

# Ideological Positions of Party Switchers\*

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## Abstract

The phenomenon of party switching has been studied mostly under two angles. First, to assess what motivates the decision to change party, and second, whether party defectors change their ideological positions after changing party. In the present paper we start engaging these two literatures. Hardly any other parliament has seen as many MPs switching their legislative party membership during legislative periods as the Polish Sejm. While we are able to demonstrate that Polish party switchers are often quite different from the average MP of the party they join, our results on the effects of party discipline are mixed.

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# 1 Introduction

In recent years, legislative research has increasingly taken notice of the phenomenon that members of parliament (MPs) change party affiliation during a legislative term or during an election campaign. Such party switching has been studied mostly under two angles. First of all, scholars attempted to understand under what circumstances MPs change their allegiance from one party to another. A series of explanations have been provided to account for when and why legislators switch party. Second, the phenomenon of party switching has been used to assess the effect of party discipline on MPs' voting behavior, the reasoning being that changes in MPs' ideological positions accompanying changes in party affiliation must result from party pressure and thus offer some estimate of the effects of party discipline.

To a large degree, these two literatures have evolved in a separate fashion. This is unfortunate, as the results obtained in each approach have a direct bearing on the other. More precisely, if the recent work trying to explain party switching is correct, then the legislators who engage in party switching are not your average MPs, but distinguish themselves from the MPs who remain with their party. This finding has a direct implication on the second literature in which scholars attempt to infer effects of party discipline by comparing ideological positions of party switchers. As such analyses are valid only if party switchers are (approximately) a random subset of the universe of legislators, and thus do not distinguish themselves systematically from the party stayers, finding specific reasons for party switching undermines this research strategy.

In the present paper we start engaging the two literatures by employing novel tools. Taking account of the different reasons for shifting partisan affiliations, and exploiting several cases of party disintegration, allows us to estimate more accurately the causal effect of party discipline on legislators' voting behavior. To do so we rely on the complete voting record of the Polish parliament's lower chamber (the *Sejm*) during three legislative periods, namely its III (1997-2001), IV (2001-2005), and V (2005-2007) legislative term. Using the Polish Sejm as case has several advantages. First of all, it is one of the parliaments which have seen the most extensive party switching (Shabad and Slomczynski 2004; Zielinski, Slomczynski and Shabad 2005; McMenamin and Gwiazda 2011). Second, voting in the Sejm is systematically carried out by roll-call, rendering the strategic choice

of voting procedures irrelevant.<sup>1</sup> Drawing on the complete record of votes that are taken on the floor thus reduces the risk of selection bias (Carrubba et al. 2006; Hug 2010; Crisp and Driscoll 2012).

In the remainder of the paper we proceed as follows. We start in section two with a discussion of the two literatures dealing with the phenomenon of party switching. In section three we present in more detail the data we employ and discuss the methods and empirical models we rely upon. Section four presents the empirical results, and in section five we conclude and briefly mention the next steps in this research endeavor.

## 2 Party Switching and Party Discipline

Party switching is generally not a widespread phenomenon in contemporary legislatures (Heller and Mershon 2009). Nonetheless, because of its much greater frequency in some new democracies of the third wave, which often have not (yet) fully institutionalized party systems (see for instance Bakke and Sitter 2005), politicians who shift allegiances from one party to another have begun to attract increasing attention among scholars of legislative politics. Two literatures have developed largely in isolation from each other. On the one hand, scholars attempted to understand for what reasons and under what circumstances legislators switch party affiliation. In the second literature, on the other hand, the occurrence of party switching has been used to estimate the effect of party discipline on the legislative voting behavior of MPs. We describe each literature in more detail and set out to engage them in the remainder of this section.

### 2.1 Explaining Party Switching

The research seeking to explain the occurrence of party switching can be distinguished into theoretical and empirical approaches. In an early theoretical contribution to the literature, Aldrich and Bianco (1992) developed a formal model of party affiliation. Criticizing the assumption made in ambition theory (e.g., Black 1972) that office-seeking politicians maintain stable partisan affiliations, Aldrich and Bianco (1992) consider the decision of whether to switch party or stay put a

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<sup>1</sup>Votes are cast simultaneously by show of hands and using an electronic vote-recording device. All votes are recorded at the individual level and made publicly available on the Sejm's webpage at the conclusion of each parliamentary session (Kistner 2006, 20).

strategic choice. Their model shows that politicians who choose partisan affiliation in order to maximize their likelihood of (re-)election not only switch party because of shifts in the electoral support of parties, but also to avoid intra-party competition in the selection of candidates. By assuming that a candidate's probability of (re-)election is a function of the number and strength of the slate of candidates her party offers, Aldrich and Bianco (1992) moreover show that one or few defections may reduce the value of affiliation for other candidates of the party, making further switches more likely. Aldrich and Bianco's (1992) model, built for an electoral system with single-member districts and two parties, is generalized by Desposato (2006) to other political systems and to include an endogenous party leadership. Desposato (2006) offers a theoretical model of party affiliations where the decisions whether to switch party or to stay put are a function of the strategic interaction of individual legislators and party leaders. Laver and Benoit's (2003) approach to assess party switching is similar, as it both considers the legislator's incentives and the potentially receiving party's willingness to accept a new member.

Most scholarly work on party switching is, however, empirical and examines the causes and behavioral and electoral consequences of switching in a variety of cases. Similar to the behavior of political parties (Budge and Laver 1986; Strøm 1990; Müller and Strøm 1999), legislators are often assumed to be motivated by a combination of re-election, career advancement, and policy-making considerations, although the weight they attach to each of these goals may vary considerably (Fenno 1973; Kam 2009). Consequently, much of the empirical literature on party switching has examined how the decision of ambitious MPs to defect from their parties relates to vote-, office-, and policy-seeking objectives. Applying his theoretical model of party affiliations to the case of Brazil, Desposato (2006) provides empirical evidence that legislators choose parties as to maximize their chances of re-election, are more likely to switch or stay put in parties that have greater access to distributive resources, and prefer membership in ideologically compatible parties. Which of these factors matters most, however, depends on constituents' preferences. While legislators who represent less-developed regions are more likely to emphasize access to government pork, representatives from more-developed regions are more responsive to ideological proximity in their party affiliation strategies.

Desposato and Scheiner (2008) study party affiliation strategies of national and subnational legislators in Brazil and Japan. In both cases, delivering government resources to core constituents is a defining feature of electoral competition, but whereas in Brazil control over pork allocation is significantly decentralized, it is highly centralized in Japan. By modeling legislators' decisions of whether or not to switch parties as a function of the decentralization of resource control, Desposato and Scheiner (2008) show that in decentralized Brazil, both national and subnational MPs join the parties that control their subnational government, and only national legislators show concern for national coalitions when choosing between parties. In centralized Japan, by contrast, national coalition parties figure prominently in party affiliation decisions of both national and subnational MPs.

Examining the split that occurred in Japan's long-time dominant Liberal Democratic Party (LDP) in 1993, Reed and Scheiner (2003) find evidence of re-election incentives driving legislators' decision whether or not to defect from the party in power. However, the effect of the electoral connection is not constant: how politicians respond to electoral incentives depends on the stage of their career and on what kind of electoral district they represent. Reed and Scheiner's (2003) study further shows that the decision to switch is also affected by MPs' policy preferences. Since the dominant factor explaining defections from the LDP was preference for political reform policies, Reed and Scheiner (2003) argue that defections from a party in power cannot be understood solely on the basis of legislators' desire to maximize their re-election prospects.

Heller and Mershon (2005) explicitly conceive of switching as a tool of ambitious politicians. Their analysis demonstrates that changing party affiliation is more common in parties that have less ideologically consistent labels. Uncertainty about party policy makes it more likely that MPs find their parties' positions to be at odds with constituency preferences and therefore are tempted to switch. In general, switching should be especially likely under conditions of high uncertainty, as is exemplified, for example, by the 1996-2001 Italian Chamber of Deputies.

Heller and Mershon (2008) hypothesize that the more a party leader uses discipline to induce MPs to toe the party line and vote against their sincere preferences, the less utility each party member gets on average, which, in turn, creates an incentive for MPs to switch party allegiance. Hence, the greater the

ideological distance between an MP and her party, the more likely she is to defect. Indeed, Heller and Mershon's (2008) empirical analysis of the Italian Chamber of Deputies provides evidence that more disciplined parties see more switching. Moreover, it is the MPs whose ideal points are most distant from their parties' preferences who switch most often.

McElroy (2009), finally, draws attention to the office benefits – these include positions internal to the parties as well as positions that are controlled by the parties such as committee assignments and committee chairmanships – that may motivate a legislator to switch party. In the context of the European Parliament (EP), where the electoral connection has been shown to be weak, she demonstrates that MPs choose parties on the basis of both office and ideological payoffs.

So why do legislators switch parties? Clearly, as the research reviewed above illustrates, there are multiple motivations whose relative importance may vary with electoral institutions as well as constituency-, party- and legislator-specific characteristics. Yet the common denominator is that the decision of whether or not to switch party is a choice which is made by ambitious politicians. Studies that investigate whether legislators who change parties also change their voting behavior assume ambitious MPs as well, since party-induced changes in voting behavior presumably are linked to party discipline, and such discipline works because legislators are ambitious (Heller and Mershon 2008). The assumption of legislator ambition is thus central to both the literature explaining party switching and the literature that investigates the impact of switching on defectors' voting behavior.

## **2.2 Party Discipline and Legislative Voting Behavior**

Concurrently to the evolving literature seeking to explain party switching, a separate debate is ongoing about whether, when and to what extent parties influence the voting behavior of party members (e.g., Roberts 2007). To estimate the (direct) effect parties have on legislators' roll-call behavior, scholars have used diverse measures of voting cohesion and spatial models (e.g., Rohde 1991; Aldrich 1995; Levitt 1996; Krehbiel 2000; Snyder and Groseclose 2000; Ansolabehere, Snyder and Stewart 2001; McCarty, Poole and Rosenthal 2001; Cox and Poole 2002; Lawrence, Maltzman and Smith 2006; Cox and McCubbins 2005, 2007). However, unless some rather strong assumptions hold, distinguishing between party

members who vote together due to shared (personal or constituency-induced) ideological preferences and MPs voting together because their party pressures them to do so is difficult, if not impossible (Krehbiel 1993, 1998). The fundamental question thus is: do parties influence their members' revealed preferences or do they merely reflect them?

Recently, scholars have begun to exploit the phenomenon of legislative party switching in order to untangle the partisan and ideological components of an individual MP's voting behavior. Analyzing the roll-call behavior of those 20 legislators who switched parties while serving in the House of Representatives or Senate from 1947 to 1997, Nokken (2000) finds that the defectors' pre-switch behavior differs significantly from their post-switch voting patterns. Furthermore, as other members of Congress whose party affiliation remained stable and whose behavior resembled the pre-switch voting behavior of defectors made no comparable subsequent changes, Nokken (2000) concludes that party directly affects legislators' roll-call decisions.

Nokken's (2000) finding of MPs adjusting their behavior to the party they have switched to is corroborated by McCarty, Poole and Rosenthal (2001), who used Poole's (2000) Optimal Classification (OC) procedure to obtain rank orders of legislators' ideal points in the House and Senate. The average rank movement proved to be substantial, as party switchers jumped over more than one-fourth of all MPs serving in a legislature.

Nokken and Poole (2004) take a broader historical perspective and investigate the roll-call behavior of all MPs who changed party affiliation during the periods of the three major two-party systems in U.S. Congressional history. This allowed them to identify 38 party switches in the Senate and 160 in the House of Representatives over a period of 79 Congresses. Whereas both Nokken (2000) and McCarty, Poole and Rosenthal (2001) treat a party switcher as two separate legislators whose legislative behavior then can be compared, Nokken and Poole (2004) computed the distance between a defector's DW-NOMINATE score (Poole and Rosenthal 2001) in the last Congress of the old party and the one in the first Congress of the new party and compared this distance to the distances calculated for all MPs in the corresponding pair of Congresses. Most notably, they demonstrate that the effects of party switching are not constant over time. Defections in periods of low ideological polarization as well as switches between major and

minor parties tend not to coincide with major shifts in the voting behavior of party switchers. Within periods of high party polarization, however, major-party switchers change their roll-call behavior significantly.

Desposato (2004) analyzes the behavior of party switchers before and after they change party in the Brazilian Chamber of Deputies. By reporting switchers' voting agreement scores with their old and new parties, Desposato (2004) demonstrates that after changing party, defectors modify their voting behavior to better match their new parties' policy positions. This finding is supported by estimation of a spatial model of party influence, where the legislator-party observations' ideal points are regressed on both the parties' ideal points and legislator fixed effects.

For the Ukrainian parliament Thames (2005) estimates with the help of a principal component analysis of roll-call votes the "preferences" of MPs in eight parliamentary sessions between 1998 and 2002. The changes in preferences from one session to another are then regressed on a party switching dummy and a series of control variables. He finds that switches to some of the parties represented in the Ukrainian parliament are associated with statistically significant preference changes and thus concludes that "[t]he results support the existence of party effects..." (Thames 2005, 105).

The study of Shor and Tomkowiak (2010), finally, examines 177 cases of party switching that are drawn from all 98 partisan legislative chambers in the United States over the 1993-2008 time period. This data shows that the ideological misfit between state legislators and their parties and districts strongly affects the size of the ideological shift they make when changing party affiliation. For instance, Republicans who are too conservative relative to their districts become much more liberal, while those who are too liberal become somewhat more liberal after a switch.

Although the empirical context varies, all of these studies attempt to uncover party effects, with the idea being that party switching induces an exogenous change in party influence, while personal and constituent preferences are assumed to remain constant. Indeed, some authors explicitly claim that party switching gives rise to a natural experiment that can be exploited to identify party effects (Nokken 2000; Shor and Tomkowiak 2010). According to Nokken (2000, 421),

[t]he set of party defectors serves as a natural experimental group



with which to assess how changing party affiliation influences roll-call behavior. Comparing the pre- and post-switch roll-call behavior of party defectors allows one to make statements not just about these individual MCs [members of Congress] but also about the importance of political parties in shaping the behavior of *all* members.

Following Robinson, McNulty and Krasno (2009, 346), a natural experiment is premised on the notion that “some external force intervenes and creates comparable treatment groups in a seemingly random fashion” (see also Morgan and Winship 2007; Dunning 2008; Sekhon and Titiunik 2012). This seemingly random – or exogenous – treatment assignment implies that the treatment and control groups created by the natural experiment are similar in terms of all observed and unobserved variables save the treatment that may affect the outcome of interest. However, considering the data-generating process that produces party switching, the literature explaining party defection clearly suggests that the selection process relates to vote-, office- and policy-seeking motivations of ambitious politicians. Legislators that differ with respect to re-election, career advancement and policy-making goals, in turn, are also likely to be differently affected by (changes in) party influence than the average MP. For example, consider a conservative party MP who is far too liberal for her party and thus subject to severe discipline. A switch to the liberal counterpart would relieve that pressure and might result in a significant change of her voting behavior. Taking this shift in her ideological position as a measure for party influence may lead, however, to biased estimates of party effects. While several of the studies discussed above control for some of the factors explaining party switching (e.g., Thames 2005) the estimated effect on ideological positions in such models is an unbiased estimate only under very restrictive conditions (e.g., Morgan and Winship 2007). Most notably, the set of controls has to exhaust all factors contributing to party switching (i.e., there are no unobservables affecting the move from one party to the other) and the functional form assumed (most often linear) has to condition correctly for the confounding factors.

## 3 Data and Empirical Models

### 3.1 Party Switching in the Polish Sejm

We examine party switching in a single legislative institution, the *Sejm*, which is Poland’s lower house of parliament. We collected data for three successive legislatures, covering the period from 1997 to 2007 (1997-2001: III Term; 2001-2005: IV Term; 2005-2007: V Term). Voting in the Sejm is systematically carried out by roll-call.<sup>2</sup> All votes are recorded at the individual level and made publicly available on the Sejm’s webpage at the conclusion of each parliamentary session (Kistner 2006, 20). Drawing on the complete record of floor votes has the advantage that we do not need to worry about potential selection problems, as party leaders do not have the choice to strategically select voting procedures (Carrubba et al. 2006; Roberts 2007; Hug 2010; Crisp and Driscoll 2012).

Considering only votes with strictly binary decision outcomes (*yea* or *nay*) and excluding unanimous votes, our dataset contains a total of 24693 roll-call votes.<sup>3</sup> During our period of investigation, 1074 individuals were elected to the Sejm. Any member who served in these legislatures under more than one party label, whether the switch occurred during a legislative term or between separate terms, is considered to be a party switcher. Each time an MP changed to a new party or switched to independent status, we generated a new observation and thus obtained a total of 1636 observations. Of the 1074 MPs, 298 legislators switched their party affiliation at least once and at most seven times. Not all of the party groups represented in the Sejm were equally affected by party switching. Our data shows that in the III Sejm it was mainly the two post-Solidarity parties Solidarity Electoral Action (AWS) and Freedom Union (UW) – who also happened to form the government coalition until June 2000 – which saw large fluctuations in their membership (e.g., Szczerbiak 2002; Millard 2003*b,a*). In the IV Sejm it was mostly the communist successor party Democratic Left Alliance (SLD), which for most of the term was in a government coalition with the UP (and for some time the PSL), that suffered from party defections (e.g., Szczerbiak 2007; Millard 2009). By contrast, party membership was generally much more stable in the V Sejm and some authors indeed argue that the Polish party system has now become

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<sup>2</sup>More precisely, votes are cast simultaneously by show of hands and using an electronic vote-recording device (Kistner 2006, 20).

<sup>3</sup>Other votes, such as the election of the Sejm Marshal, are omitted from our analysis.

“quasi-institutionalized” (e.g., Gwiazda 2009).

### 3.2 Empirical Analysis

As discussed above most studies wishing to assess party effects by relying on party switchers proceed in two steps. With various methods first the preferences or ideal points of MPs are estimated with separate estimates for the periods before and after the switch for MPs switching their parties. Second, the changes in preferences or ideal points (or the absence thereof) are regressed on a dummy equal to one for party switchers (and possibly some controls). In our empirical analysis we explore two ways to improve on the current practices, first by estimating ideal points based on roll-call votes while taking explicitly into account that some MPs switch their party. Second, proceeding similarly as other scholars we determine preference changes based on separate preference estimates. Instead of simply regressing these changes on a party switching dummy and some controls, we match each party switcher with a non-switcher based on various individual characteristics. Comparing the preference changes between the party switchers and their matches, we get a more accurate estimate of party effects, provided some conditions hold.

Our first aim is to explore how party switchers’ observed ideology compares both to those of all legislators who stay put and to the ideological positions of those MPs who were members of the respective “receiving” party. To do so, we rely on a hierarchical item-response theory (IRT) model as proposed by Malecki (2008), based on work by Fox and Glas (2001) (see also Fox 2007; Fox 2010, 141-192).<sup>4</sup> Proceeding in this way, the estimation of the ideal points takes into consideration the fact that party switchers may be different from the remaining MPs, something the theoretical and empirical literature explaining party switching strongly suggests. More precisely then, and taking as starting point the classic “two-parameter” item-response theory (IRT) model, we have on the one hand the probability ( $\pi_{ij}$ ) of a yes-vote ( $y_{ij}$ ) by actor  $i$  on issue  $j$  which is modeled as follows (Jackman 2009, 455):

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<sup>4</sup>Lauderdale (2010) presents also a hierarchical item-response theory model to address a slightly different problem.

$$\begin{aligned}\pi_{ij} &= Pr(y_{ij}|\theta_i, \beta_j, \alpha_j) \\ &= F(\theta_i\beta_j - \alpha_j)\end{aligned}\tag{1}$$

$\theta_i$  in this context is the estimated ideal point, while  $\beta_j$  reflects the discrimination of issue  $j$  and  $\alpha_j$  the difficulty of issue  $j$ .  $F$  is normally assumed to be a normal cumulative density function. To allow the ideal points to vary systematically as a function of party switching we assume the following:

$$\theta_i = x_i\beta_\theta + \epsilon_\theta\tag{2}$$

In our empirical work  $x_i$  reflects on the one hand simply the fact whether an MP has switched his or her party, or on the other hand the interaction between this party switching dummy with the “receiving” party.<sup>5</sup>

While this first step allows taking into account party switching when estimating the ideal points of MPs, the estimate of the party effect is still predicated on the idea that party switchers are a more or less random sample of all MPs. To address this second issue we rely on matching (e.g., Imbens and Angrist 1994; Sekhon 2009) which improves on current practices of simply controlling for observable confounding factors by allowing more functional flexibility in how these factors influence the selection into the group of party switchers.

In a second step, we thus make a first attempt to more carefully estimate the effect of party influence on the estimated ideal points of party switchers. Legislators use party defection as a tool to better reach their vote-, office- and policy-seeking objectives. However, it is likely that such considerations not only relate to the decision of whether or not to switch but also to observed patterns of voting behavior. A legislator who switched to a new party because it is ideologically more compatible presumably was a preference outlier in her old party. It

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<sup>5</sup>Ideal points were estimated based on a unidimensional model. Since several scholars located Polish parties and MPs in a two-dimensional space (e.g., Noury, Dobrowolski and Mazurkiewicz 1999; Benoit and Hayden 2004; Markowski 2006; Hix and Noury 2011), we used Poole’s (2000; 2012) optimal classification (OC) procedure to get a sense of how well a one-dimensional model fits our data. With one dimension, OC correctly classified 92.1% of the choices with an aggregate proportional reduction in error (APRE) of 0.698. The correct classification using two dimensions was 93.4% (APRE of 0.749). Hence, although the second dimension has some additional predictive power, it is relatively small.

is thus likely that she was affected by party discipline to a larger degree than the average party member. Hence, since switchers and non-switchers not only differ in terms of the “treatment” variable but potentially also in terms of confounding covariates, attempts to estimate party influence need to find ways of how to control for those confounders (e.g., Gelman and Hill 2007, 199-212).

In our second empirical analysis, we use matching techniques to reorganize the data in order to get equivalent treatment and control groups (e.g., Morgan and Winship 2007). The goal is to have two statistically identical universes of observations that are distinct only by the presence or absence of the treatment. On other relevant and observed variables, each observation in the treatment condition is matched with a similar observed case in the control condition (Robinson, McNulty and Krasno 2009). Once the matched units have been identified, they can be analyzed by estimating a simple difference in average outcomes across treatment and control groups or, as we will do, by using regression techniques to estimate the average effect of the treatment for the treated. We proceeded as follows. Each time one or several MPs switched party in the third legislative period, we identified the vote  $j$  that immediately followed the party switch(es).<sup>6</sup> There were 57 such votes. Based on vote  $j$  we created a pre-switch period (containing votes  $j-100$  to  $j-1$ ) and a post-switch period (votes  $j$  to  $j+99$ ). For both of these periods we estimated the ideal points of all MPs that were members of the Sejm at that time.<sup>7</sup> Those MPs who switched immediately before vote  $j$  are the ones that received treatment, whereas all the others are considered as control units. After estimating the ideal points of all switchers and non-switchers, the two datasets were merged, so that each Sejm member has a pre-switch and a post-switch period ideal point. This was done for all 57 pre/post-switch periods. Then, the observations of all 57 pre/post-switch periods were stacked together, leaving us with one large dataframe (first come all legislators with pre- and post-switch ideal points from the first pre/post-switch period, then all MPs that were present in the second pre/post-switch period, and so on until 57th period.) In total, there were 129 party switches in the third legislative period. Using Sekhon’s (2011) Gen-

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<sup>6</sup>Our second empirical analysis is restricted to the III Sejm. In a future version of this paper we will also consider the fourth and fifth legislative period.

<sup>7</sup>A Bayesian roll-call analysis, as described by Clinton, Jackman and Rivers (2004), was performed to estimate legislators’ ideal points. The model was estimated using Jackman’s (2011) `psc1` package. 400000 iterations were run. Of these, the first 300000 were thrown away and the remaining 100000 thinned by 100.

Match algorithm, we tried to find treatment and control groups that are as similar as possible. To this end, we matched on the following pre-treatment variables: the MP’s pre-switch ideal point, a switcher’s “sending” party (for non-switchers this is the party in which they stay put), constituency, gender, education, occupation, position on the party list (regarding the 1997 parliamentary election), votes received by the candidate in the 1997 election (in percent), votes received by the candidate’s party in the 1997 election (in percent), incumbency status, a variable indicating whether a candidate was elected from the national list, age, district magnitude, 1997 turnout rate in a candidate’s district, whether an MP is a member of MN (German Minority), and preference votes for the candidate in the 1997 election.<sup>8</sup> In addition, we also included a propensity score which is defined as the conditional probability that an MP receives treatment given the pre-treatment variables (e.g., Gelman and Hill 2007, 207-212). To estimate the propensity score we used logistic regression, where the outcome is whether or not a legislator switches party and the predictors are all the potential confounding variables mentioned above (save the variables for the “sending” party and constituency). Finally, we added an indicator variable for the pre/post-switch periods. Matching on this variable ensures that, if possible, legislators from the same pre/post-switch period are paired together. After the matched units have been selected, we estimate the average effect of party switching for the treated. Our outcome of interest is the difference between post-switch and pre-switch ideal points.

## 4 Empirical Results

### 4.1 Comparing Party Switchers with Party Stayers

The literature explaining party defection shows that there are different reasons for why legislators switch party affiliation. Therefore, switchers may differ systematically from the remaining MPs. To take full advantage of the information on party switching to estimate ideal points and the effects of switching on defectors’ ideological positions, we rely on a hierarchical IRT model.

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<sup>8</sup>With the exception of pre-switch ideal points and “sending” parties, all data is from the Project on Political Transformation and the Electoral Process in Post-Communist Europe (Millard et al. 2002).

Our starting point is a model where at the second level we only introduce a dummy variable indicating whether an MP has switched his or her party. We estimate this hierarchical model for each of the three legislative periods separately for two main reasons. As the electoral system has changed over time (e.g., Birch 2003), comparisons become potentially difficult to make if we want to assess the effect of one principal (party) compared to another (voters). In addition, estimates covering the whole period had considerable convergence problems, some of which reappear in the results presented below for the fourth legislative period.

In Figure 1 we present first the resulting estimates of the ideal points ( $\theta$ ).<sup>9</sup> For the third and fifth legislative period we find clearly distinct groups of MPs, with especially a smaller group of MPs on the right (positive values for the III Sejm, and negative values for the V Sejm) setting itself apart. In the fourth legislative period we also find potentially such a distinction, however, the convergence problem result in large credible intervals, making distinguishing the various MPs difficult or even impossible.

These results relate quite nicely to Noury, Dobrowolski and Mazurkiewicz’s (1999) and Hix and Noury’s (2011) work that is based on a NOMINATE estimation of ideal points for the 1997-1999 Sejm data. More generally, the results jibe well with studies showing the considerable party cohesion in the Polish Sejm (Zielinski 2001; Kistner 2006), as Figure 1 clearly shows groups of MPs voting largely together.

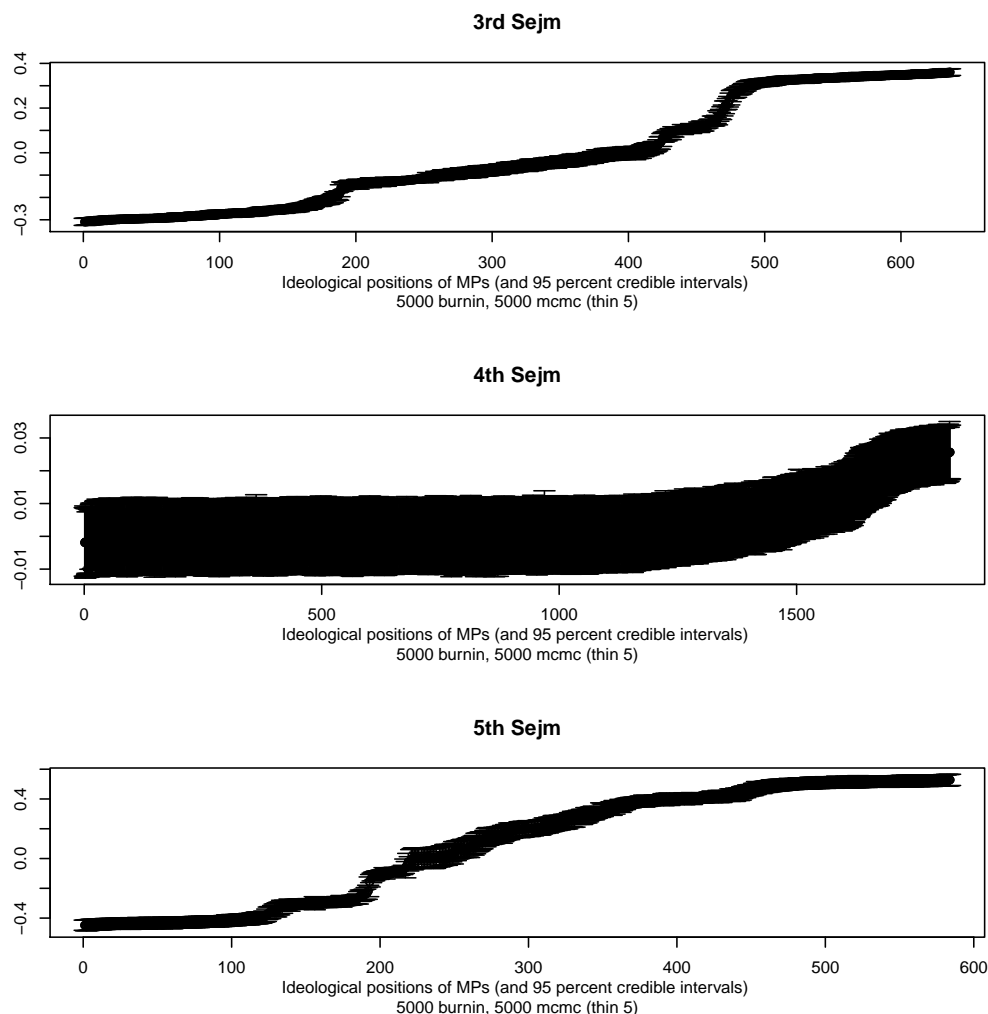
While the distribution of ideal points gives some credence to our empirical strategy, more interesting is obviously the effect of party switching as estimated in the hierarchical IRT model. Figure 2 depicts graphically the estimated effects of party switching for the three legislative periods. In two of these periods (namely for the III and V Sejm (for the latter the values were adjusted to be comparable to those of the other legislative periods)) party switchers had systematically positions more to the left than the party “stayers.” Only in the fourth legislative period are their positions more to the right, though of a much more reduced magnitude.<sup>10</sup>

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<sup>9</sup>Negative values correspond to the left and positive values to the right, with the exception of the fifth legislative period, in which the positions are inverted. This will be taken into account when comparing the effects of party switching (and will also be corrected in a future version of the present paper).

<sup>10</sup>Comparing these effects is fraught with some difficulties, as the scales of ideal points are not directly comparable. Especially considering the different distributions of ideal points depicted

Figure 1: Overall positions of MPs for the III, IV and V Sejm



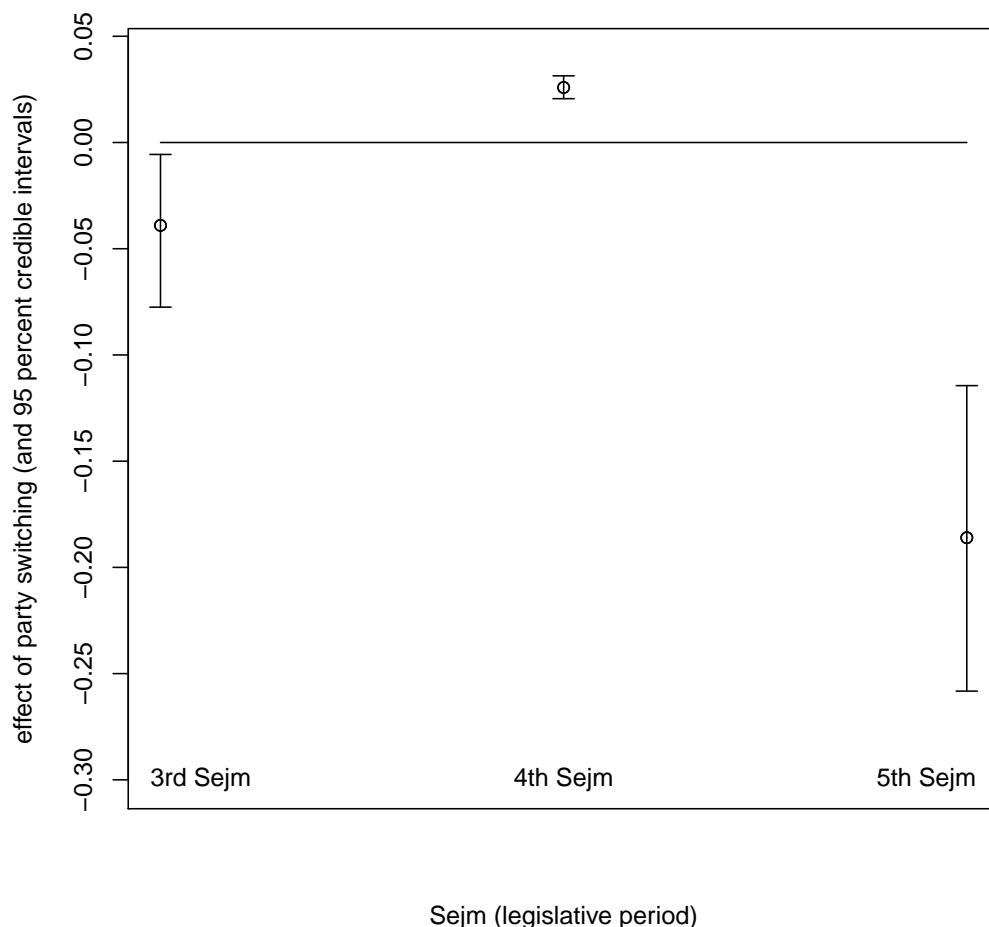
These results can be nicely put into perspective with McMenamin and Gwiazda's (2011) analysis of party switchers. More precisely these authors find that party switching was less likely for MPs of left-wing government parties during the second and fourth legislative period, but more likely during the right-wing government in the fifth legislative period. In the third legislative period, also with a right-wing government, they find no government (or ideological for that matter) effect. Consequently, our results seem to suggest that under right-wing governments,

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in Figure 1 suggests that the estimate for the fourth legislative period has to be interpreted with care.



Figure 2: Effect of party switching on ideological position



switches lead to more left-wing positions of MPs, while, tentatively, the opposite is the case under left-wing governments.

The analysis presented above has relied on the assumption that the change in ideological positions is the same for all party switchers in a legislative period. As McMnamin and Gwiazda (2011) find considerable differences depending on the ideological orientation of a government, this assumption is not too far-fetched, but a more detailed analysis focusing on the “receiving” parties appears necessary.

Consequently we estimated a second set of hierarchical IRT models for each legislative period in which the second level models the effect of an interaction

between the party switching dummy and the (categorical) “receiving” party. In Figure 3 we present the distribution of estimated ideal points with their credible intervals for each of the three legislative periods under consideration. Again the estimated distributions are quite intuitive and reflect largely the picture appearing in Figure 1. Consequently, we immediately proceed to assessing how party switching to a particular “receiving” party affects an MP’s ideal point.

Figure 3: Overall positions per party for the III, IV and V Sejm

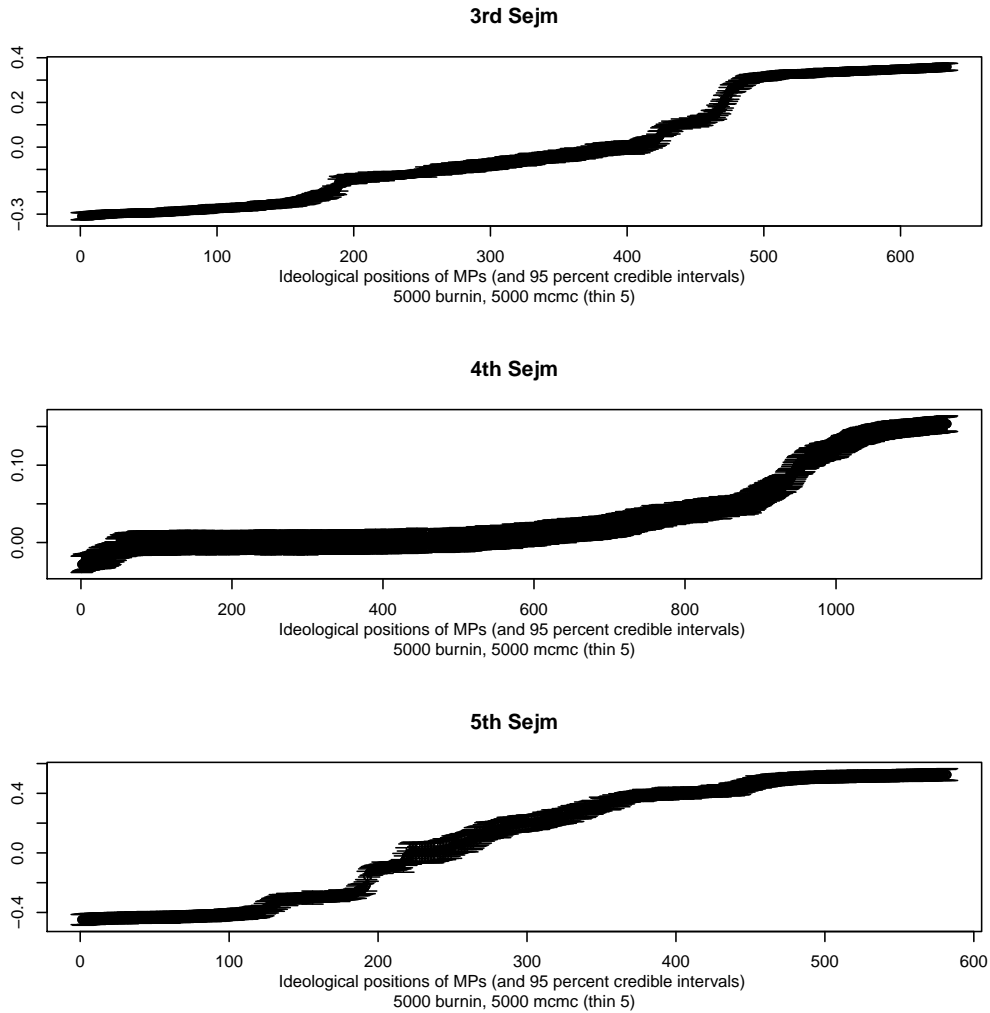
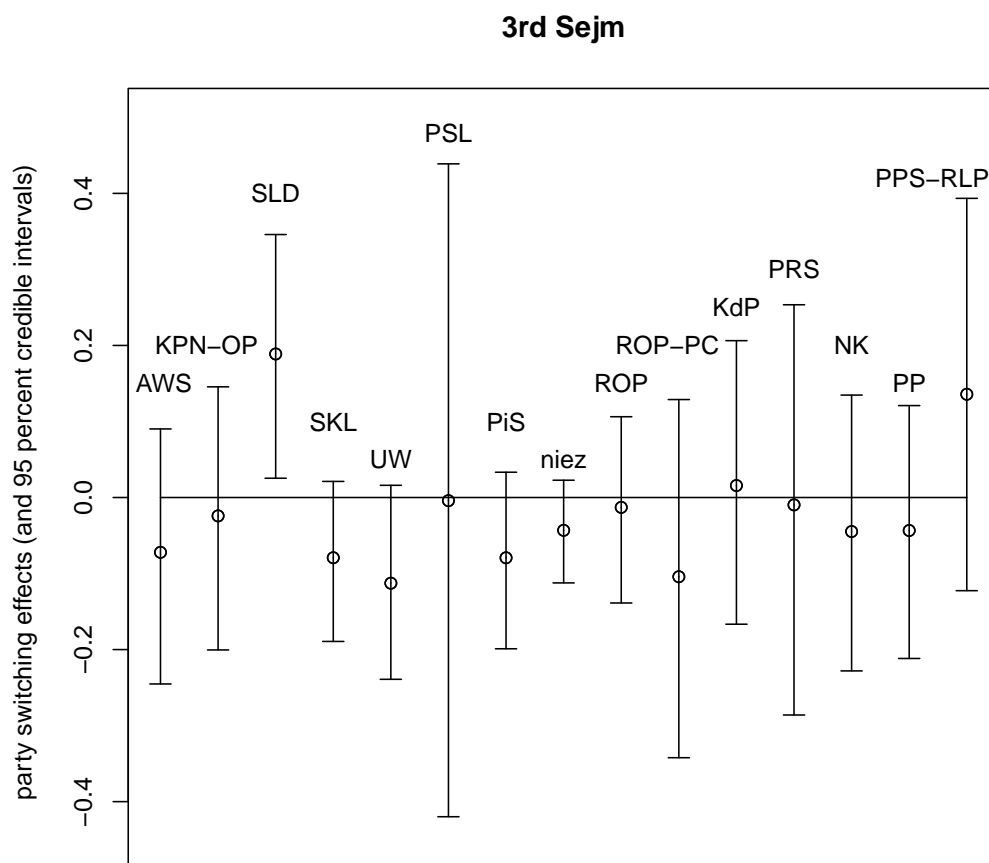


Figure 4 depicts these effects for the third legislative period. Overall, fifteen parties have received party switchers (counting also the group of independents (niez)). While most of the estimated effects are negative (as the results discussed

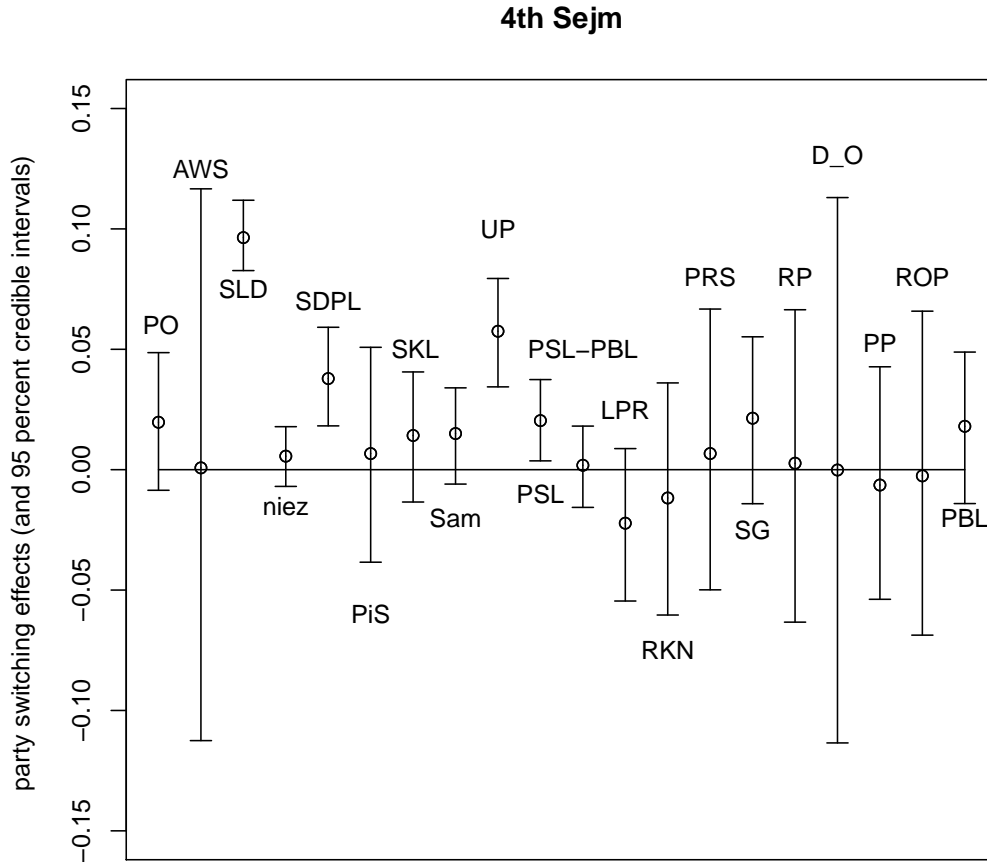
above would suggest), we find that these effects are estimated with considerable uncertainty. For only one “receiving” party do we find an effect whose credible interval does not include the value of zero, namely for the SLD party. Interesting to note is that in this legislative period a center-right coalition between the AWS and UW party was in power. Consequently, our results suggest that party switchers joining one of the opposition party (i.e., the SLD) had positions significantly to the right compared to the MPs welcoming the newcomers. At the same time MPs switching to the two governing parties were on average more to the left, even though the credible intervals include the value of zero.

Figure 4: Effect of party switching on ideological positions: III Sejm



In Figure 5 we depict the same estimated effects for the fourth legislative period. In this period a much larger number of parties received party switchers, but again, only for a few of these parties do we find significant effects. Interesting to note is that one of the significant effects appears again for the SLD, a left-wing party whose party switchers are more to the right. A similar shift to the right we also find for party switchers moving to the centre-right party PO (Civic Platform). As noted above, however, these estimated effects need to be taken with a large grain of salt, given the estimation problems mentioned above.

Figure 5: Effect of party switching on ideological positions: IV Sejm



Finally, when we turn to the fifth legislative period we find in Figure 6 a larger number of significant effects, which suggest that party switchers were often to the left of the MPs of their “receiving” party. The strongest significant effect appears for the MPs switching to the right-wing PiS, who interestingly enough are more to the left. Similar leftward shifts appear for the agrarian Samoobrona party and the National People’s Movement (RLN). A slight leftward difference also appears for the party switchers that become independents (niez). As during this period a left-wing government was in power, and McMenamin and Gwiazda (2011) note that party switching from government parties was reduced, this suggests that party switching has moved several parties to the left and thus towards the positions of the government parties.

## 4.2 The Estimated Effect of Party Switching

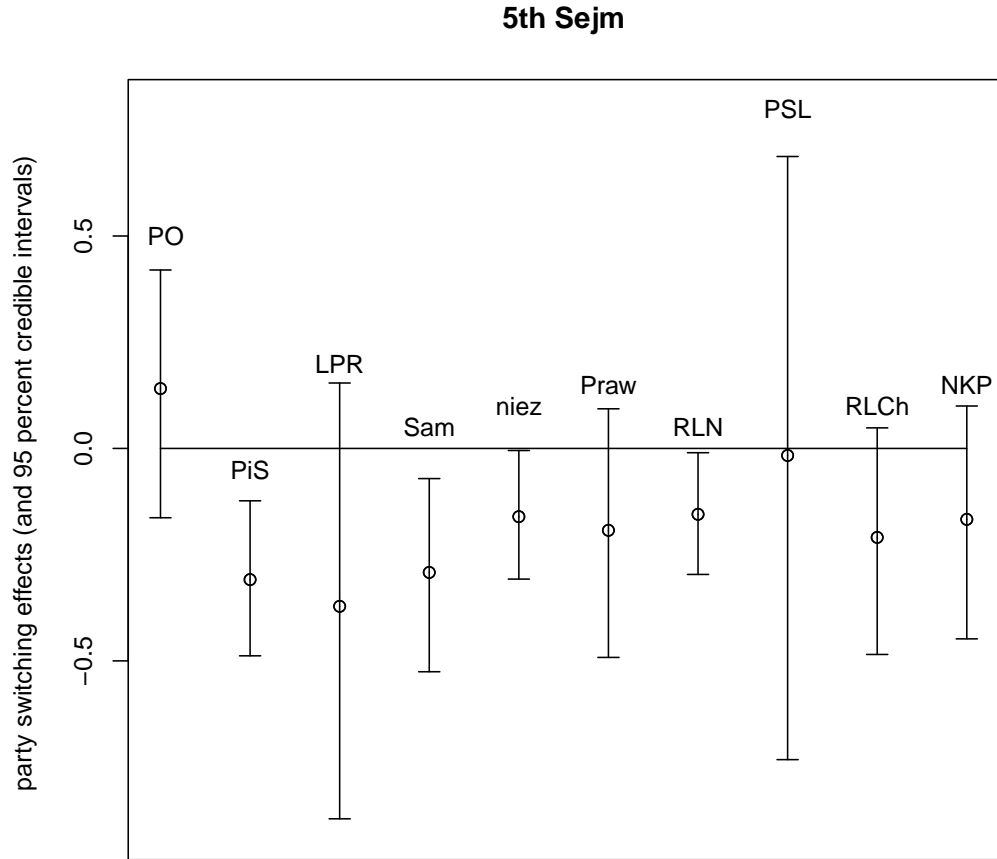
Both the literature that seeks to explain the motivations of party switchers and our empirical results presented above clearly suggest that party switching is not a random event and that legislators who change party affiliation are often systematically different from the remaining MPs. Empirical analyses which attempt to estimate party effects thus need to take account of the systematic differences that distinguish treatment (i.e., party switchers) and control (i.e., “party stayers”) groups. Therefore, we used Sekhon’s (2011) GenMatch algorithm to minimize the distribution of the above mentioned potential confounders in the treated and control groups. The balance results, which show how good covariate balance is before and after matching, are included in Appendix A.<sup>11</sup> In general, the balance is rather good for most variables. However, there is one caveat. Most “sending” parties remain quite imbalanced between treatment and control groups. Since this variable is likely to be an important confounder, our future work has to find ways how balance can be improved.

Based on the matched sample we now can estimate the average effect of party switching on the change in switchers’ ideal points (i.e., the difference between post-switch and pre-switch ideal points). Table 1 reports the average effect on the treated (ATT) for all 129 legislators who switched party during the third

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<sup>11</sup>We performed two other GenMatch runs, one that included the indicator variable for pre/post-switch periods but not pre-switch ideal points and one that included MPs’ pre-switch ideal points but no indicator variable for the pre/post-switch periods. Since the balance results do not change much, they are not reported in this paper.

Figure 6: Effect of party switching on ideological positions: V Sejm



legislative period.

The estimated average party effect is 0.017 and therefore marginal, while its standard error is rather large. To conclude that there are no party effects, however, would be premature. Since we did not match on the “receiving” parties, legislators may switch to ideologically opposite parties (relative to the “sending” party) and party effects could cancel each other out.

To hold the “receiving” party constant, we estimated the average party effect separately for three sets of party switchers: (i) MPs who switched from the AWS to the Conservative People’s Party (SKL), (ii) MPs who left the AWS to join

Table 1: Estimated effect of party switching in the III Sejm

	Average Effect for the Treated (ATT)
	Full Sample
Estimated Party Effect	0.017
AI SE	0.081
p-value	0.831
Original no. of obs.	19261
Original no. of treated obs.	129
Matched no. of obs.	129

Law and Justice (PiS), and (iii) legislators who left the AWS and subsequently became independents (niez). Each time the control group consists only of those MPs who remained in the AWS (balance results from these GenMatch runs are not reported). The average effects on the treated are shown in Table 2.

Table 2: Estimated effects of some specific parties in the III Sejm

	Average Effects for the Treated (ATT)		
	AWS to SKL	AWS to PiS	AWS to niez
Estimated Party Effect	0.612	-0.143	0.788
AI SE	0.239	0.197	0.192
p-value	0.011	0.466	0.000
Original no. of obs.	7234	7233	7242
Original no. of treated obs.	16	15	24
Matched no. of obs.	16	15	24

Our results are mixed. The party switchers who left the AWS and entered the SKL clearly shifted to the left after they changed party (note that negative ideal points indicate right and positive ideal points denote left ideological positions). Even larger was the average leftward shift of those MPs who left the AWS to become independents. By contrast, legislators who switched from the AWS to the PiS moved slightly to the right (-0.143). However, since the standard error is quite large, this effect is not significant.

Finally, to better understand whether these moves indeed can be interpreted as party effects, we compare the effects to the ideal points of both the “sending” and “receiving” parties. Measuring party ideal points as the median of its members’ ideal points, the AWS has an ideal point of -0.932, the ideological position of the SKL is -0.483 and the PiS receives a value of -0.870. Again, our findings are

inconclusive. Whereas the MPs switching from the AWS to the SKL clearly move towards their new party’s ideal point, the switchers who leave the AWS to join the PiS make a move in the opposite direction.

## 5 Conclusion

The phenomenon of party switching has been studied mostly under two angles. First, to assess what motivates the decision to change party affiliation, and second, whether any changes in ideological positions might give us information on the effect of party discipline.

In the present paper we attempted to bring to bear both literatures in studying the ideological positions of party switchers in the Polish Sejm. We were able to demonstrate that MPs who switch to a new party are often quite different from the average MP of the party that receives them. In two of the three legislative periods we consider, switching MPs are to the left of their receiving parties. When looking more closely at the different parties receiving party switchers we find considerable differences among them. These differences appear to be linked to the ideological complexion of the government, which is unsurprising as party switching appears often to be linked to who is in government (e.g., McMenamin and Gwiazda 2011).

Thus, in line with the literature that seeks to explain party switching, our empirical results suggest that party switching is not a random event and that party defectors are often systematically different from the remaining MPs. To address this issue we relied on matching to estimate party effects. Matching techniques allow more functional flexibility in how confounding covariates influence the selection into the group of party switchers than simply controlling for observable confounders. Our results that are based on the matched sample are mixed. The average effect of party switching for all MPs who changed party in the third legislative period is small and not statistically significant. When holding constant the “receiving” party, switching is found to have a significant effect for some of the MPs, which seems to suggest that party effects may vary considerably.

Further legislative periods need to be examined in order to assess more closely the extent of party discipline. Moreover, we need to find a way of how we can control for the “receiving” parties more systematically. This is what we plan to do next in our research endeavor.



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# Appendix A GenMatch Balance Results

## A.1 With Period Dummies and Pre-Switch Ideal Points

\*\*\*\*\* (V1) idp.pre \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	-0.39117	-0.39117
mean control.....	0.12532	-0.44009
std mean diff.....	-78.084	7.3946
mean raw eQQ diff.....	0.54422	0.166
med raw eQQ diff.....	0.39169	0.17287
max raw eQQ diff.....	2.3591	0.74413
mean eCDF diff.....	0.13248	0.065461
med eCDF diff.....	0.086034	0.069767
max eCDF diff.....	0.36526	0.13953
var ratio (Tr/Co).....	0.41279	0.89563
T-test p-value.....	6.6613e-15	0.40052
KS Bootstrap p-value..	< 2.22e-16	0.152
KS Naive p-value.....	2.8866e-15	0.16219
KS Statistic.....	0.36526	0.13953

\*\*\*\*\* (V2) as.factor(index)2 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.019287	0
std mean diff.....	-13.101	8.8045
mean raw eQQ diff.....	0.015504	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0057676	0.003876
med eCDF diff.....	0.0057676	0.003876
max eCDF diff.....	0.011535	0.0077519
var ratio (Tr/Co).....	0.40981	Inf
T-test p-value.....	0.14234	0.31732

\*\*\*\*\* (V3) as.factor(index)3 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.019287	0.031008
std mean diff.....	-13.101	-26.414
mean raw eQQ diff.....	0.015504	0.023256
med raw eQQ diff.....	0	0



max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0057676	0.011628
med eCDF diff.....	0.0057676	0.011628
max eCDF diff.....	0.011535	0.023256
var ratio (Tr/Co).....	0.40981	0.256
T-test p-value.....	0.14234	0.17905

\*\*\*\*\* (V4) as.factor(index)4 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.019392	0.015504
std mean diff.....	-13.22	-8.8045
mean raw eQQ diff.....	0.015504	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0058198	0.003876
med eCDF diff.....	0.0058198	0.003876
max eCDF diff.....	0.01164	0.0077519
var ratio (Tr/Co).....	0.40764	0.50394
T-test p-value.....	0.1388	0.56421

\*\*\*\*\* (V5) as.factor(index)5 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.046512	0.046512
mean control.....	0.01798	0.023256
std mean diff.....	13.496	11
mean raw eQQ diff.....	0.023256	0.023256
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.014266	0.011628
med eCDF diff.....	0.014266	0.011628
max eCDF diff.....	0.028531	0.023256
var ratio (Tr/Co).....	2.5311	1.9524
T-test p-value.....	0.12828	0.25659

\*\*\*\*\* (V6) as.factor(index)6 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.018137	0.0077519
std mean diff.....	-11.795	0

mean raw eQQ diff.....	0.015504	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0051926	0
med eCDF diff.....	0.0051926	0
max eCDF diff.....	0.010385	0
var ratio (Tr/Co).....	0.43528	1
T-test p-value.....	0.186	1

\*\*\*\*\* (V7) as.factor(index)7 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.015504	0.015504
mean control.....	0.017824	0.015504
std mean diff.....	-1.8703	0
mean raw eQQ diff.....	0.0077519	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0011598	0
med eCDF diff.....	0.0011598	0
max eCDF diff.....	0.0023197	0
var ratio (Tr/Co).....	0.87867	1
T-test p-value.....	0.83274	1

\*\*\*\*\* (V8) as.factor(index)8 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.018033	0.015504
std mean diff.....	-11.677	-8.8045
mean raw eQQ diff.....	0.015504	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0051403	0.003876
med eCDF diff.....	0.0051403	0.003876
max eCDF diff.....	0.010281	0.0077519
var ratio (Tr/Co).....	0.43776	0.50394
T-test p-value.....	0.19042	0.31732

\*\*\*\*\* (V9) as.factor(index)9 \*\*\*\*\*

Before Matching	After Matching
-----------------	----------------

mean treatment.....	0.023256	0.023256
mean control.....	0.018189	0.015504
std mean diff.....	3.3485	5.1235
mean raw eQQ diff.....	0	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	0	1
mean eCDF diff.....	0.0025332	0.003876
med eCDF diff.....	0.0025332	0.003876
max eCDF diff.....	0.0050664	0.0077519
var ratio (Tr/Co).....	1.2818	1.4882
T-test p-value.....	0.70507	0.56421

\*\*\*\*\* (V10) as.factor(index)10 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.018921	0.0077519
std mean diff.....	-12.686	0
mean raw eQQ diff.....	0.015504	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0055846	0
med eCDF diff.....	0.0055846	0
max eCDF diff.....	0.011169	0
var ratio (Tr/Co).....	0.41758	1
T-test p-value.....	0.15527	1

\*\*\*\*\* (V11) as.factor(index)11 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.018921	0.0077519
std mean diff.....	-12.686	0
mean raw eQQ diff.....	0.015504	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0055846	0
med eCDF diff.....	0.0055846	0
max eCDF diff.....	0.011169	0
var ratio (Tr/Co).....	0.41758	1
T-test p-value.....	0.15527	1

```

***** (V12) as.factor(index)12 *****
                                Before Matching                After Matching
mean treatment..... 0.0077519                                0.0077519
mean control..... 0.018921                                    0
std mean diff..... -12.686                                    8.8045

mean raw eQQ diff..... 0.015504                                0.0077519
med raw eQQ diff..... 0                                          0
max raw eQQ diff..... 1                                          1

mean eCDF diff..... 0.0055846                                0.003876
med eCDF diff..... 0.0055846                                0.003876
max eCDF diff..... 0.011169                                    0.0077519

var ratio (Tr/Co)..... 0.41758                                Inf
T-test p-value..... 0.15527                                    0.31732

***** (V13) as.factor(index)13 *****
                                Before Matching                After Matching
mean treatment..... 0.046512                                0.046512
mean control..... 0.018346                                    0.0077519
std mean diff..... 13.323                                    18.334

mean raw eQQ diff..... 0.023256                                0.03876
med raw eQQ diff..... 0                                          0
max raw eQQ diff..... 1                                          1

mean eCDF diff..... 0.014083                                0.01938
med eCDF diff..... 0.014083                                0.01938
max eCDF diff..... 0.028165                                    0.03876

var ratio (Tr/Co)..... 2.4816                                  5.7656
T-test p-value..... 0.13321                                    0.024219

***** (V14) as.factor(index)14 *****
                                Before Matching                After Matching
mean treatment..... 0.0077519                                0.0077519
mean control..... 0.017301                                    0.015504
std mean diff..... -10.845                                    -8.8045

mean raw eQQ diff..... 0.015504                                0.0077519
med raw eQQ diff..... 0                                          0
max raw eQQ diff..... 1                                          1

mean eCDF diff..... 0.0047745                                0.003876
med eCDF diff..... 0.0047745                                0.003876
max eCDF diff..... 0.0095489                                    0.0077519

```

var ratio (Tr/Co).....	0.45593	0.50394
T-test p-value.....	0.22359	0.56421

\*\*\*\*\* (V15) as.factor(index)15 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.018608	0.046512
std mean diff.....	-12.33	-44.023
mean raw eQQ diff.....	0.015504	0.03876
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0054278	0.01938
med eCDF diff.....	0.0054278	0.01938
max eCDF diff.....	0.010856	0.03876
var ratio (Tr/Co).....	0.42448	0.17344
T-test p-value.....	0.16705	0.057526

\*\*\*\*\* (V16) as.factor(index)16 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.023256	0.023256
mean control.....	0.018033	0.0077519
std mean diff.....	3.4522	10.247
mean raw eQQ diff.....	0	0.015504
med raw eQQ diff.....	0	0
max raw eQQ diff.....	0	1
mean eCDF diff.....	0.0026116	0.0077519
med eCDF diff.....	0.0026116	0.0077519
max eCDF diff.....	0.0052232	0.015504
var ratio (Tr/Co).....	1.2927	2.9531
T-test p-value.....	0.69639	0.31732

\*\*\*\*\* (V17) as.factor(index)17 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.046512	0.046512
mean control.....	0.01798	0.069767
std mean diff.....	13.496	-11
mean raw eQQ diff.....	0.023256	0.023256
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.014266	0.011628

med eCDF diff.....	0.014266	0.011628
max eCDF diff.....	0.028531	0.023256
var ratio (Tr/Co).....	2.5311	0.68333
T-test p-value.....	0.12828	0.25659

\*\*\*\*\* (V18) as.factor(index)18 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.018608	0.015504
std mean diff.....	-12.33	-8.8045
mean raw eQQ diff.....	0.015504	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0054278	0.003876
med eCDF diff.....	0.0054278	0.003876
max eCDF diff.....	0.010856	0.0077519
var ratio (Tr/Co).....	0.42448	0.50394
T-test p-value.....	0.16705	0.56421

\*\*\*\*\* (V19) as.factor(index)19 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.023256	0.023256
mean control.....	0.018398	0.023256
std mean diff.....	3.2103	0
mean raw eQQ diff.....	0	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	0	0
mean eCDF diff.....	0.0024287	0
med eCDF diff.....	0.0024287	0
max eCDF diff.....	0.0048573	0
var ratio (Tr/Co).....	1.2675	1
T-test p-value.....	0.71671	1

\*\*\*\*\* (V20) as.factor(index)20 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.018398	0.015504
std mean diff.....	-12.092	-8.8045
mean raw eQQ diff.....	0.015504	0.0077519
med raw eQQ diff.....	0	0

max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0053233	0.003876
med eCDF diff.....	0.0053233	0.003876
max eCDF diff.....	0.010647	0.0077519
var ratio (Tr/Co).....	0.42921	0.50394
T-test p-value.....	0.17528	0.31732

\*\*\*\*\* (V21) as.factor(index)21 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.015504	0.015504
mean control.....	0.01798	0.0077519
std mean diff.....	-1.9967	6.2502
mean raw eQQ diff.....	0.0077519	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0012382	0.003876
med eCDF diff.....	0.0012382	0.003876
max eCDF diff.....	0.0024765	0.0077519
var ratio (Tr/Co).....	0.87115	1.9844
T-test p-value.....	0.82163	0.56421

\*\*\*\*\* (V22) as.factor(index)22 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.018451	0
std mean diff.....	-12.152	8.8045
mean raw eQQ diff.....	0.015504	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0053494	0.003876
med eCDF diff.....	0.0053494	0.003876
max eCDF diff.....	0.010699	0.0077519
var ratio (Tr/Co).....	0.42802	Inf
T-test p-value.....	0.1732	0.31732

\*\*\*\*\* (V23) as.factor(index)23 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.018242	0.023256
std mean diff.....	-11.914	-17.609

mean raw eQQ diff.....	0.015504	0.015504
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0052449	0.0077519
med eCDF diff.....	0.0052449	0.0077519
max eCDF diff.....	0.01049	0.015504
var ratio (Tr/Co).....	0.43283	0.33862
T-test p-value.....	0.18165	0.31732

\*\*\*\*\* (V24) as.factor(index)24 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.023256	0.023256
mean control.....	0.017405	0.015504
std mean diff.....	3.8667	5.1235
mean raw eQQ diff.....	0	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	0	1
mean eCDF diff.....	0.0029252	0.003876
med eCDF diff.....	0.0029252	0.003876
max eCDF diff.....	0.0058504	0.0077519
var ratio (Tr/Co).....	1.3385	1.4882
T-test p-value.....	0.66207	0.56421

\*\*\*\*\* (V25) as.factor(index)25 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.017405	0.0077519
std mean diff.....	-10.964	0
mean raw eQQ diff.....	0.015504	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0048267	0
med eCDF diff.....	0.0048267	0
max eCDF diff.....	0.0096535	0
var ratio (Tr/Co).....	0.45324	1
T-test p-value.....	0.21861	1

\*\*\*\*\* (V26) as.factor(index)26 \*\*\*\*\*

	Before Matching	After Matching
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mean treatment.....	0	0
mean control.....	0.01798	0.0077519
std mean diff.....	-Inf	-Inf
mean raw eQQ diff.....	0.023256	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0089902	0.003876
med eCDF diff.....	0.0089902	0.003876
max eCDF diff.....	0.01798	0.0077519
var ratio (Tr/Co).....	0	0
T-test p-value.....	< 2.22e-16	0.31732

\*\*\*\*\* (V27) as.factor(index)27 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.023256	0.023256
mean control.....	0.016987	0.015504
std mean diff.....	4.1431	5.1235
mean raw eQQ diff.....	0	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	0	1
mean eCDF diff.....	0.0031343	0.003876
med eCDF diff.....	0.0031343	0.003876
max eCDF diff.....	0.0062686	0.0077519
var ratio (Tr/Co).....	1.3708	1.4882
T-test p-value.....	0.63957	0.56421

\*\*\*\*\* (V28) as.factor(index)28 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.018033	0
std mean diff.....	-11.677	8.8045
mean raw eQQ diff.....	0.015504	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0051403	0.003876
med eCDF diff.....	0.0051403	0.003876
max eCDF diff.....	0.010281	0.0077519
var ratio (Tr/Co).....	0.43776	Inf
T-test p-value.....	0.19042	0.31732

```

**** (V29) as.factor(index)29 ****
                Before Matching                After Matching
mean treatment..... 0.0077519                0.0077519
mean control..... 0.018033                0.015504
std mean diff..... -11.677                -8.8045

mean raw eQQ diff..... 0.015504                0.0077519
med raw eQQ diff..... 0                0
max raw eQQ diff..... 1                1

mean eCDF diff..... 0.0051403                0.003876
med eCDF diff..... 0.0051403                0.003876
max eCDF diff..... 0.010281                0.0077519

var ratio (Tr/Co)..... 0.43776                0.50394
T-test p-value..... 0.19042                0.31732

**** (V30) as.factor(index)30 ****
                Before Matching                After Matching
mean treatment..... 0.0077519                0.0077519
mean control..... 0.017249                0
std mean diff..... -10.786                8.8045

mean raw eQQ diff..... 0.015504                0.0077519
med raw eQQ diff..... 0                0
max raw eQQ diff..... 1                1

mean eCDF diff..... 0.0047483                0.003876
med eCDF diff..... 0.0047483                0.003876
max eCDF diff..... 0.0094967                0.0077519

var ratio (Tr/Co)..... 0.45729                Inf
T-test p-value..... 0.22611                0.31732

**** (V31) as.factor(index)31 ****
                Before Matching                After Matching
mean treatment..... 0.0077519                0.0077519
mean control..... 0.017614                0.023256
std mean diff..... -11.202                -17.609

mean raw eQQ diff..... 0.015504                0.015504
med raw eQQ diff..... 0                0
max raw eQQ diff..... 1                1

mean eCDF diff..... 0.0049313                0.0077519
med eCDF diff..... 0.0049313                0.0077519
max eCDF diff..... 0.0098625                0.015504

```

var ratio (Tr/Co).....	0.44796	0.33862
T-test p-value.....	0.20889	0.1565

\*\*\*\*\* (V32) as.factor(index)32 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.015315	0
std mean diff.....	-8.5896	8.8045
mean raw eQQ diff.....	0.0077519	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0037814	0.003876
med eCDF diff.....	0.0037814	0.003876
max eCDF diff.....	0.0075627	0.0077519
var ratio (Tr/Co).....	0.51402	Inf
T-test p-value.....	0.3342	0.31732

\*\*\*\*\* (V33) as.factor(index)33 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.015576	0.015504
std mean diff.....	-8.8864	-8.8045
mean raw eQQ diff.....	0.0077519	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.003912	0.003876
med eCDF diff.....	0.003912	0.003876
max eCDF diff.....	0.0078241	0.0077519
var ratio (Tr/Co).....	0.50553	0.50394
T-test p-value.....	0.31788	0.31732

\*\*\*\*\* (V34) as.factor(index)34 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.015419	0.0077519
std mean diff.....	-8.7083	0
mean raw eQQ diff.....	0.0077519	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0038336	0

med eCDF diff.....	0.0038336	0
max eCDF diff.....	0.0076673	0
var ratio (Tr/Co).....	0.51059	1
T-test p-value.....	0.32761	1

\*\*\*\*\* (V35) as.factor(index)35 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.023256	0.023256
mean control.....	0.017196	0.0077519
std mean diff.....	4.0049	10.247
mean raw eQQ diff.....	0	0.015504
med raw eQQ diff.....	0	0
max raw eQQ diff.....	0	1
mean eCDF diff.....	0.0030297	0.0077519
med eCDF diff.....	0.0030297	0.0077519
max eCDF diff.....	0.0060595	0.015504
var ratio (Tr/Co).....	1.3545	2.9531
T-test p-value.....	0.65078	0.31732

\*\*\*\*\* (V36) as.factor(index)36 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.016203	0.0077519
std mean diff.....	-9.5988	0
mean raw eQQ diff.....	0.015504	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0042256	0
med eCDF diff.....	0.0042256	0
max eCDF diff.....	0.0084513	0
var ratio (Tr/Co).....	0.48627	1
T-test p-value.....	0.28091	1

\*\*\*\*\* (V37) as.factor(index)37 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.018137	0.031008
std mean diff.....	-11.795	-26.414
mean raw eQQ diff.....	0.015504	0.023256
med raw eQQ diff.....	0	0

max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0051926	0.011628
med eCDF diff.....	0.0051926	0.011628
max eCDF diff.....	0.010385	0.023256
var ratio (Tr/Co).....	0.43528	0.256
T-test p-value.....	0.186	0.17905

\*\*\*\*\* (V38) as.factor(index)38 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.03876	0.03876
mean control.....	0.018137	0.062016
std mean diff.....	10.643	-12.002
mean raw eQQ diff.....	0.015504	0.023256
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.010311	0.011628
med eCDF diff.....	0.010311	0.011628
max eCDF diff.....	0.020623	0.023256
var ratio (Tr/Co).....	2.1084	0.6405
T-test p-value.....	0.22971	0.25659

\*\*\*\*\* (V39) as.factor(index)39 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.054264	0.054264
mean control.....	0.017249	0.015504
std mean diff.....	16.276	17.043
mean raw eQQ diff.....	0.031008	0.03876
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.018507	0.01938
med eCDF diff.....	0.018507	0.01938
max eCDF diff.....	0.037015	0.03876
var ratio (Tr/Co).....	3.051	3.3622
T-test p-value.....	0.06711	0.024219

\*\*\*\*\* (V40) as.factor(index)40 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.017614	0.031008
std mean diff.....	-11.202	-26.414

mean raw eQQ diff.....	0.015504	0.023256
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0049313	0.011628
med eCDF diff.....	0.0049313	0.011628
max eCDF diff.....	0.0098625	0.023256
var ratio (Tr/Co).....	0.44796	0.256
T-test p-value.....	0.20889	0.17905

\*\*\*\*\* (V41) as.factor(index)41 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.015504	0.015504
mean control.....	0.016099	0.031008
std mean diff.....	-0.47958	-12.5
mean raw eQQ diff.....	0.0077519	0.015504
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0002974	0.0077519
med eCDF diff.....	0.0002974	0.0077519
max eCDF diff.....	0.00059481	0.015504
var ratio (Tr/Co).....	0.97111	0.508
T-test p-value.....	0.95679	0.41453

\*\*\*\*\* (V42) as.factor(index)42 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.093023	0.093023
mean control.....	0.01798	0.046512
std mean diff.....	25.735	15.951
mean raw eQQ diff.....	0.069767	0.046512
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.037521	0.023256
med eCDF diff.....	0.037521	0.023256
max eCDF diff.....	0.075043	0.046512
var ratio (Tr/Co).....	4.8153	1.9024
T-test p-value.....	0.0041245	0.10774

\*\*\*\*\* (V43) as.factor(index)43 \*\*\*\*\*

	Before Matching	After Matching
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mean treatment.....	0.0077519	0.0077519
mean control.....	0.017928	0.0077519
std mean diff.....	-11.558	0
mean raw eQQ diff.....	0.015504	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0050881	0
med eCDF diff.....	0.0050881	0
max eCDF diff.....	0.010176	0
var ratio (Tr/Co).....	0.44026	1
T-test p-value.....	0.19492	1

\*\*\*\*\* (V44) as.factor(index)44 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.017928	0.0077519
std mean diff.....	-11.558	0
mean raw eQQ diff.....	0.015504	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0050881	0
med eCDF diff.....	0.0050881	0
max eCDF diff.....	0.010176	0
var ratio (Tr/Co).....	0.44026	1
T-test p-value.....	0.19492	1

\*\*\*\*\* (V45) as.factor(index)45 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.017928	0
std mean diff.....	-11.558	8.8045
mean raw eQQ diff.....	0.015504	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0050881	0.003876
med eCDF diff.....	0.0050881	0.003876
max eCDF diff.....	0.010176	0.0077519
var ratio (Tr/Co).....	0.44026	Inf
T-test p-value.....	0.19492	0.31732

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**** (V46) as.factor(index)46 ****
               Before Matching               After Matching
mean treatment..... 0.046512              0.046512
mean control..... 0.017614              0.0077519
std mean diff..... 13.669                18.334

mean raw eQQ diff..... 0.023256          0.03876
med  raw eQQ diff..... 0                0
max  raw eQQ diff..... 1                1

mean eCDF diff..... 0.014449             0.01938
med  eCDF diff..... 0.014449             0.01938
max  eCDF diff..... 0.028897             0.03876

var ratio (Tr/Co)..... 2.5828             5.7656
T-test p-value..... 0.12349              0.024219

**** (V47) as.factor(index)47 ****
               Before Matching               After Matching
mean treatment..... 0.0077519            0.0077519
mean control..... 0.017928              0.023256
std mean diff..... -11.558              -17.609

mean raw eQQ diff..... 0.015504          0.015504
med  raw eQQ diff..... 0                0
max  raw eQQ diff..... 1                1

mean eCDF diff..... 0.0050881            0.0077519
med  eCDF diff..... 0.0050881            0.0077519
max  eCDF diff..... 0.010176            0.015504

var ratio (Tr/Co)..... 0.44026            0.33862
T-test p-value..... 0.19492              0.1565

**** (V48) as.factor(index)48 ****
               Before Matching               After Matching
mean treatment..... 0                    0
mean control..... 0.016726              0.023256
std mean diff..... -Inf                -Inf

mean raw eQQ diff..... 0.023256          0.023256
med  raw eQQ diff..... 0                0
max  raw eQQ diff..... 1                1

mean eCDF diff..... 0.008363             0.011628
med  eCDF diff..... 0.008363             0.011628
max  eCDF diff..... 0.016726            0.023256

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var ratio (Tr/Co).....	0	0
T-test p-value.....	< 2.22e-16	0.082074

\*\*\*\*\* (V49) as.factor(index)49 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.016151	0.023256
std mean diff.....	-9.5394	-17.609
mean raw eQQ diff.....	0.015504	0.015504
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0041995	0.0077519
med eCDF diff.....	0.0041995	0.0077519
max eCDF diff.....	0.008399	0.015504
var ratio (Tr/Co).....	0.48782	0.33862
T-test p-value.....	0.28387	0.31732

\*\*\*\*\* (V50) as.factor(index)50 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.015504	0.015504
mean control.....	0.016099	0.03876
std mean diff.....	-0.47958	-18.751
mean raw eQQ diff.....	0.0077519	0.023256
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0002974	0.011628
med eCDF diff.....	0.0002974	0.011628
max eCDF diff.....	0.00059481	0.023256
var ratio (Tr/Co).....	0.97111	0.40968
T-test p-value.....	0.95679	0.25659

\*\*\*\*\* (V51) as.factor(index)51 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.015471	0.023256
std mean diff.....	-8.7677	-17.609
mean raw eQQ diff.....	0.0077519	0.015504
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0038598	0.0077519

med eCDF diff.....	0.0038598	0.0077519
max eCDF diff.....	0.0077195	0.015504
var ratio (Tr/Co).....	0.50889	0.33862
T-test p-value.....	0.32434	0.31732

\*\*\*\*\* (V52) as.factor(index)52 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.015628	0.046512
std mean diff.....	-8.9458	-44.023
mean raw eQQ diff.....	0.0077519	0.03876
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0039382	0.01938
med eCDF diff.....	0.0039382	0.01938
max eCDF diff.....	0.0078763	0.03876
var ratio (Tr/Co).....	0.50387	0.17344
T-test p-value.....	0.31468	0.024219

\*\*\*\*\* (V53) as.factor(index)53 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.13178	0.13178
mean control.....	0.016778	0.023256
std mean diff.....	33.867	31.96
mean raw eQQ diff.....	0.10853	0.10853
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.057502	0.054264
med eCDF diff.....	0.057502	0.054264
max eCDF diff.....	0.115	0.10853
var ratio (Tr/Co).....	6.9895	5.037
T-test p-value.....	0.00018909	0.00012236

\*\*\*\*\* (V54) as.factor(index)54 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.017144	0.015504
std mean diff.....	-10.667	-8.8045
mean raw eQQ diff.....	0.015504	0.0077519
med raw eQQ diff.....	0	0

max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0046961	0.003876
med eCDF diff.....	0.0046961	0.003876
max eCDF diff.....	0.0093921	0.0077519
var ratio (Tr/Co).....	0.46003	0.50394
T-test p-value.....	0.23121	0.56421
***** (V55) as.factor(index)55 *****		
	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.015942	0.015504
std mean diff.....	-9.302	-8.8045
mean raw eQQ diff.....	0.015504	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.004095	0.003876
med eCDF diff.....	0.004095	0.003876
max eCDF diff.....	0.0081899	0.0077519
var ratio (Tr/Co).....	0.49411	0.50394
T-test p-value.....	0.29593	0.31732
***** (V56) as.factor(index)56 *****		
	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.016255	0
std mean diff.....	-9.6582	8.8045
mean raw eQQ diff.....	0.015504	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0042518	0.003876
med eCDF diff.....	0.0042518	0.003876
max eCDF diff.....	0.0085036	0.0077519
var ratio (Tr/Co).....	0.48474	Inf
T-test p-value.....	0.27797	0.31732
***** (V57) as.factor(index)57 *****		
	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.014217	0.023256
std mean diff.....	-Inf	-Inf

mean raw eQQ diff.....	0.015504	0.023256
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0071085	0.011628
med eCDF diff.....	0.0071085	0.011628
max eCDF diff.....	0.014217	0.023256
var ratio (Tr/Co).....	0	0
T-test p-value.....	< 2.22e-16	0.082074

\*\*\*\*\* (V58) as.factor(out.party)Alternatyw \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0	0
std mean diff.....	8.8045	8.8045
mean raw eQQ diff.....	0.0077519	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.003876	0.003876
med eCDF diff.....	0.003876	0.003876
max eCDF diff.....	0.0077519	0.0077519
var ratio (Tr/Co).....	Inf	Inf
T-test p-value.....	0.3192	0.31732

\*\*\*\*\* (V59) as.factor(out.party)KPN-OP \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.023256	0.023256
mean control.....	0	0
std mean diff.....	15.37	15.37
mean raw eQQ diff.....	0.023256	0.023256
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.011628	0.011628
med eCDF diff.....	0.011628	0.011628
max eCDF diff.....	0.023256	0.023256
var ratio (Tr/Co).....	Inf	Inf
T-test p-value.....	0.083255	0.082074

\*\*\*\*\* (V60) as.factor(out.party)KdP \*\*\*\*\*

	Before Matching	After Matching
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mean treatment.....	0.046512	0.046512
mean control.....	0	0
std mean diff.....	22.001	22.001
mean raw eQQ diff.....	0.046512	0.046512
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.023256	0.023256
med eCDF diff.....	0.023256	0.023256
max eCDF diff.....	0.046512	0.046512
var ratio (Tr/Co).....	Inf	Inf
T-test p-value.....	0.013729	0.013373

\*\*\*\*\* (V61) as.factor(out.party)MN \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.015504	0.015504
mean control.....	0	0
std mean diff.....	12.5	12.5
mean raw eQQ diff.....	0.015504	0.015504
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0077519	0.0077519
med eCDF diff.....	0.0077519	0.0077519
max eCDF diff.....	0.015504	0.015504
var ratio (Tr/Co).....	Inf	Inf
T-test p-value.....	0.15811	0.1565

\*\*\*\*\* (V62) as.factor(out.party)NK \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.054264	0.054264
mean control.....	0	0
std mean diff.....	23.86	23.86
mean raw eQQ diff.....	0.054264	0.054264
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.027132	0.027132
med eCDF diff.....	0.027132	0.027132
max eCDF diff.....	0.054264	0.054264
var ratio (Tr/Co).....	Inf	Inf
T-test p-value.....	0.0076502	0.0074231

\*\*\*\*\* (V63) as.factor(out.party)PP \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0	0
std mean diff.....	8.8045	8.8045
mean raw eQQ diff.....	0.0077519	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.003876	0.003876
med eCDF diff.....	0.003876	0.003876
max eCDF diff.....	0.0077519	0.0077519
var ratio (Tr/Co).....	Inf	Inf
T-test p-value.....	0.3192	0.31732

\*\*\*\*\* (V64) as.factor(out.party)PPS-RLP \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.023256	0.023256
mean control.....	0	0
std mean diff.....	15.37	15.37
mean raw eQQ diff.....	0.023256	0.023256
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.011628	0.011628
med eCDF diff.....	0.011628	0.011628
max eCDF diff.....	0.023256	0.023256
var ratio (Tr/Co).....	Inf	Inf
T-test p-value.....	0.083255	0.082074

\*\*\*\*\* (V65) as.factor(out.party)PRS \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.023256	0.023256
mean control.....	0	0
std mean diff.....	15.37	15.37
mean raw eQQ diff.....	0.023256	0.023256
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.011628	0.011628
med eCDF diff.....	0.011628	0.011628
max eCDF diff.....	0.023256	0.023256

var ratio (Tr/Co).....	Inf	Inf
T-test p-value.....	0.083255	0.082074

\*\*\*\*\* (V66) as.factor(out.party)PSL \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.067374	0.085271
std mean diff.....	-67.718	-88.045
mean raw eQQ diff.....	0.062016	0.077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.029811	0.03876
med eCDF diff.....	0.029811	0.03876
max eCDF diff.....	0.059622	0.077519
var ratio (Tr/Co).....	0.12336	0.098613
T-test p-value.....	6.6498e-12	0.0034004

\*\*\*\*\* (V67) as.factor(out.party)ROP \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.054264	0.054264
mean control.....	0	0
std mean diff.....	23.86	23.86
mean raw eQQ diff.....	0.054264	0.054264
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.027132	0.027132
med eCDF diff.....	0.027132	0.027132
max eCDF diff.....	0.054264	0.054264
var ratio (Tr/Co).....	Inf	Inf
T-test p-value.....	0.0076502	0.0074231

\*\*\*\*\* (V68) as.factor(out.party)ROP-PC \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.015504	0.015504
mean control.....	0	0
std mean diff.....	12.5	12.5
mean raw eQQ diff.....	0.015504	0.015504
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0077519	0.0077519

med eCDF diff.....	0.0077519	0.0077519
max eCDF diff.....	0.015504	0.015504
var ratio (Tr/Co).....	Inf	Inf
T-test p-value.....	0.15811	0.1565

\*\*\*\*\* (V69) as.factor(out.party)SLD \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.03876	0.03876
mean control.....	0.4321	0.15504
std mean diff.....	-202.99	-60.008
mean raw eQQ diff.....	0.39535	0.11628
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.19667	0.05814
med eCDF diff.....	0.19667	0.05814
max eCDF diff.....	0.39334	0.11628
var ratio (Tr/Co).....	0.15301	0.2844
T-test p-value.....	< 2.22e-16	0.00084552

\*\*\*\*\* (V70) as.factor(out.party)UW \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.085271	0.085271
mean control.....	0.12325	0.11628
std mean diff.....	-13.545	-11.059
mean raw eQQ diff.....	0.03876	0.031008
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.018989	0.015504
med eCDF diff.....	0.018989	0.015504
max eCDF diff.....	0.037978	0.031008
var ratio (Tr/Co).....	0.72743	0.75906
T-test p-value.....	0.1281	0.39403

\*\*\*\*\* (V71) as.factor(out.party)niez. \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.11628	0.11628
mean control.....	0	0
std mean diff.....	36.133	36.133
mean raw eQQ diff.....	0.11628	0.11628
med raw eQQ diff.....	0	0



max raw eQQ diff.....	1	1
mean eCDF diff.....	0.05814	0.05814
med eCDF diff.....	0.05814	0.05814
max eCDF diff.....	0.11628	0.11628
var ratio (Tr/Co).....	Inf	Inf
T-test p-value.....	7.1848e-05	6.7584e-05

\*\*\*\*\* (V72) as.factor(const)2 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.069767	0.069767
mean control.....	0.018764	0.015504
std mean diff.....	19.943	21.218
mean raw eQQ diff.....	0.046512	0.054264
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.025502	0.027132
med eCDF diff.....	0.025502	0.027132
max eCDF diff.....	0.051003	0.054264
var ratio (Tr/Co).....	3.5522	4.252
T-test p-value.....	0.025319	0.033598

\*\*\*\*\* (V73) as.factor(const)3 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.010506	0
std mean diff.....	-Inf	0
mean raw eQQ diff.....	0.015504	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.005253	0
med eCDF diff.....	0.005253	0
max eCDF diff.....	0.010506	0
var ratio (Tr/Co).....	0	NaN
T-test p-value.....	< 2.22e-16	1

\*\*\*\*\* (V74) as.factor(const)4 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.031008	0.031008
mean control.....	0.016465	0
std mean diff.....	8.3575	17.819

mean raw eQQ diff.....	0.0077519	0.031008
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0072716	0.015504
med eCDF diff.....	0.0072716	0.015504
max eCDF diff.....	0.014543	0.031008
var ratio (Tr/Co).....	1.8699	Inf
T-test p-value.....	0.34515	0.044249

\*\*\*\*\* (V75) as.factor(const)5 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.025559	0.03876
std mean diff.....	-20.225	-35.218
mean raw eQQ diff.....	0.023256	0.031008
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0089037	0.015504
med eCDF diff.....	0.0089037	0.015504
max eCDF diff.....	0.017807	0.031008
var ratio (Tr/Co).....	0.31123	0.20645
T-test p-value.....	0.024643	0.044249

\*\*\*\*\* (V76) as.factor(const)6 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.015504	0.015504
mean control.....	0.024514	0.069767
std mean diff.....	-7.2646	-43.751
mean raw eQQ diff.....	0.015504	0.054264
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.004505	0.027132
med eCDF diff.....	0.004505	0.027132
max eCDF diff.....	0.00901	0.054264
var ratio (Tr/Co).....	0.64325	0.23519
T-test p-value.....	0.41325	0.018585

\*\*\*\*\* (V77) as.factor(const)7 \*\*\*\*\*

	Before Matching	After Matching
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mean treatment.....	0	0
mean control.....	0.010924	0
std mean diff.....	-Inf	0
mean raw eQQ diff.....	0.015504	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0054621	0
med eCDF diff.....	0.0054621	0
max eCDF diff.....	0.010924	0
var ratio (Tr/Co).....	0	NaN
T-test p-value.....	< 2.22e-16	1

\*\*\*\*\* (V78) as.factor(const)8 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.010872	0
std mean diff.....	-3.5435	8.8045
mean raw eQQ diff.....	0.0077519	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0015599	0.003876
med eCDF diff.....	0.0015599	0.003876
max eCDF diff.....	0.0031199	0.0077519
var ratio (Tr/Co).....	0.72083	Inf
T-test p-value.....	0.68937	0.31732

\*\*\*\*\* (V79) as.factor(const)9 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.022632	0.046512
std mean diff.....	-16.901	-44.023
mean raw eQQ diff.....	0.015504	0.03876
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0074402	0.01938
med eCDF diff.....	0.0074402	0.01938
max eCDF diff.....	0.01488	0.03876
var ratio (Tr/Co).....	0.35043	0.17344
T-test p-value.....	0.059419	0.057526

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***** (V80) as.factor(const)10 *****
                                Before Matching                After Matching
mean treatment.....          0.015504                0.015504
mean control.....           0.0086766                  0
std mean diff.....           5.5047                  12.5

mean raw eQQ diff.....          0                0.015504
med  raw eQQ diff.....          0                  0
max  raw eQQ diff.....          0                  1

mean eCDF diff.....           0.0034137            0.0077519
med  eCDF diff.....           0.0034137            0.0077519
max  eCDF diff.....           0.0068273            0.015504

var ratio (Tr/Co).....          1.7883                Inf
T-test p-value.....           0.53371                0.1565

***** (V81) as.factor(const)11 *****
                                Before Matching                After Matching
mean treatment.....          0.03876                0.03876
mean control.....           0.037372            0.062016
std mean diff.....           0.71617             -12.002

mean raw eQQ diff.....          0                0.023256
med  raw eQQ diff.....          0                  0
max  raw eQQ diff.....          0                  1

mean eCDF diff.....           0.00069387            0.011628
med  eCDF diff.....           0.00069387            0.011628
max  eCDF diff.....           0.0013877            0.023256

var ratio (Tr/Co).....          1.0437                0.6405
T-test p-value.....           0.9355                0.25659

***** (V82) as.factor(const)12 *****
                                Before Matching                After Matching
mean treatment.....          0.0077519            0.0077519
mean control.....           0.01521              0.015504
std mean diff.....          -8.4709             -8.8045

mean raw eQQ diff.....          0.0077519            0.0077519
med  raw eQQ diff.....          0                  0
max  raw eQQ diff.....          1                  1

mean eCDF diff.....           0.0037291            0.003876
med  eCDF diff.....           0.0037291            0.003876
max  eCDF diff.....           0.0074582            0.0077519

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var ratio (Tr/Co).....	0.5175	0.50394
T-test p-value.....	0.34088	0.56421

\*\*\*\*\* (V83) as.factor(const)13 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.011447	0
std mean diff.....	-4.1965	8.8045
mean raw eQQ diff.....	0.0077519	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0018474	0.003876
med eCDF diff.....	0.0018474	0.003876
max eCDF diff.....	0.0036949	0.0077519
var ratio (Tr/Co).....	0.68502	Inf
T-test p-value.....	0.63607	0.31732

\*\*\*\*\* (V84) as.factor(const)14 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.031008	0.031008
mean control.....	0.017405	0.054264
std mean diff.....	7.8168	-13.364
mean raw eQQ diff.....	0.0077519	0.023256
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0068012	0.011628
med eCDF diff.....	0.0068012	0.011628
max eCDF diff.....	0.013602	0.023256
var ratio (Tr/Co).....	1.7705	0.58548
T-test p-value.....	0.3772	0.36589

\*\*\*\*\* (V85) as.factor(const)15 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.031008	0.031008
mean control.....	0.025925	0.031008
std mean diff.....	2.9208	0
mean raw eQQ diff.....	0	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	0	0
mean eCDF diff.....	0.0025413	0

med eCDF diff.....	0.0025413	0
max eCDF diff.....	0.0050826	0
var ratio (Tr/Co).....	1.199	1
T-test p-value.....	0.74132	1

\*\*\*\*\* (V86) as.factor(const)16 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.046512	0.046512
mean control.....	0.032041	0.031008
std mean diff.....	6.845	7.3335
mean raw eQQ diff.....	0.0077519	0.015504
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0072355	0.0077519
med eCDF diff.....	0.0072355	0.0077519
max eCDF diff.....	0.014471	0.015504
var ratio (Tr/Co).....	1.441	1.476
T-test p-value.....	0.43939	0.47993

\*\*\*\*\* (V87) as.factor(const)17 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.046512	0.046512
mean control.....	0.02995	0.046512
std mean diff.....	7.8339	0
mean raw eQQ diff.....	0.015504	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0082809	0
med eCDF diff.....	0.0082809	0
max eCDF diff.....	0.016562	0
var ratio (Tr/Co).....	1.5383	1
T-test p-value.....	0.37629	1

\*\*\*\*\* (V88) as.factor(const)18 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.03876	0.03876
mean control.....	0.027023	0.015504
std mean diff.....	6.057	12.002
mean raw eQQ diff.....	0.0077519	0.023256
med raw eQQ diff.....	0	0

max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0058685	0.011628
med eCDF diff.....	0.0058685	0.011628
max eCDF diff.....	0.011737	0.023256
var ratio (Tr/Co).....	1.428	2.4409
T-test p-value.....	0.49374	0.25659

\*\*\*\*\* (V89) as.factor(const)19 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.016203	0.023256
std mean diff.....	-9.5988	-17.609
mean raw eQQ diff.....	0.015504	0.015504
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0042256	0.0077519
med eCDF diff.....	0.0042256	0.0077519
max eCDF diff.....	0.0084513	0.015504
var ratio (Tr/Co).....	0.48627	0.33862
T-test p-value.....	0.28091	0.1565

\*\*\*\*\* (V90) as.factor(const)20 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.013381	0.015504
std mean diff.....	-Inf	-Inf
mean raw eQQ diff.....	0.015504	0.015504
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0066904	0.0077519
med eCDF diff.....	0.0066904	0.0077519
max eCDF diff.....	0.013381	0.015504
var ratio (Tr/Co).....	0	0
T-test p-value.....	< 2.22e-16	0.1565

\*\*\*\*\* (V91) as.factor(const)21 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.015504	0.015504
mean control.....	0.040247	0.015504
std mean diff.....	-19.95	0

mean raw eQQ diff.....	0.031008	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.012371	0
med eCDF diff.....	0.012371	0
max eCDF diff.....	0.024743	0
var ratio (Tr/Co).....	0.39822	1
T-test p-value.....	0.026303	1

\*\*\*\*\* (V92) as.factor(const)22 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.031008	0.031008
mean control.....	0.010036	0
std mean diff.....	12.052	17.819
mean raw eQQ diff.....	0.015504	0.031008
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.010486	0.015504
med eCDF diff.....	0.010486	0.015504
max eCDF diff.....	0.020972	0.031008
var ratio (Tr/Co).....	3.0478	Inf
T-test p-value.....	0.17391	0.044249

\*\*\*\*\* (V93) as.factor(const)23 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.011081	0
std mean diff.....	-3.781	8.8045
mean raw eQQ diff.....	0.0077519	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0016645	0.003876
med eCDF diff.....	0.0016645	0.003876
max eCDF diff.....	0.003329	0.0077519
var ratio (Tr/Co).....	0.70738	Inf
T-test p-value.....	0.66979	0.31732

\*\*\*\*\* (V94) as.factor(const)24 \*\*\*\*\*

	Before Matching	After Matching
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mean treatment.....	0.0077519	0.0077519
mean control.....	0.008572	0
std mean diff.....	-0.93144	8.8045
mean raw eQQ diff.....	0.0077519	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.00041004	0.003876
med eCDF diff.....	0.00041004	0.003876
max eCDF diff.....	0.00082009	0.0077519
var ratio (Tr/Co).....	0.9121	Inf
T-test p-value.....	0.91622	0.31732

\*\*\*\*\* (V95) as.factor(const)25 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.015504	0.015504
mean control.....	0.0242	0.062016
std mean diff.....	-7.0117	-37.501
mean raw eQQ diff.....	0.015504	0.046512
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0043482	0.023256
med eCDF diff.....	0.0043482	0.023256
max eCDF diff.....	0.0086964	0.046512
var ratio (Tr/Co).....	0.65137	0.2624
T-test p-value.....	0.42963	0.056523

\*\*\*\*\* (V96) as.factor(const)26 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.0084675	0.0077519
std mean diff.....	-0.81271	0
mean raw eQQ diff.....	0.0077519	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.00035778	0
med eCDF diff.....	0.00035778	0
max eCDF diff.....	0.00071555	0
var ratio (Tr/Co).....	0.92326	1
T-test p-value.....	0.92686	1

```

**** (V97) as.factor(const)27 ****
                                Before Matching                After Matching
mean treatment..... 0.031008                                0.031008
mean control..... 0.02812                                  0
std mean diff..... 1.6592                                17.819

mean raw eQQ diff..... 0                                0.031008
med raw eQQ diff..... 0                                0
max raw eQQ diff..... 0                                1

mean eCDF diff..... 0.0014437                            0.015504
med eCDF diff..... 0.0014437                            0.015504
max eCDF diff..... 0.0028873                            0.031008

var ratio (Tr/Co)..... 1.1079                            Inf
T-test p-value..... 0.85126                            0.044249

**** (V98) as.factor(const)28 ****
                                Before Matching                After Matching
mean treatment..... 0.0077519                            0.0077519
mean control..... 0.020123                                0
std mean diff..... -14.051                                8.8045

mean raw eQQ diff..... 0.015504                            0.0077519
med raw eQQ diff..... 0                                0
max raw eQQ diff..... 1                                1

mean eCDF diff..... 0.0061857                            0.003876
med eCDF diff..... 0.0061857                            0.003876
max eCDF diff..... 0.012371                            0.0077519

var ratio (Tr/Co)..... 0.39311                            Inf
T-test p-value..... 0.11594                            0.31732

**** (V99) as.factor(const)29 ****
                                Before Matching                After Matching
mean treatment..... 0.023256                                0.023256
mean control..... 0.020698                                0.015504
std mean diff..... 1.6903                                5.1235

mean raw eQQ diff..... 0                                0.0077519
med raw eQQ diff..... 0                                0
max raw eQQ diff..... 0                                1

mean eCDF diff..... 0.0012788                            0.003876
med eCDF diff..... 0.0012788                            0.003876
max eCDF diff..... 0.0025575                            0.0077519

```

var ratio (Tr/Co).....	1.1293	1.4882
T-test p-value.....	0.8485	0.65523

\*\*\*\*\* (V100) as.factor(const)30 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.046512	0.046512
mean control.....	0.014792	0.0077519
std mean diff.....	15.004	18.334
mean raw eQQ diff.....	0.031008	0.03876
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.01586	0.01938
med eCDF diff.....	0.01586	0.01938
max eCDF diff.....	0.03172	0.03876
var ratio (Tr/Co).....	3.0668	5.7656
T-test p-value.....	0.091129	0.057526

\*\*\*\*\* (V101) as.factor(const)31 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.010558	0
std mean diff.....	-3.1873	8.8045
mean raw eQQ diff.....	0.0077519	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0014031	0.003876
med eCDF diff.....	0.0014031	0.003876
max eCDF diff.....	0.0028063	0.0077519
var ratio (Tr/Co).....	0.742	Inf
T-test p-value.....	0.71915	0.31732

\*\*\*\*\* (V102) as.factor(const)32 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.011551	0.0077519
std mean diff.....	-4.3153	0
mean raw eQQ diff.....	0.0077519	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0018997	0

med eCDF diff.....	0.0018997	0
max eCDF diff.....	0.0037994	0
var ratio (Tr/Co).....	0.67889	1
T-test p-value.....	0.62658	1

\*\*\*\*\* (V103) as.factor(const)33 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.031008	0.031008
mean control.....	0.014478	0.023256
std mean diff.....	9.4989	4.4548
mean raw eQQ diff.....	0.015504	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0082647	0.003876
med eCDF diff.....	0.0082647	0.003876
max eCDF diff.....	0.016529	0.0077519
var ratio (Tr/Co).....	2.1221	1.3228
T-test p-value.....	0.28342	0.70593

\*\*\*\*\* (V104) as.factor(const)34 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.01291	0.0077519
std mean diff.....	-Inf	-Inf
mean raw eQQ diff.....	0.015504	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0064552	0.003876
med eCDF diff.....	0.0064552	0.003876
max eCDF diff.....	0.01291	0.0077519
var ratio (Tr/Co).....	0	0
T-test p-value.....	< 2.22e-16	0.31732

\*\*\*\*\* (V105) as.factor(const)35 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.044115	0.031008
std mean diff.....	-41.3	-26.414
mean raw eQQ diff.....	0.03876	0.023256
med raw eQQ diff.....	0	0

max raw eQQ diff.....	1	1
mean eCDF diff.....	0.018181	0.011628
med eCDF diff.....	0.018181	0.011628
max eCDF diff.....	0.036363	0.023256
var ratio (Tr/Co).....	0.18382	0.256
T-test p-value.....	9.2143e-06	0.17905

\*\*\*\*\* (V106) as.factor(const)36 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.023256	0.023256
mean control.....	0.010088	0
std mean diff.....	8.7031	15.37
mean raw eQQ diff.....	0.0077519	0.023256
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.006584	0.011628
med eCDF diff.....	0.006584	0.011628
max eCDF diff.....	0.013168	0.023256
var ratio (Tr/Co).....	2.2923	Inf
T-test p-value.....	0.32548	0.082074

\*\*\*\*\* (V107) as.factor(const)37 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.046512	0.046512
mean control.....	0.020855	0.093023
std mean diff.....	12.136	-22.001
mean raw eQQ diff.....	0.023256	0.046512
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.012828	0.023256
med eCDF diff.....	0.012828	0.023256
max eCDF diff.....	0.025657	0.046512
var ratio (Tr/Co).....	2.1886	0.52564
T-test p-value.....	0.17113	0.03269

\*\*\*\*\* (V108) as.factor(const)38 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.025873	0.023256
std mean diff.....	-20.581	-17.609

mean raw eQQ diff.....	0.023256	0.015504
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0090605	0.0077519
med eCDF diff.....	0.0090605	0.0077519
max eCDF diff.....	0.018121	0.015504
var ratio (Tr/Co).....	0.30756	0.33862
T-test p-value.....	0.022284	0.1565

\*\*\*\*\* (V109) as.factor(const)39 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.015504	0.015504
mean control.....	0.019392	0.023256
std mean diff.....	-3.1346	-6.2502
mean raw eQQ diff.....	0.0077519	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0019439	0.003876
med eCDF diff.....	0.0019439	0.003876
max eCDF diff.....	0.0038877	0.0077519
var ratio (Tr/Co).....	0.80891	0.67196
T-test p-value.....	0.72351	0.65523

\*\*\*\*\* (V110) as.factor(const)40 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.011708	0
std mean diff.....	-Inf	0
mean raw eQQ diff.....	0.015504	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0058541	0
med eCDF diff.....	0.0058541	0
max eCDF diff.....	0.011708	0
var ratio (Tr/Co).....	0	NaN
T-test p-value.....	< 2.22e-16	1

\*\*\*\*\* (V111) as.factor(const)41 \*\*\*\*\*

Before Matching	After Matching
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mean treatment.....	0.0077519	0.0077519
mean control.....	0.0086243	0.031008
std mean diff.....	-0.99081	-26.414
mean raw eQQ diff.....	0.0077519	0.023256
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.00043618	0.011628
med eCDF diff.....	0.00043618	0.011628
max eCDF diff.....	0.00087236	0.023256
var ratio (Tr/Co).....	0.90662	0.256
T-test p-value.....	0.9109	0.17905

\*\*\*\*\* (V112) as.factor(const)42 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.017196	0.0077519
std mean diff.....	-Inf	-Inf
mean raw eQQ diff.....	0.023256	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0085982	0.003876
med eCDF diff.....	0.0085982	0.003876
max eCDF diff.....	0.017196	0.0077519
var ratio (Tr/Co).....	0	0
T-test p-value.....	< 2.22e-16	0.31732

\*\*\*\*\* (V113) as.factor(const)43 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.015504	0.015504
mean control.....	0.0085198	0
std mean diff.....	5.6311	12.5
mean raw eQQ diff.....	0	0.015504
med raw eQQ diff.....	0	0
max raw eQQ diff.....	0	1
mean eCDF diff.....	0.0034921	0.0077519
med eCDF diff.....	0.0034921	0.0077519
max eCDF diff.....	0.0069841	0.015504
var ratio (Tr/Co).....	1.821	Inf
T-test p-value.....	0.52435	0.1565

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***** (V114) as.factor(const)44 *****
                                Before Matching                After Matching
mean treatment..... 0.015504                                0.015504
mean control..... 0.024984                                0.0077519
std mean diff..... -7.6438                                6.2502

mean raw eQQ diff..... 0.015504                            0.0077519
med raw eQQ diff..... 0                                0
max raw eQQ diff..... 1                                1

mean eCDF diff..... 0.0047402                            0.003876
med eCDF diff..... 0.0047402                            0.003876
max eCDF diff..... 0.0094804                            0.0077519

var ratio (Tr/Co)..... 0.63144                            1.9844
T-test p-value..... 0.3894                                0.56421

***** (V115) as.factor(const)45 *****
                                Before Matching                After Matching
mean treatment..... 0.015504                                0.015504
mean control..... 0.016674                                0.0077519
std mean diff..... -0.94315                                6.2502

mean raw eQQ diff..... 0.0077519                            0.0077519
med raw eQQ diff..... 0                                0
max raw eQQ diff..... 1                                1

mean eCDF diff..... 0.00058488                            0.003876
med eCDF diff..... 0.00058488                            0.003876
max eCDF diff..... 0.0011698                            0.0077519

var ratio (Tr/Co)..... 0.93817                            1.9844
T-test p-value..... 0.91516                                0.56421

***** (V116) as.factor(const)46 *****
                                Before Matching                After Matching
mean treatment..... 0.031008                                0.031008
mean control..... 0.014112                                0.0077519
std mean diff..... 9.7091                                13.364

mean raw eQQ diff..... 0.015504                            0.023256
med raw eQQ diff..... 0                                0
max raw eQQ diff..... 1                                1

mean eCDF diff..... 0.0084476                            0.011628
med eCDF diff..... 0.0084476                            0.011628
max eCDF diff..... 0.016895                            0.023256

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var ratio (Tr/Co).....	2.1763	3.9062
T-test p-value.....	0.27293	0.17905

\*\*\*\*\* (V117) as.factor(const)47 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.031008	0.031008
mean control.....	0.014217	0.0077519
std mean diff.....	9.649	13.364
mean raw eQQ diff.....	0.015504	0.023256
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0083954	0.011628
med eCDF diff.....	0.0083954	0.011628
max eCDF diff.....	0.016791	0.023256
var ratio (Tr/Co).....	2.1605	3.9062
T-test p-value.....	0.2759	0.17905

\*\*\*\*\* (V118) as.factor(const)48 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.025768	0.015504
std mean diff.....	-Inf	-Inf
mean raw eQQ diff.....	0.031008	0.015504
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.012884	0.0077519
med eCDF diff.....	0.012884	0.0077519
max eCDF diff.....	0.025768	0.015504
var ratio (Tr/Co).....	0	0
T-test p-value.....	< 2.22e-16	0.1565

\*\*\*\*\* (V119) as.factor(const)49 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.009147	0
std mean diff.....	-Inf	0
mean raw eQQ diff.....	0.015504	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0045735	0

med eCDF diff.....	0.0045735	0
max eCDF diff.....	0.009147	0
var ratio (Tr/Co).....	0	NaN
T-test p-value.....	< 2.22e-16	1

\*\*\*\*\* (V120) as.factor(const)50 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.015504	0.015504
mean control.....	0.038104	0.046512
std mean diff.....	-18.222	-25.001
mean raw eQQ diff.....	0.023256	0.031008
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0113	0.015504
med eCDF diff.....	0.0113	0.015504
max eCDF diff.....	0.0226	0.031008
var ratio (Tr/Co).....	0.41968	0.34417
T-test p-value.....	0.04203	0.044249

\*\*\*\*\* (V121) as.factor(const)51 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.0093038	0
std mean diff.....	-1.7626	8.8045
mean raw eQQ diff.....	0.0077519	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.00077592	0.003876
med eCDF diff.....	0.00077592	0.003876
max eCDF diff.....	0.0015518	0.0077519
var ratio (Tr/Co).....	0.84098	Inf
T-test p-value.....	0.84227	0.31732

\*\*\*\*\* (V122) as.factor(const)52 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.01866	0.023256
std mean diff.....	-12.389	-17.609
mean raw eQQ diff.....	0.015504	0.015504
med raw eQQ diff.....	0	0

max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0054539	0.0077519
med eCDF diff.....	0.0054539	0.0077519
max eCDF diff.....	0.010908	0.015504
var ratio (Tr/Co).....	0.42331	0.33862
T-test p-value.....	0.16504	0.31732

\*\*\*\*\* (V123) gender \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.10078	0.10078
mean control.....	0.14729	0.085271
std mean diff.....	-15.393	5.1303
mean raw eQQ diff.....	0.046512	0.015504
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.023259	0.0077519
med eCDF diff.....	0.023259	0.0077519
max eCDF diff.....	0.046517	0.015504
var ratio (Tr/Co).....	0.72711	1.1618
T-test p-value.....	0.08418	0.31732

\*\*\*\*\* (V124) as.factor(educ)1 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.37209	0.37209
mean control.....	0.40069	0.37209
std mean diff.....	-5.8933	0
mean raw eQQ diff.....	0.031008	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.014298	0
med eCDF diff.....	0.014298	0
max eCDF diff.....	0.028597	0
var ratio (Tr/Co).....	0.98049	1
T-test p-value.....	0.50592	1

\*\*\*\*\* (V125) as.factor(educ)2 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.0059063	0.0077519
std mean diff.....	2.0962	0

mean raw eQQ diff.....	0	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	0	0
mean eCDF diff.....	0.0009228	0
med eCDF diff.....	0.0009228	0
max eCDF diff.....	0.0018456	0
var ratio (Tr/Co).....	1.3202	1
T-test p-value.....	0.81266	1

\*\*\*\*\* (V126) as.factor(educ)3 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.0081016	0
std mean diff.....	-Inf	0
mean raw eQQ diff.....	0.015504	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0040508	0
med eCDF diff.....	0.0040508	0
max eCDF diff.....	0.0081016	0
var ratio (Tr/Co).....	0	NaN
T-test p-value.....	< 2.22e-16	1

\*\*\*\*\* (V127) as.factor(educ)4 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.014269	0
std mean diff.....	-Inf	0
mean raw eQQ diff.....	0.015504	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0071346	0
med eCDF diff.....	0.0071346	0
max eCDF diff.....	0.014269	0
var ratio (Tr/Co).....	0	NaN
T-test p-value.....	< 2.22e-16	1

\*\*\*\*\* (V128) as.factor(occup)1 \*\*\*\*\*

	Before Matching	After Matching
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mean treatment.....	0.03876	0.03876
mean control.....	0.084989	0.015504
std mean diff.....	-23.857	12.002
mean raw eQQ diff.....	0.046512	0.023256
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.023114	0.011628
med eCDF diff.....	0.023114	0.011628
max eCDF diff.....	0.046229	0.023256
var ratio (Tr/Co).....	0.48282	2.4409
T-test p-value.....	0.0080504	0.082074

\*\*\*\*\* (V129) as.factor(occup)2 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.069767	0.069767
mean control.....	0.034027	0.054264
std mean diff.....	13.975	6.0622
mean raw eQQ diff.....	0.031008	0.015504
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.01787	0.0077519
med eCDF diff.....	0.01787	0.0077519
max eCDF diff.....	0.035741	0.015504
var ratio (Tr/Co).....	1.9898	1.2646
T-test p-value.....	0.11552	0.47993

\*\*\*\*\* (V130) as.factor(occup)3 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.71318	0.71318
mean control.....	0.63851	0.73643
std mean diff.....	16.445	-5.122
mean raw eQQ diff.....	0.077519	0.023256
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.037333	0.011628
med eCDF diff.....	0.037333	0.011628
max eCDF diff.....	0.074667	0.023256
var ratio (Tr/Co).....	0.89311	1.0539
T-test p-value.....	0.065036	0.46727

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***** (V131) as.factor(occup)4 *****
                                Before Matching                After Matching
mean treatment.....           0.046512                0.046512
mean control.....            0.063088                0.054264
std mean diff.....           -7.8408                 -3.6668

mean raw eQQ diff.....       0.023256                0.0077519
med  raw eQQ diff.....         0                      0
max  raw eQQ diff.....         1                      1

mean eCDF diff.....          0.0082882                0.003876
med  eCDF diff.....          0.0082882                0.003876
max  eCDF diff.....          0.016576                0.0077519

var ratio (Tr/Co).....        0.75612                 0.86417
T-test p-value.....          0.37693                 0.70593

***** (V132) as.factor(occup)5 *****
                                Before Matching                After Matching
mean treatment.....           0.10078                 0.10078
mean control.....            0.10846                 0.093023
std mean diff.....           -2.5419                 2.5651

mean raw eQQ diff.....       0.0077519                0.0077519
med  raw eQQ diff.....         0                      0
max  raw eQQ diff.....         1                      1

mean eCDF diff.....          0.0038409                0.003876
med  eCDF diff.....          0.0038409                0.003876
max  eCDF diff.....          0.0076818                0.0077519

var ratio (Tr/Co).....        0.94445                 1.0741
T-test p-value.....          0.77405                 0.31732

***** (V133) as.factor(occup)7 *****
                                Before Matching                After Matching
mean treatment.....           0                      0
mean control.....            0.002718                 0
std mean diff.....           -Inf                   0

mean raw eQQ diff.....       0.0077519                0
med  raw eQQ diff.....         0                      0
max  raw eQQ diff.....         1                      0

mean eCDF diff.....          0.001359                 0
med  eCDF diff.....          0.001359                 0
max  eCDF diff.....          0.002718                 0

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var ratio (Tr/Co).....	0	NaN
T-test p-value.....	5.3646e-13	1

\*\*\*\*\* (V134) as.factor(occup)8 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.002927	0.0077519
std mean diff.....	5.48	0
mean raw eQQ diff.....	0	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	0	0
mean eCDF diff.....	0.0024125	0
med eCDF diff.....	0.0024125	0
max eCDF diff.....	0.0048249	0
var ratio (Tr/Co).....	2.656	1
T-test p-value.....	0.53529	1

\*\*\*\*\* (V135) as.factor(occup)10 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.011813	0
std mean diff.....	-Inf	0
mean raw eQQ diff.....	0.015504	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0059063	0
med eCDF diff.....	0.0059063	0
max eCDF diff.....	0.011813	0
var ratio (Tr/Co).....	0	NaN
T-test p-value.....	< 2.22e-16	1

\*\*\*\*\* (V136) as.factor(listplac)2 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.15504	0.15504
mean control.....	0.16945	0.085271
std mean diff.....	-3.9674	19.201
mean raw eQQ diff.....	0.015504	0.069767
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0072078	0.034884

med eCDF diff.....	0.0072078	0.034884
max eCDF diff.....	0.014416	0.069767
var ratio (Tr/Co).....	0.93803	1.6795
T-test p-value.....	0.65418	0.048278

\*\*\*\*\* (V137) as.factor(listplac)3 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.12403	0.12403
mean control.....	0.12879	0.17054
std mean diff.....	-1.438	-14.056
mean raw eQQ diff.....	0.0077519	0.046512
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0023792	0.023256
med eCDF diff.....	0.0023792	0.023256
max eCDF diff.....	0.0047585	0.046512
var ratio (Tr/Co).....	0.97583	0.76805
T-test p-value.....	0.87096	0.25659

\*\*\*\*\* (V138) as.factor(listplac)4 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.062016	0.062016
mean control.....	0.059481	0.069767
std mean diff.....	1.0466	-3.2016
mean raw eQQ diff.....	0	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	0	1
mean eCDF diff.....	0.001267	0.003876
med eCDF diff.....	0.001267	0.003876
max eCDF diff.....	0.002534	0.0077519
var ratio (Tr/Co).....	1.0479	0.8963
T-test p-value.....	0.90586	0.76343

\*\*\*\*\* (V139) as.factor(listplac)5 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.11628	0.11628
mean control.....	0.067217	0.15504
std mean diff.....	15.246	-12.044
mean raw eQQ diff.....	0.046512	0.03876
med raw eQQ diff.....	0	0



max raw eQQ diff.....	1	1
mean eCDF diff.....	0.024531	0.01938
med eCDF diff.....	0.024531	0.01938
max eCDF diff.....	0.049062	0.03876
var ratio (Tr/Co).....	1.6516	0.7844
T-test p-value.....	0.086372	0.3533

\*\*\*\*\* (V140) as.factor(listplac)6 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.046512	0.046512
mean control.....	0.04171	0.069767
std mean diff.....	2.2711	-11
mean raw eQQ diff.....	0	0.023256
med raw eQQ diff.....	0	0
max raw eQQ diff.....	0	1
mean eCDF diff.....	0.0024007	0.011628
med eCDF diff.....	0.0024007	0.011628
max eCDF diff.....	0.0048014	0.023256
var ratio (Tr/Co).....	1.1181	0.68333
T-test p-value.....	0.79745	0.43894

\*\*\*\*\* (V141) as.factor(listplac)7 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.031008	0.031008
mean control.....	0.034236	0.03876
std mean diff.....	-1.8551	-4.4548
mean raw eQQ diff.....	0.0077519	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.001614	0.003876
med eCDF diff.....	0.001614	0.003876
max eCDF diff.....	0.0032281	0.0077519
var ratio (Tr/Co).....	0.91579	0.80645
T-test p-value.....	0.83406	0.73932

\*\*\*\*\* (V142) as.factor(listplac)8 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.046512	0.046512
mean control.....	0.019967	0.03876
std mean diff.....	12.556	3.6668

mean raw eQQ diff.....	0.023256	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.013273	0.003876
med eCDF diff.....	0.013273	0.003876
max eCDF diff.....	0.026545	0.0077519
var ratio (Tr/Co).....	2.284	1.1903
T-test p-value.....	0.15687	0.73932

\*\*\*\*\* (V143) as.factor(listplac)9 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.019183	0
std mean diff.....	-Inf	0
mean raw eQQ diff.....	0.023256	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0095913	0
med eCDF diff.....	0.0095913	0
max eCDF diff.....	0.019183	0
var ratio (Tr/Co).....	0	NaN
T-test p-value.....	< 2.22e-16	1

\*\*\*\*\* (V144) as.factor(listplac)10 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.031008	0.031008
mean control.....	0.014112	0.015504
std mean diff.....	9.7091	8.9095
mean raw eQQ diff.....	0.015504	0.015504
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0084476	0.0077519
med eCDF diff.....	0.0084476	0.0077519
max eCDF diff.....	0.016895	0.015504
var ratio (Tr/Co).....	2.1763	1.9685
T-test p-value.....	0.27293	0.31732

\*\*\*\*\* (V145) as.factor(listplac)11 \*\*\*\*\*

	Before Matching	After Matching
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mean treatment.....	0.0077519	0.0077519
mean control.....	0.014008	0.0077519
std mean diff.....	-7.1055	0
mean raw eQQ diff.....	0.0077519	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.003128	0
med eCDF diff.....	0.003128	0
max eCDF diff.....	0.006256	0
var ratio (Tr/Co).....	0.56123	1
T-test p-value.....	0.42388	1

\*\*\*\*\* (V146) as.factor(listplac)12 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.017249	0.015504
std mean diff.....	-10.786	-8.8045
mean raw eQQ diff.....	0.015504	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0047483	0.003876
med eCDF diff.....	0.0047483	0.003876
max eCDF diff.....	0.0094967	0.0077519
var ratio (Tr/Co).....	0.45729	0.50394
T-test p-value.....	0.22611	0.56421

\*\*\*\*\* (V147) as.factor(listplac)13 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.015504	0.015504
mean control.....	0.0055927	0.0077519
std mean diff.....	7.9911	6.2502
mean raw eQQ diff.....	0.0077519	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0049556	0.003876
med eCDF diff.....	0.0049556	0.003876
max eCDF diff.....	0.0099112	0.0077519
var ratio (Tr/Co).....	2.7658	1.9844
T-test p-value.....	0.36636	0.56421

\*\*\*\*\* (V148) as.factor(listplac)14 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.023256	0.023256
mean control.....	0.013851	0.015504
std mean diff.....	6.2158	5.1235
mean raw eQQ diff.....	0.0077519	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0047023	0.003876
med eCDF diff.....	0.0047023	0.003876
max eCDF diff.....	0.0094047	0.0077519
var ratio (Tr/Co).....	1.6759	1.4882
T-test p-value.....	0.48235	0.56421

\*\*\*\*\* (V149) as.factor(listplac)15 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.054264	0.054264
mean control.....	0.0059063	0.031008
std mean diff.....	21.263	10.226
mean raw eQQ diff.....	0.046512	0.023256
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.024179	0.011628
med eCDF diff.....	0.024179	0.011628
max eCDF diff.....	0.048357	0.023256
var ratio (Tr/Co).....	8.8083	1.708
T-test p-value.....	0.017185	0.25659

\*\*\*\*\* (V150) as.factor(listplac)16 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.03876	0.03876
mean control.....	0.0049132	0.046512
std mean diff.....	17.467	-4.0005
mean raw eQQ diff.....	0.031008	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.016923	0.003876
med eCDF diff.....	0.016923	0.003876
max eCDF diff.....	0.033846	0.0077519

var ratio (Tr/Co).....	7.6796	0.84011
T-test p-value.....	0.049505	0.65523

\*\*\*\*\* (V151) as.factor(listplac)17 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.0029793	0.0077519
std mean diff.....	-Inf	-Inf
mean raw eQQ diff.....	0.0077519	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0014897	0.003876
med eCDF diff.....	0.0014897	0.003876
max eCDF diff.....	0.0029793	0.0077519
var ratio (Tr/Co).....	0	0
T-test p-value.....	4.1744e-14	0.31732

\*\*\*\*\* (V152) as.factor(listplac)18 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.0077519	0.0077519
mean control.....	0.0028225	0
std mean diff.....	5.5988	8.8045
mean raw eQQ diff.....	0	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	0	1
mean eCDF diff.....	0.0024647	0.003876
med eCDF diff.....	0.0024647	0.003876
max eCDF diff.....	0.0049294	0.0077519
var ratio (Tr/Co).....	2.7541	Inf
T-test p-value.....	0.52648	0.31732

\*\*\*\*\* (V153) as.factor(listplac)19 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.0029793	0
std mean diff.....	-Inf	0
mean raw eQQ diff.....	0.0077519	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0014897	0

med eCDF diff.....	0.0014897	0
max eCDF diff.....	0.0029793	0
var ratio (Tr/Co).....	0	NaN
T-test p-value.....	4.1744e-14	1

\*\*\*\*\* (V154) as.factor(listplac)20 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.015504	0.015504
mean control.....	0.0010454	0.023256
std mean diff.....	11.658	-6.2502
mean raw eQQ diff.....	0.0077519	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0072293	0.003876
med eCDF diff.....	0.0072293	0.003876
max eCDF diff.....	0.014459	0.0077519
var ratio (Tr/Co).....	14.73	0.67196
T-test p-value.....	0.18795	0.56421

\*\*\*\*\* (V155) as.factor(listplac)21 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.0057495	0
std mean diff.....	-Inf	0
mean raw eQQ diff.....	0.0077519	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0028748	0
med eCDF diff.....	0.0028748	0
max eCDF diff.....	0.0057495	0
var ratio (Tr/Co).....	0	NaN
T-test p-value.....	< 2.22e-16	1

\*\*\*\*\* (V156) as.factor(listplac)22 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.0059063	0
std mean diff.....	-Inf	0
mean raw eQQ diff.....	0.0077519	0
med raw eQQ diff.....	0	0

max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0029532	0
med eCDF diff.....	0.0029532	0
max eCDF diff.....	0.0059063	0
var ratio (Tr/Co).....	0	NaN
T-test p-value.....	< 2.22e-16	1

\*\*\*\*\* (V157) as.factor(listplac)24 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.002927	0
std mean diff.....	-Inf	0
mean raw eQQ diff.....	0.0077519	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0014635	0
med eCDF diff.....	0.0014635	0
max eCDF diff.....	0.002927	0
var ratio (Tr/Co).....	0	NaN
T-test p-value.....	6.9722e-14	1

\*\*\*\*\* (V158) as.factor(listplac)26 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.0055405	0
std mean diff.....	-Inf	0
mean raw eQQ diff.....	0.0077519	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0027702	0
med eCDF diff.....	0.0027702	0
max eCDF diff.....	0.0055405	0
var ratio (Tr/Co).....	0	NaN
T-test p-value.....	< 2.22e-16	1

\*\*\*\*\* (V159) as.factor(listplac)27 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.0086766	0
std mean diff.....	-Inf	0

mean raw eQQ diff.....	0.015504	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0043383	0
med eCDF diff.....	0.0043383	0
max eCDF diff.....	0.0086766	0
var ratio (Tr/Co).....	0	NaN
T-test p-value.....	< 2.22e-16	1

\*\*\*\*\* (V160) as.factor(listplac)30 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.0028748	0
std mean diff.....	-Inf	0
mean raw eQQ diff.....	0.0077519	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0014374	0
med eCDF diff.....	0.0014374	0
max eCDF diff.....	0.0028748	0
var ratio (Tr/Co).....	0	NaN
T-test p-value.....	1.1591e-13	1

\*\*\*\*\* (V161) as.factor(listplac)33 \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0	0
mean control.....	0.0028225	0
std mean diff.....	-Inf	0
mean raw eQQ diff.....	0.0077519	0
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	0
mean eCDF diff.....	0.0014112	0
med eCDF diff.....	0.0014112	0
max eCDF diff.....	0.0028225	0
var ratio (Tr/Co).....	0	NaN
T-test p-value.....	1.9318e-13	1

\*\*\*\*\* (V162) votecan.pc \*\*\*\*\*

	Before Matching	After Matching
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mean treatment.....	17.72	17.72
mean control.....	20.297	16.204
std mean diff.....	-17.312	10.18
mean raw eQQ diff.....	3.4675	2.7363
med raw eQQ diff.....	1.569	1.7472
max raw eQQ diff.....	12.579	22.44
mean eCDF diff.....	0.046704	0.049718
med eCDF diff.....	0.038108	0.046512
max eCDF diff.....	0.16053	0.13953
var ratio (Tr/Co).....	0.73442	1.8135
T-test p-value.....	0.05245	0.16346
KS Bootstrap p-value..	0.005	0.138
KS Naive p-value.....	0.0027097	0.16219
KS Statistic.....	0.16053	0.13953

\*\*\*\*\* (V163) votepart.pc \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	29.423	29.423
mean control.....	28.843	29.063
std mean diff.....	4.5752	2.8417
mean raw eQQ diff.....	1.9663	2.187
med raw eQQ diff.....	1.3758	1.4309
max raw eQQ diff.....	6.9178	8.8746
mean eCDF diff.....	0.036641	0.039473
med eCDF diff.....	0.03571	0.031008
max eCDF diff.....	0.113	0.11628
var ratio (Tr/Co).....	1.2986	1.2724
T-test p-value.....	0.60514	0.71786
KS Bootstrap p-value..	0.058	0.322
KS Naive p-value.....	0.07583	0.34772
KS Statistic.....	0.113	0.11628

\*\*\*\*\* (V164) incumb \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.18605	0.18605
mean control.....	0.42933	0.17829
std mean diff.....	-62.276	1.9843
mean raw eQQ diff.....	0.24031	0.0077519
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.12164	0.003876

med eCDF diff.....	0.12164	0.003876
max eCDF diff.....	0.24329	0.0077519
var ratio (Tr/Co).....	0.62288	1.0336
T-test p-value.....	1.001e-10	0.56421

\*\*\*\*\* (V165) won.natl \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.10853	0.10853
mean control.....	0.15989	0.077519
std mean diff.....	-16.449	9.9302
mean raw eQQ diff.....	0.054264	0.031008
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.025681	0.015504
med eCDF diff.....	0.025681	0.015504
max eCDF diff.....	0.051362	0.031008
var ratio (Tr/Co).....	0.72585	1.3529
T-test p-value.....	0.065198	0.1565

\*\*\*\*\* (V166) age \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	43.085	43.085
mean control.....	46.661	43.14
std mean diff.....	-39.546	-0.60015
mean raw eQQ diff.....	3.6357	1.6047
med raw eQQ diff.....	4	1
max raw eQQ diff.....	6	6
mean eCDF diff.....	0.076818	0.039168
med eCDF diff.....	0.049853	0.031008
max eCDF diff.....	0.22193	0.13953
var ratio (Tr/Co).....	1.1998	1.1703
T-test p-value.....	1.6292e-05	0.90857
KS Bootstrap p-value..	< 2.22e-16	0.112
KS Naive p-value.....	6.5974e-06	0.16219
KS Statistic.....	0.22193	0.13953

\*\*\*\*\* (V167) dm \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	9.7442	9.7442
mean control.....	9.2137	9.9457
std mean diff.....	13.096	-4.9753

mean raw eQQ diff.....	0.51163	0.48062
med raw eQQ diff.....	0	0
max raw eQQ diff.....	2	2
mean eCDF diff.....	0.035368	0.03433
med eCDF diff.....	0.024415	0.027132
max eCDF diff.....	0.075609	0.10853
var ratio (Tr/Co).....	1.0515	1.2454
T-test p-value.....	0.14059	0.49519
KS Bootstrap p-value..	0.232	0.268
KS Naive p-value.....	0.45644	0.43311
KS Statistic.....	0.075609	0.10853

\*\*\*\*\* (V168) turnout \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	48.569	48.569
mean control.....	48.276	48.288
std mean diff.....	4.926	4.7173
mean raw eQQ diff.....	0.50178	0.67109
med raw eQQ diff.....	0.32	0.4
max raw eQQ diff.....	4.29	4.71
mean eCDF diff.....	0.021093	0.031169
med eCDF diff.....	0.021079	0.027132
max eCDF diff.....	0.052558	0.11628
var ratio (Tr/Co).....	1.0547	1.1537
T-test p-value.....	0.57801	0.33154
KS Bootstrap p-value..	0.72	0.294
KS Naive p-value.....	0.87091	0.34772
KS Statistic.....	0.052558	0.11628

\*\*\*\*\* (V169) germ.min \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.015504	0.015504
mean control.....	0	0
std mean diff.....	12.5	12.5
mean raw eQQ diff.....	0.015504	0.015504
med raw eQQ diff.....	0	0
max raw eQQ diff.....	1	1
mean eCDF diff.....	0.0077519	0.0077519
med eCDF diff.....	0.0077519	0.0077519
max eCDF diff.....	0.015504	0.015504

var ratio (Tr/Co).....	Inf	Inf
T-test p-value.....	0.15811	0.1565

\*\*\*\*\* (V170) pprefel \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.072791	0.072791
mean control.....	0.055054	0.068837
std mean diff.....	18.928	4.2189
mean raw eQQ diff.....	0.016357	0.009845
med raw eQQ diff.....	0.01	0
max raw eQQ diff.....	0.17	0.17
mean eCDF diff.....	0.055356	0.035142
med eCDF diff.....	0.058419	0.03876
max eCDF diff.....	0.090443	0.077519
var ratio (Tr/Co).....	1.5931	0.98776
T-test p-value.....	0.033805	0.63663
KS Bootstrap p-value..	0.124	0.574
KS Naive p-value.....	0.24536	0.83306
KS Statistic.....	0.090443	0.077519

\*\*\*\*\* (V171) pscore.fit \*\*\*\*\*

	Before Matching	After Matching
mean treatment.....	0.034069	0.034069
mean control.....	0.0065129	0.019055
std mean diff.....	22.422	12.216
mean raw eQQ diff.....	0.027154	0.015637
med raw eQQ diff.....	0.011087	0.0015519
max raw eQQ diff.....	0.954	0.8936
mean eCDF diff.....	0.30224	0.035714
med eCDF diff.....	0.34757	0.031008
max eCDF diff.....	0.45686	0.10853
var ratio (Tr/Co).....	173.27	35.866
T-test p-value.....	0.012064	0.12489
KS Bootstrap p-value..	< 2.22e-16	0.425
KS Naive p-value.....	< 2.22e-16	0.43311
KS Statistic.....	0.45686	0.10853

Before Matching Minimum p.value: < 2.22e-16

Variable Name(s): idp.pre as.factor(index)26 as.factor(index)48 as.factor(index)57 as.factor(out.party)

After Matching Minimum p.value: 6.7584e-05

Variable Name(s): as.factor(out.party)niez. Number(s): 71