conj\_or(part-33, result-41)

det(condition-44, another-43)

prep\_of(result-41, condition-44)

Parsing [sent. 9 len. 23]: [For, example, ,, parents, may, think, that, eye, blinking, is, related, to, vision, problems, or, that, sniffing, is, related, to, seasonal, allergies, .]

(ROOT

(S

(PP (IN For)

(NP (NN example)))

(, ,)

(NP (NNS parents))

(VP (MD may)

(VP (VB think)

(SBAR

(SBAR (IN that)

(S

(NP (NN eye) (NNS blinking))

(VP (VBZ is)

(ADJP (JJ related)

(PP (TO to)

(NP (NN vision) (NNS problems)))))))

(CC or)

(SBAR (IN that)

(S

(NP (NNP sniffing))

(VP (VBZ is)

(ADJP (JJ related)

(PP (TO to)

(NP (JJ seasonal) (NNS allergies))))))))))

(. .)))

prep\_for(think-6, example-2)

nsubj(think-6, parents-4)

aux(think-6, may-5)

complm(related-11, that-7)

nn(blinking-9, eye-8)

nsubj(related-11, blinking-9)

cop(related-11, is-10)

ccomp(think-6, related-11)

nn(problems-14, vision-13)

prep\_to(related-11, problems-14)

complm(related-19, that-16)

nsubj(related-19, sniffing-17)

cop(related-19, is-18)

ccomp(think-6, related-19)

conj\_or(related-11, related-19)

amod(allergies-22, seasonal-21)

prep\_to(related-19, allergies-22)

Parsing [sent. 10 len. 27]: [There, are, many, patients, who, are, self-diagnosed, after, they, ,, their, parents, ,, other, relatives, ,, or, friends, read, or, hear, about, Tourette, 's, from, others, .]

(ROOT

(S

(NP (EX There))

(VP (VBP are)

(NP

(NP (JJ many) (NNS patients))

(SBAR

(WHNP (WP who))

(S

(VP (VBP are)

(ADJP (JJ self-diagnosed)

(SBAR (IN after)

(S

(NP

(NP (PRP they))

(, ,)

(NP (PRP$ their) (NNS parents))

(, ,)

(NP (JJ other) (NNS relatives))

(, ,)

(CC or)

(NP (NNS friends)))

(VP (VB read)

(CC or)

(VB hear)

(PP (IN about)

(NP (NNP Tourette) (POS 's)))

(PP (IN from)

(NP (NNS others))))))))))))

(. .)))

expl(are-2, There-1)

amod(patients-4, many-3)

nsubj(are-2, patients-4)

nsubj(self-diagnosed-7, patients-4)

cop(self-diagnosed-7, are-6)

rcmod(patients-4, self-diagnosed-7)

mark(read-19, after-8)

nsubj(read-19, they-9)

nsubj(hear-21, they-9)

poss(parents-12, their-11)

conj\_or(they-9, parents-12)

nsubj(read-19, parents-12)

amod(relatives-15, other-14)

conj\_or(they-9, relatives-15)

nsubj(read-19, relatives-15)

conj\_or(they-9, friends-18)

nsubj(read-19, friends-18)

ccomp(self-diagnosed-7, read-19)

ccomp(self-diagnosed-7, hear-21)

conj\_or(read-19, hear-21)

prep\_about(read-19, Tourette-23)

possessive(Tourette-23, 's-24)

prep\_from(read-19, others-26)

Parsing [sent. 11 len. 9]: [Tics, are, classified, as, either, simple, or, complex, .]

(ROOT

(S

(NP (NNS Tics))

(VP (VBP are)

(VP (VBN classified)

(PP (IN as)

(NP (CC either)

(NP (NN simple))

(CC or)

(NP (NN complex))))))

(. .)))

nsubjpass(classified-3, Tics-1)

auxpass(classified-3, are-2)

preconj(simple-6, either-5)

prep\_as(classified-3, simple-6)

prep\_as(classified-3, complex-8)

conj\_or(simple-6, complex-8)

Parsing [sent. 12 len. 19]: [Simple, motor, tics, are, sudden, ,, brief, ,, repetitive, movements, that, involve, a, limited, number, of, muscle, groups, .]

(ROOT

(S

(NP (JJ Simple) (JJ motor) (NNS tics))

(VP (VBP are)

(NP

(NP

(ADJP

(ADJP (JJ sudden))

(, ,)

(ADJP (JJ brief))

(, ,)

(ADJP (JJ repetitive)))

(NNS movements))

(SBAR

(WHNP (WDT that))

(S

(VP (VBP involve)

(NP

(NP (DT a) (JJ limited) (NN number))

(PP (IN of)

(NP (NN muscle) (NNS groups)))))))))

(. .)))

amod(tics-3, Simple-1)

amod(tics-3, motor-2)

nsubj(movements-10, tics-3)

cop(movements-10, are-4)

amod(movements-10, sudden-5)

amod(movements-10, brief-7)

amod(movements-10, repetitive-9)

conj(sudden-5, brief-7)

conj(sudden-5, repetitive-9)

nsubj(involve-12, movements-10)

rcmod(movements-10, involve-12)

det(number-15, a-13)

amod(number-15, limited-14)

dobj(involve-12, number-15)

nn(groups-18, muscle-17)

prep\_of(number-15, groups-18)

Parsing [sent. 13 len. 23]: [Some, of, the, more, common, simple, tics, include, eye, blinking, ,, facial, grimacing, ,, shoulder, shrugging, ,, and, head, or, shoulder, jerking, .]

(ROOT

(S

(NP

(NP (DT Some))

(PP (IN of)

(NP (DT the)

(ADJP (RBR more) (JJ common))

(JJ simple) (NN tics))))

(VP (VBP include)

(NP

(NP (NN eye) (NN blinking))

(, ,)

(NP (JJ facial) (NN grimacing))

(, ,)

(NP (NN shoulder) (NN shrugging))

(, ,)

(CC and)

(NP (NN head)

(CC or)

(NN shoulder) (NN jerking))))

(. .)))

nsubj(include-8, Some-1)

det(tics-7, the-3)

advmod(common-5, more-4)

amod(tics-7, common-5)

amod(tics-7, simple-6)

prep\_of(Some-1, tics-7)

nn(blinking-10, eye-9)

dobj(include-8, blinking-10)

amod(grimacing-13, facial-12)

dobj(include-8, grimacing-13)

conj\_and(blinking-10, grimacing-13)

nn(shrugging-16, shoulder-15)

dobj(include-8, shrugging-16)

conj\_and(blinking-10, shrugging-16)

nn(jerking-22, head-19)

conj\_or(head-19, shoulder-21)

nn(jerking-22, shoulder-21)

dobj(include-8, jerking-22)

conj\_and(blinking-10, jerking-22)

Parsing [sent. 14 len. 20]: [Simple, vocalizations, ,, which, motor, tics, typically, precede, ,, might, include, repetitive, throat-clearing, ,, sniffing, ,, or, grunting, sounds, .]

(ROOT

(S

(NP

(NP (JJ Simple) (NNS vocalizations))

(, ,)

(SBAR

(WHNP (WDT which))

(S

(NP (NN motor) (NNS tics))

(ADVP (RB typically))

(VP (VB precede))))

(, ,))

(VP (MD might)

(VP (VB include)

(NP (JJ repetitive)

(ADJP

(ADJP (JJ throat-clearing))

(, ,)

(ADJP (JJ sniffing))

(, ,)

(CC or)

(ADJP (JJ grunting)))

(NNS sounds))))

(. .)))

amod(vocalizations-2, Simple-1)

dobj(precede-8, vocalizations-2)

nsubj(include-11, vocalizations-2)

rel(precede-8, which-4)

nn(tics-6, motor-5)

nsubj(precede-8, tics-6)

advmod(precede-8, typically-7)

rcmod(vocalizations-2, precede-8)

aux(include-11, might-10)

amod(sounds-19, repetitive-12)

amod(sounds-19, throat-clearing-13)

conj\_or(throat-clearing-13, sniffing-15)

amod(sounds-19, sniffing-15)

conj\_or(throat-clearing-13, grunting-18)

amod(sounds-19, grunting-18)

dobj(include-11, sounds-19)

Parsing [sent. 15 len. 15]: [Complex, tics, are, distinct, ,, coordinated, patterns, of, movement, that, involve, several, muscle, groups, .]

(ROOT

(S

(NP (JJ Complex) (NNS tics))

(VP

(VP (VBP are)

(NP (NP (NP (JJ distinct)(, ,)(VBN coordinated) (NNS patterns))

(PP (IN of)

(NP (NN movement))))

(SBAR

(WHNP (WDT that))

(S

(VP (VBP involve)

(NP (JJ several) (NN muscle) (NNS groups))))))))

(. .)))

amod(tics-2, Complex-1)

nsubj(patterns-7, tics-2)

cop(patterns-7, are-3)

amod(patterns-7, distinct-4)

amod(patterns-7, coordinated-6)

nsubj(involve-11, patterns-7)

prep\_of(patterns-7, movement-9)

rcmod(patterns-7, involve-11)

amod(groups-14, several-12)

nn(groups-14, muscle-13)

dobj(involve-11, groups-14)

Parsing [sent. 16 len. 17]: [Complex, motor, tics, might, include, facial, grimacing, combined, with, a, head, twist, and, a, shoulder, shrug, .]

(ROOT

(S

(NP (JJ Complex) (JJ motor) (NNS tics))

(VP (MD might)

(VP (VB include)

(NP (NP (JJ facial) (NN grimacing))

(PP (VBN combined)

(PP (IN with)

(NP

(NP (DT a) (NN head) (NN twist))

(CC and)

(NP (DT a) (NN shoulder) (NN shrug))))))))

(. .)))

amod(tics-3, Complex-1)

amod(tics-3, motor-2)

nsubj(include-5, tics-3)

aux(include-5, might-4)

amod(grimacing-7, facial-6)

dobj(include-5, grimacing-7)

prep(grimacing-7, combined-8)

pcomp(combined-8, with-9)

det(twist-12, a-10)

nn(twist-12, head-11)

prep\_with(combined-8, twist-12)

det(shrug-16, a-14)

nn(shrug-16, shoulder-15)

prep\_with(combined-8, shrug-16)

conj\_and(twist-12, shrug-16)

Parsing [sent. 17 len. 24]: [Other, complex, motor, tics, may, actually, appear, purposeful, ,, including, sniffing, or, touching, objects, ,, hopping, ,, jumping, ,, bending, ,, or, twisting, .]

(ROOT

(S

(NP (JJ Other) (JJ complex) (JJ motor) (NNS tics))

(VP (MD may)

(ADVP (RB actually))

(VP (VB appear)

(NP (NN purposeful))))

(, ,)

(PP (VBG including)

(S

(VP

(VP (VBG sniffing)

(CC or)

(VBG touching)

(NP (NNS objects)))

(, ,)

(VP (VBG hopping))

(, ,)

(VP (VBG jumping))

(, ,)

(VP (VBG bending))

(, ,)

(CC or)

(VP (VBG twisting)))))

(. .)))

amod(tics-4, Other-1)

amod(tics-4, complex-2)

amod(tics-4, motor-3)

nsubj(purposeful-8, tics-4)

aux(purposeful-8, may-5)

advmod(purposeful-8, actually-6)

cop(purposeful-8, appear-7)

prepc\_including(tics-4, sniffing-11)

prepc\_including(tics-4, touching-13)

conj\_or(sniffing-11, touching-13)

dobj(sniffing-11, objects-14)

dobj(touching-13, objects-14)

prepc\_including(tics-4, hopping-16)

conj\_or(sniffing-11, hopping-16)

prepc\_including(tics-4, jumping-18)

conj\_or(sniffing-11, jumping-18)

prepc\_including(tics-4, bending-20)

conj\_or(sniffing-11, bending-20)

prepc\_including(tics-4, twisting-23)

conj\_or(sniffing-11, twisting-23)

Parsing [sent. 18 len. 8]: [Complex, vocal, tics, include, words, or, phrases, .]

(ROOT

(S

(NP (JJ Complex) (JJ vocal) (NNS tics))

(VP (VBP include)

(NP (NNS words)

(CC or)

(NNS phrases)))

(. .)))

amod(tics-3, Complex-1)

amod(tics-3, vocal-2)

nsubj(include-4, tics-3)

dobj(include-4, words-5)

dobj(include-4, phrases-7)

conj\_or(words-5, phrases-7)

Parsing [sent. 19 len. 47]: [Perhaps, the, most, dramatic, and, disabling, tics, include, motor, movements, that, result, in, self-harm, such, as, punching, oneself, in, the, face, ,, or, vocal, tics, including, coprolalia, ,, which, involves, uttering, swear, words, ,, or, echolalia, ,, which, involves, repeating, the, words, or, phrases, of, others, .]

(ROOT

(S

(ADVP (RB Perhaps))

(NP (DT the)

(ADJP (RBS most) (JJ dramatic)

(CC and)

(JJ disabling))

(NN tics))

(VP (VBP include)

(NP

(NP

(NP (NP (JJ motor) (NNS movements))

(SBAR

(WHNP (WDT that))

(S

(VP (VBP result)

(PP (IN in)

(NP (NN self-harm)))))))

(PP (JJ such) (IN as)

(S

(VP (VBG punching)

(NP (PRP oneself))

(PP (IN in)

(NP (DT the) (NN face)))))))

(, ,)

(CC or)

(NP

(NP (JJ vocal) (NN tics))

(PP (VBG including)

(NP

(NP (NN coprolalia))

(, ,)

(SBAR

(WHNP (WDT which))

(S

(VP (VBZ involves)

(S

(VP (VBG uttering)

(NP (JJ swear) (NNS words))))))))

(, ,)

(CC or)

(NP

(NP (NN echolalia))

(, ,)

(SBAR

(WHNP (WDT which))

(S

(VP (VBZ involves)

(S

(VP (VBG repeating)

(NP

(NP (DT the) (NNS words)

(CC or)

(NNS phrases))

(PP (IN of)

(NP (NNS others))))))))))))))

(. .)))

advmod(include-8, Perhaps-1)

det(tics-7, the-2)

advmod(dramatic-4, most-3)

amod(tics-7, dramatic-4)

conj\_and(dramatic-4, disabling-6)

amod(tics-7, disabling-6)

nsubj(include-8, tics-7)

amod(movements-10, motor-9)

dobj(include-8, movements-10)

nsubj(result-12, movements-10)

rcmod(movements-10, result-12)

prep\_in(result-12, self-harm-14)

prepc\_such\_as(movements-10, punching-17)

dobj(punching-17, oneself-18)

det(face-21, the-20)

prep\_in(punching-17, face-21)

amod(tics-25, vocal-24)

dobj(include-8, tics-25)

conj\_or(movements-10, tics-25)

nsubj(result-12, tics-25)

prep\_including(tics-25, coprolalia-27)

nsubj(involves-30, coprolalia-27)

rcmod(coprolalia-27, involves-30)

xcomp(involves-30, uttering-31)

amod(words-33, swear-32)

dobj(uttering-31, words-33)

prep\_including(tics-25, echolalia-36)

conj\_or(coprolalia-27, echolalia-36)

conj\_or(movements-10, tics-25)

nsubj(involves-39, echolalia-36)

rcmod(echolalia-36, involves-39)

xcomp(involves-39, repeating-40)

det(words-42, the-41)

dobj(repeating-40, words-42)

dobj(repeating-40, phrases-44)

conj\_or(words-42, phrases-44)

prep\_of(words-42, others-46)

Parsing [sent. 20 len. 16]: [Tics, are, often, worse, with, excitement, or, anxiety, and, better, during, calm, ,, focused, activities, .]

(ROOT

(S

(NP (NNS Tics))

(VP (VBP are)

(ADVP (RB often))

(ADJP

(ADJP (JJR worse)

(PP (IN with)

(NP (NN excitement)

(CC or)

(NN anxiety))))

(CC and)

(ADJP (JJR better)

(PP (IN during)

(NP

(ADJP (JJ calm) (, ,) (VBN focused))

(NNS activities))))))

(. .)))

nsubj(worse-4, Tics-1)

nsubj(better-10, Tics-1)

cop(worse-4, are-2)

advmod(worse-4, often-3)

prep\_with(worse-4, excitement-6)

prep\_with(worse-4, anxiety-8)

conj\_or(excitement-6, anxiety-8)

conj\_and(worse-4, better-10)

conj(focused-14, calm-12)

amod(activities-15, calm-12)

amod(activities-15, focused-14)

prep\_during(better-10, activities-15)

Parsing [sent. 21 len. 9]: [Certain, physical, experiences, can, trigger, or, worsen, tics, .]

(ROOT

(S

(NP (JJ Certain) (JJ physical) (NNS experiences))

(VP (MD can)

(VP (VB trigger)

(CC or)

(VB worsen)

(NP (NN tics))))

(. .)))

amod(experiences-3, Certain-1)

amod(experiences-3, physical-2)

nsubj(trigger-5, experiences-3)

nsubj(worsen-7, experiences-3)

aux(trigger-5, can-4)

conj\_or(trigger-5, worsen-7)

dobj(trigger-5, tics-8)

Parsing [sent. 22 len. 25]: [For, example, ,, tight, collars, may, trigger, neck, tics, ,, or, hearing, another, person, sniff, or, throat-clear, may, trigger, the, production, of, similar, sounds, .]

(ROOT

(S

(PP (IN For)

(NP (NN example)))

(, ,)

(S

(NP (JJ tight) (NNS collars))

(VP (MD may)

(VP (VB trigger)

(NP (NN neck) (NN tics)))))

(, ,)

(CC or)

(S

(S

(VP (VBG hearing)

(S

(NP (DT another) (NN person))

(VP (VB sniff)

(CC or)

(VB throat-clear)))))

(VP (MD may)

(VP (VB trigger)

(NP

(NP (DT the) (NN production))

(PP (IN of)

(NP (JJ similar) (NNS sounds)))))))

(. .)))

prep\_for(trigger-7, example-2)

amod(collars-5, tight-4)

nsubj(trigger-7, collars-5)

aux(trigger-7, may-6)

nn(tics-9, neck-8)

dobj(trigger-7, tics-9)

csubj(trigger-19, hearing-12)

det(person-14, another-13)

ccomp(hearing-12, sniff-15)

ccomp(hearing-12, throat-clear-17)

nsubj(sniff-15, person-14)

nsubj(throat-clear-17, person-14)

conj\_or(sniff-15, throat-clear-17)

aux(trigger-19, may-18)

conj\_or(trigger-7, trigger-19)

det(production-21, the-20)

dobj(trigger-19, production-21)

amod(sounds-24, similar-23)

prep\_of(production-21, sounds-24)

Parsing [sent. 23 len. 18]: [Tics, come, and, go, over, time, ,, varying, in, type, ,, frequency, ,, location, ,, and, severity, .]

(ROOT

(S

(NP (NNS Tics))

(VP (VBP come)

(CC and)

(VBP go)

(PP (IN over)

(NP (NN time)))

(, ,)

(S

(VP (VBG varying)

(PP (IN in)

(NP

(NP (NN type))

(, ,)

(NP (NN frequency))

(, ,)

(NP (NN location))

(, ,)

(CC and)

(NP (NN severity)))))))

(. .)))

nsubj(come-2, Tics-1)

nsubj(go-4, Tics-1)

nsubj(varying-8, Tics-1)

conj\_and(come-2, go-4)

prep\_over(come-2, time-6)

conj\_and(come-2, varying-8)

xcomp(come-2, varying-8)

prep\_in(varying-8, type-10)

prep\_in(varying-8, frequency-12)

conj\_and(type-10, frequency-12)

prep\_in(varying-8, location-14)

conj\_and(type-10, location-14)

prep\_in(varying-8, severity-17)

conj\_and(type-10, severity-17)

Parsing [sent. 24 len. 29]: [The, first, symptoms, Tourette, 's, patients, experience, usually, occur, in, the, head, and, neck, area, ,, though, they, may, progress, to, include, muscles, of, the, trunk, and, extremities, .]

(ROOT

(S

(NP

(NP (DT The) (JJ first) (NNS symptoms))

(SBAR (S (NP (NP (NN Tourette) (POS 's))

(NNS patients)) (VP (VB experience)))))

(ADVP (RB usually))

(VP (VBP occur)

(PP (IN in)

(NP (DT the) (NN head)

(CC and)

(NN neck) (NN area)))

(, ,)

(SBAR (IN though)

(S

(NP (PRP they))

(VP (MD may)

(VP (VB progress)

(S

(VP (TO to)

(VP (VB include)

(NP

(NP (NNS muscles))

(PP (IN of)

(NP

(NP (DT the) (NN trunk))

(CC and)

(NP (NNS extremities)))))))))))))

(. .)))

det(symptoms-3, The-1)

amod(symptoms-3, first-2)

rcmod(symptoms-3, experience-7)

dobj(experience-7, symptoms-3)

nn(patients-6, Tourette-4)

possessive(Tourette-4, ‘s-5)

nsubj(experience-7, patients-6)

nsubj(occur-9, symptoms-3)

advmod(occur-9, usually-8)

det(area-15, the-11)

nn(area-15, head-12)

conj\_and(head-12, neck-14)

nn(area-15, neck-14)

prep\_in(occur-9, area-15)

mark(progress-20, though-17)

nsubj(progress-20, they-18)

xsubj(include-22, they-18)

aux(progress-20, may-19)

advcl(occur-9, progress-20)

aux(include-22, to-21)

xcomp(progress-20, include-22)

dobj(include-22, muscles-23)

det(trunk-26, the-25)

prep\_of(muscles-23, trunk-26)

prep\_of(muscles-23, extremities-28)

conj\_and(trunk-26, extremities-28)

Parsing [sent. 25 len. 35]: [The, symptoms, of, Tourette, 's, are, involuntary, ,, but, there, are, some, people, who, can, sometimes, suppress, ,, camouflage, ,, or, otherwise, manage, their, tics, in, an, effort, to, minimize, their, impact, on, functioning, .]

(ROOT

(S

(S

(NP

(NP (DT The) (NNS symptoms))

(PP (IN of)

(NP (NNP Tourette) (POS 's))))

(VP (VBP are)

(ADJP (JJ involuntary))))

(, ,)

(CC but)

(S

(NP (EX there))

(VP (VBP are)

(NP

(NP (DT some) (NNS people))

(SBAR

(WHNP (WP who))

(S

(VP (MD can)

(ADVP (RB sometimes))

(VP (VP

(VP (VB suppress)) (, ,)

(VP (VB camouflage))

(, ,)

(CC or)

(ADVP (RB otherwise))

(VP (VB manage)))

(NP (PRP$ their) (NN tics))

(PP (IN in)

(NP (DT an) (NN effort)

(S

(VP (TO to)

(VP (VB minimize)

(NP (PRP$ their) (NN impact))

(PP (IN on)

(S

(VP (VBG functioning))))))))))))))))

(. .)))

det(symptoms-2, The-1)

nsubj(involuntary-7, symptoms-2)

prep\_of(symptoms-2, Tourette-4)

possessive(Tourette-4, 's-5)

cop(involuntary-7, are-6)

expl(are-11, there-10)

conj\_but(involuntary-7, are-11)

det(people-13, some-12)

nsubj(are-11, people-13)

nsubj(suppress-17, people-13)

nsubj(camouflage-19, people-13)

nsubj(manage-23, people-13)

aux(suppress-17, can-15)

aux(camouflage-19, can-15)

aux(manage-23, can-15)

advmod(suppress-17, sometimes-16)

advmod(camouflage-19, sometimes-16)

advmod(manage-23, sometimes-16)

rcmod(people-13, suppress-17)

rcmod(people-13, camouflage-19)

rcmod(people-13, manage-23)

advmod(manage-23, otherwise-22)

conj\_or(suppress-17, camouflage-19)

conj\_or(camouflage-19, manage-23)

conj\_or(suppress-17, manage-23)

poss(tics-25, their-24)

dobj(suppress-17, tics-25)

dobj(camouflage-19, tics-25)

dobj(manage-23, tics-25)

det(effort-28, an-27)

prep\_in(suppress-17, effort-28)

prep\_in(camouflage-19, effort-28)

prep\_in(manage-23, effort-28)

aux(minimize-30, to-29)

infmod(effort-28, minimize-30)

poss(impact-32, their-31)

dobj(minimize-30, impact-32)

prepc\_on(minimize-30, functioning-34)

Parsing [sent. 26 len. 32]: [However, ,, people, affected, by, Tourette, 's, often, report, a, substantial, buildup, in, tension, when, suppressing, their, tics, to, the, point, where, they, often, feel, that, the, tic, must, be, expressed, .]

(ROOT

(S

(ADVP (RB However))

(, ,)

(NP

(NP (NNS people))

(VP (VBN affected)

(PP (IN by)

(NP (NNP Tourette) (POS 's)))))

(ADVP (RB often))

(VP (VBP report)

(NP (NP (DT a) (JJ substantial) (NN buildup))

(PP (IN in)

(NP (NN tension)))

(SBAR

(WHADVP (WRB when))

(S

(VP (VBG suppressing)

(NP (PRP$ their) (NN tics)))))

(PP (TO to)

(NP

(NP (DT the) (NN point))

(SBAR

(WHADVP (WRB where))

(S

(NP (PRP they))

(ADVP (RB often))

(VP (VBP feel)

(SBAR (IN that)

(S

(NP (DT the) (NN tic))

(VP (MD must)

(VP (VB be)

(VP (VBN expressed)))))))))))))

(. .)))

advmod(report-9, However-1)

nsubj(report-9, people-3)

partmod(people-3, affected-4)

agent(affected-4, Tourette-6)

possessive(Tourette-6, 's-7)

advmod(report-9, often-8)

det(buildup-12, a-10)

amod(buildup-12, substantial-11)

dobj(report-9, buildup-12)

prep\_in(buildup-12, tension-14)

advmod(suppressing-16, when-15)

advcl(buildup-12, suppressing-16)

poss(tics-18, their-17)

dobj(suppressing-16, tics-18)

det(point-21, the-20)

prep\_to(buildup-12, point-21)

advmod(feel-25, where-22)

nsubj(feel-25, they-23)

advmod(feel-25, often-24)

rcmod(point-21, feel-25)

complm(expressed-31, that-26)

det(tic-28, the-27)

nsubjpass(expressed-31, tic-28)

aux(expressed-31, must-29)

auxpass(expressed-31, be-30)

ccomp(feel-25, expressed-31)

Parsing [sent. 27 len. 19]: [Tics, in, response, to, an, environmental, trigger, can, appear, to, be, voluntary, or, purposeful, ,, but, are, not, .]

(ROOT

(S

(NP

(NP (NNS Tics))

(PP (IN in) (NN response) (TO to)

(NP (DT an) (JJ environmental) (NN trigger))))

(VP

(VP (MD can)

(VP (VB appear)

(S

(VP (TO to)

(VP (VB be)

(ADJP (JJ voluntary)

(CC or)

(JJ purposeful)))))))

(, ,)

(CC but)

(VP (VBP are) (RB not)))

(. .)))

nsubj(appear-9, Tics-1)

xsubj(voluntary-12, Tics-1)

nsubj(are-17, Tics-1)

prep\_in(Tics-1, response-3)

prep\_to(Tics-1, trigger-7)

det(trigger-7, an-5)

amod(trigger-7, environmental-6)

aux(appear-9, can-8)

aux(voluntary-12, to-10)

cop(voluntary-12, be-11)

xcomp(appear-9, voluntary-12)

xcomp(appear-9, purposeful-14)

conj\_or(voluntary-12, purposeful-14)

conj\_but(appear-9, are-17)

neg(are-17, not-18)

Parsing [sent. 28 len. 17]: [Many, people, with, Tourette, 's, experience, additional, neurobehavioral, problems, that, include, inattention, ,, hyperactivity, and, impulsivity, .]

(ROOT

(S

(NP

(NP (JJ Many) (NNS people))

(PP (IN with)

(NP (NNP Tourette) (POS 's))))

(VP (VBP experience)

(NP

(NP (JJ additional) (JJ neurobehavioral) (NNS problems))

(SBAR

(WHNP (WDT that))

(S

(VP (VBP include)

(NP (NN inattention) (, ,) (NN hyperactivity)

(CC and)

(NN impulsivity)))))))

(. .)))

amod(people-2, Many-1)

nsubj(experience-6, people-2)

prep\_with(people-2, Tourette-4)

possessive(Tourette-4, 's-5)

amod(problems-9, additional-7)

amod(problems-9, neurobehavioral-8)

dobj(experience-6, problems-9)

nsubj(include-11, problems-9)

rcmod(problems-9, include-11)

dobj(include-11, inattention-12)

dobj(include-11, hyperactivity-14)

conj\_and(inattention-12, hyperactivity-14)

dobj(include-11, impulsivity-16)

conj\_and(inattention-12, impulsivity-16)

Parsing [sent. 29 len. 29]: [People, with, Tourette, 's, have, also, reported, problems, with, depression, or, anxiety, disorders, ,, as, well, as, other, difficulties, Tourette, 's, syndrome, may, or, may, not, directly, cause, .]

(ROOT

(S

(NP

(NP (NNS People))

(PP (IN with)

(NP (NNP Tourette) (POS 's))))

(VP (VBP have)

(ADVP (RB also))

(VP (VBN reported)

(NP (NP (NNS problems))

(PP (IN with)

(NP (NP (NN depression))

(CC or)

(NP (NN anxiety) (NNS disorders)))))

(, ,)

(CONJP (RB as) (RB well) (IN as))

(NP

(NP (JJ other) (NNS difficulties))

(SBAR (S

(NP (NNP Tourette) (POS 's))

(NN syndrome))

(VP (MD may)

(CC or)

(MD may) (RB not)

(VP

(ADVP (RB directly))

(VB cause)))))))

(. .)))

nsubj(reported-7, People-1)

prep\_with(People-1, Tourette-3)

possessive(Tourette-3, 's-4)

aux(reported-7, have-5)

advmod(reported-7, also-6)

dobj(difficulties-19, reported-7)

dobj(reported-7, problems-8)

conj\_or(depression-10, disorders-13)

nn(disorders-13, anxiety-12)

prep\_with(problems-8, depression-10)

prep\_with(problems-8, disorders-13)

cc(difficulties-19, well-16)

amod(difficulties-19, other-18)

poss(syndrome-22, Tourette-20)

rcmod(difficulties-19, cause-28)

dobj(cause-28, difficulties-19)

nsubj(cause-28, syndrome-22)

aux(cause-28, may-23)

aux(cause-28, may-25)

conj\_or(cause-28, may-25)

neg(cause-28, not-26)

advmod(cause-28, directly-27)

Parsing [sent. 30 len. 25]: [Tourette, 's, is, a, diagnosis, doctors, make, after, verifying, that, the, patient, has, had, both, motor, and, vocal, tics, for, at, least, one, year, .]

(ROOT

(S

(NP (NNP Tourette) (POS 's))

(VP (VBZ is)

(NP

(NP (DT a) (NN diagnosis))

(SBAR

(S

(NP (NNS doctors))

(VP (VBP make)

(PP (IN after)

(S

(VP (VBG verifying)

(SBAR (IN that)

(S

(NP (DT the) (NN patient))

(VP (VBZ has)

(VP (VBN had)

(NP (DT both) (JJ motor)

(CC and)

(JJ vocal) (NN tics))

(PP (IN for)

(NP

(QP (IN at) (JJS least) (CD one))

(NN year)))))))))))))))

(. .)))

nsubj(diagnosis-5, Tourette-1)

possessive(Tourette-1, 's-2)

cop(diagnosis-5, is-3)

det(diagnosis-5, a-4)

dobj(make-7, diagnosis-5)

nsubj(make-7, doctors-6)

rcmod(diagnosis-5, make-7)

prepc\_after(make-7, verifying-9)

complm(had-14, that-10)

det(patient-12, the-11)

nsubj(had-14, patient-12)

aux(had-14, has-13)

ccomp(verifying-9, had-14)

preconj(tics-19, both-15)

amod(tics-19, motor-16)

conj\_and(motor-16, vocal-18)

amod(tics-19, vocal-18)

dobj(had-14, tics-19)

quantmod(one-23, at-21)

mwe(at-21, least-22)

pobj(at-21, least-22)

num(year-24, one-23)

prep\_for(had-14, year-24)

Parsing [sent. 31 len. 23]: [The, existence, of, other, neurological, or, psychiatric, conditions, can, also, help, doctors, establish, the, diagnosis, of, Tourette, 's, is, the, correct, one, .]

(ROOT

(S

(NP

(NP (DT The) (NN existence))

(PP (IN of)

(NP (JJ other) (JJ neurological)

(CC or)

(JJ psychiatric) (NNS conditions))))

(VP (MD can)

(ADVP (RB also))

(VP (VB help)

(S

(NP (NNS doctors))

(VP (VB establish)

(SBAR

(S

(NP

(NP (DT the) (NN diagnosis))

(PP (IN of)

(NP (NNP Tourette) (POS 's))))

(VP (VBZ is)

(NP (DT the) (JJ correct) (NN one)))))))))

(. .)))

det(existence-2, The-1)

nsubj(help-11, existence-2)

amod(conditions-8, other-4)

amod(conditions-8, psychiatric-7)

prep\_of(existence-2, conditions-8)

conj\_or(neurological-5, psychiatric-7)

amod(conditions-8, neurological-5)

aux(help-11, can-9)

advmod(help-11, also-10)

nsubj(establish-13, doctors-12)

ccomp(help-11, establish-13)

det(diagnosis-15, the-14)

nsubj(one-22, diagnosis-15)

prep\_of(diagnosis-15, Tourette-17)

possessive(Tourette-17, 's-18)

cop(one-22, is-19)

det(one-22, the-20)

amod(one-22, correct-21)

ccomp(establish-13, one-22)

Parsing [sent. 32 len. 12]: [Knowledgeable, clinicians, consulted, by, patients, do, not, often, misdiagnose, common, tics, .]

(ROOT

(S

(NP

(NP (JJ Knowledgeable) (NNS clinicians))

(VP (VBN consulted)

(PP (IN by)

(NP (NNS patients)))))

(VP (VBP do) (RB not)

(ADVP (RB often))

(VP (VB misdiagnose)

(NP (JJ common) (NN tics))))

(. .)))

amod(clinicians-2, Knowledgeable-1)

nsubj(misdiagnose-9, clinicians-2)

partmod(clinicians-2, consulted-3)

agent(consulted-3, patients-5)

aux(misdiagnose-9, do-6)

neg(misdiagnose-9, not-7)

advmod(misdiagnose-9, often-8)

amod(tics-11, common-10)

dobj(misdiagnose-9, tics-11)

Parsing [sent. 33 len. 21]: [However, ,, atypical, symptoms, or, atypical, presentation, such, as, onset, of, symptoms, in, adulthood, may, require, specialty, expertise, for, diagnosis, .]

(ROOT

(S

(ADVP (RB However))

(, ,)

(NP

(NP (JJ atypical) (NNS symptoms))

(CC or)

(NP

(NP (JJ atypical) (NN presentation))

(PP (JJ such) (IN as)

(NP

(NP (NN onset))

(PP (IN of)

(NP (NNS symptoms)))

(PP (IN in)

(NP (NN adulthood)))))))

(VP (MD may)

(VP (VB require)

(NP (NN specialty) (NN expertise))

(PP (IN for)

(NP (NN diagnosis)))))

(. .)))

advmod(require-16, However-1)

amod(symptoms-4, atypical-3)

nsubj(require-16, symptoms-4)

amod(presentation-7, atypical-6)

conj\_or(symptoms-4, presentation-7)

nsubj(require-16, presentation-7)

prep\_such\_as(presentation-7, onset-10)

prep\_of(onset-10, symptoms-12)

prep\_in(onset-10, adulthood-14)

aux(require-16, may-15)

nn(expertise-18, specialty-17)

dobj(require-16, expertise-18)

prep\_for(require-16, diagnosis-20)

Parsing [sent. 34 len. 11]: [There, are, no, blood, or, laboratory, tests, needed, for, diagnosis, .]

(ROOT

(S

(NP (EX There))

(VP (VBP are)

(NP

(NP (DT no) (NN blood)

(CC or)

(NN laboratory) (NNS tests))

(VP (VBN needed)

(PP (IN for)

(NP (NN diagnosis))))))

(. .)))

expl(are-2, There-1)

det(tests-7, no-3)

nn(tests-7, blood-4)

conj\_or(blood-4, laboratory-6)

nn(tests-7, laboratory-6)

nsubj(are-2, tests-7)

partmod(tests-7, needed-8)

prep\_for(needed-8, diagnosis-10)

Parsing [sent. 35 len. 39]: [However, ,, neuroimaging, studies, ,, which, include, magnetic, resonance, imaging, ,, computerized, tomography, ,, and, electroencephalograms, ,, as, well, as, certain, lab, tests, may, be, used, to, rule, out, other, conditions, that, Tourette, 's, might, be, confused, with, .]

(ROOT

(S

(ADVP (RB However))

(, ,)

(NP (NP

(NP (JJ neuroimaging) (NNS studies))

(, ,)

(SBAR

(WHNP (WDT which))

(S

(VP (VBP include)

(NP

(NP (JJ magnetic) (NN resonance) (NN imaging))

(, ,)

(NP (JJ computerized) (NN tomography))

(, ,)

(CC and)

(NP (NNS electroencephalograms)))))))

(, ,)

(CONJP (RB as) (RB well) (IN as))

(NP (JJ certain) (NN lab) (NNS tests)))

(VP (MD may)

(VP (VB be)

(VP (VBN used)

(S

(VP (TO to)

(VP (VB rule)

(PRT (RP out))

(NP (JJ other) (NNS conditions))

(SBAR (IN that)

(S

(NP (NNP Tourette) (POS 's))

(VP (MD might)

(VP (VB be)

(VP (VBN confused)

(PP (IN with)))))))))))))

(. .)))

advmod(used-26, However-1)

amod(studies-4, neuroimaging-3)

nsubj(include-7, studies-4)

nsubjpass(used-26, studies-4)

nsubjpass(used-26, tests-23)

rcmod(studies-4, include-7)

amod(resonance-9, magnetic-8)

nn(imaging-10, resonance-9)

dobj(include-7, imaging-10)

amod(tomography-13, computerized-12)

dobj(include-7, tomography-13)

conj\_and(imaging-10, tomography-13)

dobj(include-7, electroencephalograms-16)

conj\_and(imaging-10, electroencephalograms-16)

amod(tests-23, certain-21)

nn(tests-23, lab-22)

conj\_as\_well\_as(studies-4, tests-23)

aux(used-26, may-24)

auxpass(used-26, be-25)

aux(rule-28, to-27)

purpcl(used-26, rule-28)

prt(rule-28, out-29)

amod(conditions-31, other-30)

dobj(rule-28, conditions-31)

rcmod(conditions-31, confused-37)

prep\_with(confused-37, conditions-31)

nsubjpass(confused-37, Tourette-33)

possessive(Tourette-33, 's-34)

aux(confused-37, might-35)

auxpass(confused-37, be-36)

prep(confused-37, with-38)

Parsing [sent. 36 len. 26]: [In, terms, of, the, role, of, genes, in, the, disorder, ,, evidence, from, twin, and, family, studies, suggests, that, Tourette, 's, is, an, inherited, disorder, .]

(ROOT

(S

(PP (IN In)

(NP

(NP (NNS terms))

(PP (IN of)

(NP

(NP (DT the) (NN role))

(PP (IN of)

(NP (NNS genes)))

(PP (IN in)

(NP (DT the) (NN disorder)))))))

(, ,)

(NP

(NP (NN evidence))

(PP (IN from)

(NP (NN twin)

(CC and)

(NN family) (NNS studies))))

(VP (VBZ suggests)

(SBAR (IN that)

(S

(NP (NNP Tourette) (POS 's))

(VP (VBZ is)

(NP (DT an) (VBN inherited) (NN disorder))))))

(. .)))

prep\_in(suggests-18, terms-2)

det(role-5, the-4)

prep\_of(terms-2, role-5)

prep\_of(role-5, genes-7)

det(disorder-10, the-9)

prep\_in(role-5, disorder-10)

nsubj(suggests-18, evidence-12)

nn(studies-17, twin-14)

conj\_and(twin-14, family-16)

nn(studies-17, family-16)

prep\_from(evidence-12, studies-17)

complm(disorder-25, that-19)

nsubj(disorder-25, Tourette-20)

possessive(Tourette-20, 's-21)

cop(disorder-25, is-22)

det(disorder-25, an-23)

amod(disorder-25, inherited-24)

ccomp(suggests-18, disorder-25)

Parsing [sent. 37 len. 28]: [Although, early, family, studies, suggested, an, autosomal, dominant, mode, of, inheritance, characterized, the, condition, ,, more, recent, studies, discovered, the, pattern, of, inheritance, was, much, more, complex, .]

(ROOT

(S

(SBAR (IN Although)

(S

(NP (JJ early) (NN family) (NNS studies))

(VP (VBD suggested)

(SBAR (S (NP

(NP (DT an) (JJ autosomal) (JJ dominant) (NN mode))

(PP (IN of)

(NP (NN inheritance))))

(VP (VBN characterized)

(NP (DT the) (NN condition))))))))

(, ,)

(NP (RBR more) (JJ recent) (NNS studies))

(VP (VBD discovered)

(SBAR

(S

(NP

(NP (DT the) (NN pattern))

(PP (IN of)

(NP (NN inheritance))))

(VP (VBD was)

(ADJP (RB much) (RBR more) (JJ complex))))))

(. .)))

mark(suggested-5, Although-1)

amod(studies-4, early-2)

nn(studies-4, family-3)

nsubj(suggested-5, studies-4)

advcl(discovered-19, suggested-5)

det(mode-9, an-6)

amod(mode-9, autosomal-7)

amod(mode-9, dominant-8)

ccomp(suggested-5, characterized-12)

prep\_of(mode-9, inheritance-11)

nsubj(characterized-12, mode-9)

det(condition-14, the-13)

dobj(characterized-12, condition-14)

advmod(recent-17, more-16)

amod(studies-18, recent-17)

nsubj(discovered-19, studies-18)

det(pattern-21, the-20)

nsubj(complex-27, pattern-21)

prep\_of(pattern-21, inheritance-23)

cop(complex-27, was-24)

advmod(more-26, much-25)

advmod(complex-27, more-26)

ccomp(discovered-19, complex-27)

Parsing [sent. 38 len. 36]: [Although, there, may, be, a, few, genes, that, have, substantial, effects, ,, it, 's, also, possible, that, many, genes, with, smaller, effects, and, environmental, factors, may, play, a, role, in, the, development, of, Tourette, 's, .]

(ROOT

(S

(SBAR (IN Although)

(S

(NP (EX there))

(VP (MD may)

(VP (VB be)

(NP

(NP (DT a) (JJ few) (NNS genes))

(SBAR

(WHNP (WDT that))

(S

(VP (VBP have)

(NP (JJ substantial) (NNS effects))))))))))

(, ,)

(NP (PRP it))

(VP (VBZ 's)

(ADVP (RB also))

(ADJP (JJ possible))

(SBAR (IN that)

(S

(NP (NP

(NP (JJ many) (NNS genes))

(PP (IN with)

(NP (JJR smaller) (NNS effects))))

(CC and)

(NP (JJ environmental) (NNS factors)))

(VP (MD may)

(VP (VB play)

(NP (DT a) (NN role))

(PP (IN in)

(NP

(NP (DT the) (NN development))

(PP (IN of)

(NP (NNP Tourette) (POS 's))))))))))

(. .)))

mark(genes-7, Although-1)

expl(genes-7, there-2)

aux(genes-7, may-3)

cop(genes-7, be-4)

det(genes-7, a-5)

amod(genes-7, few-6)

nsubj(have-9, genes-7)

advcl('s-14, genes-7)

rcmod(genes-7, have-9)

amod(effects-11, substantial-10)

dobj(have-9, effects-11)

nsubj('s-14, it-13)

advmod('s-14, also-15)

acomp('s-14, possible-16)

complm(play-27, that-17)

amod(genes-19, many-18)

nsubj(play-27, genes-19)

amod(effects-22, smaller-21)

prep\_with(genes-19, effects-22)

amod(factors-25, environmental-24)

nsubj(play-27, factors-25)

conj\_and(genes-19, factors-25)

aux(play-27, may-26)

ccomp(possible-16, play-27)

det(role-29, a-28)

dobj(play-27, role-29)

det(development-32, the-31)

prep\_in(play-27, development-32)

prep\_of(development-32, Tourette-34)

possessive(Tourette-34, 's-35)

Parsing [sent. 39 len. 46]: [Genetic, studies, also, suggest, that, some, forms, of, Attention, Deficit, Hyperactivity, Disorder, and, Obsessive, Compulsive, Disorder, are, genetically, related, to, Tourette, 's, ,, but, there, is, less, evidence, for, a, genetic, relationship, between, Tourette, 's, and, other, neurobehavioral, problems, that, Tourette, 's, commonly, co-occurs, with, .]

(ROOT

(S

(S

(NP (JJ Genetic) (NNS studies))

(ADVP (RB also))

(VP (VBP suggest)

(SBAR (IN that)

(S

(NP

(NP (DT some) (NNS forms))

(PP (IN of)

(NP

(NP (NNP Attention) (NNP Deficit) (NNP Hyperactivity) (NNP Disorder))

(CC and)

(NP (NNP Obsessive) (NNP Compulsive) (NNP Disorder)))))

(VP (VBP are)

(ADJP (RB genetically) (JJ related)

(PP (TO to)

(NP (NNP Tourette) (POS 's)))))))))

(, ,)

(CC but)

(S

(NP (EX there))

(VP (VBZ is)

(NP

(NP (JJR less) (NN evidence))

(PP (IN for)

(NP

(NP (DT a) (JJ genetic) (NN relationship))

(PP (IN between)

(NP

(NP (NNP Tourette) (POS 's))

(CC and)

(NP (NP (JJ other) (JJ neurobehavioral) (NNS problems))

(SBAR (IN that)

(S

(NP (NNP Tourette)(POS 's))

(VP (RB commonly) (VPZ co-occurs)

(PP (IN with)))))))))))))

(. .)))

amod(studies-2, Genetic-1)

nsubj(suggest-4, studies-2)

advmod(suggest-4, also-3)

complm(related-19, that-5)

det(forms-7, some-6)

nsubj(related-19, forms-7)

nn(Disorder-12, Attention-9)

nn(Disorder-12, Deficit-10)

nn(Disorder-12, Hyperactivity-11)

prep\_of(forms-7, Disorder-12)

nn(Disorder-16, Obsessive-14)

nn(Disorder-16, Compulsive-15)

prep\_of(forms-7, Disorder-16)

conj\_and(Disorder-12, Disorder-16)

cop(related-19, are-17)

advmod(related-19, genetically-18)

ccomp(suggest-4, related-19)

prep\_to(related-19, Tourette-21)

possessive(Tourette-21, 's-22)

expl(is-26, there-25)

conj\_but(suggest-4, is-26)

amod(evidence-28, less-27)

nsubj(is-26, evidence-28)

det(relationship-32, a-30)

amod(relationship-32, genetic-31)

prep\_for(evidence-28, relationship-32)

prep\_between(relationship-32, Tourette-34)

possessive(Tourette-34, 's-35)

amod(problems-39, other-37)

amod(problems-39, neurobehavioral-38)

prep\_between(relationship-32, problems-39)

conj\_and(Tourette-34, problems-39)

rcmod(problems-39, co-occurs-44)

nsubj(co-occurs-44, Tourette-41)

possessive(Tourette-41, 's-42)

advmod(co-occurs-44, commonly-43)

prep(co-occurs-44, with-45)

pobj(with-45, problems-39)

Parsing [sent. 40 len. 17]: [An, important, role, in, Tourette, 's, gene, expression, is, played, by, the, sex, of, the, person, .]

(ROOT

(S

(NP

(NP (DT An) (JJ important) (NN role))

(PP (IN in)

(NP

(NP (NNP Tourette) (POS 's))

(NN gene) (NN expression))))

(VP (VBZ is)

(VP (VBN played)

(PP (IN by)

(NP

(NP (DT the) (NN sex))

(PP (IN of)

(NP (DT the) (NN person)))))))

(. .)))

det(role-3, An-1)

amod(role-3, important-2)

nsubjpass(played-10, role-3)

poss(expression-8, Tourette-5)

nn(expression-8, gene-7)

prep\_in(role-3, expression-8)

auxpass(played-10, is-9)

det(sex-13, the-12)

agent(played-10, sex-13)

det(person-16, the-15)

prep\_of(sex-13, person-16)

Parsing [sent. 41 len. 29]: [In, particular, ,, males, affected, by, the, gene, are, more, likely, to, have, tics, and, females, who, have, a, genetic, predisposition, are, more, likely, to, have, obsessive-compulsive, symptoms, .]

(ROOT

(S (S

(PP (IN In)

(ADJP (JJ particular)))

(, ,)

(NP

(NP (NNS males))

(VP (VBN affected)

(PP (IN by)

(NP (DT the) (NN gene)))))

(VP (VBP are)

(ADJP (RBR more) (JJ likely)

(VP (TO to)

(VP (VB have)

(NP (NNS tics)))))))

(CC and)

(S (NP (NP (NNS females))

(SBAR

(WHNP (WP who))

(S

(VP (VBP have)

(NP (DT a) (JJ genetic) (NN predisposition))))))

(VP (VBP are)

(ADJP (RBR more) (JJ likely)

(S

(VP (TO to)

(VP (VB have)

(NP (JJ obsessive-compulsive) (NNS symptoms))))))))

(. .)))

prep\_in(likely-11, particular-2)

nsubj(likely-11, males-4)

partmod(males-4, affected-5)

det(gene-8, the-7)

agent(affected-5, gene-8)

cop(likely-11, are-9)

advmod(likely-11, more-10)

aux(have-13, to-12)

xcomp(likely-11, have-13)

dobj(have-13, tics-14)

conj\_and(likely-11, likey-24)

nsubj(have-18, females-16)

rcmod(tics-14, have-18)

det(predisposition-21, a-19)

amod(predisposition-21, genetic-20)

dobj(have-18, predisposition-21)

cop(likely-24, are-22)

advmod(likely-24, more-23)

nsubj(females-16, likely-24)

aux(have-26, to-25)

xcomp(likely-24, have-26)

amod(symptoms-28, obsessive-compulsive-27)

dobj(have-26, symptoms-28)

Parsing [sent. 42 len. 26]: [Much, current, research, is, aimed, at, better, understanding, the, genetic, basis, and, symptomology, of, Tourette, 's, ,, as, well, as, its, relationship, to, related, disorders, .]

(ROOT

(S

(NP (JJ Much) (JJ current) (NN research))

(VP (VBZ is)

(VP (VBN aimed)

(PP (IN at)

(S

(VP

(ADVP (RBR better))

(VBG understanding)

(NP

(NP

(NP (DT the) (JJ genetic) (NN basis)

(CC and)

(NN symptomology))

(PP (IN of)

(NP (NNP Tourette) (POS 's))))

(, ,)

(CONJP (RB as) (RB well) (IN as))

(NP

(NP (PRP$ its) (NN relationship))

(PP (TO to)

(NP (JJ related) (NNS disorders))))))))))

(. .)))

amod(research-3, Much-1)

amod(research-3, current-2)

nsubjpass(aimed-5, research-3)

auxpass(aimed-5, is-4)

advmod(understanding-8, better-7)

prepc\_at(aimed-5, understanding-8)

det(basis-11, the-9)

amod(basis-11, genetic-10)

dobj(understanding-8, basis-11)

dobj(understanding-8, symptomology-13)

conj\_and(basis-11, symptomology-13)

prep\_of(basis-11, Tourette-15)

possessive(Tourette-15, 's-16)

poss(relationship-22, its-21)

dobj(understanding-8, relationship-22)

conj\_and(basis-11, relationship-22)

amod(disorders-25, related-24)

prep\_to(relationship-22, disorders-25)

Parsing [sent. 43 len. 18]: [The, hope, is, that, this, research, leads, to, better, diagnostic, tools, and, better, treatments, for, Tourette, 's, .]

(ROOT

(S

(NP (DT The) (NN hope))

(VP (VBZ is)

(SBAR (IN that)

(S

(NP (DT this) (NN research))

(VP (VBZ leads)

(PP (TO to)

(NP (NP

(NP (JJR better) (JJ diagnostic) (NNS tools))

(CC and)

(NP (JJR better) (NNS treatments)))

(PP (IN for)

(NP (NNP Tourette) (POS 's)))))))))

(. .)))

det(hope-2, The-1)

nsubj(is-3, hope-2)

complm(leads-7, that-4)

det(research-6, this-5)

nsubj(leads-7, research-6)

ccomp(is-3, leads-7)

amod(tools-11, better-9)

amod(tools-11, diagnostic-10)

prep\_to(leads-7, tools-11)

amod(treatments-14, better-13)

prep\_to(leads-7, treatments-14)

conj\_and(tools-11, treatments-14)

prep\_for(tools-11, Tourette-16)

prep\_for(treatments-14, Tourette-16)

possessive(Tourette-16, 's-17)

Parsed file: ../stories\_jan26\_2011\_final/Story10\_finalized.txt [43 sentences].

Parsed 1069 words in 43 sentences (30.23 wds/sec; 1.22 sents/sec).

egibson-2:stanford-parser-2010-11-30 egibson$