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The transition to parenthood and development of parents’ personality and emotional competencies

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Abstract

To investigate the influence of the transition to parenthood on parents’ personality traits and emotional competencies, the authors conducted a two-wave longitudinal program research (pregnancy and 6 months postpartum) on 307 parents (214 primiparous and 93 multiparous). At each wave, participants completed a questionnaire assessing personality traits (NEO-60) and emotional competencies (TEIQue). The main results showed few personality and emotional competencies mean-level changes, all gender and socioeconomic status taken into account. Globally, the transition to parenthood does not lead to short-term changes, which confirms personality stability theory. Nevertheless, when gender-effects were set aside, different developmental trajectories were observed between mothers and fathers. Parenthood seems to have a positive effect on the mother’s development. Finally, SES-differences in personality and emotional competencies development were not observed. Neither educational level associated to cognitive flexibility, nor income level allowing access to parental services and goods affected parents’ personality development.

Keywords: Parenthood, personality development, emotional competencies, gender-differences
The transition to parenthood is considered to be a major life stage. “People who become parents and are involved in the raising of children are transformed and follow a different developmental trajectory from people who do not engage in parenting roles” (Palkovitz et al. 2003). However, what kind of transformation can we expect as a parent? Two visions of how parenthood affects personal life may be imagined: a positive one, with feelings of joy, personal growth, social integration and affect-sharing within the family, and a more negative one, with anxiety related to the child’s health and education, decrease of marital satisfaction and financial problems (Bird 1997). Previous studies (Nomaguchi and Milkie 2003, Keizer et al. 2010) have shown mixed and sometimes inconsistent results concerning parents’ development. The aim of the current article, then, is to study the particular effect of parenthood on the individual’s life; that is, the impact of the transition to parenthood on parents’ personality and emotional competencies.

**The transition to parenthood and parental development**

This question is rooted in life-span developmental theory. This theory maintains that the individual’s development takes place in the context of various age-graded developmental tasks and challenges (Erikson 1959) and role transitions (Caspi 1987), which form a normative reference system of development-related expectations and give a structure to the life course. One of the major life transitions is the birth of a child (Salmel-Aro et al. 2000). Becoming a parent is a turning point during which life course takes a new direction, implying many interpersonal (e.g. decrease in marital satisfaction; Lawrence et al. 2008) and intrapersonal (e.g. development of a new identity; Delmore-Ko 2000) changes. The transition to parenthood also implies changes in gender-role attitudes (Katz-Wise et al. 2010).

According to social structural theory (Eagly and Wood 1999), due to the biological role in childbearing (pregnancy, childbirth and lactation) and to cultural expectations of motherhood, mothers display a different parenting role and develop differently from men. Couples often
tend to fall into more traditional gender roles after becoming parents (Nomaguchi and Milkie 2003, Katz-Wise et al. 2010).

Although personal and gender-related changes linked to parenthood have already been observed, no studies have yet concerned the impact of the transition to parenthood on parents’ personalities and emotional competencies. Two possibilities exist in regard to this question. First, the transition to parenthood is a transformative life event insomuch as it induces a radical modification of personality and/or emotional competencies. Second, according to the sociological point of view, the notion of life transition is constructed by society to create a sense of transition. However, no differences would appear between before- and after-birth (LaRossa and Sinha 2006). Consequently, the transition to parenthood would be experienced as a transformative event but there would not be any radical change of personality and/or emotional competencies.

**Personality development: stability versus change?**

Personality research (McCrae and Costa 1999, DeYoung et al. 2007) has reached near consensus on a five-trait structure of personality (i.e., the ‘Big Five’): Neuroticism (withdrawal behaviour, anxiety and detection of threat), Extraversion (intensive pursuit of interpersonal relationships, activities, stimulations and joy), Agreeableness (empathic orientation), Openness to experience (intellectual curiosity, imagination and new cultural experiences) and Conscientiousness (ability to organise, plan and respect conventions).

Although consensus has been reached on a five-trait structure of personality, there is an ongoing debate on personality development, with some arguing for the immutability of personality, especially in adulthood (McCrae and Costa 1999, 2006) and others arguing that traits change with time (Helson and Stewart 1994, Helson et al. 2002, Caspi et al. 2005, Roberts et al. 2006). Can personality change? There is no simple answer to this question.
because there are different ways of conceptualising and measuring personality stability (Roberts and Pomerantz 2004, Caspi and Shiner 2006, Morizot and Miranda 2007). The broadest distinction is between homotypic and heterotypic stability. Homotypic stability refers to the stability of the exact feelings, thoughts and behaviour across time. Heterotypic stability refers to the stability of theoretical personality traits that have different manifestations at different ages (and so different measures). The assessment of homotypic stability is less conceptual and more statistical. It uses the exact same measure of personality across time. Four types of homotypic stability are observed: (a) absolute stability (i.e., mean-level stability), (b) differential stability (i.e., the degree to which people high or low on a trait at one point maintain their relative ordering), (c) structural stability (i.e., similarity over time in patterns of co-variation among traits), and (d) ipsative stability (i.e., stability in the patterning of personality characteristics within a person). Absolute stability can result from maturational processes and/or environmental factors that influence a population in a similar manner (Roberts et al. 2006). It refers to the average trait level of a population and serves to show if the sample as a whole is increasing or decreasing on a trait. In the current study, this kind of stability was chosen and analysed, with the objective of observing the variation of the mean-level of parents’ personality traits between pregnancy and 6 months postpartum.

Controversies persist regarding mean-level stability versus change of personality over the whole population (McCrae and Costa 2006, Roberts et al. 2006). On the one hand, defenders of stability (McCrae and Costa 1997, 1999, 2006) affirm that there is little meaningful mean-level change in any personality traits once adulthood is reached, at around the age of 30. Moreover, observed mean-level changes occur because of genetic predispositions to change in particular ways (McCrae 2004). Recently, McCrae and Costa (2006) have added that personality traits are fundamental endogenous dispositions that can be modified only by interventions, processes or events affecting biological bases. On the other
hand, defenders of change affirm that personality traits show a clear pattern of normative change across the life course (Roberts et al. 2006). People become more socially dominant, conscientious and emotionally stable. Social vitality and openness to experience increase in young adulthood and decrease in old age. Most changes occur during young adulthood and are probably due to “normative functional maturation” (Hogan and Roberts 2004, Caspi et al. 2005). This life period is indeed characterized by many life experiences and transitions such as the transition to parenthood (Roberts et al. 2006). These life transitions imply new social roles (e.g., parent) and expectations (e.g., child’s upbringing) to which people must adapt. This adaptation causes personality changes, most frequently in a positive way (Roberts et al. 2003, 2006).

**Emotional competencies development**

Individuals differ in the extent to which they attend to, process, and utilise affect-laden information of an intrapersonal or interpersonal nature (Petrides and Furnham 2003, Mikolajczak et al. 2007). They tend to differ in their way of understanding, managing, regulating and using their own and others’ emotions (Mikolajczak et al. 2009). Two emotional competencies (EC) constructs exist: ability EC and trait EC. The ability perspective (Salovey and Mayer 1990) concerns emotion-related cognitive abilities measured via performance-based tests. It conceives of EC as a form of intelligence. On the other hand, the trait perspective (Petrides and Furnham 2000, 2001, Pérez et al. 2005, Mikolajczak et al. 2007) concerns emotion-related dispositions and self-perceptions assessed through self-reports. It conceives of EC as a form of personality. In this article, we focus on the latter perspective because of the notably difficult operationalisation of ability EC. In contrast the operationalisation of trait EC is straightforward because the construct includes self-perceptions and dispositions, which fit to the subjective nature of emotions (Petrides et al. 2007).
A four-factor model of emotional competencies traits (i.e., the TEIQue) has been established (Petrides and Furnham 2003, Mikolajczak et al. 2007): Well-Being (self-esteem, trait happiness and trait optimism), Self-Control (emotion regulation, stress management and low impulsiveness), Emotionality (emotional perception, emotional expression, relationship skills and empathy) and Sociability (social competence, other’s emotional management and assertiveness). Two others subscales form a part of emotional competencies but do not belong to any particular factor: Adaptability and Self-Motivation. “Adaptable” people are flexible and willing to adapt to new conditions. Self-Motivated individuals tend to be driven and are unlikely to give up in the face of adversity.

As mentioned previously, trait EC concerns emotions-related dispositions and is conceptualised in terms of personality (Petrides and Furnham 2001). More precisely, trait EC is viewed as a single framework that contains all affect-related aspects of personality. It is a distinct (it can be isolated in personality space) compound (it is partially determined by several personality traits) construct located at the lower levels of personality hierarchies (trait EC is oblique, rather than orthogonal to the Big Five). For example, propensity to decode others’ emotions, a facet of trait EC, can be represented and predicted by a complex function of Big Five factors (e.g., low Extraversion, high Neuroticism and high Agreeableness) (Mikolajczak et al. 2007). Contrary to the high-order traits of the Big Five, the lower-order traits EC allow easier prediction of behaviour, attitudes and achievement (Petrides et al. 2007).

In this article, emotional competencies are considered because the transition to parenthood and potential intrapersonal changes especially concern the emotional field. Emotions are involved in this life transition. For instance, it is a turning point, during which mothers can develop depressive symptoms while strong feelings also develop towards the
newborn baby. Therefore, given its emotional characteristic, we would expect that the transition to parenthood mainly affects emotional competencies rather than personality traits.

**Current study and hypotheses**

The aim of the current study is to observe the impact of the transition to parenthood on parents’ personality traits and emotional competencies. Three groups are compared which allow distinguishing effects from transition to parenthood than from childbirth: (a) childless adults (absence of life event), (b) primiparous parents (transition to parenthood) and (c) multiparous parents (childbirth). With this objective in view, a two-wave longitudinal program research (pregnancy and 6 months postpartum) with self-reported measures has been carried out.

**Hypothesis 1: Development vs. stability of parent’s personality**

As regards personality, both opposite theoretical positions prevent us from putting forward a hypothesis on personality stability or development associated with the transition to parenthood. If development is observed, this life transition should be considered as a transformative life event which supports personality developmental theory (Hogan and Roberts 2004, Caspi et al. 2005, Roberts et al. 2006). If stability is observed, the notion of the transition to parenthood should be considered as constructed by society to have an age-graded reference system (LaRossa and Sinha 2006). Consequently, the transition to parenthood should be experienced as a transformative life event without changing personality mean-level, which supports personality immutability theory (McCrae and Costa 1999, 2006).

**Hypothesis 2: Positive development of parent’s emotional competencies**

As for potential development of emotional competencies, socioemotional selectivity theory (Carstensen 2006) has showed that as one’s life on earth is perceived to become
shorter, one tends to prioritise emotion-regulation. Therefore, individuals are more motivated to regulate their emotions as they get older (Ready and Robinson 2008) because they increasingly want to maximise pleasure and minimise displeasure (Charles and Carstensen 2007). As a result, more frequent emotion-regulation efforts and higher levels of emotional well-being are observed. Yet, the transition to parenthood and, to a lesser extent, the childbirth implies a new life stage with new developmental tasks and roles that conduct to more maturity. It is a sign of some advance in adult age. Moreover, this life event especially affects the emotional field. Therefore, we might expect that the transition to parenthood implies development in emotional competencies. Given that childbirth is a normative and significant event that is often lived as positive by most individuals, we expect positive changes of emotional competencies.

Hypothesis 3: Gender-differences

Some moderators are included in this model. The first one concerns the observation of gender-differences in parental development. Parental developmental theory (Koivunen et al. 2009, Katz-Wise et al. 2010) has indeed shown that the transition to parenthood induces gender-role attitudes with more traditional gender roles after becoming parents (Nomaguchi and Milkie 2003, Katz-Wise et al. 2010). Therefore, in this study, we expect that mothers and fathers experience different developmental trajectories. Moreover, due to the particular biological role in childbearing and to cultural expectations of motherhood, mothers tend to display a different parenting role from men (Eagly and Wood 1999). In view of the fact that the mother’s role is particularly viewed in a good light in Western society (Stryker and Serpe 1982, Katz-Wise et al. 2010), becoming a mother would cause more positive changes.

Hypothesis 3.1: Gender-differences and personality development
The potential effect of gender as a moderator of personality change has already been tested. Globally, no gender differences appeared. Women and men develop similarly (Roberts et al. 2006). As regards parent’s personality development, we do not expect significant gender-differences.

**Hypothesis 3.2: Gender-differences and emotional competencies development**

Gender-differences in emotional competencies have already been observed (Mikolajczak et al. 2007). Women score higher on Emotionality, which is in line with Western norms, according to which expressing emotions is viewed as “unmanly” (Brody 2000). As for men, they have a higher level of Self-Control, which is certainly due to the gender-differenced socialization of emotion (i.e., “men don’t show their feelings”). They also have a higher score on Socialization, in terms of asserting oneself and influencing others’ emotions. Consequently, given the inert emotional gender-differences, in this study, we expect that emotional competencies development occurs differently for mothers and fathers.

**Hypothesis 4: SES-differences**

The second moderator included in this model is the socioeconomic status, represented by educational level and income status. Indeed, the transition to parenthood tends to magnify low-SES individuals’ vulnerabilities, such as emotional distress and weak coping resources (Puckering 2004). These specific environmental contingencies might contribute to personality and emotional competencies change (Roberts et al. 2008). Consequently, we expect development to occur differently between low-SES and high-SES parents. Moreover, effects will be examined separately between educational and incomes levels because they imply different processes: the former refers to cognitive flexibility, such as adopting the child’s perspective while the later concerns access to goods and services, such as crèche, babysitter or antenatal class.
Hypothesis 4.1: SES-differences and personality development

According to Roberts et al. (2008), personality might change in response to contingencies in the environment found in social roles. Yet, low-SES parents have difficulties in coping with transitional changes and have let-alone access to goods and services. Consequently, following the transition to parenthood, low-SES people tend to experience deeper difficulties for a long time. So, they have to deal with specific environmental contingencies, which imply personality change. We therefore hypothesize that low-SES parents would present more personality change, compared to high-SES ones since, due to their economic and educational advantages, this latter category can more easily cope with transitional changes.

Hypothesis 4.2: SES-differences and emotional competencies development

SES-differences in emotional competencies have already been observed (Puckering 2004, Mikolajczak et al. 2007). For instance, low-SES people experience more emotional distress (Puckering 2004) and show weaker emotional competencies (especially Well-Being, Self-Control and Sociability) than do high-SES ones (Mikolajczak et al. 2007). In addition, the transition to parenthood tends to magnify these vulnerabilities (Puckering 2004). Consequently, in this article, we expect that emotional competencies development occurs differently between low and high-SES parents with a more negative trajectory for low-SES ones.
**Method**

**Sample**

The hypotheses generated were tested on the one hand among primiparous and multiparous parents and on the other hand among childless adults constituting the control group.

With regard to parents, data were collected from a good-sized sample of 214 primiparous parents (N = 133 mothers and N = 81 fathers) aged from 19 to 41 years old (M = 28.20, sd = 3.71 for the overall sample; M = 27.45, sd = 3.33 and M = 29.42, sd = 3.99, respectively for mothers and fathers) and 93 multiparous parents (N = 58 mothers and N = 35 fathers) aged from 22 to 43 years old (M = 31.50, sd = 4.35 for the overall sample; M = 30.25, sd = 3.96 and M = 33.54, sd = 4.22, respectively for mothers and fathers). Two waves of data were collected in a longitudinal program research at two points of parenthood: pregnancy (M = 25.81 pregnancy weeks, sd = 8.68) and 6 months postpartum (M = 24.63 weeks postpartum, sd = 4.35). Both during pregnancy and at 6 months postpartum, depression was assessed by means of the Beck Depression Inventory Short Form Items (BDI-13, Collet and Cottraux 1986, Beck et al. 1988). The difference between both measures (depression at 6 months postpartum min depression during pregnancy) allowed us to identify postnatally depressed parents (difference superior of 2 points) and to withdraw them from the sample.

With regard to the control group, data were collected from a good-sized sample of 124 childless adults (N = 84 women and N = 40 men) aged from 19 to 52 years old (M = 25.73, sd = 5.55 for the overall sample; M = 24.77, sd = 4.46 and M = 27.72, sd = 6.99, respectively for women and men). Two waves of data were collected with a 6 months-interval. At Time 1, 113 participants were in a relationship, comparatively to 111 participants at time 2.
For all participants, educational level was distributed as follows: low-educated (secondary school at most) and high-educated (higher education). In Belgium, a secondary school diploma is necessary to gain access to the job market (Colicis et al. 2004). Table 1 displays the distribution of participants between these two groups.

[Insert Table 1 about here]

Family incomes were represented by four household incomes groups: 0 – 1999€, 2000€ – 3499€, 3500€ – 4999€ and more than 5000€. In Belgium, the mean income is 2987€ (Colicis et al. 2004). Below 2000€, a family is near the poverty line. Between 3500€ and 4999€, incomes are considered as above average. Finally, incomes above 5000€ are very high. Table 2 displays the distribution of participants between these four incomes groups.

[Insert Table 2 about here]

Procedure

Parents were recruited with the assistance of gynaecologists, sponsors, magazines and newspapers. Childless adults were recruited with the assistance of psychologists’ students. At the two waves of data collection, parents and childless adults completed a questionnaire on the Internet via Lime Survey or completed a paper version. For ethical reasons, this study was registered with the Commission for the Protection of Private Life.

Measures

- Sociodemographic variables

  Sociodemographic variables were collected during the first wave of data collection: gender, date of birth, nationality, educational level and family income. In addition, parents were asked for details of primiparity and weeks of pregnancy (Time 1, pregnancy) or for the child’s age (Time 2, 6 months postpartum).
- **Longitudinal variables**

  Personality (NEO-60)

  At the two waves of data collection, personality was assessed by means of a short self-report version of NEO-PI-R, the NEO-60 (Aluja et al. 2005). This questionnaire consists of 5 subscales (12 items in each): Neuroticism (anxiety, distress, and nervousness), Extraversion (quantity and intensity of interpersonal interaction and capacity for joy), Agreeableness (kindness, sympathy, and empathy), Openness to experience (pursuit of new experiences, broad interests and imagination) and Conscientiousness (organization, strong sense of purpose and high standards). A 5-point Likert-type scale was provided for each item ranging from “Strongly disagree” to “Strongly agree”. Cronbach’s alpha ranged from .70 to .87 (Aluja et al. 2005).

  Emotional competencies (TEIQue)

  At the two waves of data collection, emotional competencies were assessed by means of an intermediate version of the self-report Trait Emotional Intelligence Questionnaire (TEIQue, Mikolajczak et al. 2007). This questionnaire consists of 4 factors: Well-Being (self-esteem, trait happiness and trait optimism; 14 items), Self-Control (emotion regulation, stress management, low impulsiveness; 20 items), Emotionality (emotion perception, emotion expression, relationship skills and empathy; 19 items) and Sociability (social competence, others’ emotion management and assertiveness; 14 items). Two subscales are also provided: Adaptability (flexible and willing to adapt to new conditions; 4 items) and Self-motivation (driven and unlikely to give up in the face of adversity; 4 items). A 5-point Likert-type scale was provided for each item ranging from “Not at all agree” to “Absolutely agree”. Cronbach’s alpha ranged from .71 to .91 (Mikolajczak et al. 2007).
Results

Preliminary analyses

At the two waves of data collection, preliminary analyses were performed on the items of the NEO-60 and the TEIQue to assess if the factor solution could be replicated. First, a principal component analysis (PCA) was conducted on the 60 items of the NEO-60 with orthogonal rotation (varimax). The Kaiser-Meyer-Olkin measure verified the sampling adequacy for the analysis, \( \text{KMO}= .84 \) (Time 1 and 2), which is well above the acceptable limit of .50 (Field, 2009). Bartlett’s test of sphericity of time 1 \( \chi^2 (1770) = 10311.44, p < .001 \) and time 2 \( \chi^2 (1770) = 11821.20, p < .001 \) indicated that correlations between items were sufficiently large for PCA. A five-factor solution emerged explaining 40.14% (Time 1) and 42.90% (Time 2) of the variance. Cronbach’s alphas (\( \alpha \)) ranged from .77 to .88 (Time 1) and from .81 to .89 (Time 2).

Second, a PCA was conducted on the 75 items of the TEIQue with orthogonal rotation (varimax). The Kaiser-Meyer-Olkin measure verified the sampling adequacy for the analysis, \( \text{KMO}= .88 \) (Time 1) and .89 (Time 2), which is well above the acceptable limit of .50 (Field, 2009). Bartlett’s test of sphericity of time 1 \( \chi^2 (2775) = 14400.23, p < .001 \) and time 2 \( \chi^2 (2775) = 16651.92, p < .001 \) indicated that correlations between items were sufficiently large for PCA. A four-factor and two-subscale solution emerged explaining 37.44% (Time 1) and 40.38% (Time 2) of the variance. Cronbach’s alphas (\( \alpha \)) ranged from .67 to .87 (Time 1) and from .70 to .89 (Time 2).

Others preliminary analyses were conducted at the two waves of data collection by correlating personality and emotional competencies. These correlations are displayed in table 3. Numerous significant correlations were observed in the expected direction, confirming the validity of the measures.
A crosstab was conducted with the whole sample which coherently reported a significant association between educational level and incomes level $\chi^2 (3) = 18.77, p < .001$. The probability for a high-educated person to have upper incomes was high. Nevertheless, since these variables underlie different processes, as mentioned in the introductory section, their effect was treated separately in the current study.

A last preliminary analysis was computed by comparing base level (Time 1 scores) according to (a) group, (b) gender and (c) interaction group x gender. Given the large size of the sample, we only considered results with a significant threshold of 0.01. Significant differences between parents and childless adults in base levels appeared for personality and emotional competencies. At time 1, childless adults had a higher score on Neuroticism $[F(2, 443) = 7.41, p < .01]$ and Openness to experience $[F(2, 443) = 4.75, p < .01]$ and a lower score on Agreeableness $[F(2, 443) = 5.95, p < .01]$ than parents. Since childless adults were on average younger than parents, these results are difficult to interpret in terms of whether they are due to age or to adult status.

Furthermore, a main gender-related effect in base levels appeared for personality and emotional competencies. At time 1, women had a higher score on Neuroticism $[F(1, 444) = 49.42, p < .001]$, Extraversion $[F(1, 444) = 8.29, p < .01]$, Agreeableness $[F(1, 444) = 11.78, p < .01]$ and Emotionality $[F(1, 444) = 15.73, p < .001]$ and a lower score on Self-Control $[F(1, 444) = 53.38, p < .001]$.

Finally, no interaction effect group x age was reported.

Analyses
To test the impact of the transition to parenthood on parents’ personality and emotional competencies, the three groups of participants (primiparous parents, multiparous parents and childless adults) were compared. On the basis of repeated-measures design, analyses were computed to observe if significant differences existed between scores at Time 1 (or pregnancy) and scores at Time 2 (or 6 months postpartum) in each group of participants.

As expected, no difference was noted among childless adults. Similarly, no difference was noted among multiparous parents while a single principal effect was observed among primiparous parents showing a decrease in Extraversion \(F(1, 212) = 8.29, p < .01\) between pregnancy \((M = 3.80, sd = .59)\) and 6 months postpartum \((M = 3.73, sd = .62)\). Descriptive data are presented in table 5.

Three moderators were then separately included in the model: gender, educational level and income level. When gender was included as moderator, two effects were observed on emotional competencies. First, primiparous mothers’ scores increased and primiparous fathers’ scores decreased in Self-Control with respectively \(M=3.20\) to \(3.27 (\sigma=.50\) and \(.55)\) for mothers and \(M=3.56\) to \(3.45 (\sigma=.46\) and \(.48)\) for fathers, \(F(1, 212) = 10.02, p < .01\). Second, multiparous mothers’ scores increased and multiparous fathers’ scores decreased in Adaptability with respectively \(M=3.84\) to \(4.00 (\sigma=.65\) and \(.68)\) for mothers and \(M=4.03\) to \(3.83 (\sigma=.50\) and \(.66)\) for fathers, \(F(1, 91) = 7.29, p < .01\).

Finally, no effect was observed both for educational level and incomes level as moderators.
Discussion

The main objective of this study was to examine the impact of the transition to parenthood on parents’ personality traits and emotional competencies. With regard to personality development, an ongoing debate exists, with some arguing for the stability of personality (McCrae and Costa 1999, 2006) and others maintaining that traits change with time (Helson and Stewart 1994, Helson et al. 2002, Caspi et al. 2005, Roberts et al. 2006, Roberts et al. 2008). These last authors affirm that personality changes occur during young adulthood and claim that they are due to a “normative functional maturation” (Hogan and Roberts 2004, Caspi et al. 2005). Young adults cope with many life transitions, such as transition to parenthood, which imply new social roles (i.e., parent) to which people must adapt. This adaptation would cause personality change.

Nevertheless, our data have shown very few differences between pregnancy and 6 months postpartum. Globally, transition to parenthood does not lead to short-term personality change. Our results thus confirm stability theory (Scarr and McCartney 1983, McCrae and Costa 1997, 1999, 2006, McCrae 2004, Donnellan and Robins 2009) and can notably be explained by the cumulative continuity principle (Roberts and Wood 2006), which defines four factors contributing to personality stability. First, longitudinal data on twins (McGue et al. 1993, Lykken and Tellegen 1996) suggest that much of the stability in adult personality is attributable to genetic factors. This does not mean that genes entirely determine personality, but rather that genotype determines which environments are actually experienced and what effects they have on the developing person (Scarr and McCartney 1983). Thus, the genotype determines environments individuals seek for themselves. Indeed, people seek environments compatible with their personality and select their own social experiences (Donnellan and Robins 2009). This specific environment then reinforces basic personality, which is prevented from changing. Second, personality traits are implicated in niche-building processes that
promote stability. People tend to create, seek out and end up in environments that are correlated with their traits. In turn, these trait-correlated environments reinforce personality traits (Roberts and Robins 2004). For instance, parents decide on having a child. They have particular personality traits that make them to want to become a parent and to cope with a new and specific life situation. This situation - that is, the transition to parenthood - comes closest to reinforcing their personality traits. Third, with age, people develop a personal identity. Identity development facilitates personality stability by providing clear reference points for making life decisions (Roberts and Caspi 2003). Identity serves as a filter for life experiences and leads individuals to interpret new events, such as the transition to parenthood, in ways that are consistent with their identity, which implies little personality change. Finally, some individuals are entry-level effective, organised, decisive, considerate and emotionally stable (high in Agreeableness, Conscientiousness and Emotional Stability) and thus, are less likely to change (Roberts et al. 2001). Indeed, Agreeable, Conscientious and emotionally Stable people are better equipped to cope with social-developmental challenges, such as having a baby. They have more personal capital and this allows them to master more efficiently the challenges of parenthood, thus implying less personality change.

In addition, other studies (Allport 1937, Cantor 1990, Palus 1995) have already shown that although first-time parents feel they are being personally changed, the transition to parenthood did not have an impact at the broad dispositional level of personality factors (McCrae and Costa 1987, 1999) but rather at the “doing” level of personality; that is, the level where dispositions become contextualised into cognitive-motivational forms. Hence, changes could be observed in values, beliefs, personal goals, attitudes, and various schemata for self, others, and situations (Allport 1937, Bandura 1986, Cantor 1990, Salmela-Aro et al. 2000).

In line with our results, sociologists (LaRossa and Sinha 2006) introduced the notion of the “social construction of the transition to parenthood” that reappraises developmental stages.
People feel they are being personally changed: they essentially feel that something that did not exist before supposedly exists now (or vice versa). However, if time is seen as a continuous stream, then the demarcation of time into stages must emerge from mental activity. Consequently, to create a sense of transition, people group one set of “similar” events into one category, another set into a second category, and simultaneously draw a line between the “dissimilar” sets. The transition to parenthood refers to a before-birth and to an after-birth. These periods may be more alike than unalike, but when a narrative of change is employed, it is the differences, more than the similarities, that are highlighted. Thus, “before birth” versus “after birth” is seen as a meaningful classification. In fact, this classification does not rest on objective dissimilarities but on “interpretive practices” (Holstein and Gubrium 2000) that create and sustain the idea that differences exist. Objectively, no differences appear between these two periods that can explain personality stability.

Consequently, our results contradicted the developmental theory of personality (Roberts et al. 2006), which claims a “normative functional maturation”. Life transitions, such as parenthood, could increase the level of psychological maturation. Personality traits, then, would develop in a positive way. In addition, positive family experiences would be associated with changes in personality traits, particularly increases in Agreeableness, Conscientiousness, and Emotional Stability. This inconsistency of results can be explained by two processes. The first one relates to the characteristics of the sample. Hence, if during pregnancy, prospective parents are already agreeable, conscientious and stable, there is little likelihood of observing increases at 6 months postpartum. Indeed, our results showed that pregnant parents tend to be more agreeable and emotionally stable than childless adults. The second process refers to the potential moment of change. If change is presumed to occur, perhaps it appears when people decide on becoming parents, for instance during the conception period or during pregnancy. During pregnancy, prospective parents begin to sort through issues and to make and modify
plans for the future birth, baby and parenthood (Galinsky 1981). They are preparing for a change in their life. Perhaps change appears during this period of projection of the future.

With regard to emotional competencies, our results have not shown any differences between pregnancy and 6 months postpartum, as with personality. Emotional competencies are indeed viewed as a single framework that contains all affect-related aspects of personality (Petrides and Furnham 2001). Consequently, it is not surprising that these results are similar to those for personality. In addition, the explanation of a social construction of the transition to parenthood (LaRossa and Sinha 2006) is also available for emotional competencies.

However, the transition to parenthood mainly affects the emotional field. In fact, the transitional effects that do appear are those such as profound joy, baby blues or anxiety associated to breastfeeding rather than deep changes of general emotional regulation or emotional well-being. So, how can we explain that emotions appear during this life event without modifying emotional competencies? The first explanation is related to the notion of meta-emotion (Pons et al. 2002) which consists of two parts: (a) the individual’s comprehension of the nature, the causes, the consequences and the possibility of managing one’s emotions and (b) the individual’s consciousness of one’s emotions. On the one hand, when parents feel strong emotions such as joy or anxiety, there is in fact an absence of meta-emotion. Its feeling is directly associated to the situation. On the other hand, emotional competencies are related to meta-emotion: individuals show or not competencies that allow them understanding, utilizing or managing one’s and others’ emotions. The second explanation is about the notion of acquisition. One the one hand, the emotions felt by parents have not been the subject of acquisition. On the other hand, individuals must embarke on a process of acquisition to have appropriate emotional competencies. This acquisition takes time. It is perhaps one reason why emotional competencies have not been developed between pregnancy and 6 months postpartum. For both reasons, individuals’ emotions such as joy or
anxiety fluctuate according to life event such as transition to parenthood. On the contrary, emotional competencies are not only related to life event but depend on more complicated process such as meta-emotion and acquisition which explain the stability.

In addition, socioemotional selectivity theory (Carstensen 2006) has shown that emotional regulation increases with age. We hypothesised that transition to parenthood implies a new life stage that conducts to more maturity and then to more emotional regulation. However, it has not been demonstrated. The first explanation is that socioemotional selectivity theory refers rather to a set of life experiences that bring emotional maturity, rather than to a life transition. The second is associated to the time perspective: the transition to parenthood is only measured on a short period of time which does not correspond to a real advance in age.

Our results also related to gender-differences. First, gender-differences in personality and emotional competencies were observed during pregnancy. Women have higher scores on Neuroticism, Extraversion, Agreeableness and Emotionality and a lower score on Self-Control than men, which is congruent with Feingold’s meta-analyses (1994). Three models – biological, sociocultural and biosocial - can explain the proximal causes of sex differences. The biological model (Eysenck 1992) posits that gender-differences in personality reflect innate temperamental differences between the sexes. The sociocultural model (Eagly and Wood 1991) affirms that social and cultural factors directly produce gender-differences in personality traits; a social role model is said to exist which dictates the appropriate behaviours for women and men. Finally, the biosocial model (Feingold 1994) posits that social factors tend to increase inherent gender differences. So, if men and women are initially perceived differently because of observable and innate temperamental sex-differences in behaviours, they also may be treated differently because of stereotypes that result from these inherent differences in behaviour.
Secondly, in this study, mothers and fathers showed different developmental trajectories in emotional competencies. Thus, primiparous mothers’ scores increase and fathers’ scores decrease in Self-Control. Moreover, multiparous mothers’ scores increase and fathers’ scores decrease in Adaptability. Parenthood seems to have a positive effect on mothers’ development in particular, which is in line with social structural theory (Eagly and Wood 1999). This last theory posits that the roles people occupy – whether due to individual choice, sociocultural pressures, or biological potential – lead them to develop psychological qualities and, in turn, behaviours to fit those roles. For instance, mothers’ biological role in childrearing (pregnancy, childbirth and lactation) and cultural expectations of motherhood, place them in a different parenting role than fathers. When transitioning to parenthood, parents adopt these new social roles, experience the event differently and also develop differently. Moreover, the role of motherhood is seen by society as positive and as central to woman’s identity. Parenthood is more significant for women’s self-conception than it is for men’s (Simon 1992). As a result, mothers tend to change positively. Nevertheless, gender-differences in development of personality were not observed like Feingold’s study (1994), which posits that there are few reliable sex differences in the way these traits develop over time. How can we explain that only emotional competencies develop differently for mothers and fathers and not personality? Social and cultural expectations and the mothering biological nature lead mothers to develop more emotional competencies than do men. During the first months of breastfeeding, they have to be sensitive to the infant’s signals and to be more empathic. On the contrary, the new parental bio-social roles do not lead parents to develop specific gender-differences personality traits to meet parental qualities. For instance, it is not necessary that the mothers become more extrovert or less anxious than fathers.

Finally, SES-differences in personality and emotional competencies development have not been observed. Neither educational level associated to cognitive flexibility nor income
level allowing access to parental services and goods, has affected parents’ personality development. Although the transition to parenthood magnifies low SES individuals’ vulnerabilities, it does not cause radical personal change, such as an increase in Neuroticism. It could be explained by a kind of equilibrium between positive (e.g. positive emotions such as joy) and negative (e.g. more financial difficulties) aspects of this life event which lead to the stability of low SES-parents’ personality and emotional competencies. Be that as it may, these results are encouraging: parenthood does not turn out to be deleterious for precarious individuals. In terms of personal development, these results run counter to social determinism, the cycle of disadvantage (Puckering 2004) and the SES-stereotypes. People often tend to have value judgment towards low-SES parents: on top of having financial and educational problems, they tend to have many children and to be early parents. They would add a burden. These results allow moderating this stereotype by showing that this life event does not affect negatively their personal development.

**Limits**

Three limits have been observed. First, only two data collections were completed. These allow observation only of short-term personality changes. Second, childless couples are younger than parents. Given that the transition to parenthood is a normative event, it affects a subgroup of individuals within some age-range. Thus, childless people are often younger. Third, there are more primiparous parents than multiparous ones. This does not allow comparison of the two groups.

Our future research will take into account and overcome these limits with the objective of examining long-term personality changes, comparing subgroups of same age-range parents and childless adults and contrasting primiparous and multiparous parents’ development.
References


Cantor, N., 1990. From thought to behavior: “Having” and “doing” in the study of personality and cognition. American Psychologist, 45, 735 – 750.


Mikolajczak, M., Luminet, O., Leroy, C., and Roy, E., 2007. Psychometric properties of the Trait Emotional Intelligence Questionnaire: Factor structure, reliability, construct, and


Table 1

*Descriptive of educational level*

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<tr>
<td>Childless adults</td>
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<tr>
<td>Total</td>
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Table 2

*Descriptive of family incomes*

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Table 3

Correlations between personality and emotional competencies (Time1 and Time2)

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<td>.28***</td>
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<td>.39***</td>
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<td>.10*</td>
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*p < .05; **p < .01; ***p < .001
### Table 4

**Descriptive data**

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