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## RESEARCH ARTICLE

# Conditionals in Mandarin: A Corpus-based Study from A Semantic Perspective

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## ABSTRACT

This corpus-based study delves into the expression of conditional constructions in Mandarin Chinese, employing a detailed analysis of both written and spoken data derived from four commonly used Mandarin corpora. Utilizing a mixed qualitative method, the research focuses on four widely-used conditional markers: *rúguǒ*, *jiǎrú*, *yàoshi*, and *yàobushì*. The investigation aims to understand the syntactic function of these markers in initiating basic conditional statements, as well as to explore their varied use across different genres. The study reveals that while these markers share a common role in forming conditional sentences, they exhibit significant differences in terms of frequency of use and semantic nuances. This research contributes to a deeper understanding of Mandarin syntax and semantics, highlighting the complexity and diversity of language use in different communicative contexts. The findings offer insights into the intricate ways in which Mandarin speakers express conditionality, enhancing the comprehension of this aspect of the language.

## KEYWORDS

Mandarin conditionals, Factual conditionals, Future (predictive) conditionals, Imaginative conditionals, Corpus Linguistics

## ARTICLE INFORMATION

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## 1. Introduction

Research focused on conditional sentences has never ceased. Stalnaker (1968: 41) agreed that a conditional sentence encodes “a proposition which is a function of two other propositions, yet not one which is a truth function of those propositions”, expressing “the dependence of one set of circumstance on another” (Quirk & Greenbaum, 1973: 323). It contains two clauses, a subordinate clause and a main clause; the former represents the condition, always initiating with the *if*, so it can be called as the ‘*if* clause’ while the latter introduces the result or outcome.

Palmer (1978) proposed that in English and many other languages, there are two kinds of conditionals—: real and unreal. The difference lies in whether the utterance contains the speakers’ individual opinions about the propositions that they present. If not, it is a real condition. In unreal conditionals, Palmer agreed that the propositions always imply the speakers’ doubts about the propositions. Diverse verb tenses and aspects in the main and subordinate clauses are used as appropriate. Quirk et al. (1985) divided the conditionals into direct and indirect conditionals, which laid the foundation for Dancygier’s (1998) classification of conditionals, including predictive, non-predictive, and generic conditionals. Eastwood (1994: 333) mentioned four categories of conditional sentences based on the degree of possibility implied by each conditional and its corresponding verb tense in each clause. That is, Zero Conditionals, Conditional Type 1, Conditional Type 2, and Conditional Type 3, which is one of the most prevalent taxonomies of conditional sentences. Larsen-Freeman and Celce-Murcia (2016: 575) once pointed out that conditional sentences are sometimes only divided into three types in the light of the time of the event: future conditionals, present conditionals, and past conditionals. Later, they classified the conditional sentences into nine types from a semantic perspective, which is the framework of the current research and is going to be illustrated in detail in Section 2.1.

This corpus-based research generally aims to recognize and analyze the conditional constructions in Mandarin. The research questions are put forward as follows:

- Among the four Mandarin conditional markers (*rúguǒ*, *jiǎrú*, *yàoshì*, and *yàobushi*), which one is the most frequently-used?
- What are the genre distinctions of using different markers?
- In what type of conditional sentences occur the most in written and spoken Mandarin corpora?

## 2. Categories of conditionals

### 2.1 Theoretical Framework

The theoretical framework used in this research follows Larsen-Freeman and Celce-Murcia's (2015: 579) semantic descriptions regarding conditionals, consisting of factual conditionals, future (predictive) conditionals, and imaginative (subjunctive) conditionals, as shown in Figure 1.

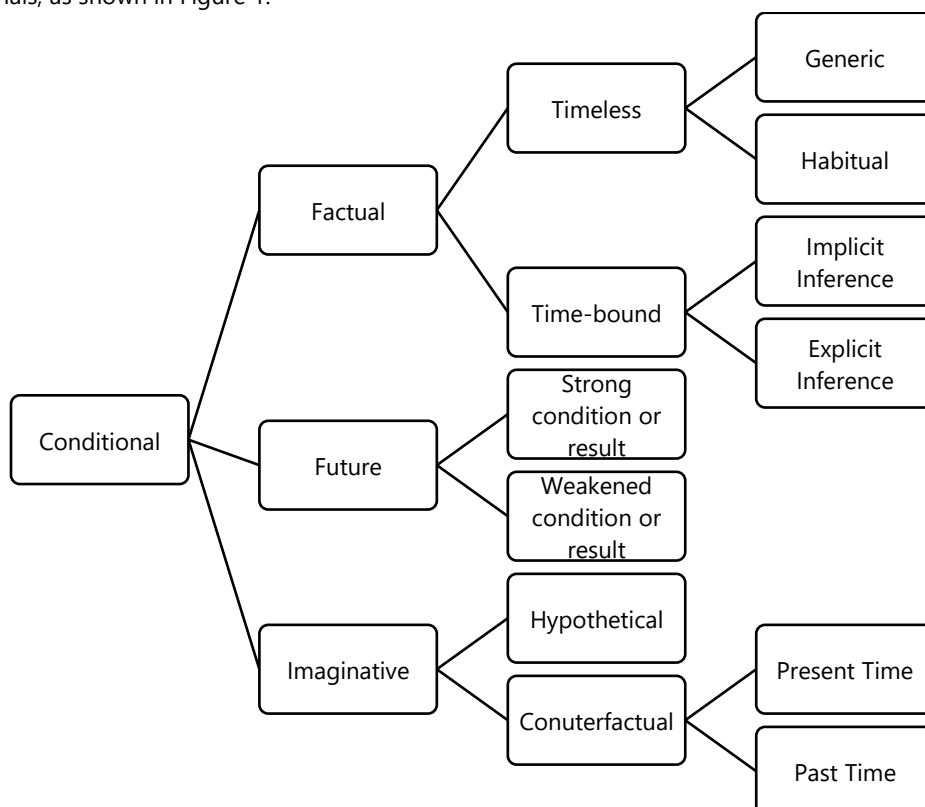


Figure 1 A semantic classification of types of conditionals

As Larsen-Freeman and Celce-Murcia stated, conditional sentences can be semantically divided into three general types with a few subtypes. Examples that use four different subordinators have been given below in (1)-(9). The first factual conditional is sometimes called the zero conditional, characterized by the simple present tense in both the main clause and if-clause [*If* + simple present, subject + simple present]. The generic timeless factual refers to scientific facts such as common sense, natural laws, and general knowledge, as in (1). The habitual timeless factual is often used to express personal habits that people always know, as in (2). The time-bound factual sentences can convey implicit inferences or explicit inferences, as in (3) and (4). Sentences (5) and (6) represent future conditionals, known as the first conditional ([*If* + simple present/should/happen to, subject + will/be going to/may/might/should]), like future predictions, plans, promises, offers, and contingencies with strong or weakened condition or result. The explicit implication of future time is embodied in the result clause, while the use of modals such as may, might, and should can indicate the degree of weakness. The last type is the imaginative conditional that consists of hypothetical and counterfactual conditionals whose syntax structure is [*If* + were to/simple past/past perfect, subject + would/could/might/would + perfect aspect]. The former describes an event that is theoretically possible but has little chance of actually happening, and the latter expresses impossible events or comments about past circumstances. In the light of the tense of the *if* clause, either the simple past or the past perfect, the imaginative conditionals can be classified into the second or the third conditional.

- (1) <sup>1</sup>If you add sugar to hot water, the sugar dissolves.
- (2) If I drink too much tea or coffee during the day, I cannot fall asleep at night.
- (3) If it's 40 degrees outside, the ice must have melted.
- (4) If he was involved in that accident, he must have been scared.
- (5) If it does not rain tomorrow, I will go on a picnic.
- (6) If it rains tomorrow, I may not go out.
- (7) If I were to have a long holiday next year, I would visit Europe. [Counterfactual Future]
- (8) If I were you, I would buy that bag. [Counterfactual Present]
- (9) If you had worked harder, you would have passed your exam. [Counterfactual Past]

## 2.2 Conditional Variants in Mandarin

In relation to English sentences, where the adverb *if* is typically employed to initiate the subordinate sentence, Mandarin similarly makes use of a few words, either positive or negative, to mark the prerequisite part of the whole conditional sentence; they are *rúguǒ*, *jiǎrú*, *yàoshì*, and *yàobushì*. They can be regarded as connectors whose parts of speech may be conjunctions, adverbs, and modal auxiliaries with a linking function. Unlike English clauses in which there is strict parallelism of tenses, aspects, and modals, Mandarin has relatively flexible grammatical rules because it is sometimes treated as a tenseless language in which “no obligatory inflection marking overt absolute tense” appears (Lin, 2012). Additionally, some Chinese linguists have approved that conditional sentences in Mandarin can be judged by the context rather than specific conditional markers (Xing, 2001; Lv, 2004; Wang, 2010). This case is not going to be discussed in the current research.

In Larsen-Freeman and Celce-Murcia's (2016: 580) statements, there are four subtypes of factual conditionals. Among them, generic factual conditionals refer to some true and unchanging relationships which especially appear in scientific writing; habitual factual conditionals are literally related to personal habits rather than physical laws, which are usually habitually true. Two examples are listed to provide an illustration as below:

- (10) 如果 儿童 受到 过多的 光线 照射, 褪黑激素 的  
 rúguǒ értóng shòudào guòduōde guāngxiàn zhàoshè tuīhēijīsù de  
 if children suffer too much light exposure melatonin PRT  
 分泌 将 减少。  
 fèn mì jiāng jiǎnshǎo  
 production will decrease  
 “If children are exposed to too much light, the production of melatonin will decrease.”
- (11) 如果 长 时间 处于 紧张 复习 的 阶段,  
 rúguǒ cháng shíjiān chùyú jǐnzhāng fùxí de jiēduàn  
 if long time experience nervous review PRT stage  
 反而 会 让 考生 更加 紧张。  
 fǎnér huì ràng kǎoshēng gèngjiā jǐnzhāng  
 instead can make examinee more nervous  
 “If examinees are in the stage of intense review for a long time, it will make them even more nervous.”

Distinguishable from the previous two timeless factual conditionals, the inference conditionals, implicit and explicit, are time-bound or location-bound, expressed in the *if* clause, exemplified by sentences (12) and (13), respectively. Research related to the inference conditionals is quite limited, and the verb tense and aspect topic mentioned by Larsen-Freeman and Celce-Murcia (2016: 580-581) has little to do with the current study, which is not going to be analyzed in detail.

- (12) 前面的 危机 还 没有 过去, 如果 再 因为  
 qiánmiànde wēijī hái méiyǒu guòqù rúguǒ zài yīnwéi  
 previous crisis still NEG pass if again because of  
 裁员 闹出 新的 事故, 自己 当 何以 自处?  
 cáiyuán nàochū xīnde shìgù zìjǐ dāng héyǐ zìchù

<sup>1</sup> All the English sentences are researcher own and all the Mandarin sentences are extracted from the corpora.

layoff make new accident I should what do  
 “The previous crisis has not passed; if a new accident because of layoffs, what should I do?”

(13) 如果 您 能 科学地 教育 孩子, 您的 孩子  
 rúguǒ nín néng kēxuédì jiàoyù hái zǐ nín de hái zǐ  
 if you can scientifically educate children your children  
 一定 会 回报 您的 爱。  
 yīdìng huì huíbào nín de ài  
 must will return your love  
 “If you can educate your children scientifically, they must return your love.”

Sentence (12) presents an implicit inference conditional, showing a specific time-bound relationship through the “previous crisis” and “new accident”. Sentence (13) is an example of explicit inference conditional with “an inferential modal, typically *must* or *should* in the main clause” (Larsen-Freeman and Celce-Murcia, 2016: 581); here is a *yīdìng* (must).

As the name of ‘future (predictive) conditionals’ shows, this type of conditional sentences encodes future events which have not happened yet. The strong or weakened conditionals mark different degrees of conditions or results. Compared to the strong type, the weakened ones tend to use “weaker modal predictions such as may, might, or should” (Larsen-Freeman & Celce-Murcia, 2016: 581).

(14) 如果 不 注意 健康 饮食 的话 你的 身材 同样 会 走形。  
 rúguǒ bú zhùyì jiànkāng yǐnshí dehuà nǐ de shēncái tóngyàng huì zǒuxíng  
 if NEG attention healthy diet PRT your figure also will out of shape  
 “You will also get out of shape if you don't pay attention to healthy diet.”

(15) 如果 米 特别的 白, 就 可能 是 毒 大米。  
 rúguǒ mǐ tebiéde bái jiù kěnéng shì dú dà mǐ  
 if rice particularly white PRT may be toxic rice  
 “If the rice is particularly white, it may be toxic rice.”

Jiang (2019) defined that “counterfactual conditionals (hereafter CF) are conditional sentences containing antecedents which are known to be contrary to fact or impossible to be true”. Karawani (2014: 5) agreed that world languages universally have the ability to convey the CF meaning by using “a dedicated or specialized CF morpheme” or “combinations of particular morphemes”, and Mandarin is no exception. In Mandarin, a few special lexicalized chunks are often employed to lead CF contexts. Furthermore, Jiang (2019) adopted Comrie’s (1985) opinion and pointed out that Mandarin makes use of relative tense to “indicate prior or posterior temporal relationships”, which can be marked by aspect markers such as the verb suffix *le* to demonstrate the completion of the action. The use of *le* can both indicate the hypothetical event in the present time and mark the accomplishment of an event, namely, the past time. Other makers, including temporal references like *zǎo* (early), negators like *yàoburán* (had it not been the case), and complements like *...dehuà* (in the case of...), also work.

(16) 如果 我 是 外国人, 能 用 外 语 给 我 指 路 吗?  
 rúguǒ wǒ shì wàiguórén néng yòng wài yǔ gěi wǒ zhǐ lù ma?  
 if I BE foreigner can use foreign language for me show way <sup>2</sup>PRT

<sup>2</sup> Lists of abbreviations

CL	classifier
NEG	negation
PASS	passive
PERF	perfect tense
POSS	possessive
PRT	particle
ASP	aspect marker

"If I were a foreigner, could you show me the way in a foreign language?"

The *rúguǒ* in sentence (16) leads to an impossible CF meaning because the property of the subject in the *if* clause can never be changed. Similarly, a situation contrary to the facts of the past or future can also be conveyed by using different chunks in sentences (17) and (18).

(17) 一宁空 道：你 虽然 救 了 我，但是 却 杀 了 这 许多 人...  
 níngkōng dào: nǐ suīrán jiù le wǒ, dànshì què shā le zhè xǔduō rén...  
 Ningkong say you although save ASP me but but kill ASP these many people

一白衣人 道：笑话，这些 强盗 刚刚 在 关口 杀 了  
 báiyīrén dào: xiàohuà, zhèxiē qiángdào gānggāng zài guānkǒu shā le  
 Baiyi say joke these bandit just at pass kill ASP  
 几百 个 兵丁，要是 让 他们 冲 到 城里，更 不  
 jǐbǎi gè bīngdīng, yàoshì ràng tāmen chōng dào chénglǐ, gèng bù  
 hundred CL soldier if let them rush to city more NEG  
 知 要 死 几千 几万 人！  
 zhī yào sǐ jǐqiān jǐwàn rén!  
 know will die thousand ten thousand people

"— Ningkong said: Although you saved me, but you killed so many people..."

— Baiyi: What a Joke! These bandits have just killed hundreds of soldiers at the pass. If they had rushed to the city, thousands of people would have died!"

(18) 印尼 有 17000 个 岛屿，假如 海 平面 上升 一 米，  
 yìnní yǒu gè dǎoyǔ, jiǎrú hǎi píngmiàn shàngshēng yī mǐ,  
 Indonesia have CL island if sea level arise one meter  
 将 有 2000 个 岛屿 会 消失  
 jiāng yǒu gè dǎoyǔ huì xiāoshī  
 will have CL island will disappear

"Indonesia has 17,000 islands, and 2,000 of them would disappear if sea levels were to arise by one meter."

The *if* clauses in the two sentences above, beginning with *yàoshì* and *jiǎrú*, describe imaginative contexts that oppose the facts of the past and the future, respectively. In sentence (11), through the indication of the aspect marker *le*, it is made known that the bandits have actually been killed before the conversation happens, making the assumption that "if the bandits rush to the city," it is impossible to take place. According to Larsen-Freeman and Celce-Murcia (2015: 585), imaginative conditional sentences contrary to the future time often express "unrealized or unlikely yet theoretically possible event". The event in sentence (12) is this case because, despite the fact that the sea level has not risen while the islands have not disappeared, the hypothetical circumstance is possible to happen in the future.

### 3. Methodology

#### 3.1 Data collection

The current study presents a few possible markers of conditionals in Mandarin, including *rúguǒ*, *jiǎrú*, *yàoshì*, *yàobushì*, and *zǎozhīdào* based on four Mandarin corpora—<sup>3</sup>Lancaster Corpus of Mandarin Chinese version 2, <sup>4</sup>BFSU ToRCH family Chinese corpora, <sup>5</sup>the UCLA Corpus of Written Chinese (2nd edition), and <sup>6</sup>the BFSU DiSCUSS Corpus.

The LCMC2 is an update of LCMC version 1, consisting of the same text samples as LCMC1, which was created by Richard Xiao and represented "written Chinese published in China in the early 1990s" (McEnery & Xiao, 2005). A few typo and segmentation corrections were made in the LCMC2. The corpus contains a massive amount of data in written and spoken discourse belonging

<sup>3</sup> Hereafter referred to as LCMC2. <http://114.251.154.212/cqp/lcmc2/>

<sup>4</sup> Hereafter referred to as ToRCH. <http://114.251.154.212/cqp/torchfamily/>

<sup>5</sup> Hereafter referred to as UCLA 2. <http://114.251.154.212/cqp/ucla2/>

<sup>6</sup> Hereafter referred to as DiSCUSS. <http://114.251.154.212/cqp/discuss/>

to 15 hybrid genres, from reportage to fiction, which is identical to the types covered in the ToRCH and UCLA. The former is the acronym of 'Texts of Recent Chinese Texts', belonging to the Brown corpus family. The ToRCH corpus used in the current research is a combination of three previous versions—: ToRCH 2009, 2014 and 2019. The data in the UCLA 2 were all "collected from written modern Chinese available from the internet", whose genres were as consistent as possible with the Brown corpus model (Xiao, 2013). The UCLA 2 is of great significance in complementing the LCMC 2 in terms of considering the influence of the Internet on Mandarin. The DiSCUSS corpus presents diverse and balanced materials of spoken Chinese uttered in social contexts. In order to better analyze the conditionals in Mandarin, the DiSCUSS is applied here to supply the oral data, making a contrast between the use of conditionals in spoken and written Mandarin. General information about each corpus mentioned above is provided in Table 1 below.

Corpora	LCMC 2	ToRCH	UCLA 2	DiSCUSS
Date	the early 1990s	2009, 2014 and 2019 combined	2000-2012	1999-2022
Text types	Written	Written	Written	Spoken
Total words in all corpus texts	1,021,037	3,694,301	1,097,113	1,268,835
Total number of corpus texts	500	1,172	15	300
Text genres	<ul style="list-style-type: none"> <li>- Press: reportage</li> <li>- Press: editorials</li> <li>- Press: reviews</li> <li>- Religion</li> <li>- Skills, trades, and hobbies</li> <li>- Popular lore</li> <li>- Biographies and essays</li> <li>- Miscellaneous: reports and official documents</li> <li>- Science: academic prose</li> <li>- General fiction</li> <li>- Mystery and detective fiction</li> <li>- Science fiction</li> <li>- Adventure and martial arts fiction</li> <li>- Romantic fiction</li> <li>- Humor</li> </ul>			Dialogue: <ul style="list-style-type: none"> <li>- Direct Conversations</li> <li>- Telephone Calls</li> <li>- Classroom Lessons</li> <li>- Broadcast Discussions</li> <li>- Broadcast Interviews</li> <li>- Parliamentary Debates</li> <li>- Legal Cross-Examinations</li> <li>- Business Transactions</li> </ul> Monologue: <ul style="list-style-type: none"> <li>- Spontaneous Commentaries</li> <li>- Unscripted Speeches</li> <li>- Demonstrations</li> <li>- Legal Presentations</li> <li>- Broadcast News</li> <li>- Broadcast Talks</li> <li>- Speeches (Not Broadcast)</li> </ul>

Table 1 General information about LCMC2, ToRCH, UCLA2, and DiSCUSS

### 3.2 Data Analysis

An analysis of the Mandarin conditional markers *rúguǒ*, *jiǎrú*, *yàoshì*, *yàobushì*, and *zǎozhīdào* proceeded in three steps. First, whole sentences containing the tokens of these markers were all extracted from the four corpora and categorized into a few lists in light of the types of conditionals and genres of texts in Mandarin. Second, all the sentences were interpreted to analyze the discourse function of each conditional marker. If the sentence where the marker is too short or ambiguous to convey the meaning, the context would be checked.

### 4. Results

According to Table 2 below, there are a total of 4974 tokens of *rúguǒ*, 212 of *jiǎrú*, 527 of *yàoshì*, and 37 of *yàobushì* identified in the four corpora. It is obvious that *rúguǒ* occurs much more frequently than the other three markers in each corpus, and *yàobushì* as the only marker that contains the negation meaning, is the least commonly used. The trend of using different markers is found to be similar in the written data and the spoken ones that *rúguǒ* significantly takes priority, and *yàobushì* is rarely employed. A small difference lies in the use of the other two markers—, *jiǎrú* and *yàoshì*. Compared to the written data, the frequencies of using them are not noticeably contrasting; however, *yàoshì* are almost five times more common than *jiǎrú* in the spoken data.

Table 2 The occurrence of conditional in the four corpora

	markers	<i>rúguǒ</i>		<i>jiǎrú</i>		<i>yàoshì</i>		<i>yàobushì</i>		Total	
		Freq	%	Freq	%	Freq	%	Freq	%	Freq	%
Written	LCMC2	601	88.5	38	5.6	38	5.6	2	0.3	679	100
	ToRCH	2172	88.8	82	3.4	167	6.8	24	1.0	2445	100
	UCLA2	867	92.5	39	4.2	28	3.0	3	0.3	937	100
Spoken	DiSCUSS	1334	79.0	53	3.1	294	17.4	8	0.5	1689	100
	Total	4974		212		527		37		5750	

The following figures show the use of the four conditional markers. Figure 2 roughly shows the distribution of each conditional marker, and Figure 3 demonstrates the number of occurrences for each conditional marker and their proportions in each corpus.

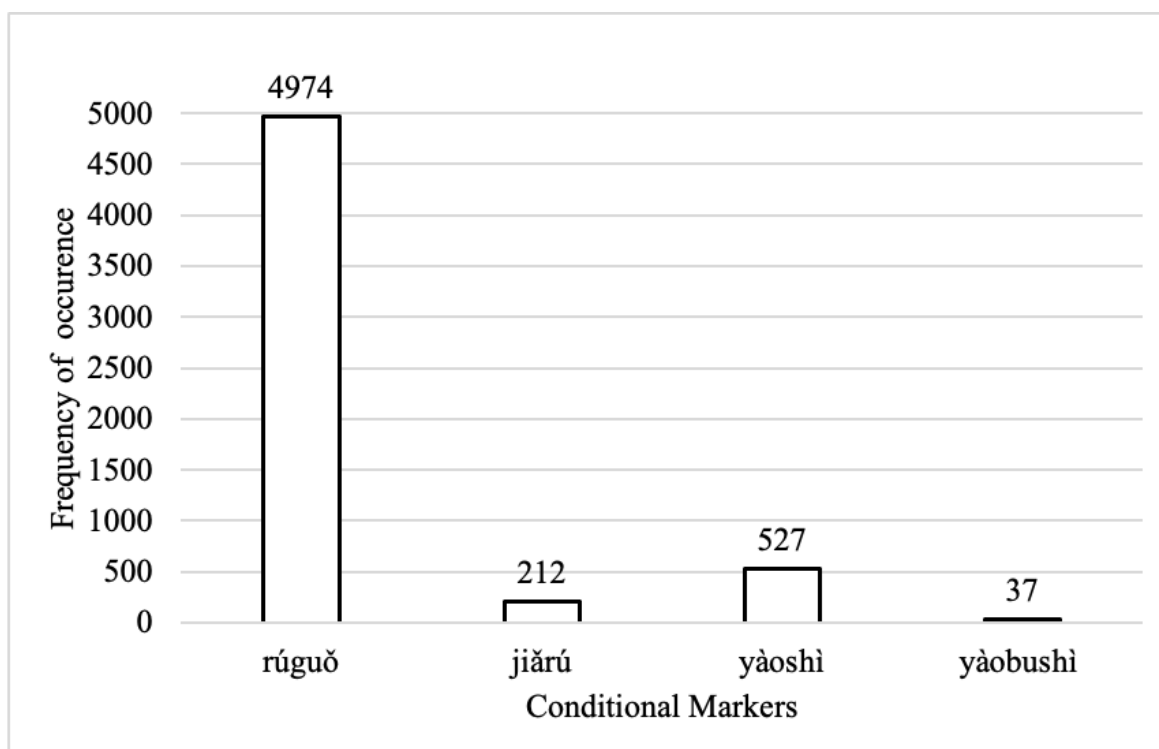


Figure 2 The Distribution of conditional markers

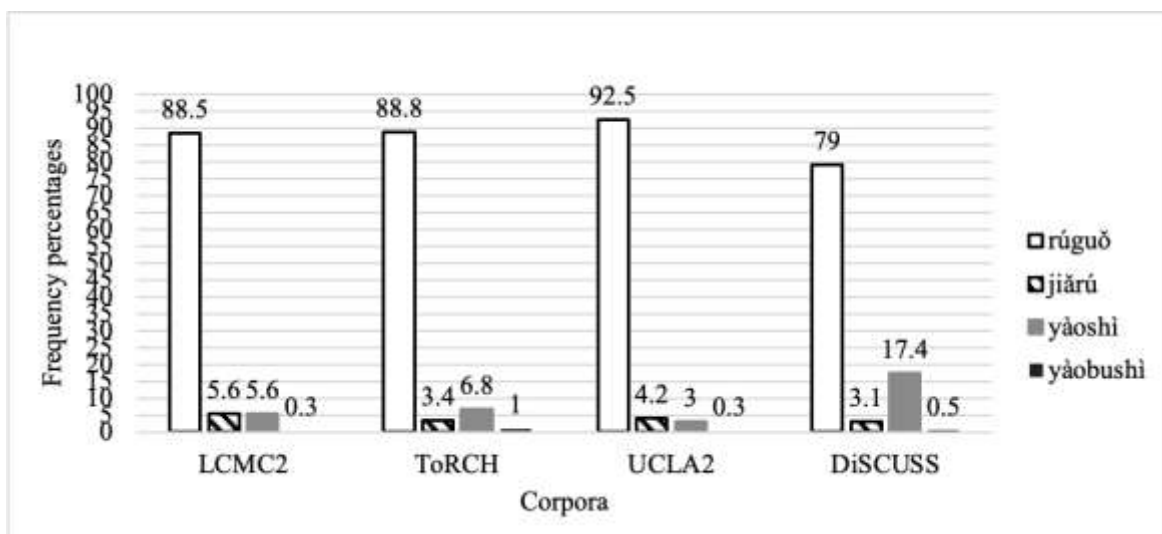


Figure 3 Frequency percentages of conditional markers in different corpora

From Figures 2 and 3 above, it is obvious that *rúguǒ* appears the most often in the total number, and it also has the largest number of occurrences in each corpus, which is principally taken as a prototypical conditional marker, occupying 86.5% in all. *yàoshì* is the second most frequently-used conditional marker, even though its proportion is far less than that of *rúguǒ*, accounting for 9.2%, followed by *jiǎrú* and *yàobushì*. However, the use of the latter can almost be ignored, only occupying 0.6% in total. Additionally, according to the data of the DiSCUSS, it seems that people tend to use *yàoshì* more often in spoken utterances than in written contexts.

Corpora	Markers	Type 1	Type 2	Type 3	Type 4	Type 5	Type 6	Type 7	Type 8	Type 9	Null	Total
LCMC2	<i>rúguǒ</i>	86	48	13	32	283	39	29	41	29	1	601
	<i>jiǎrú</i>	7	0	0	0	12	2	3	9	1	4	38
	<i>yàoshì</i>	1	0	1	0	17	7	3	5	2	2	38
	<i>yàobushì</i>	0	0	0	0	0	0	0	0	2	0	2
ToRCH	<i>rúguǒ</i>	332	84	62	65	930	224	120	182	154	19	2172
	<i>jiǎrú</i>	0	2	2	6	28	10	7	19	3	5	82
	<i>yàoshì</i>	1	3	4	8	74	19	11	28	11	8	167
	<i>yàobushì</i>	0	0	1	3	5	2	0	1	11	1	24
UCLA2	<i>rúguǒ</i>	121	45	13	17	387	84	79	69	46	6	867
	<i>jiǎrú</i>	2	0	0	0	6	5	10	11	5	0	39
	<i>yàoshì</i>	0	1	1	0	14	1	2	6	2	1	28
	<i>yàobushì</i>	0	0	0	0	0	0	0	1	2	0	3
DiSCUSS	<i>rúguǒ</i>	27	9	20	29	908	113	39	118	60	11	1334
	<i>jiǎrú</i>	1	0	2	4	19	10	0	4	5	8	53
	<i>yàoshì</i>	8	13	1	15	152	52	7	25	19	2	294
	<i>yàobushì</i>	0	2	0	1	0	0	0	2	2	1	8
Total		586	207	120	180	2835	568	310	521	354	69	5750

Table 3 The occurrence of conditional markers in the four corpora

From Table 3, it is distinct that, in general, most conditional sentences, almost half of them in total, are related to Type 5, namely, the strong condition and result, and the number of sentences in Type 1, 6, and 8 are quite similar. Except for the markers contained in conditional sentences, there are irrelevant cases in corpora, such as repetition, polysemy, and wrong combination, which are categorized into the Type Null. It is excluded in Figure 4.

Markers	Type 1	Type 2	Type 3	Type 4	Type 5	Type 6	Type 7	Type 8	Type 9	Null	Total
<i>rúguǒ</i>	566	186	108	143	2508	460	267	410	289	37	4974
<i>jiǎrú</i>	10	2	4	10	65	27	20	43	14	17	212
<i>yàoshì</i>	10	17	7	23	257	79	23	64	34	13	527
<i>yàobushì</i>	0	2	1	4	5	2	0	4	17	2	37
Total	586	207	120	180	2835	568	310	521	354	69	5750

Table 4 The summary of conditional markers of different types in the corpora



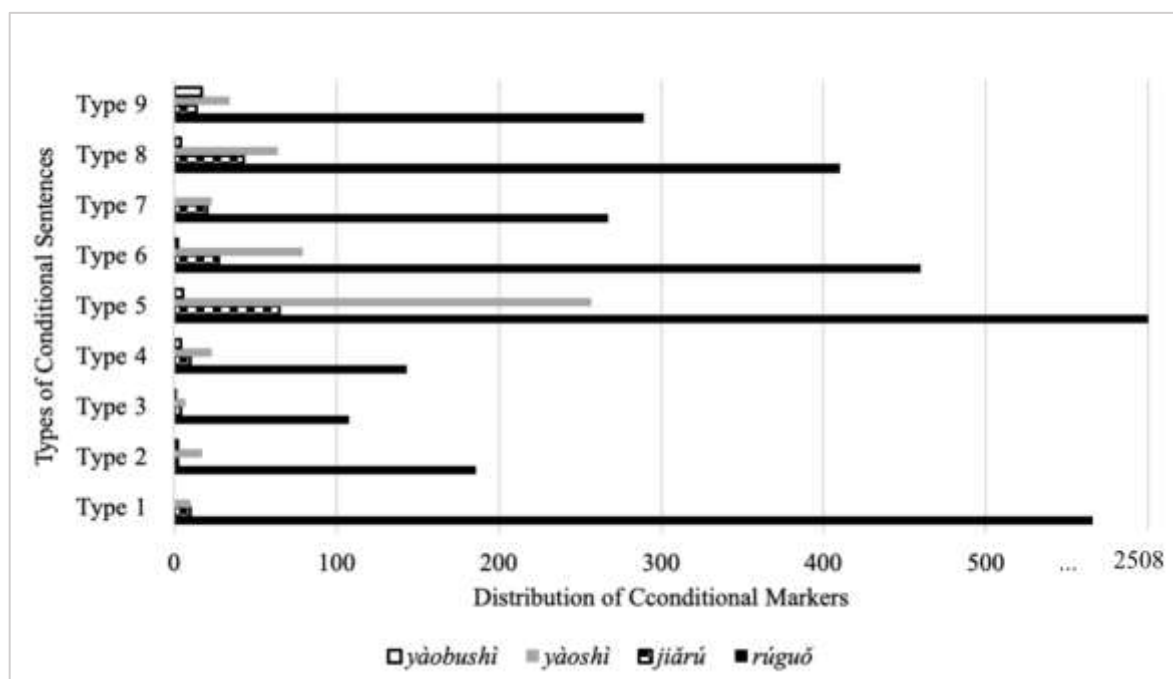


Figure 4 The distribution of conditional markers in different corpora

Figure 4 is the diagramization of Table 4, showing the general distribution of each conditional marker in the four corpora. It is super obvious that all four markers appear the most when conveying the meaning (5), namely, the strong condition or result. *rúguǒ*, as the most popular conditional marker, is most frequently-used in all types of sentences. For example,

- (19) 目前 遗址 还 没有 遭到 大规模的 破坏, 如果  
 mùqián yízhǐ hái méiyǒu zāodào dàguīmóde pòhuài rúguǒ  
 so far site still NEG get extensively damage if  
 发掘, 肯定 会有 重大的 发现。  
 fājué kěndìng huìyǒu zhòngdàde fāxiàn  
 excavate for sure yield significant finding  
 "So far, the site has not been extensively damaged; if it is excavated, it will yield significant findings for sure."

The sentence (19) is a typical representation of Type 5 because it points out the affirmative prediction (significant findings will be yielded) under certain circumstances (if the site could be excavated). *rúguǒ* also greatly works in the similar but weakened condition of Type 5, namely 6 and Type 1, showing general truth as in sentences (20) and (21).

- (20) 可 如果 形成 了 许多 人 争购 的 态势,  
 kě rúguǒ xíngchéng le xǔduō rén zhēnggòu de tài shì  
 but if form PRT a lot of people buy PRT situation  
 就 可能 出现 价格 高于 价值 的 情况。  
 jiù kěnéng chūxiàn jiàgé gāoyú jiàzhí de qíngkuàng  
 PRT may appear price high value PRT situation  
 "But if a lot of people buy (something), there may be a situation where the price is higher than the value."

Sentence (20) is an example of Type 6, stating a possible prediction with a not that strong attitude, while sentence (21) illustrates Type 1, a scientific fact that everyone knows is true and will change.

- (21) 如果 生长 激素 降低, 胰岛素 作用 相对 占  
 rúguǒ shēngzhǎng jīsù jiàngdī yídǎosù zuòyòng xiàngduì zhàn  
 if growth hormone reduce insulin effect relatively BE  
 优势, 可 使 脂肪 合成 增多 造成 肥胖。  
 yōushì kě shǐ zhīfáng héchéng zēngduō zàochéng féipàng  
 advantage can make fat synthesis increase cause obesity

priority so make fat synthesis increase result in obesity

"If the growth hormone is reduced, the effect of insulin is relatively dominant, making fat synthesis increase and resulting in obesity."

Besides *rúguǒ*, the marker *yàoshì* is often used in Type 5, followed by Type 8 and 7. Sentences (22) and (23) exemplify a strong plan (going to the aquarium) when a particular condition (it rains) is applied.

- (22) 要是 下雨 咱 就 去 那个 海洋馆。  
*yàoshì xiàyǔ zán jiù qù nàgè hǎiyángguǎn*  
 if rain we PRT go that aquarium  
 "If it rains, we will go to that aquarium."

For other markers, *jiǎrú* is also used in Type 8, showing impossible CF circumstance, which is opposite to the current fact as in sentence (23). It is a completely impossible CF conditional sentence because nobody can turn back the clock. *yàobùshì*, as the least frequently-used, appears relatively more when it is related to Type 9, aiming to convey a CF situation in the past and its probable result in the past, as in sentence (24).

- (23) 假如 时光 能 倒流!  
*jiǎrú shíguāng néng dǎoliú*  
 if time can turn back  
 "If I could turn back the clock!"

- (24) 要不是 邻居 小孩 发现 告诉 他 妈, 我 真是 死 了。  
*yàobùshì línjū xiǎohái fāxiàn gàosù tā mā wǒ zhēnshì sǐ le*  
 if+NEG neighbor kid find out tell his mother I really die PRT  
 "I would have died if the neighbor kid hadn't found out and told his mother."

Sentence (24) describes a CF condition different from the past fact. The subject "I" in the main clause did not die because the neighbor kid noticed something had happened and saved "my" life. Therefore, I could be alive to say this CF conditional sentence to explain the past situation.

In terms of genre distinctions, each conditional marker has a different performance, which has been demonstrated in Table 5 and its corresponding Figure 5.

Categories	<i>rúguǒ</i>	<i>jiǎrú</i>	<i>yàoshì</i>	<i>yàobùshì</i>
A: News reportage	195	3	3	0
B: News editorial	237	11	2	0
C: News review	141	1	2	1
D: Religious	101	15	3	0
E: Skill/trade/hobby	530	12	4	0
F: Popular lore	458	21	24	6
G: Biography and essay	429	27	24	3
H: Miscellaneous (official document, report, etc.)	24	0	0	0
J: Academic prose	587	13	2	1
K: General fiction	181	17	41	3
L: Mystery and detective fiction	235	14	33	5
M: Science fiction	98	7	3	1
N: Adventure and martial arts fiction	179	8	21	5

P: Romantic fiction	184	7	49	4
R: Humour	61	3	22	0
Total	3640	159	233	29

Table 5 Distribution of markers in different genres

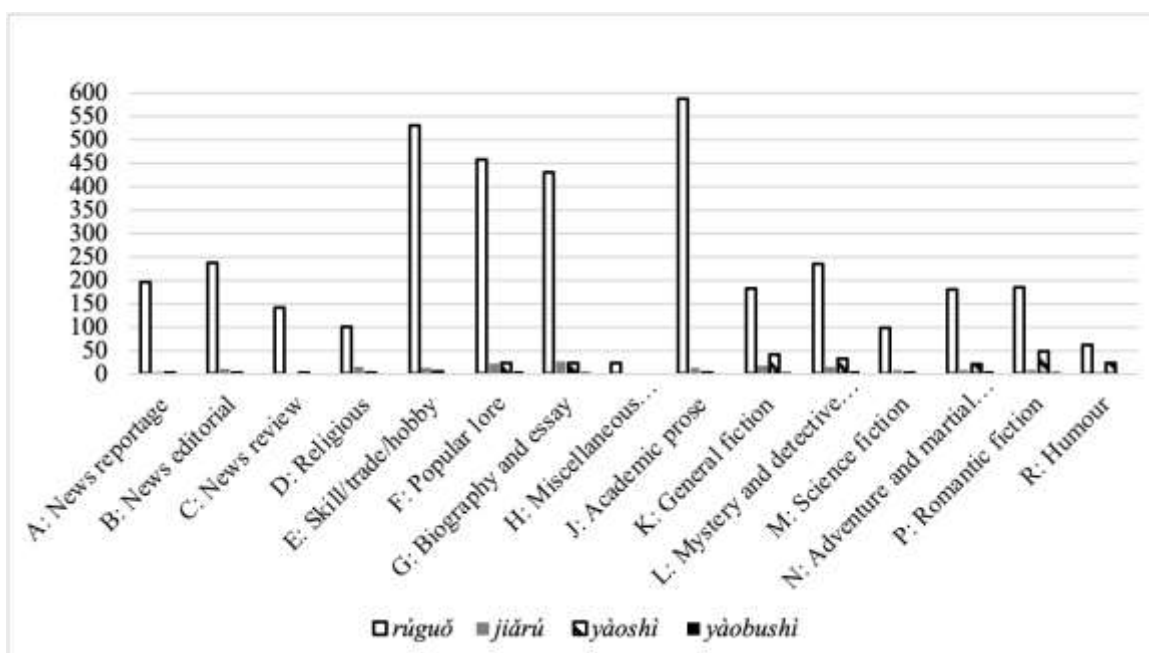


Figure 5 Distribution of markers in different genres

Figure 5 illustrates the distribution of the four conditional markers across the 15 genres in written texts. It is evident that *rúguǒ* takes absolute priority in all categories. *yàoshì* occurs a little bit more frequently in popular lore, biography and essay, and general fiction compared to the other two markers, while these three types are also the genres in which *jiǎrú* is used. *yàobushì* is undoubtedly the least prevalent marker no matter in which genre, only appearing 29 times in total.

Types	<i>rúguǒ</i>	<i>jiǎrú</i>	<i>yàoshì</i>	<i>yàobushì</i>	Total
Dialogue	826	44	254	8	1132
Monologue	508	9	40	0	557
Total	1334	53	294	8	1689

Table 6 Distribution of markers in dialogue and monologue spoken data

As for spoken data, *rúguǒ* is undoubtedly employed the most, occupying more than four times the number of the second one, *yàoshì*. Compared to the monologue, the interlocutors who have dialogues are inclined to use the conditional markers more often. However, no matter the dialogue or the monologue, the occurrence frequency of *rúguǒ*, *yàoshì*, *jiǎrú*, and *yàobushì* decreases in turn.

## 5. Conclusion

In summary, the present study concentrates on conditional sentences in Mandarin from a semantic perspective. Among the four Mandarin conditional markers (*rúguǒ*, *jiǎrú*, *yàoshì*, and *yàobushì*), *rúguǒ* is dominant and occurs the most, followed by *yàoshì*, *jiǎrú*, and *yàobushì*. Of the 15 genres of written texts under consideration, *rúguǒ* takes full priority in each genre compared to the other three markers, and it is the most commonly-used in the type of 'academic prose'. Authors of general fiction tend to use *yàoshì* more than those of other genres, while it is likely for people to choose *jiǎrú* in the type of 'biography and essay'. *yàobushì*, as the least popular marker, is rarely used in written and spoken texts. When it comes to the types in which conditional sentences

occur the most in written and spoken texts, the answer is the condition expressing strong conditions and results such as predictions, plans, and contingencies. Besides, the meanings consisting of scientific facts, less certain preconditions or plans, and counterfactual connotations opposed to the current fact are not uncommon. In terms of spoken Mandarin, conditional markers tend to be used in conversations instead of monologues, and the use of *rúguǒ*, *yàoshì*, *jiǎrú*, and *yàobushì* reduces in turn.

The current research, focusing mainly on four Mandarin conditional markers, may not entirely capture the diversity of conditional constructions in Mandarin. Future studies should consider additional markers and regional variants, including dialects and habitual uses, to broaden the understanding of Mandarin conditionals across different dialects and sociolects. The methodological approach, primarily corpus-based, might not reflect the latest language use trends, as it depends on existing written and spoken data. Future research could benefit from incorporating experimental and ethnographic methods, offering a more dynamic view of language use, especially in informal and evolving linguistic settings.

Further research avenues include comparative studies between Mandarin conditionals and those in other languages, which could illuminate unique aspects, similarities, and differences influenced by cultural and linguistic contexts. Additionally, exploring practical applications in areas like language teaching and translation could enhance Mandarin teaching methodologies and improve machine translation systems for better handling of Mandarin conditional sentences.

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