

The **apparent** lack of a complementizer-trace effect in Indonesian *supaya* complements

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1. Introduction

Complementizer-trace (C-*t*) effects

(1) Complementizer-trace (C-*t*) effects

A preverbal subject cannot be extracted from an embedded clause headed by an overt complementizer.

- (2) a. **Who* did you think [that ___ met Budi yesterday]?
b. *Who* did you think [Ø ___ met Budi yesterday]?

C-*t* effects are considered part of UG and have been reported in a number of unrelated languages (Pesetsky 2017).

The issue

Supaya clauses in Standard Indonesian can contain a subject gap, thus suggesting the absence of a C-*t* effect.

- (3) a. *Siapa*-kah yang kamu usulkan [supaya ___ ketemu Budi besok]?¹
who-Q REL 2SG suggest so.that meet Budi tomorrow
b. *Siapa*-kah yang kamu usulkan [Ø ___ ketemu Budi besok]?
who-Q REL 2SG suggest meet Budi tomorrow
'To whom did you suggest meeting Budi tomorrow?'

The claims

- The gap is indeed a trace.
- Indonesian *supaya* complement clauses present a counterexample to the universality of C-*t* effects.

Organization

§2. Complement vs. adjunct *supaya* clauses

§3. Analysis of *supaya* complement clauses: Successive cyclic interclausal movement

§4. Alternative accounts: Intraclausal/no movement + coreference, raising

§5. Conclusion

¹ This type of sentence has an inverted pseudo-cleft structure with a headless relative clause. However, we treat it as if the interrogative rather than a null operator moved.

(i) [Predicate WH-kah] [Subject Op yang *t* ...]

2. Different kinds of *supaya* clauses: Complement vs. adjunct

Not all *supaya* clauses are adjuncts. Complement and adjunct *supaya* clauses are distinct.

Fronting

- (4) Complement: No
- Saya meng-usulkan [supaya mesin itu di-perbaiki oleh tukang].
1SG ACT-suggest so.that machine that PASS-fix by mechanic
'I proposed that the machine be fixed by a mechanic'
 - *[Supaya mesin itu diperbaiki oleh tukang], saya mengusulkan.
so.that machine that PASS-fix by mechanic 1SG ACT-suggest
- (5) Adjunct: Yes
- Tono meng-[k]erjakan PR-nya [supaya dia bisa lulus].
Tono ACT-do homework-3 so.that 3SG can pass.
'Tono did his homework so that he can pass'
 - [Supaya dia bisa lulus], Tono meng-[k]erjakan PR-nya.
so.that 3SG can pass Tono AV-do homework-3
'So that he can pass, Tono did his homework'

Extraction

- (6) Ini adalah *persidangan yang di-usulkan [supaya __ di-bubarkan]*.
this COP trial REL PASS-suggest so.that PASS-dissolve
- Complement: Yes (despite C-*t*) → reasonable interpretation
'This is *the trial whose dissolution was suggested*.'
 - Adjunct: No (adjunct island) → anticipated semantic oddity blocked
#*'This is the trial that was suggested, so that it be dissolved.'*

3. The proposal

Assumption: CT splitting

- (7) CT splitting (Martinović 2015; Erlewine 2016)
C and T start as one head. They split when a feature cannot be checked or when no position is available for the CT's goal to move into.
- No split → no clear A/A'-distinction
[_{CTP} CT_[uTop, uD] [_{VoiceP} DP_[Top, D] ...]]
 - Split → clear A/A'-distinction
[_{CTP} CT_[uTop, uD] [_{VoiceP} DP_[D] PP_[Top] ...]]
↓
[_{CP} C_[uTop] [_{TP} T_[uD] [_{VoiceP} DP_[D] PP_[Top] ...]]]

The claim: Successive cyclic movement

- (8) a. The embedded subject successive-cyclically moves.
b. A-movement (raising): Driven by an EPP (D) feature.
c. A'-movement: Also driven by an information structural feature such as [Top(ic)] and [Foc(us)].
- (9) [CTP Mesin itu_[Top, D] [VoiceP *t* di-usulkan [CTP *t* supaya [VoiceP *t* di-perbaiki oleh tukang]]]].
machine that PASS-suggest so.that PASS-fix by mechanic
'The machine was suggested to be repaired by a mechanic.'
- (10) [CTP Siapa_[Foc, D] -kah yang [VoiceP *t* kamu usulkan [CTP *t* supaya [VoiceP *t* ketemu Budi
who-Q REL 2SG suggest so.that meet Budi
besok]]]]?
tomorrow
'To whom did you suggest meeting Budi tomorrow?'

Support 1: Null expletive

- The preverbal position can be null for passive verbs taking a clausal complement.²
- The embedded subject is licensed in the embedded clause.
- The sentence is not about the embedded subject.

- (11) [CTP ____ Telah di-usulkan [CTP supaya mesin itu_[D] di-perbaiki oleh tukang]].
PFV PASS-suggest so.that machine that PASS-fix by mechanic
'It was suggested that the machine be repaired by a mechanic.'

Support 2: No *meN-* on the matrix verb

The ungrammaticality of *meN-* indicates DP movement happening across it (Saddy 1991; Soh 1998; Cole and Hermon 1998).

- (12) A-movement (bare passive)
a. Buku itu sudah Ali baca *t*.
book that already Ali read
'Ali has already read the book./The book has already been read by Ali.'
b. *Buku itu sudah Ali **mem-**baca *t*.
book that already Ali ACT-read

² Unlike in English, clausal subject is generally unacceptable in Indonesian.

- (i) *[Supaya mesin itu di-perbaiki] di-usulkan oleh mereka.
so.that machine that PASS-fix PASS-suggest by 3PL
'[That the machine needed fixing] was suggested by them.'

- (13) A-movement (crossed control reading; Nomoto's (2011) analysis)
- a. Tono coba *t* di-ciumi ibu.
Tono try PASS-kiss mother
'Mother tried to kiss Tono.'
- b. *Tono **men-coba** *t* di-ciumi ibu.³
Tono ACT-try PASS-kiss mother
Intended reading: 'Mother tried to kiss Tono.'
- (14) A'-movement (adapted from Saddy 1991: 186)
- a. Siapa yang *t* **men-cintai** Sally?
who REL ACT-love Sally
'Who loves Sally?'
- b. *Siapa yang Sally **men-cintai** *t*?
who REL Sally ACT-love
- c. Siapa yang Sally *cintai* *t*?
who REL Sally love
'Who Sally loves?'
- (15) a. Mesin itu telah **di-usulkan** [supaya di-perbaiki oleh tukang].
machine that PFV PASS-suggest so.that PASS-fix by mechanic
- b. Mesin itu telah mereka *usulkan* [supaya di-perbaiki oleh tukang].
machine that PFV 3PL suggest so.that PASS-fix by mechanic
- c. *Mesin itu telah mereka **meng-usulkan** [supaya di-perbaiki oleh tukang].
machine that PFV 3PL ACT-suggest so.that PASS-fix by mechanic
'{It was/They} suggested that the machine be repaired by a mechanic.'

4. Alternative accounts

Alternative 1: Matrix A-movement (passivization) + coreference

- (16) a. Obligatory control⁴
[_{TP} Mesin itu_i di-usulkan *t*_i [_{CP} supaya PRO_i di-perbaiki oleh tukang]].
machine that PASS-suggest so.that PASS-fix by mechanic
- b. Prolepsis
[_{TP} Mesin itu_i di-usulkan *t*_i [_{CP} supaya pro/ia_i di-perbaiki oleh tukang]].
machine that PASS-suggest so.that it PASS-fix by mechanic

³ This sentence as well as (13a) are acceptable in the normal control reading ('Tono wants to be kissed by Mother.').

⁴ We extend Fortin's (2006) analysis of adjunct clauses to complement clauses. Fortin claims that CP adjuncts with and without an overt subject involve different kinds of TPs.

- T with Case-assigning ability → overt subject
- T with no Case-assigning ability → PRO + obligatory control

Empirical problem

The verb *usulkan* does not select the passive “subject” DP.⁵

- (17) *Mereka meng-usulkan [_{DP} mesin itu] [_{CP} supaya PRO/pro/ia di-perbaiki oleh tukang].
3PL ACT-suggest machine that so.that it PASS-fix by mechanic

Alternative 2: Base-generated topic + obligatory control (= our analysis in the abstract)

- (18) [_{TOPP} Mesin itu_i di-usulkan [_{CP} supaya [_{TP} PRO_i di-perbaiki oleh tukang]]].
machine that PASS-suggest so.that PASS-fix by mechanic

Theoretical problem

In obligatory control, the controller must be in an A-position.⁶

Alternative 3: Base-generated topic + prolepsis

- (19) [_{TOPP} Mesin itu_i di-usulkan [_{CP} supaya [_{TP} pro/ia_i di-perbaiki oleh tukang]]].
machine that PASS-suggest so.that it PASS-fix by mechanic

Empirical problem

The antecedent of *pro/ia* is restricted to the DP in the matrix clause.

- (20) Talking about **Tono_i**, who is always complaining about **his machine_j**’s bad conditions.
a. * [_{TOPP} [Mesin-nya_{i,j} di-usulkan [_{CP} supaya [_{TP} **pro/ia_i** ketemu tukang]]].
machine-3 PASS-suggest so.that it meet mechanic
For: ‘As for his machine, it was suggested that he meet a mechanic.’
b. # [_{TOPP} [**Mesin-nya_{i,j}** di-usulkan [_{CP} supaya [_{TP} **pro/ia_j** ketemu tukang]]].
machine-3 PASS-suggest so.that it meet mechanic
‘It was suggested that his machine meet a mechanic.’

Alternative 4: Raising

- (21) [_{TP} Mesin itu_i di-usulkan [_{CP} supaya *t_i* di-perbaiki oleh tukang]].
machine that PASS-suggest so.that PASS-fix by mechanic

⁵ The verb *usulkan* is able to take a DP complement, but the DP must denote eventualities.

- (i) Mereka meng-usulkan [_{DP} perbaikan mesin itu].
3PL ACT-suggest fixing machine that
‘They suggested repairing the machine.’

⁶ This problem will disappear under the CT-splitting hypothesis, where no clear A/A’-distinction exists in Indonesian. If one also adopts a movement analysis of obligatory control (Hornstein 1999), this alternative will be nothing but our proposed analysis.

- (22) a. *They say [_{DP} the machine] [_{CP} that PRO/it was repaired by a mechanic].
 b. The machine is said to have been repaired by a mechanic.
 cf. *The machine is said that *t* was repaired by a mechanic. (*that*-trace effect)

Theoretical problem

- The presence of *supaya* indicates that the embedded clause is not a TP but CP.
- The putative movement would incur a locality violation (e.g. Chomsky’s (2001) Phase Impenetrability Condition).

- (23) a. (21)
 ___ diusulkan [_{CP} *supaya* [_{TP} *mesin itu* diperbaiki oleh tukang]].
 ↑ _____ X _____ |
 b. (22b)
 ___ is said [_{TP} *the machine* to have been repaired by a mechanic].
 ↑ _____ |

5. Conclusion

An interclausal successive-cyclic movement analysis appears most plausible for Indonesian *supaya* complement clauses.

- (9) [_{CTP} Mesin itu_[Top, D] [_{VoiceP} *t* di-usulkan [_{CTP} *t* **supaya** [_{VoiceP} *t* di-perbaiki oleh tukang]]]].
 machine that PASS-suggest so.that PASS-fix by mechanic
 ‘The machine was suggested to be repaired by a mechanic.’

- (10) [_{CTP} Siapa_[Foc, D] -kah yang [_{VoiceP} *t* kamu usulkan [_{CTP} *t* **supaya** [_{VoiceP} *t* ketemu Budi besok]]]]?
 who-Q REL 2SG suggest so.that meet Budi
 tomorrow
 ‘To whom did you suggest meeting Budi tomorrow?’

- The proposed structure involves a C-*t* configuration.
- Our analysis provides a counterexample to the hypothesis that C-*t* effects are part of UG.
- To the extent our analysis is successful, it lends support to the view that Austronesian languages lack a clear A/A’-distinction (Aldridge 2017).

Future work

1. Find other verbs taking *supaya* complement clauses.
2. Explain why Indonesian lacks C-*t* effects.

Conjecture

C-*t* effects only concern languages with a clear A/A’-distinction? Only in a split CT structure, does *t* occur in the same phase/spell-out domain as C.

