

Openness requirements and conditional ‘iffiness’: evidence from Bangla  
*jodi*-conditionals

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## A question of iffiness

- ▶ In philosophical literature: conditionals translated as two-place connectives relating sentences
- ▶ “The history of the conditional is the story of a syntactic mistake. There is no two-place *if* . . . *then* connective in the logical forms of natural languages. *If*-clauses are devices for restricting the domains of various operators.” (Kratzer, 1986) (restrictor-only approach)

However...

- ▶ (Von Stechow and Iatridou, 2002): conditionals differ from syntactically similar constructions:
  - (1) a. ??If /When Peter wakes up, he will make coffee.  
b. If Peter wakes up early, he will make coffee.
- ▶ **iffiness**: *if* contributes an invariant meaning: uncertainty about the antecedent
- ▶ But is this just a general/pragmatic constraint on modal assertion? Diversity: Condoravdi (2002)
- ▶ Evidence from a larger set of conditional connectives

- ▶ Subordinating connective used in conditional statements: indicative, counterfactual
- ▶ Distribution: more restricted than *if*
- ▶ This work:
  - ▶ **Empirical question:** how to characterize the restriction?
  - ▶ **Formal question:** where/how is the restriction specified?
- ▶ **Main claim:** *jodi* presupposes an attitude of uncertainty towards the antecedent that is (i) independent of the consequent modality, and (ii) more stringent than the uncertainty contributed by *if*, adding to growing evidence that conditional connectives make lexically-specific semantic contributions that cannot be reduced to pragmatics: conditionals are semantically ‘iffy’.

# Roadmap

Empirical question

Sketching an analysis

Formal question

Implications and conclusion

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## Scope of data

- ▶ Indicative conditionals
- ▶ Eventive antecedents
- ▶ Single-case conditionals (excludes 'whenever' readings: *If it rained, she went to the gym*)
- ▶ Restrictions on what can appear in the antecedent. Consequent is not constrained.

## Restriction A: epistemic status of antecedent fact

- ▶ (2) a. ?? If Peter wakes up, he will make coffee.
- b. If Peter wakes up early, he will make coffee.

- ▶ Parallel contrast with *jodi*:

- (3) a. ?? *jodi peter ghum theke oth- $\phi$ -e, o coffee bana-b-e*  
?? if peter sleep from rise-PRS-3, he coffee make-FUT-3  
?? If Peter wakes up, he will make coffee
- b. *jodi peter taratari ghum theke oth- $\phi$ -e, o coffee bana-b-e*  
if peter early sleep from rise-PRS-3, he coffee make-FUT-3  
If Peter wakes up early, he will make coffee

Unacceptable if the truth of the antecedent fact is known by speaker at evaluation time.

## Restriction B: tense-aspect marking

- ▶ (4) a. If he submits his paper to a journal, we will not publish it  
b. If he submitted his paper to a journal, we will not publish it
- ▶ (5) a. jodi o paper-ta journal-e submit kor- $\phi$ -e, amra publish korbo na  
if he paper-CLF journal-GEN submit do-PRS-3, we publish do.FUT.3 NEG  
If he submits the paper to a journal, we will not publish it  
b. ?? jodi o paper-ta journal-e submit kor-l-o, amra publish korbo na  
?? if he paper-CLF journal-GEN submit do-PST-3, we publish do.FUT.3 NEG  
Intended: If he submitted the paper to a journal, we will not publish it
- ▶ Other clauses that behave like (b): progressive, perfect, past (perfective and imperfective)

Progressive, perfect, and past-marked clauses are unacceptable in the antecedent.

## Restriction C: interpretation of simple present antecedents

- ▶ (6) a. If she drinks coffee (tomorrow), she will be jumpy during the meeting [future reading]  
b. If she drinks coffee (in general), she will love this place [habitual-generic reading]
  
- ▶ (7) a. jodi mini (kal) coffee kha- $\phi$ -e, meeting.er somoy osthir hObe  
if mini (tomorrow) coffee eat-PRS-3, meeting.GEN time agitated be.FUT.3  
If Mini drinks coffee (tomorrow), she will be agitated during the meeting.  
b. ?? jodi mini coffee kha- $\phi$ -e, o medellin.er coffee tour pochhondo korbe  
?? if mini coffee eat-PRS-3, she medellin.GEN coffee tour like do.FUT.3  
Intended: If Mini drinks coffee (in general), she will enjoy the coffee tour in Medellin.
  
- ▶ Simple present antecedent clauses admit future interpretation, but not habitual-generic interpretation

## Generalization

- ▶ All the allowed antecedent clauses are *future dependent* at UT (truth at UT depends on future facts about the evaluation world); all the disallowed clauses are future-independent at UT
- ▶ Dependence on future times in the evaluation world: corresponds to a known modal property: **historical/ontic/metaphysical openness** (Condoravdi, 2002)
- ▶ Historical modality: models (*our perception of*) the possible ways that the world could be given what is objectively the case now. Intuitively: corresponds to an attitude of ‘in-principle knowability’ (Kaufmann, 2005)
- ▶ **Empirical question:** *jodi(A)(B)* is acceptable iff A is *open* in the historical modal base at the evaluation time; *open* := neither A nor  $\neg A$  is necessary

## Generalization (contd.)

- ▶ **Empirical question:** *jodi(A)(B)* is acceptable iff A is *open* in the historical modal base at the evaluation time; *open* := neither A nor  $\neg A$  is necessary
  - ▶ Restriction on epistemic status derives from interaction with epistemic modality: historical possibilities are a subset of epistemic possibilities (Klecha, 2016) – constraint A
  - ▶ Restrictions on tense-aspect derive from known interactions of historical modality with time – constraints B and C
- ▶ Argue for a lexical, presuppositional account: *jodi* directly specifies this.

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## Tense-aspect and future reference in conditional antecedent

- ▶ Assumptions:
  - ▶ Antecedent and consequent clause both have tense and aspect
  - ▶ Future reference in simple present antecedents is facilitated by a future-shifting operator  $F$  (prospective aspect; Matthewson (2012); Matthewson et al. (2022); Williamson (2021); Mendes (2025)), which occupies AspP
  - ▶ Bangla disallows aspect-stacking (AspP cannot host more than one operator)
- ▶ LF of a simple present antecedent with future reference:

(8)  ${}_{TP} PRES [{}_{AspP} F [{}_{VP} \dots ]]$

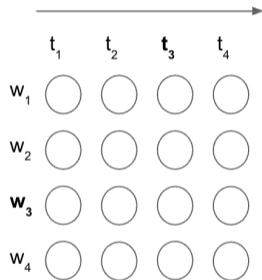
- ▶ Truth conditions for conditional: strict conditional: *if A, then B* is true iff in all relevant worlds, the material conditional  $A \rightarrow B$  is true

## Formal system: setup

- ▶ Propositional language; atomic sentences ( $At$ ) correspond to sentence radicals
- ▶  $W$ : non-empty set of worlds,  $T$ : non-empty set of time intervals related by containment  $\subseteq$  and precedence  $\leq$ .  $I = W \times T$ : set of indices (Thomason, 1970; Kaufmann, 2005)
- ▶ Truth evaluated at indices (world-time pairs) and relativized to a context  $c$ , which provides a unique index  $\langle w_c, t_c \rangle$ .  $t_c = UT$ , the utterance time
- ▶ For any  $p$  of arbitrary complexity:

$$(9) \quad \text{if } p \in At, p(w,t) = 1 \text{ iff } V(p, \langle w,t \rangle) = 1$$

$$(10) \quad \llbracket p(w, t) \rrbracket^c = 1 \text{ iff } p(w_c, t_c) = 1$$



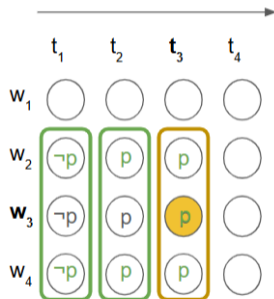
## Formal system: historical modality and modeling future-dependence

The historical accessibility relation  $\approx$ :

- (11) a. Is modal ( $\langle w, t \rangle R \langle w', t' \rangle$  implies that  $t = t'$ )  
 b. Is an equivalence relation  
 c. **Backward-connectedness**  
 if  $\langle w, t \rangle \approx \langle w', t' \rangle$  and  $t' \leq t$ , then  $\langle w, t' \rangle \approx \langle w', t' \rangle$   
 if two worlds are historical alternatives of each other at  $t$ , they are historical alternatives at all prior times  
 d. **Historicity**  
 if  $\langle w, t \rangle \approx \langle w', t' \rangle$ , then for all  $p \in At$ ,  $V(p, \langle w, t \rangle) = V(p, \langle w', t' \rangle)$   
 historical  
 alternatives agree on the truth values of all atomic sentences

(c) and (d)

guarantee: all the worlds accessible from  $w$  at  $t$  are identical up until  $t$



## Formal system: historical modality and modeling future-dependence

- ▶ **Modal base:** a modal accessibility relation that is consistent across historical alternatives: if  $iRj$  and  $i \approx k$ , then  $kRj$ .

- ▶ Semantics for *jodi*:

(12)  $jodi(A)(B)(w,t) = \text{undefined}$ , if  $(\Box_{\approx} A \vee \Box_{\approx} \neg A)(w,t) = 1$ . If defined,  
 $jodi(A)(B)(w,t) = 1$  iff  $\Box_R(A \rightarrow B)(w,t) = 1$ , where  $R$  is a modal base

## Formal system: tense and aspect

### Tenses

$$(13) \text{ PRES}(p) (w,t) = 1 \text{ iff } p(w,t) = 1$$

$$(14) \text{ PAST}(p) (w,t) = 1 \text{ iff } \exists t' \text{ s.t. } t' < t \text{ and } p(w,t') = 1$$

### Aspect

$$(15) \text{ PERF}(p) (w,t) = 1 \text{ iff } \exists t' [t \subseteq_{fin} t' \ \& \ p(w,t') = 1]; \subseteq_{fin} \text{ gives a final subinterval of } t'$$

$$(16) \text{ F}(p) (w,t) = 1 \text{ iff } \exists t': t < t' \ \& \ p(w,t') = 1$$

$$(17) \text{ PROG}(p) (w,t) = 1 \text{ iff } \forall \langle w',t \rangle \in R_{\text{mod}}(w,t), \forall \langle w',t' \rangle \in R_{\text{temp}}(w',t), p(w',t') = 1$$

$$(18) \text{ IMPF}(p) (w,t) = 1 \text{ iff } \forall \langle w',t \rangle \in R_{\text{mod}}(w,t), \forall \langle w',t' \rangle \in R_{\text{temp}}(w',t), p(w',t') = 1$$

## Formal system: tense and aspect

### Tenses

$$(19) \text{ PRES}(p) (w,t) = 1 \text{ iff } p(w,t) = 1$$

$$(20) \text{ PAST}(p) (w,t) = 1 \text{ iff } \exists t' \text{ s.t. } t' < t \text{ and } p(w,t') = 1$$

### Aspect

$$(21) \text{ PERF}(p) (w,t) = 1 \text{ iff } \exists t' [t \subseteq_{fin} t' \ \& \ p(w,t') = 1]; \subseteq_{fin} \text{ gives a final subinterval of } t'$$

$$(22) \text{ F}(p) (w,t) = 1 \text{ iff } \exists t': t < t' \ \& \ p(w,t') = 1$$

$$(23) \text{ PROG}(p) (w,t) = 1 \text{ iff } \forall \langle w',t \rangle \in R_{\text{mod}}(w,t), \forall \langle w',t' \rangle \in R_{\text{temp}}(w',t), p(w',t') = 1$$

$$(24) \text{ IMPF}(p) (w,t) = 1 \text{ iff } \forall \langle w',t \rangle \in R_{\text{mod}}(w,t), \forall \langle w',t' \rangle \in R_{\text{temp}}(w',t), p(w',t') = 1$$

## Derivation: present perfect antecedent

*jodi Mini has worked, she will leave soon.*

- (25) Antecedent LF:  $[_{TP} PRES [_{AspP} PERF [_{vP} mw ]]]$
- $\llbracket PRES(PERF(mw)) \rrbracket^c = 1$
  - iff  $PRES(PERF(mw)) (w_c, t_c) = 1$
  - iff  $\exists t' [t_c \subseteq_{fin} t' \ \& \ mw(w_c, t') = 1]$
  - Checking the modal status of the antecedent at  $\langle w_c, t_c \rangle$ . Suppose the antecedent is true in c:
  - $\implies \exists t' [t_c \subseteq_{fin} t' \ \& \ mw(w_c, t') = 1]$
  - since  $t_c$  is a *final* subinterval of  $t'$ , there is no part of  $t'$  that extends beyond  $t_c$ . Therefore,  $t' \leq t_c$ .
  - Consider an arbitrary  $w'$  s.t.  $\langle w_c, t_c \rangle \approx \langle w', t_c \rangle$
  - by **backward-connectedness**:  $\langle w_c, t_c \rangle \approx \langle w', t_c \rangle$  and  $t' \leq t_c \implies \langle w_c, t' \rangle \approx \langle w', t' \rangle$
  - by **historicity**:  $\langle w_c, t' \rangle \approx \langle w', t' \rangle$  and  $mw(w_c, t') \implies mw(w', t')$
  - Since we know that  $t_c \subseteq_{fin} t'$ ,  $\implies \exists t' [t_c \subseteq_{fin} t' \ \& \ mw(w', t') = 1]$
  - $\implies PRES(PERF(mw)) (w', t_c) = 1$

## Sample derivation: present perfect antecedent (contd.)

- (26) a. Since  $\langle w', t_c \rangle$  was arbitrary,  
b.  $\implies \forall \langle w', t' \rangle$  s.t.  $\langle w_c, t_c \rangle \approx \langle w', t' \rangle$ ,  $\text{PRES}(\text{PERF}(mw)) (w', t') = 1$   
c.  $\implies \Box_{\approx} \text{PRES}(\text{PERF}(mw)) (w_c, t_c)$  (1)  
d. Similarly, if the antecedent is false in c, then  $\forall \langle w', t' \rangle$  s.t.  $\langle w_c, t_c \rangle \approx \langle w', t' \rangle$ ,  $\text{PRES}(\text{PERF}(mw)) (w', t') = 0$   
e.  $\implies \Box_{\approx} \neg \text{PRES}(\text{PERF}(mw)) (w_c, t_c)$  (2)  
f. **from (1) and (2),  $(\Box_{\approx} A \vee \Box_{\approx} \neg A)(w_c, t_c) = 1$**   
g.  $\implies \text{jodi}(A)(B) = \text{undefined}$ ; clause is unacceptable in the antecedent

## Sample derivation: simple present antecedent with future reference

*jodi Mini works (tomorrow), she will be in the office.*

(27) Antecedent LF:  $[_{TP} \text{ PRES } [_{\text{AspP}} \text{ F } [_{\text{VP}} \text{ mw } ]]]$

a.  $\llbracket \text{PRES}(\text{F}(\text{mw})) \rrbracket^c = 1$

b. **iff**  $\exists t' [t_c < t' \ \& \ \text{mw}(w_c, t') = 1]$

c. Checking the modal status of the antecedent at  $\langle w_c, t_c \rangle$ . Suppose the antecedent is true in c:

d.  $\implies \exists t' [t_c < t' \ \& \ \text{mw}(w_c, t') = 1]$ .

e. Consider an arbitrary  $w'$  s.t.  $\langle w_c, t_c \rangle \approx \langle w', t_c \rangle$

f. since  $t_c < t'$ , there is a counter-model where  $\text{mw}(w', t') = 0$

g.  $\neg \forall \langle w', t' \rangle$  s.t.  $\langle w_c, t_c \rangle \approx \langle w', t' \rangle$ ,  $\text{PRES}(\text{F}(\text{mw})) (w', t') = 1$  (1)

h. Similarly, if  $\text{PRES}(\text{PERF}(\text{mw}))(w_c, t_c) = 0$ , then  $\neg \forall \langle w', t' \rangle$  s.t.  $\langle w_c, t_c \rangle \approx \langle w', t' \rangle$ ,  $\text{PRES}(\text{PERF}(\text{mw}))(w', t') = 0$  (2)

i. **from (1) and (2), it does not follow that**  $(\Box_{\approx} A \vee \Box_{\approx} \neg A)(w_c, t_c) = 1$

j. therefore,  $\text{jodi}(A)(B) \neq$  undefined; A is acceptable in the antecedent

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## ‘Two types’ of conditional reasoning, and diversity

- ▶ Q: What might lead to a ban against historically settled antecedents?
- ▶ If we assume (i) conditional connectives simply signal a restriction and make no semantic contribution; (ii) a general pragmatic principle of diversity (ban against vacuous restriction), we might say: the embedded modal under *jodi* is always ontic
- ▶ Since epistemic possibilities are a superset of historical possibilities, openness in the former does not guarantee openness in the latter. This would force historical openness
- ▶ **Alternative hypothesis:** *jodi* is specialized for ‘ontic’ reasoning, and the restrictions simply follow from diversity. (This doesn’t say anything about the role of the antecedent)

## Epistemic reasoning with *jodi*

- ▶ Q: Is *jodi* just unable to restrict epistemic modals?
- ▶ A: Unlikely:
  - ▶ Formally: the consequent can be in the past of UT: *jodi he wins, he trained hard*. If the consequent modal base was historical, this would have trivial truth conditions. But, acceptable with *jodi*.
  - ▶ Interpretationally: the consequent above means: ‘I will conclude/believe that he trained hard’
  - ▶ Linguistically: these consequents most naturally include *taar maane* ‘that means’; or *nishchoi* ‘surely’
- ▶ Conclusion: not a restriction against reasoning over epistemic possibilities, but on what kinds of facts can be used: the speaker must hold an attitude of un-knowability towards these facts. Stronger form of uncertainty than attitude of not knowing, which is presupposed by *if*.
- ▶ Formally: restriction specifically on status of the antecedent clause in the historical modal base, regardless of the modal in the consequent. Cannot be derived from pragmatic diversity condition.
- ▶ **Formal question** *jodi(A)(B)* presupposes that A is open in the historical modal base evaluation time.

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## Back to iffiness, restrictors, and operators

- ▶ Systematic restrictions on the *antecedent*, regardless of consequent modality – unexpected if conditional device only marks the antecedent as being a restrictor.
- ▶ This account: restrictions are part of lexical meaning of conditional devices
- ▶ What is this meaning component? : presuppositional, uncertainty towards antecedent proposition – evidence for *iffiness* (Von Stechow and Iatridou, 2002)

## Back to iffiness, restrictors, and operators

- ▶ Iffiness(es) across conditional devices: there are different ‘flavors’ of uncertainty (invoking different, specific, domains): (Kaufmann et al., 2024) on German *falls*, Arita (2009) on Japanese *-eba*, *-tara*, *-nara*, *-n(o)nara*, similar antecedent restrictions with English *in the event*.
- ▶ Translating conditional devices as conditional operators with invariant meaning-contribution: differences can be parameterized in presuppositional component, uniform assertive meaning across conditional expressions. Under restrictor-only approach: less clear.
- ▶ Future work: interaction with stativity; constraints on counterfactual uses of *jodi*.

Thank you!

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## Restrictions: further embedded clauses

- ▶ ‘Disallowed’ markers and interpretations are acceptable in a further embedded clause, as long as the clause directly under *jodi* complies with the restrictions
- ▶ (28) *jodi* ami shun- $\phi$ -i je [mini phOI kha- $\phi$ -e /kha-ch- $\phi$ -e /kh-ech- $\phi$ -e], tahole ami  
if I hear-PRS-1 that [mini fruit eat-PRS-3 /eat-PROG-PRS-3 /eat-PRF-PRS-3], then I  
khuSi hObo  
happy be.FUT.1  
If I hear that [Mini eats (in general)/ is eating/ has eaten fruit], then I will be happy

## Open questions and future directions

- ▶ F under PAST

(29) jodi kaaj-ta mini-i korlo, tumi acho ki korte?  
if work-CLF mini- do-PST-3, you COP-3 what do.INF?  
If it is Mini who does the work, what are you here for?

- ▶ Future-shifted habitual-generics

(30) (We are discussing Mary's plans for next year)  
In the event that Mary plays golf, she will own a golf kit.

## The $<$ and $\leq$ relations

- ▶  $t \leq t'$  iff no part of  $t$  extends beyond  $t'$
- ▶  $t < t'$  iff  $t \leq t'$  and  $t$  and  $t'$  have no part in common
- ▶ **Backward-connectedness:** if  $\langle w, t \rangle \approx \langle w', t \rangle$  and  $t' \leq t$ , then  $\langle w, t' \rangle \approx \langle w', t' \rangle$
- ▶  $F(p)(w, t) = 1$  iff  $\exists t': t < t' \ \& \ p(w, t') = 1$

$F$  invokes an interval that is strictly after  $t$ , so that  $F(p)$  cannot be true at  $t$  by virtue of  $p$  being true at  $t$  (it must depend on future times).








Allen Statements		Pictorial Example	Chronological Sequence	$x \leq y$	$x < y$	$y \leq x$	$y < x$
Relations	Inverse Relations						
$X$ before $Y$	$Y$ after $X$		$X_{start} < X_{end} < Y_{start} < Y_{end}$	✓	✓		
$X$ equals $Y$	$Y$ equals $X$		$X_{start} = Y_{start} < X_{end} = Y_{end}$	✓		✓	
$X$ meets $Y$	$Y$ met by $X$		$X_{start} < X_{end} = Y_{start} < Y_{end}$	✓			
$X$ overlaps $Y$	$Y$ overlapped by $X$		$X_{start} < Y_{start} < X_{end} < Y_{end}$	✓			
$X$ contains $Y$	$Y$ during $X$		$X_{start} < Y_{start} < Y_{end} < X_{end}$			✓	
$X$ starts $Y$	$Y$ started by $X$		$X_{start} = Y_{start} < X_{end} < Y_{end}$	✓			
$X$ finishes $Y$	$Y$ finished by $X$		$Y_{start} < X_{start} < X_{end} = Y_{end}$	✓		✓	

Figure:  $\leq$  and  $<$  in terms of Allen relations

## Arguments for aspectual source of future-reference (F)

- ▶ Williamson (2021): A wider set of constructions show the same *pattern* of future-reference: future-shift in dependent clause, NO independent shift in the main clause, temporal donkey anaphora
- ▶ Mendes (2024): happens in non-modal constructions too; always co-occurs with subjunctive mood marking in languages with richer mood morphology
- ▶ Bangla facts: separation between scheduled, futurate uses and plain future reference of simple present
- ▶ Matthewson (2012): Gitksan has an overt marker that appears in exactly this set of constructions and is obligatory for future reference

Why epistemic openness is not a ‘default’ for conditional connectives:

- (8) a.  $\{\overset{?}{?}\text{Falls/Wenn}\}$  Peter aufwacht, trinkt er immer einen Kaffee.  
falls/wenn Peter wakes up drinks he always a coffee
- b.  $\{\overset{?}{?}\text{Falls/Wenn}\}$  Peter zeitig aufwacht, trinkt er immer einen Kaffee.  
falls/wenn Peter early wakes up drinks he always a coffee
- (9) a. ‘ $\{\overset{?}{?}\text{If/When}\}$  Peter wakes up, he always drinks a coffee.’
- b. ‘ $\{\overset{\checkmark}{\checkmark}\text{If/When}\}$  Peter wakes up early, he always drinks a coffee.’

Even on its conditional uses, *wenn* does not have the same requirement. Moreover, *falls*, which is another conditional connective, is not acceptable even with epistemic openness. This shows: epistemic openness is only ONE kind of *iffiness*.