

Naming for Kin during World War I: Baby Names as Markers for War

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Naming for kin during World War One

Nicolas Todd¹, Baptiste Coulmont²

Abstract

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- 4 Tastes and beliefs influence the choice of baby names. During periods of intense social
- 5 change, names thus inform on how rapidly individuals adapt to new circumstances.
- 6 Using a large, crowdsourced French genealogy database of 5.5 million individuals born
- 7 between the years 1905-1925, we leverage this well-known characteristic of baby
- 8 names to analyze reactions to the First World War, a time of unexpected and extreme
- 9 family disorganization characterized by the hasty separation of millions of couples
- 10 followed by uncertainty on the soldiers' survival. We investigated paternal (father to
- 11 son/daughter) and avuncular (uncle to nephew/niece) name transmission during the
- 12 conflict. We found that immediately following mobilization, the rate of paternal name
- transmission increased by about 50% for both males and females. Heightened
- transmission correlated with predictors of the level of risk the father was exposed to.
- 15 These results suggest that paternal name transmission accurately reflects ordinary
- people's perception of the risks taken by the soldiers in the first months of the War.

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Increased transmission of an uncle's name following his death was found both for uncles who died in peacetime and during the War, but significantly more sustained in the latter case. This phenomenon is strong evidence that the 'cult of the fallen soldier' was widely and persistently practiced in French society.

Introduction

The structure of the family has long influenced the choice of baby names. 'Naming for kin', or the transmission of names from one generation to the next, is known to be more frequent in families with many children or comprised of multiple generations. Naming children after kin as a general rule for name choices has dominated the European naming system of the early modern period. From the late 18th century onwards, naming for kin gradually declined, giving way to choices more closely determined by parental tastes and beliefs. In such circumstances where baby names are the outcome of parental choices, they enable the study of how people react to historical events. Names have for instance been used to investigate popular support to Regime change before the era of public opinion polls, reactions to the Chinese Cultural Revolution, mass incarceration of US citizens of Japanese descent following the attack on Pearl Harbor, or diplomatic crises. In all cases, rapid changes in the popularity of specific names could be observed, e.g. in the United States an increased frequency of presidential name

following a presidential assassination attempt. Less attention has been paid to systematic modifications of naming behavior.³

World War One (WW1) unquestionably caused major social disruptions in France.

Starting on Sunday, August 2, 1914, millions of young men were mobilized, many among them to join fighting units. Couples were hastily separated. The majority of women immediately faced dire practical problems. The most pressing issue was harvest in the countryside, while urban areas saw an alarming rise in unemployment. Violent combats began in the third week of August and, immediately following, large parts of North-Eastern France were invaded by the German army. The attitude of European populations during the War has been researched at least since the seminal effort of Jean-Jacques Becker. The very early phase of the conflict has been of special interest.

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³ For the traditional naming for kin practice in Western Europe, see Agnès Fine, "L'héritage Du Nom de Baptême," *Annales ESC*, IV (1987), 853–877; Ólöf Garðarsdóttir, "Naming Practices and the Importance of Kinship Networks in Early Nineteenth-Century Iceland," *The History of the Family*, IV (1999), 297–314; Frans Van Poppel et al., "Naming for Kin and the Development of Modern Family Structures: An Analysis of a Rural Region in the Netherlands in the Nineteenth and Early Twentieth Centuries," *The History of the Family*, IV (1999), 261–295. For baby names as reactions to historical events, see; Michael Wolffsohn and Thomas Brechenmacher, "Nomen Est Omen: The Selection of First Names as an Indicator for Public Opinion in the Past," *International Journal of Public Opinion Research*, XIII (2001), 116–139; Elena Obukhova, Ezra W. Zuckerman, and Jiayin Zhang, "When Politics Froze Fashion: The Effect of the Cultural Revolution on Naming in Beijing," *American Journal of Sociology*, CXX (2014), 555–583; Martin Saavedra, Kenji or Kenneth? Pearl Harbor and Japanese-American Assimilation (Oberlin College, 2018); Robert Urbatsch, "The American Public's Attention to Politics in Conflict and Crisis, 1880–1963," *The Journal of Interdisciplinary History*, XLVI (2015), 225–244.

Previous work notably found that only very late in July 1914 did French people realize a war could actually break out. The fighting was then expected to be short: most thought the conflict would be over by the end of 1914. Furthermore, it seems to have been unclear how much risk soldiers leaving to the front would be exposed to, before it became obvious to all that modern weapons were causing unprecedented casualties.4 The historical sources used so far have been diverse: administrative reports, letters, diaries or newspapers have all shed some light on the perception of the War by ordinary people. None are as systematic as baby names, the exploration of which remains in its infancy in the context of WW1. Recently, heightened transmission of the father's name as a response to his death at the front has been found in an urban cohort of war orphans born 1914-1916. Specifically, a prenatal loss of father was associated with a 2.7-fold increase in the probability of transmission of the father's name, both to male and, in a feminized form, to female offspring (e.g. Joseph → Joséphine). This increased transmission was highest among officers, leading to the hypothesis that this naming practice was a concrete expression of the 'cult of the fallen soldier' phenomenon first put forward by George Mosse. This heroization process had so far been most readily investigated either on case studies or at the community level, e.g. through the

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⁴ See Jean-Jacques Becker, 1914: Comment Les Français Sont Entrés Dans La Guerre Contribution à L'étude de L'opinion Publique, Printemps-été 1914 (Paris, 1977) and; Jean Jacques Becker, Les Français Dans La Grande Guerre (Paris, 1980) for early works; for more recent reviews see Jean-Jacques Becker, "Willingly to War. Public Response to the Outbreak of War," Berlin, 1914-1918-Online. International Encyclopedia of the First World War, (2015); André Loez, 14-18, Les Refus de La Guerre: Une Histoire Des Mutins (Paris, 2010).

examination of the war memorials ("*Monuments aux Morts*") erected by municipalities after 1918. Previous work on orphans' names was nevertheless limited by a small sample size, an exclusively urban context, a lack of comparison to the antebellum period and the sole focus on paternal names.⁵

This research note aims at moving forward the systematic description of attitudes during the First World War by focusing on the determinants of kin (father and uncle) name transmission, going beyond the aformentioned limitations of previous work. Our objective was twofold. First, document ordinary people's perception of the conflict. Second, investigate whether any evidence for heroization of soldiers could be found in

Data and methods

naming practices following kin death.

Genealogical data. Geneanet is a crowd-sourced genealogy website on which
 registered users can choose either to share their family tree ('open records') or to keep

For early work on first names during the War, see Édouard Lévy, "Les Prénoms de La Guerre (1914-1918)," *Revue Internationale de Sociologie*, XXVI (1918), 508–513; Édouard Lévy, *Manuel Des Prénoms* (Paris, 1922); for the analysis of paternal name transmission to orphans, see Nicolas Todd, Alain-Jacques Valleron, and Pierre Bougnères, "The Naming of Orphans in France During World War One: A Study of a Nationwide Cohort of Pupilles de La Nation," *Historical Methods: A Journal of Quantitative and Interdisciplinary History*, LI (2018), 82–91; for classic references on the cult of the fallen and mourning practices during the Great War, see George Lachmann Mosse, *Fallen Soldiers : Reshaping the Memory of the World Wars* (New York Oxford, 1990) ; Stéphane Audoin-Rouzeau and Annette Becker, *14-18, Retrouver La Guerre* (Paris, 2003).

it private. *Geneanet* granted us access to the 5.5 million open records of individuals born 1905-1925 in France, to which information on the father and uncles was also attached. Specifically, the following information was available for these individuals: family name, first and middle names, sex, place and date of birth, date of death; for their fathers: first and middle names, dates of birth and death; and for their uncles: line (maternal/paternal), first and middle names and date of death.⁶

Record linkage. Since every time a descendant mentions a person as part of their family tree, that person is recorded in the database, one person can be recorded multiple times. To identify and merge such duplicates, we used the EM algorithm implemented by the *RecordLinkage* package of the R programming language. This procedure also helps correct for errors in data, since each characteristic of merged individuals is chosen by majority voting among duplicates (see Table 1 for an illustrative example). Due to the high computational cost of the deduplication process, we stratified on sex and year of birth and ran it on a computer cluster. This procedure yielded N = 3,056,387 distinct individuals born in France between 1905 and 1925.

All computer codes needed to replicate the deduplication process can be found at https://github.com/nptodd/NamingForKinWW1.7

⁶ Geneanet is available: https://www.geneanet.org/ .

⁷ R Core Team, *R: A Language and Environment for Statistical Computing* (Vienne (Autriche), 2019); Murat Sariyar and Andreas Borg, "The RecordLinkage Package: Detecting Errors in Data," *The R Journal*, II (2010), 61–67.

Family name	Names	Date of birth	Father's names	Father's date of birth
Lafforgue	Robert Joseph	1905	Jules	1888-06-05
Laforgue	Robert Joseph	1905-02-07		1888-05-06
Laforgue	Robert	1905-07-02	Jules Philippe	1888-05-06
Laforgue	Joseph Robert	1905-02-07	Jules Philippe	
Laforgue	Robert Joseph	1905-02-07	Jules Philippe	1888-05-06

Name transmission. We focused on first names. In order to include females in the analysis, comparison of father's and offspring's names was limited to the first 4 letters, e.g. transmission is considered to have occurred when the father's name is **Simo**n and the daughter's name is **Simo**ne. This definition is conservative, since it misses some forms of transmission (e.g. Albert → Berthe), though those are likely to be quantitatively of minor importance. There was also the question of hyphenated first names. Until the mid 20th century, hyphenated names were both unstable and hard to identify, since a hyphen could sometimes be used to separate different names. The present study therefore treats both spaces and hyphens as name separators.

Diachronic analysis of paternal transmission. We studied the rate of transmission of paternal first name (the 'transmission rate' for brevity) according to the date of birth. We first focused on the very beginning of the war, subdivided into 3 periods: diplomatic

crisis of July 1914 ('July Crisis' starting with the assassination of Archduke Franz Ferdinand on June 28); early mobilization (from the mobilization order on August 1 to first significant fightings on the third week of August); combat phase (late August and September). We then analyzed the whole war period. Excluding those for whom exact date of birth or father's name was missing, this analysis is based on N = 2,311,909 individuals.

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Kin name transmission following kin death. For the N=1,421,152 individuals for whom father's date of death was known, we studied the association between paternal name transmission and age at father's death. We analyzed separately kin deaths in wartime and peacetime. While a child's birth can only occur at most 9 months after their father's death, the same is evidently not true for uncles, who may have died many years before the birth of a nephew or a niece. This enables the investigation of naming after deceased kin on a much longer time scale. One methodological difficulty is that if a child has exactly one father, he or she may have many uncles, and conversely an uncle many nieces and nephews, so that several definitions of the rate of transmission may be adopted. In the present work, we consider the proportion of uncle-nephew/niece dyads for which the first four letters of the two names match, and group the dyads according to the duration between the death of the uncle and the birth of the nephew/niece ('age at uncle's death' for short, even if avuncular death occurred prior to nephew/niece's conception). Here the dataset analysed is that of uncle - nephew/niece dyads where both uncle's and child's name are known (N = 6,055,890).

Results

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Paternal transmission rate during WW1

Prewar trend. On the brink of WW1, about 12% of all baby boys and 4% of all baby girls were given the first name of their father (Figure 1, top panel, inset). Transmission to boys was declining, as parents increasingly turned to fashion. By contrast, until the beginning of the 1920s, transmission to girls was becoming more common, in part due to the general increase in popularity of male names' variants (e.g. Marcelle or Paulette) that enabled fathers' names to be transmitted as fashionable names. No period before 1914, including the 'Moroccan crises' of 1905 and 1911 when France and Germany threatened warfare, saw any disruption to these trends. July Crisis and early August 1914. We found no evidence for an increase in the transmission rate during the July Crisis. This stability echoes that which was observed during the Moroccan crises. Even for those born in the last week of July (Monday, July 27 to Sunday, August 2), no increase in the transmission rate was found. By contrast, a surge is visible in the first week of August (Monday, August 3 to Sunday, August 9), immediately following the mobilization order but before any actual fighting: 14.0% (95%) Confidence Interval (CI): 11.9%–16.0%) of boys born during the last week of July were named after their father, and 17.7% (95% CI: 15.5%-19.9%) of boys born during the following week. A similar increase in transmission by about 50% was observed in female births (Figure 1, lower panel). First combats and subsequent months. After the early August surge, the transmission rate remained stable until around May 1915, when it fell back to its prewar

level. This phenomenon helps formulate hypotheses regarding both the mechanisms behind heightened transmission and the subpopulation involved. First, it suggests that it was not the large scale social disruption caused by the War that induced the phenomenon, since social disruption evidently did not vanish in May 1915 when large parts of France were still occupied, and combats were still ongoing. Second, the fact that the return to baseline was specifically centered on May 1915 suggests increased transmission mostly occurred in families where the father was mobilized. Children born after May 1915 were conceived after August 1914 – and hence predominantly by fathers who were not separated from their spouse when mobilization took place: the men available for conception after August 1914 were in their vast majority those free from military obligations. Of note, it has already been observed that for the same reason the monthly proportion of orphans in the total population of births plummeted in May 1915 in a fashion consistent with this 'mobilization effect.'⁸

Heightened transmission of paternal first name as a measure of risk perception.

Having identified mobilization (and the subsequent separation of couples) in August 1914 as strongly associated with increased transmission, we wondered whether separation alone was its reason, or if this phenomenon was more specifically related to the risks taken by the soldiers who were mobilized. Consistent with the notion that the

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⁸ It is only in July 1915 that a leave system was organized by the French army, so that a few times a year soldiers could spend a few days at the rear. For a detailed analysis of the mechanism behind the May 1915 plunge, see Nicolas Todd, "Long-Term Health Effects of World War I Stresses" (Université Pierre-et-Marie-Curie thesis, 2017), 69–76.

increase in name transmission was indeed correlated to the level of risk incurred by the father, we found that for infants born to men older than 35 (and therefore expected to be mobilized in less exposed, 'territorial', units), the increase is negligible (Figure 2).

Accordingly, the surge in transmission observed in August 1914 almost exclusively took place for babies born to young fathers (below 35).

If risk incurred by the father was actually the factor driving higher transmission, name transmission and paternal death during the War must be correlated, since by definition fathers who died were statistically more at risk. Among those born to young fathers, one can assess name transmission depending on whether the father died during the War (excluding the trivial case of a prenatal death of father – see below) or not. Indeed, the

transmission rate was 11.0% (95% CI 10.8–11.2) for babies whose fathers died after

the War, but 15.7% (95% CI 14.9–16.5) for those whose father died during the War.

Naming for dead kin in war and peace

Prenatal loss of father. Between 30 and 55% of all prenatal orphans (those still in the womb when the father died) received the first name of their father, irrespective of gestational age at father's death (Figure 3). Transmission rates were consistently, albeit moderately, higher for those whose father died during the War vs. in peacetime. At large, a loss of father during pregnancy leads in our sample to a 2.7-fold increase in the transmission rate, consistent with previous estimates. Due to a higher baseline value (transmission rate for a postnatal loss of father), the fold-increase is lower in wartime (e.g. in boys: 2.2) than in peacetime (boys: 2.8). The loss of a father during the first trimester of pregnancy further led to increased transmission, while a death occurring in

the last month of pregnancy was associated with a more modest increase (2-fold increase). Competing hypotheses are that for these births, (1) the mother was still not aware of the death of her husband, (2) the parents had already agreed upon a baby name, (3) the need to symbolically link a baby to his or her father was less important when the pregnancy was already well-established at the time of the father's death. Prenatal loss of uncle. In our sample, the transmission rate of avuncular name to nephew was about 5% at baseline, i.e. for uncles still alive at nephew's birth (Figure 4). The transmission rate was distinctly higher in uncle-nephew/niece dyads in which the uncle died before the birth of his nephew/niece. Within the prenatal period, a marked difference was also visible between wartime and peacetime avuncular deaths. For deaths within the year preceding the birth, the rate of transmission to nephews was 14.0% (95% CI: 13.2-14.8) for a death in peacetime vs 16.0% (95% CI: 15.0-16.9) for a death in wartime. The response induced by a wartime death of uncle was also more lasting, so that the differences between wartime and peacetime avuncular deaths are

Discussion

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A simple behaviour, child naming, can yield considerable insight into the reactions to a historical event.

still extremely notable ten years after the uncle's death.

In order to investigate this behaviour at the population level, we relied on digitized genealogies, a data source that, due to the sample size and chronological coverage it offers, is becoming increasingly popular in fields such as population genetics and social

history. Yet it has several shortcomings. The distribution of producers is skewed, so that few users contribute a large number of records, possibly for religious reasons (as is the case with members of the Mormon Church). Amateur genealogists tend to focus on the prestigious branch(es) of their family. Lower class individuals are underrepresented because of common law marriages, unregistered birth, illegitimate birth, infant mortality, child abandonment and everyday resistance to policing. If it may be the case that the precise effect sizes we measure in our sample do not generalize to the population of all those born 1905-1925 in France, we have no reason to believe selectivity could explain our results, all based on large differences measured between groups *within* our dataset.⁹

July 1914 retrospectively appears as the tragic month during which the European governments made the decisions that led to the World War. Though newspapers of

⁹ For a recent use of crowdsourced genealogies in population genetics, see: Joanna Kaplanis et al., "Quantitative Analysis of Population-Scale Family Trees with Millions of Relatives," *Science*, CCCLX (2018), 171–175; in social history: Arthur Charpentier and Ewen Gallic, "Using Collaborative Genealogy Data to Study Migration: A Research Note," *The History of the Family*, XXV (2020), 1–21; Tine De Moor et al., "Long-Term Trends in Marriage Timing and the Impact of Migration, the Netherlands (1650-1899)," *Historical Life Course Studies*, VI (2017), 40–68; for resistance to state policy in relation to names: James C Scott, John Tehranian, and Jeremy Mathias, "The Production of Legal Identities Proper to States: The Case of the Permanent Family Surname," *Comparative Studies in Society and History*, XLIV (2002), 4–44; for an in-depth assessment of demographic characteristics of the Geneanet genealogies, see Arthur Charpentier and Ewen Gallic, "La Démographie Historique Peut-Elle Tirer Profit Des Données Collaboratives Des Sites de Généalogie ?" *Population*, LXXV (2020), NN–NN.

course reported the assassination of Archduke Franz Ferdinand and the diplomatic tensions that followed, the importance of this stream of events was essentially misunderstood and downplayed by the press for weeks. Unsurprisingly, no evidence for changes in paternal transmission rates could be found during this time period. The possibility of a war then brutally materialized during the last week of July. For instance, while the international crisis was still reported on page 3 only in the newspaper L'Humanité as late as July 24, on the next day a front-page article by Jean Jaurès, the head of the newspaper and a major socialist figure, made clear to all readers that war was most likely, with only a "suprême chance de Paix" left. Unions and the socialist party also organized demonstrations in large cities during this week. Yet we found no evidence for a change in naming behavior, suggesting French parents did not grasp the enormity of the threat. Only with mobilization did the naming pattern change. On the whole, the study of paternal name transmission in July 1914 is congruent with previous work: as stated by Becker, "when the church bells began to ring on 1 August and it became clear that this was not to warn of fire but to announce mobilisation for war, the first reaction was one of stunned shock and consternation". 10 Our analysis then shows a quick change in behavior: during the first weeks of August. before the first deadly military engagements, paternal names suddenly became more popular than ever. This change was so brutal it was certainly not driven by imitation: it is extremely unlikely that mothers even realized a change in naming practices was under

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way. The change is quantitatively more important for children born to young fathers (the

¹⁰ Becker, "Willingly to War. Public Response to the Outbreak of War."

majority sent to fighting units) than for children of older fathers (mostly sent to non-fighting units). Risks taken by the father, rather than the separation of parents alone, seem to have boosted the father's name transmission. The fact that the rate of transmission did not change in late August - early September is puzzling, since one could have expected that mothers initially underestimated the risk of paternal death, then re-estimated a higher risk once the first casualty rates were known. This stable transmission suggests that parents correctly estimated a high risk of death from the very beginning of the war. Past experience of the 1870 Franco-Prussian War or knowledge on lethality of modern weapons gained from the Balkan wars may have been sufficient to inform people's risk assessment. At odds with previous narratives, we conclude that even in its earliest phase, ordinary people did not underestimate the severity of the conflict.

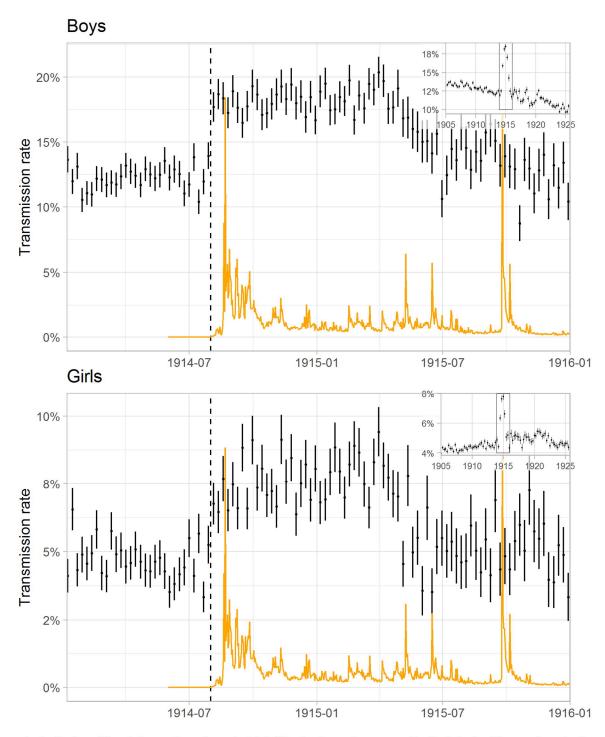
Localized family de-structuration rather than large-scale social disruption seems to lie at the root of the change in behavior we observe. The war and the mobilization of young men away from their village might have changed the established social hierarchies. If responsible for the over-transmission we observe, this large-scale disruption of the social order should have affected each and every parents of babies born after July 1914. By contrast, we observe that after May 1915, the transmission rate fell back to its pre-war level even as the war continued. The general disruption of social order went on without influencing the parents. Furthermore, only a modest increase in paternal name transmission could be found for babies born to older fathers, mobilized in territorial units ("armée territoriale"). To the best of our knowledge, the most likely explanation for our results is that changes in naming behavior were located in families where the separation

268 of parents entailed a heightened risk of death. This hypothesis could further be tested 269 using microdata linking individual military experience and name transmission. 270 Turning to the subpopulation of children who lost their father or an uncle, we could 271 systematically investigate differences in mourning practices in war and peace. Many 272 studies have already been devoted to the unprecedented mass grief induced by the 273 First World War. Its best-known aspects relate to the postwar period, namely the 274 construction of war memorials in virtually every French town and village, and 275 pilgrimages to military cemeteries. Documentation regarding intimate rituals, their 276 frequency and their temporality, has been more scattered. Testimonies have reported 277 photographs and medals played an important role in preserving a trace of the dead after 278 the war. Case studies have frequently mentioned children who were given the name of 279 a dead kin during the war, without being able to assess how widespread and how 280 specific to WW1 this behaviour was. 281 We found that in early 20th century France, even in peacetime, the death of the father 282 during pregnancy led to a high probability that his name would be given to his offspring. 283 The traumatic nature of the event was apparently sufficient to elicit a sharp increase in 284 transmission. During WW1, paternal name transmission, already boosted in the general 285 population of births by the risks soldiers leaving to the front incurred, was further 286 stimulated for prenatal orphans. It is also likely that the practice took a new meaning, 287 since the name given was not only that of the father, but also that of a patriotic hero. 288 Browsing the wartime Social Announcements section of the conservative, upper class 289 oriented, newspaper Le Figaro, it is not infrequent to find birth announcements which 290 specifically stressed that the father had 'gloriously died for France'.

The study of uncle to nephew/niece transmission enabled us to disentangle the effect of trauma from the cult of a fallen hero. The names of uncles who died during the War were significantly and lastingly more transmitted to nephews and nieces than those of uncles who died in peacetime: we show that, during the War and after the Armistice, first names were indeed massively used by the French population to maintain alive the memory of fallen soldiers.

To conclude, we found a weakening anthropological tradition, naming for kin, was brutally given renewed impetus in a matter of days in early August 1914 by families that were suddenly confronted to a horrendous prospect they could never have anticipated. In families plunged into mourning, naming for kin additionally stressed the sacrifice that had been made by the dead soldier, and therefore happened to comply with the patriotic ideology of the time. Our study highlights there is no contradiction between anthropological stability and behavioral fluidity. A social theory of action should be able

to take into account both the durability of habits and the fluidity of practice.



An indicator of the daily number of combat fatalities is shown in orange. Vertical dashed line: outbreak of war. Insets: Quarterly rate of transmission, 1905-1925.

Figure 1: Weekly paternal name transmission rate \pm standard error (s.e.).

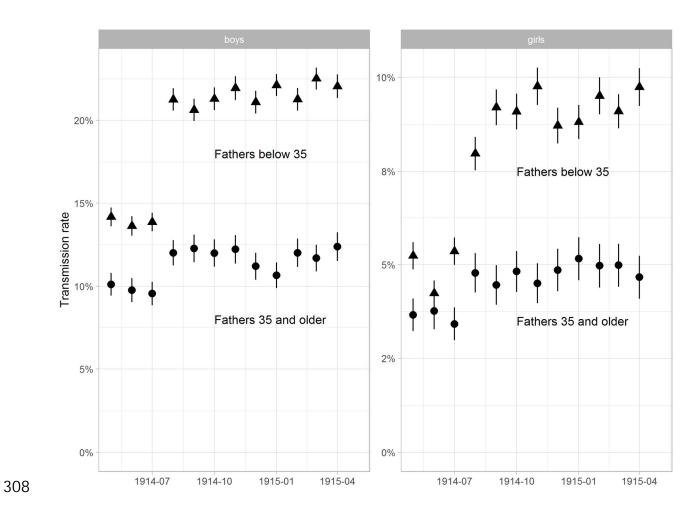


Figure 2: Monthly paternal name transmission (± s.e.), according to paternal age, May 1914 - April 1915.

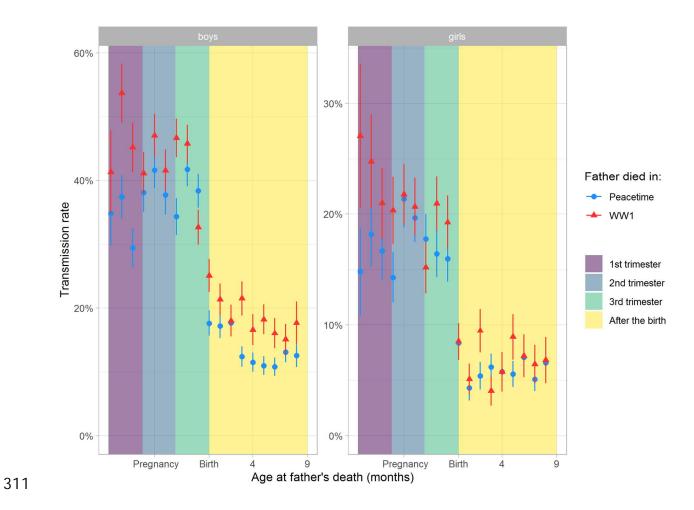


Figure 3: Paternal transmission rate (\pm s.e.), according to age at father's death. Prenatal ages at father's death were computed assuming a fixed duration of pregnancy.

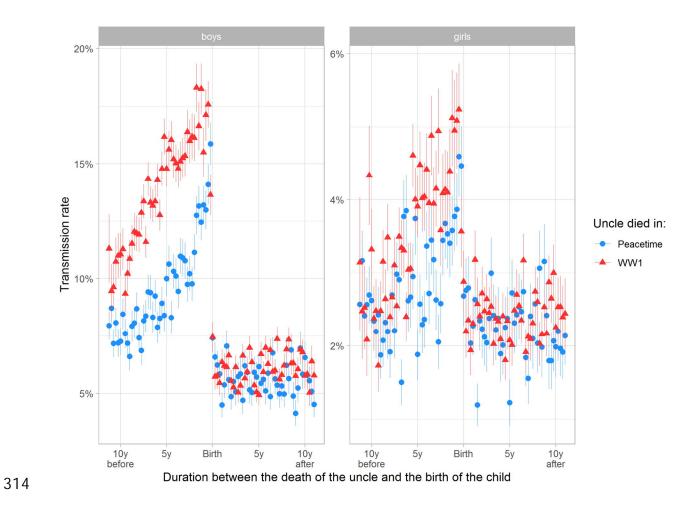


Figure 4: Avuncular transmission rate (± s.e.) according to age at uncle's death.