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Statistical Package for Social Sciences, SPSS 17.0 statistics (SPSS Inc,  
IBM, USA),

DoseEstimate v.5.

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0 Gy).

( $p < 0.001$ ),

0 Gy,

(3 Gy).

0 Gy (90%),

0 / 1000

(MDA)

(AOPP) - (SOD) (CAT),

MDA (0.75 Gy) SOD (0 Gy) (0.75 Gy)

AOPP (0.75) MDA (1.5) (3)



( , 2016)  
 CBMN , Fenech (2007).  
 ” “ –  
 ( . 2014),  
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 ,  
 ,  
 30.45 ± 10.43 , (Fenech  
 . 1994; Fenech 1998; Fenech 2011; Jones 2012; Hando . 1994; Battershill  
 . 2008)  
 ,  
 .  
 / (Fenech 2011;  
 Bonassi .; Donmez-Altuntas 2012)  
 30 , ,  
 - (Bonassi . 2011).  
 (IAEA 2010; IAEA WHO 2011). ,  
 ( D+R) 60-  
 .  
 ( ,  
 ),  
 – ” “(IAEA 2010; IAEA WHO 2011; Silva-Barbosa  
 . 2005).  
 -  
 ,  
 1.5 Gy, 3 Gy

(IAEA 2010; IAEA WHO 2011; Lehnert 2007).

/ 1000 ( 90% 0  
) , -  
0 Gy

„background value“) (IAEA 2010; IAEA WHO 2011).

- ( )  
(IAEA, WHO,  
2011; Fenech, 2007; Fenech . 2011; IAEA, 2001)

0 - 40 1000  
(IAEA, WHO, 2011) ( 0-15 1000 ,  
8.31 ± 3.88) ( . 2016). ,  
( . 2014; . 2016; Antunes . 2014;  
Müller . 2001) -

( . 2014; . 2016;  
Antunes . 2014; Müller . 2001).

(Bolzán . 1997; Lee . 2007; Lipecka . 1984; Winterbourn .  
1975; Ceballos-Picot . 1992; Bolza'n . 1993; Larramendy . 1983; Bolza'n

. 1993),  
(IAEA 2010; IAEA  
WHO 2011).

(Lipecka  
. 1984). (Lipecka . 1984)  
SOD  
(Ceballos-Picot . 1992; Bolza'n . 1993).  
(Bolza'n . 1997; Lee . 2007; Lipecka . 1984;  
Winterbourn . 1975; Ceballos-Picot . 1992; Bolza'n . 1993; Larramendy  
. 1983; Bolza'n . 1993). MDA  
(Janero . 1990),  
(  
): (Janero .  
1990; Meagher . 2000; Nightingale . 2001),  
(Alessio 1993; Sanchez-Quessada 1995; Vargas 2013) .

(Borras . 2005; Vina . 2005).  
AOPP (0.75) MDA (1.5) (3)  
(Altunta . 2002; Isik  
. 2007; Chávez . 2007),  
(Lykkesfeldt 2007).



(Lykkesfeldt . 2003; Lykkesfeldt . 1996; Lykkesfeldt . 2005; Lykkesfeldt . 2006; Poulsen . 1998).

(Lykkesfeldt . 2000; Dietrich 2003).

*in vivo* (Lykkesfeldt . 2000). , MDA

(Lykkesfeldt . 2000).

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(30 56)

(25 56)

(Lykkesfeldt . 2000; Stark 1991; Fukai . 2011; Halliwell . 2004).

(Halliwell . 2004; England . 2000).

(Halliwell . 2004; England . 2000).

(Halliwell . 2004; England . 2000).

*in vitro*

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1. **Pajic J, Rakic B, Rovcanin B, Jovicic D, Novakovic I, Milovanovic A, Pajic V.** *Inter-individual variability in the response of human peripheral blood lymphocytes to ionizing radiation: comparison of the dicentric and micronucleus assays* *Radiation and Environmental Biophysics* 2015; 54 (3) : 317-325
2. **Pajic J, Rakic B, Jovicic D, Milovanovic A.** *Construction of dose response calibration curves for dicentrics and micronuclei for X radiation in a Serbian population.* *Mutation research/Genetic toxicology and environmental mutagenesis* 2014; 773 : 23-28.

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