

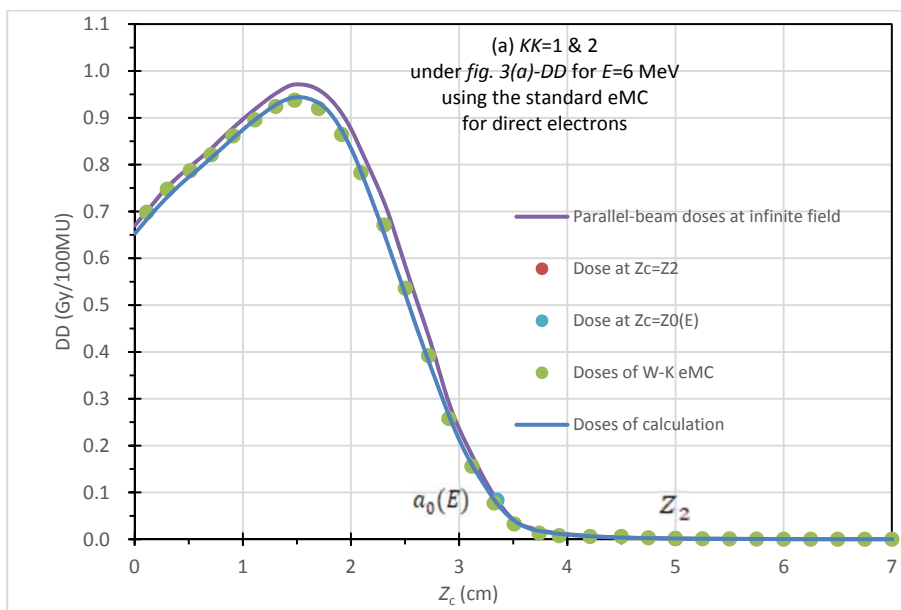
Supplementary material

Consideration for a revised Gaussian-pencil-beam-model reported for calculation of the in-water dose caused by clinical electron-beam irradiation

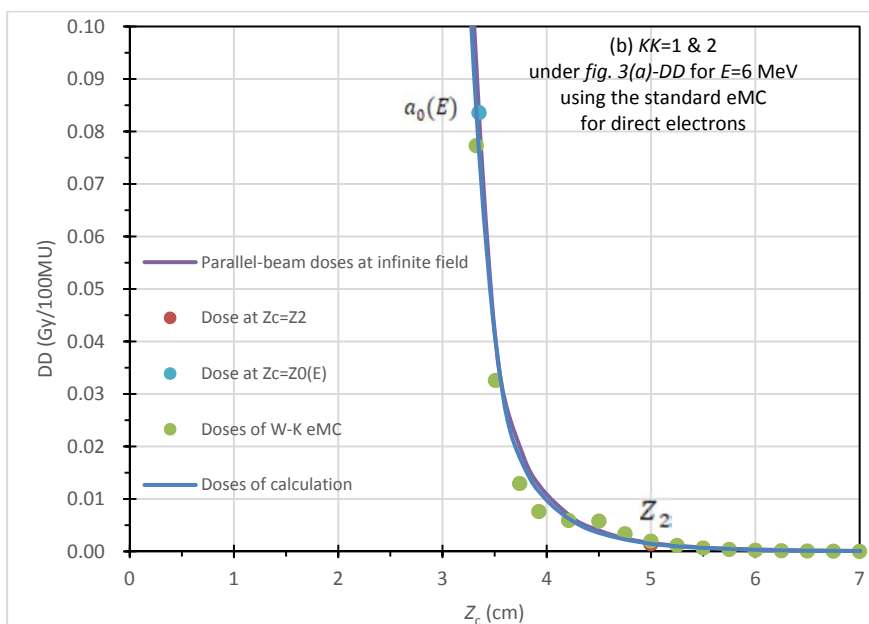
Akira Iwasaki, Shingo Terashima, Shigenobu Kimura, Kohji Sutoh, Kazuo Kamimura, Yoichiro Hosokawa and Masanori Miyazawa

<http://dx.doi.org/10.14312/2399-8172.2024-2>

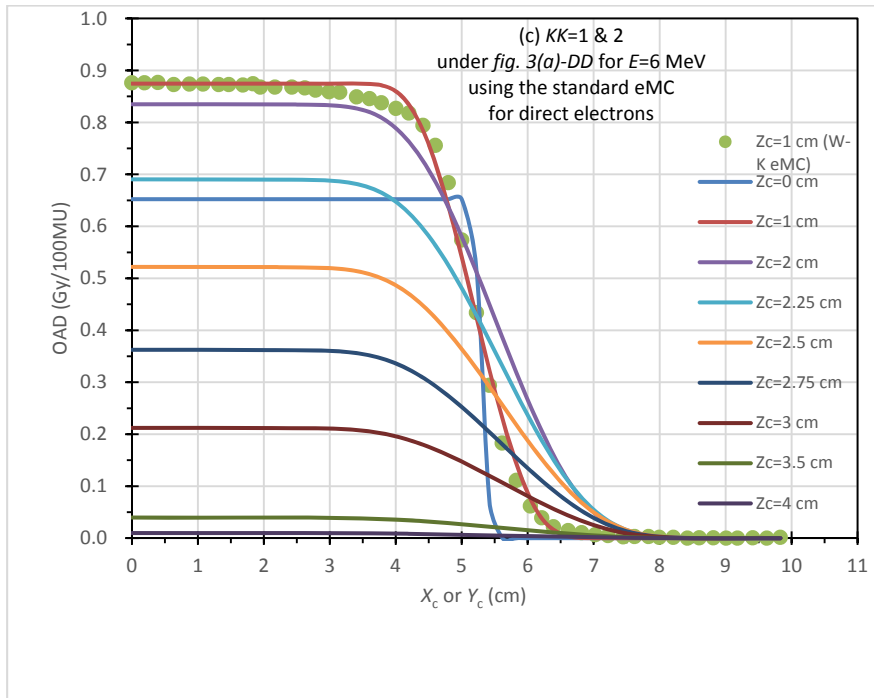
Supplementary Figures (Supp. Fig.):- Start Supp. Fig. no. from 3 to 14.



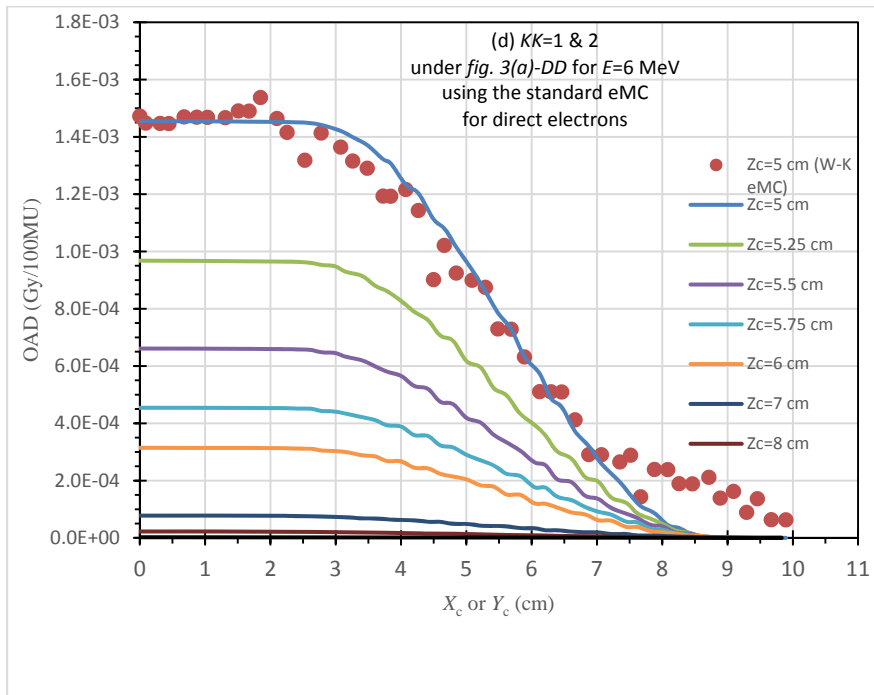
(a)



(b)

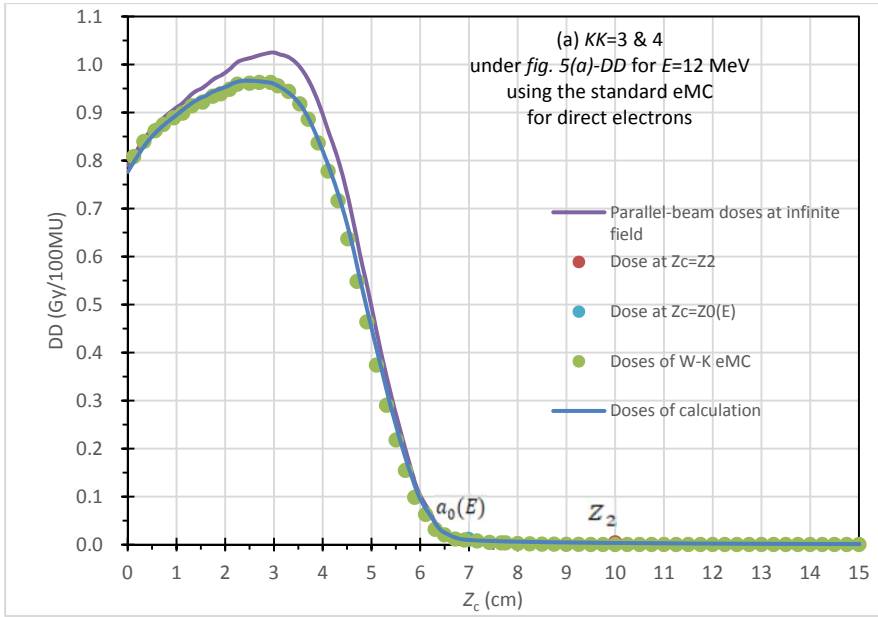


(c)

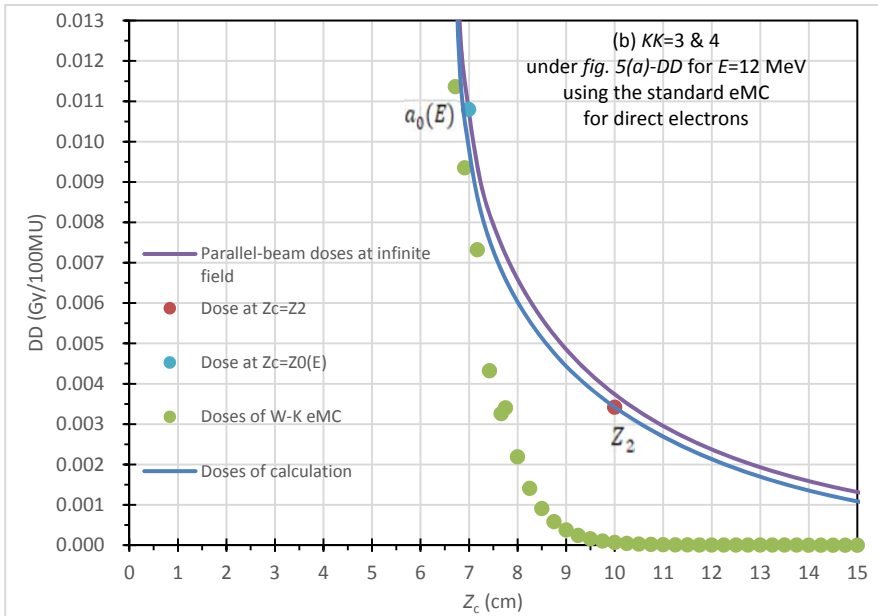


(d)

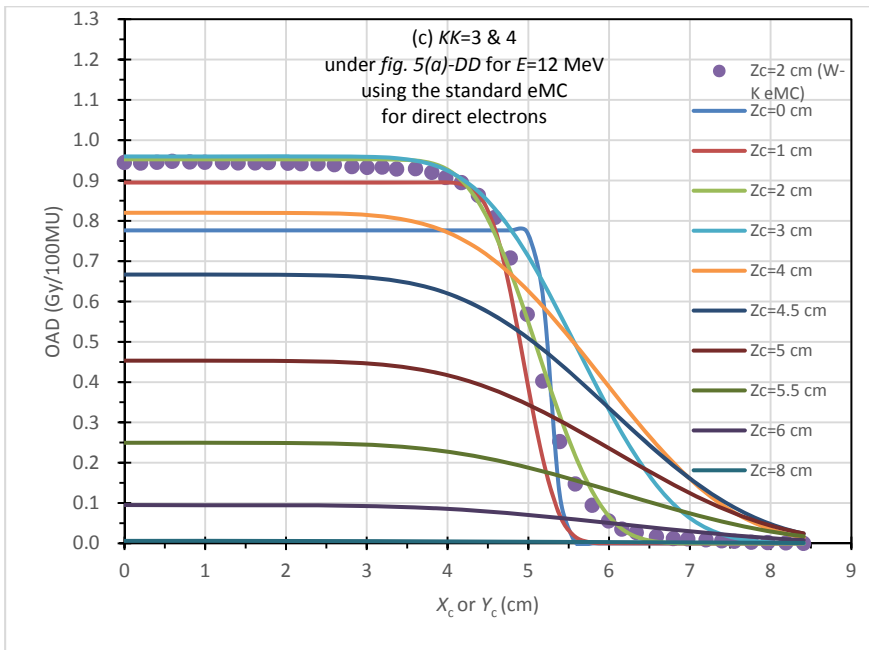
Supp. Fig. 3 DD or OAD datasets due to the direct electron beams for each of (a-d) with respect to $KK=1$ and 2 ($E=6$ MeV), where the dotted mark set expresses the DD or OAD dataset yielded directly using the standard eMC, copied from the W-K eMC dose datasets.



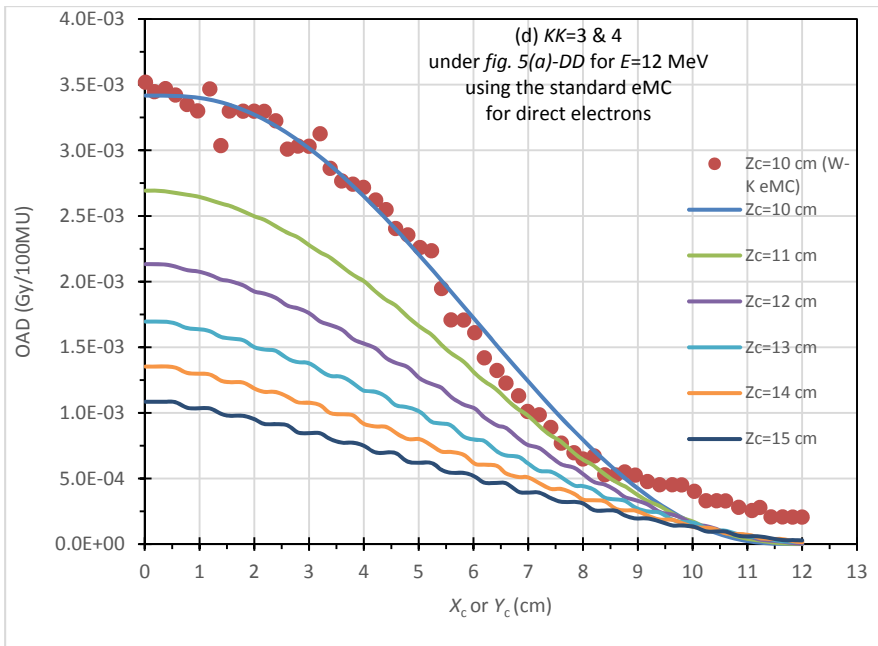
(a)



(b)

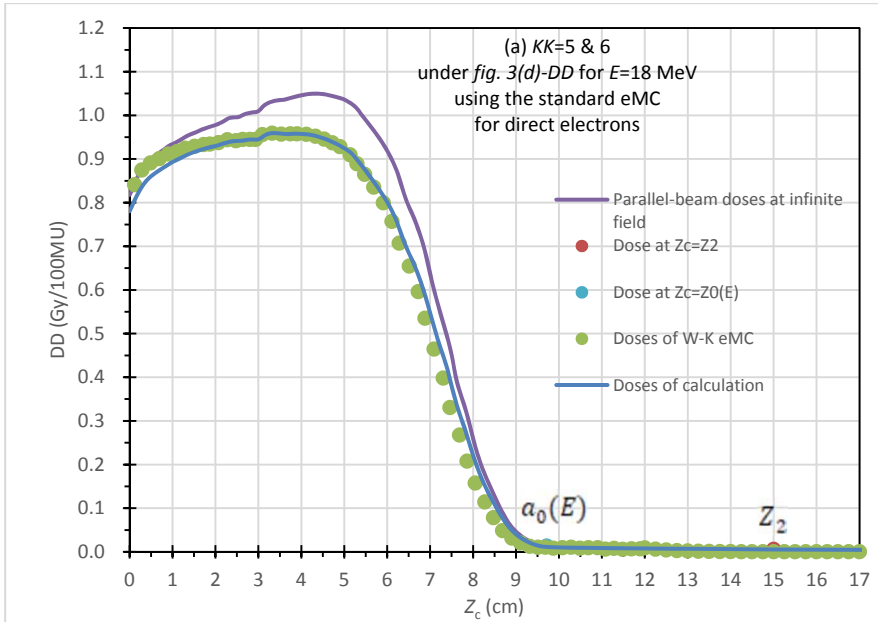


(c)

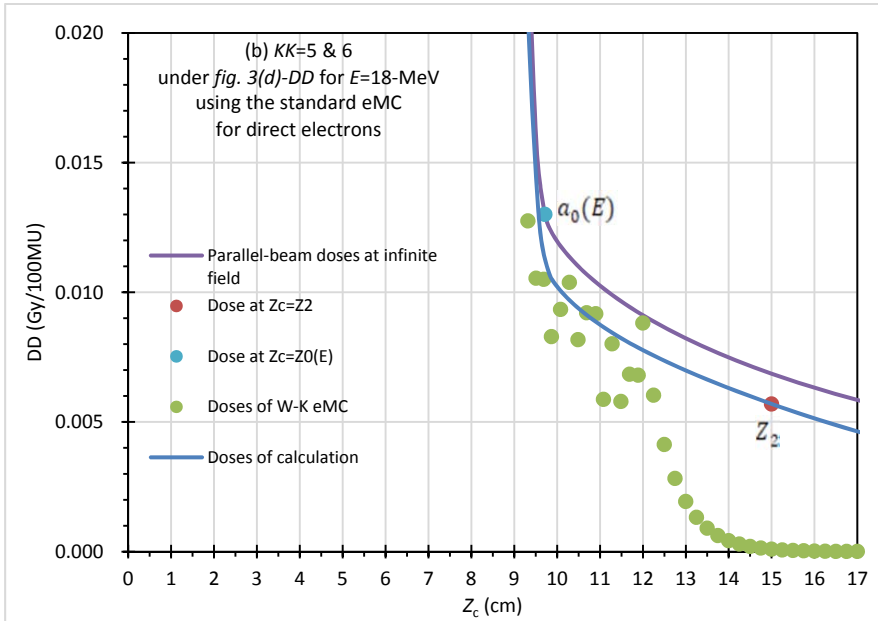


(d)

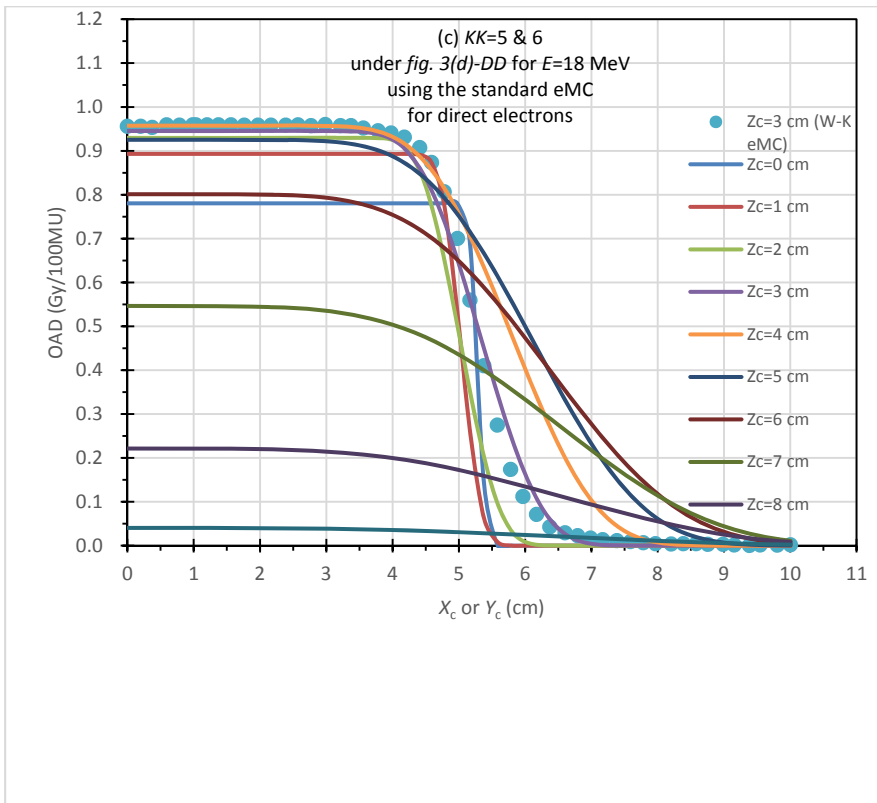
Supp. Fig. 4 DD or OAD datasets due to the direct electron beams for each of (a-d) with respect to $KK=3$ and 4 ($E=12$ MeV), where the dotted mark set expresses the DD or OAD dataset yielded directly using the standard eMC, copied from the W-K eMC dose datasets.



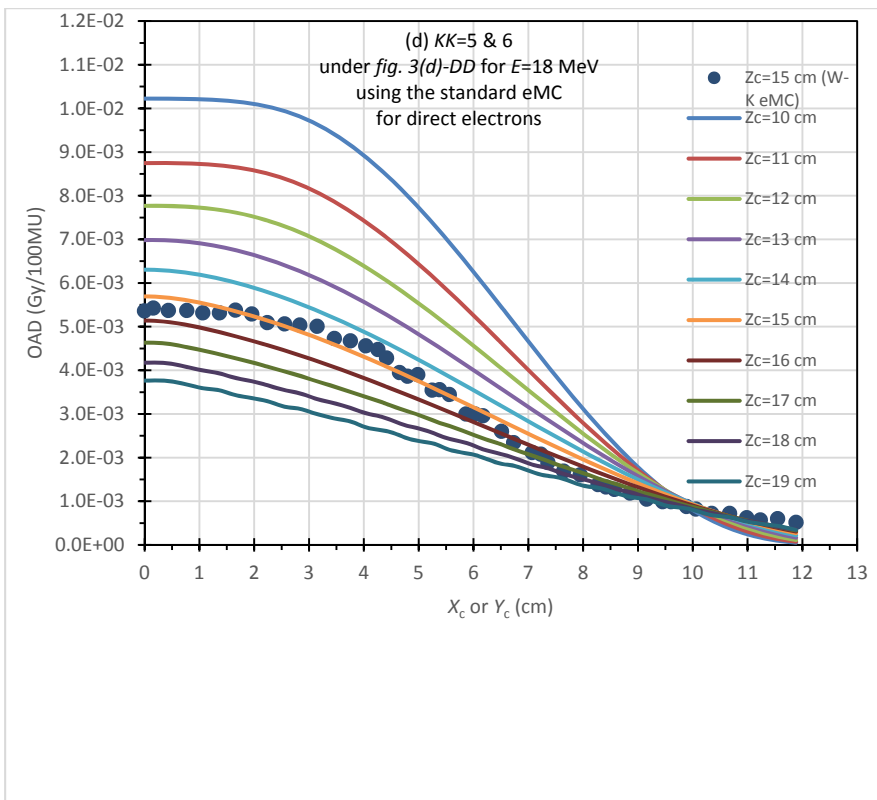
(a)



(b)

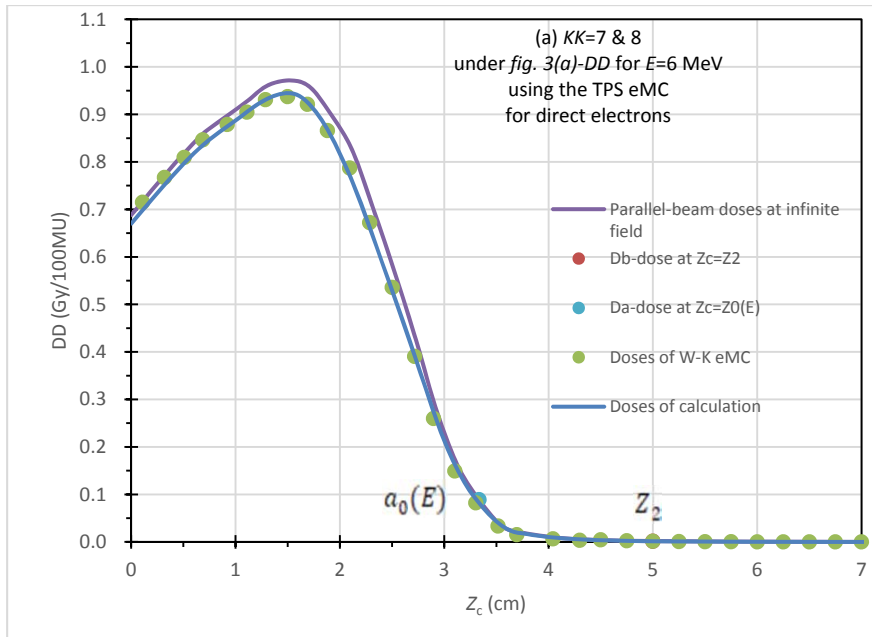


(c)

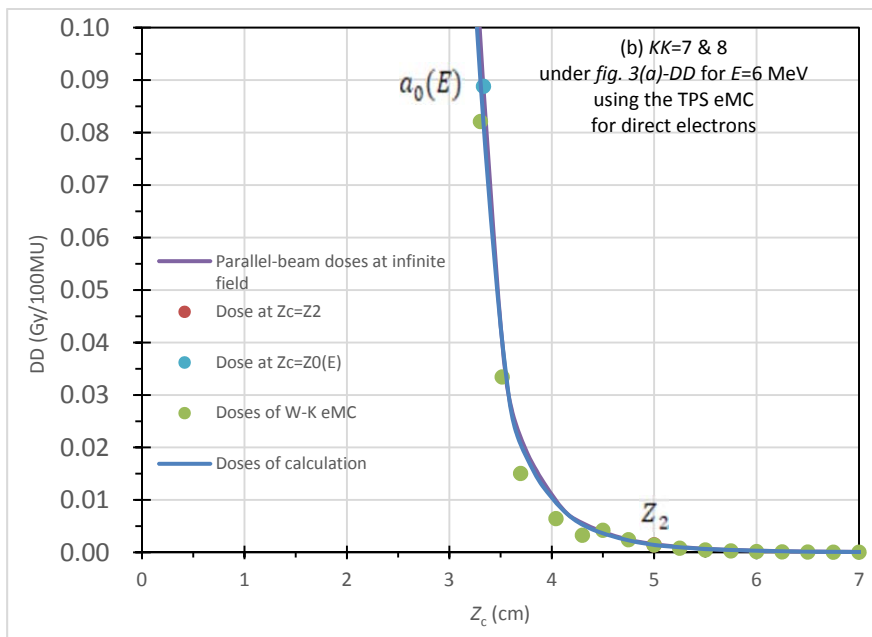


(d)

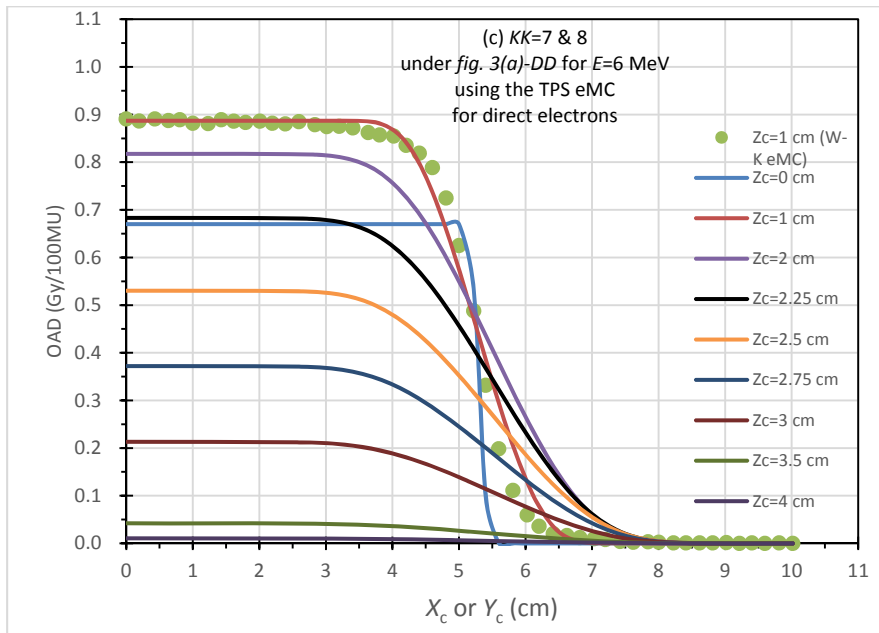
Supp. Fig. 5 DD or OAD datasets due to the direct electron beams for each of (a-d) with respect to $KK=5$ and 6 ($E=18$ MeV), where the dotted mark set expresses the DD or OAD dataset yielded directly using the standard eMC, copied from the W-K eMC dose datasets.



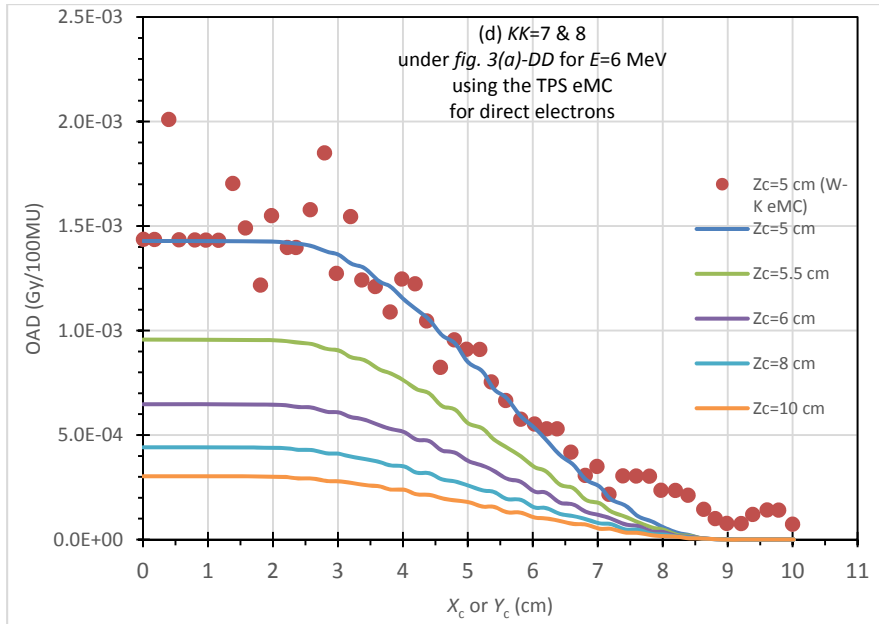
(a)



(b)

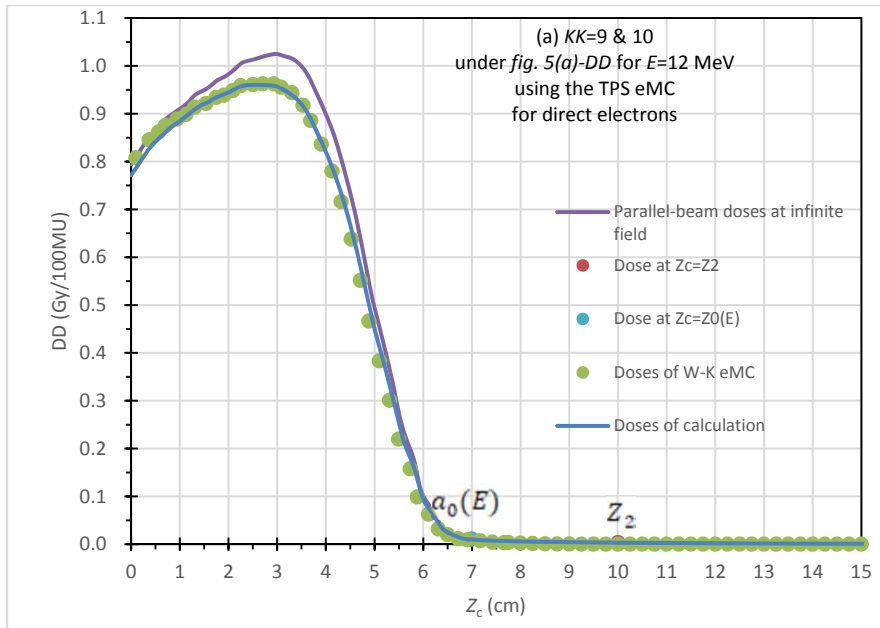


(c)

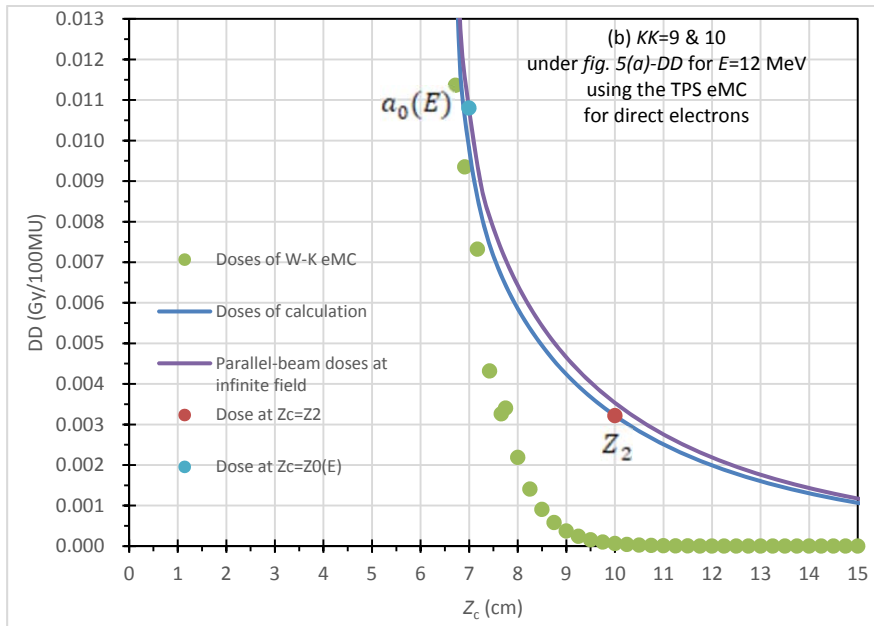


(d)

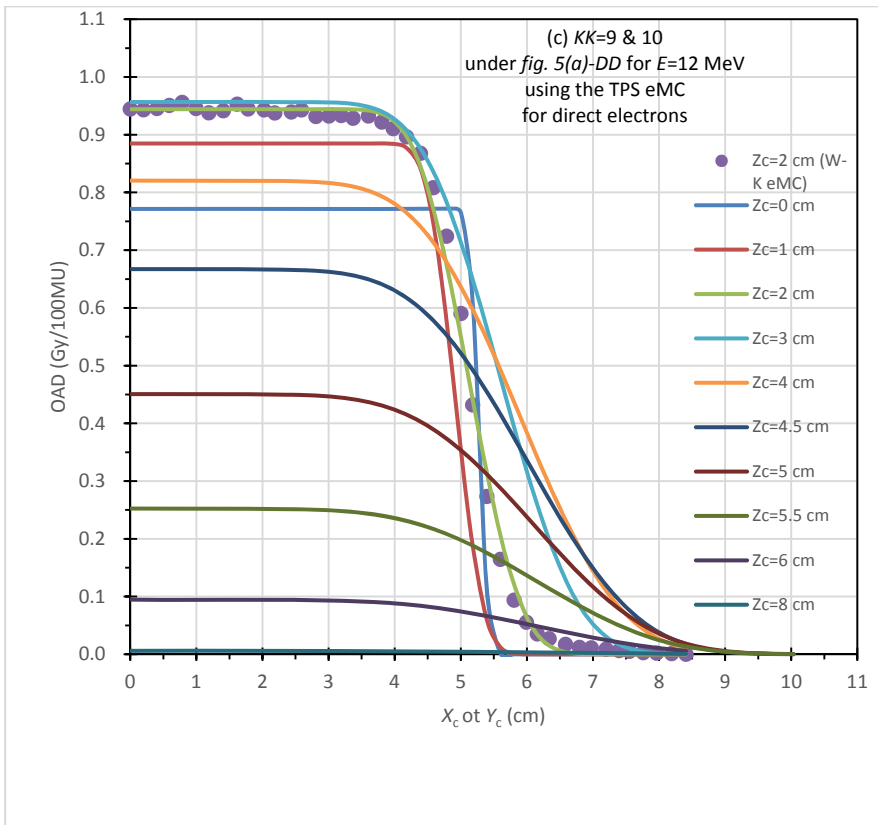
Supp. Fig. 6 DD or OAD datasets due to the direct electron beams for each of (a-d) with respect to $KK=7$ and 8 ($E=6$ MeV), where the dotted mark set expresses the DD or OAD dataset yielded directly using the TPS eMC, copied from the W-K eMC dose datasets.



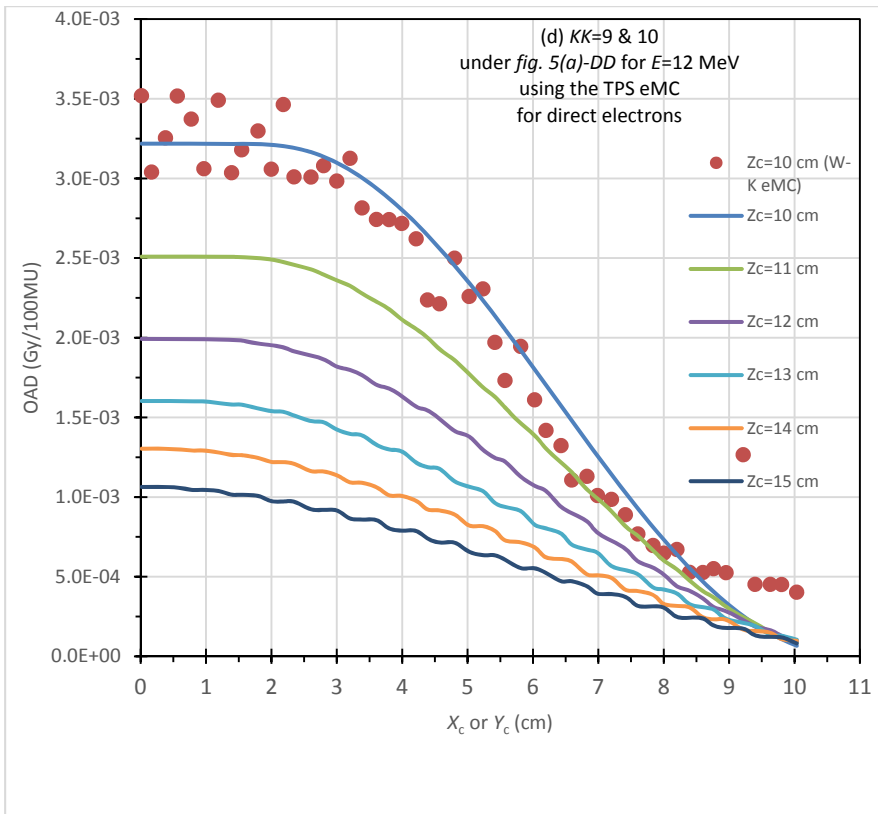
(a)



(b)

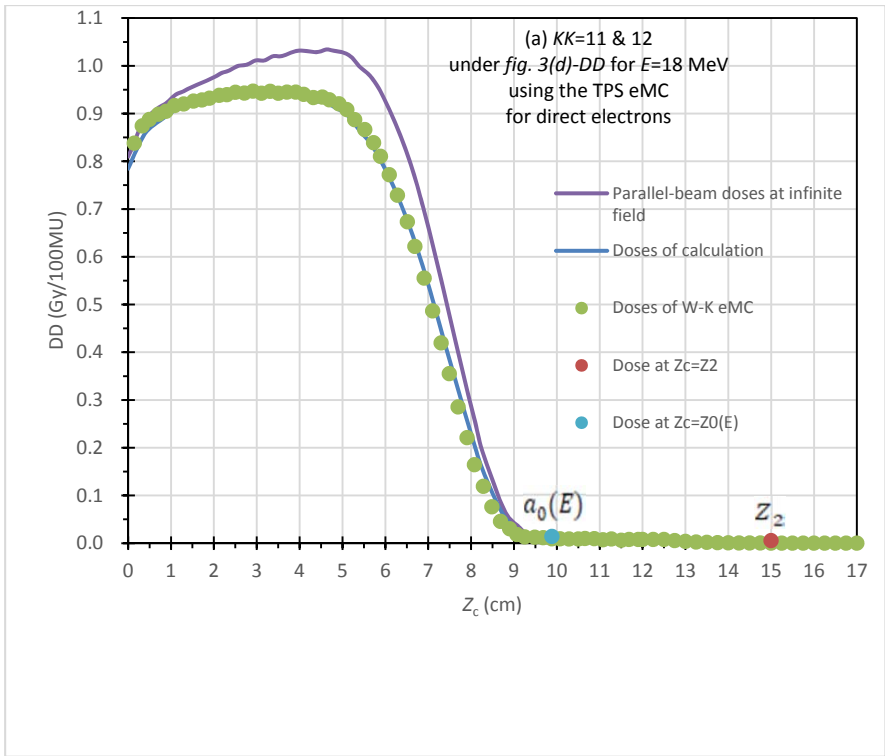


(c)

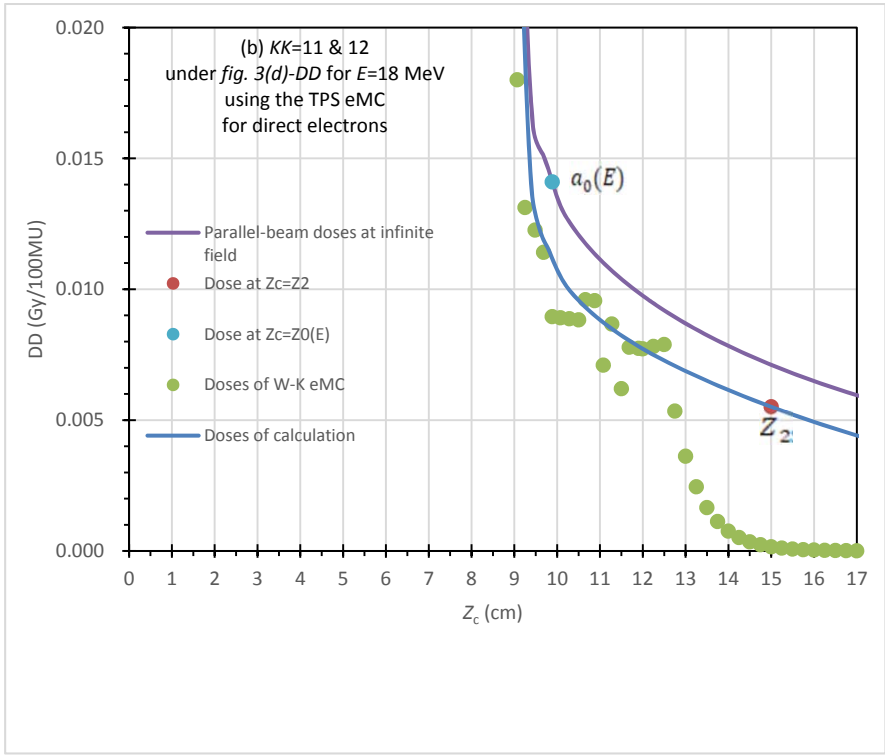


(d)

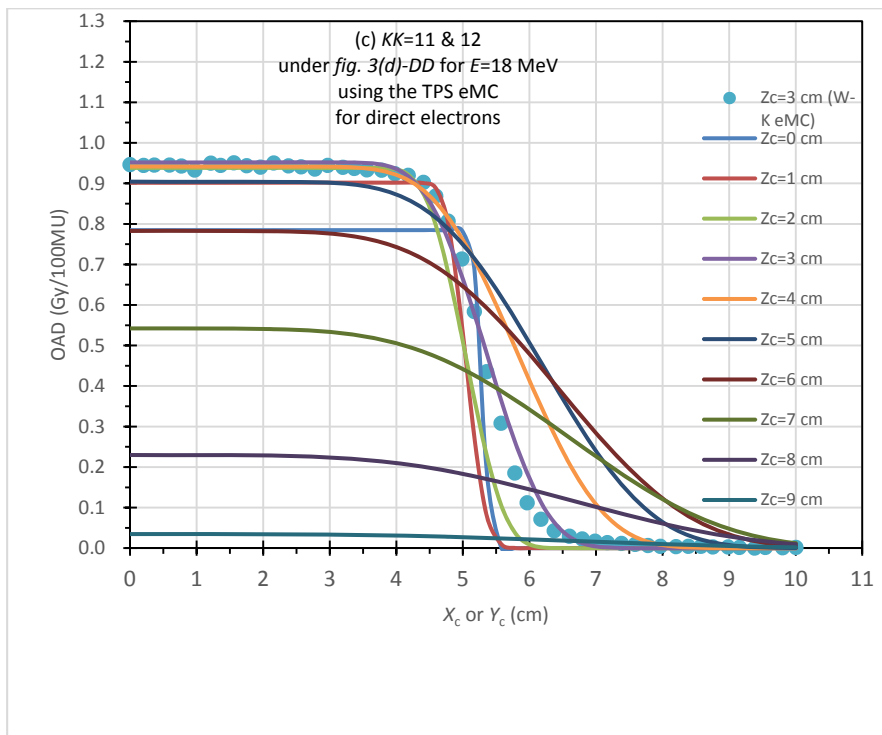
Supp. Fig. 7 DD or OAD datasets due to the direct electron beams for each of (a-d) with respect to $KK=9$ and 10 ($E=12$ MeV), where the dotted mark set expresses the DD or OAD dataset yielded directly using the TPS eMC, copied from the W-K eMC dose datasets.



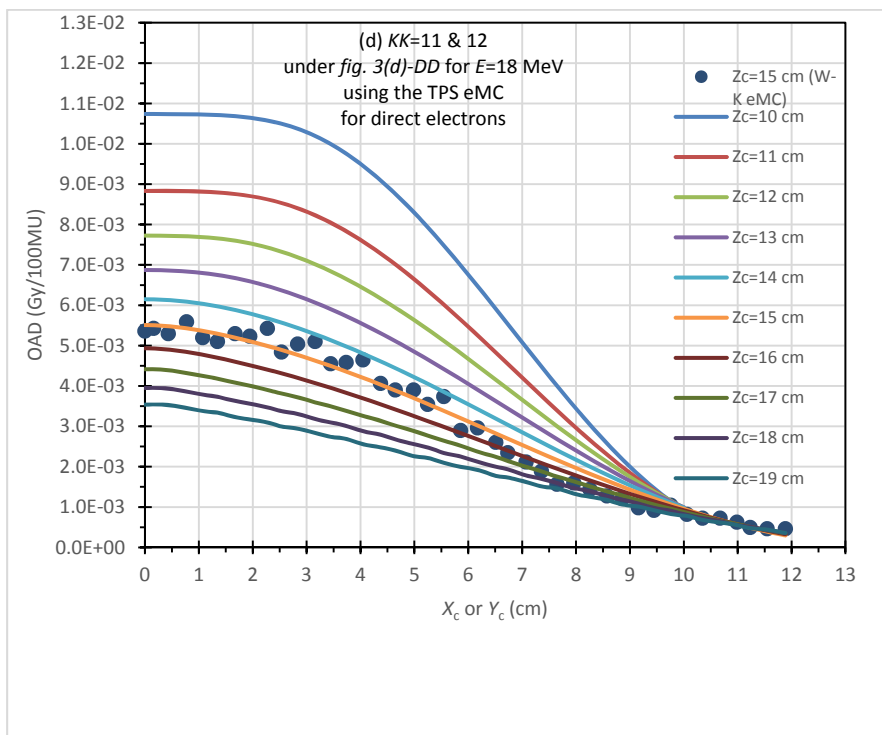
(a)



(b)

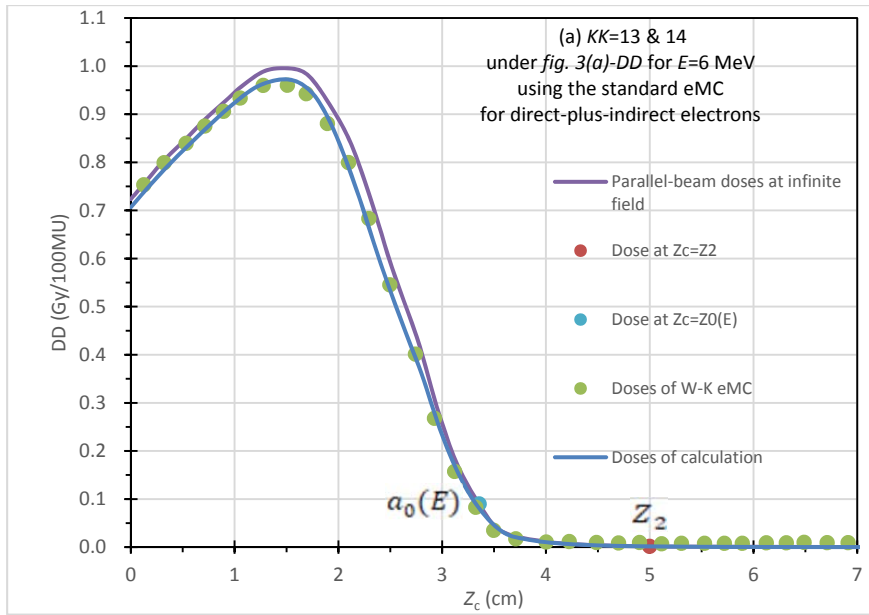


(c)

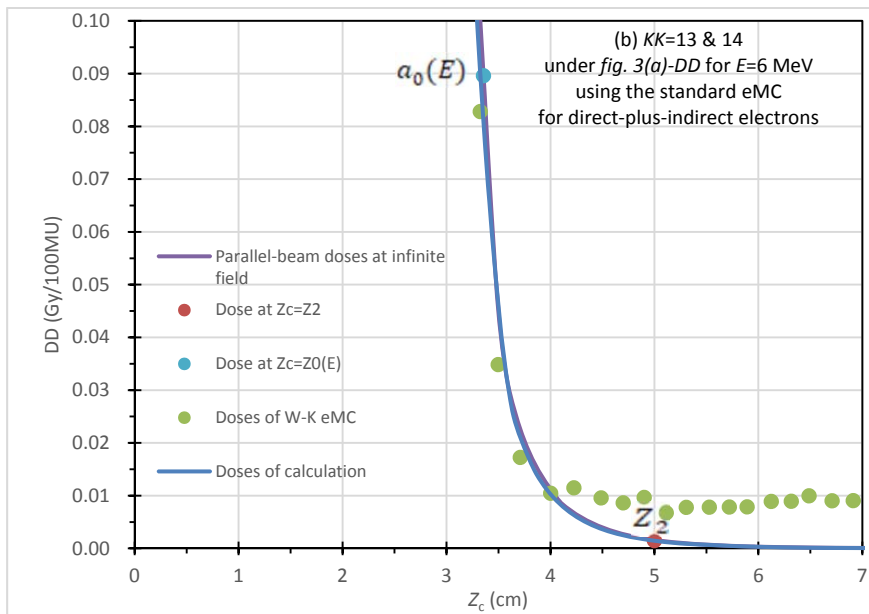


(d)

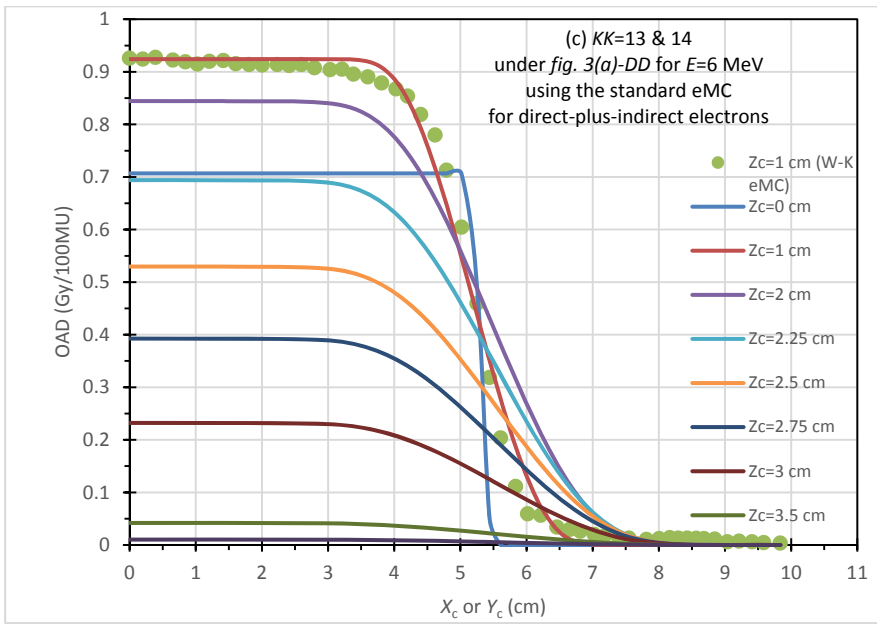
Supp. Fig. 8 DD or OAD datasets due to the direct electron beams for each of (a-d) with respect to $KK=11$ and 12 ($E=18$ MeV), where the dotted mark set expresses the DD or OAD dataset yielded directly using the TPS eMC, copied from the W-K eMC dose datasets.



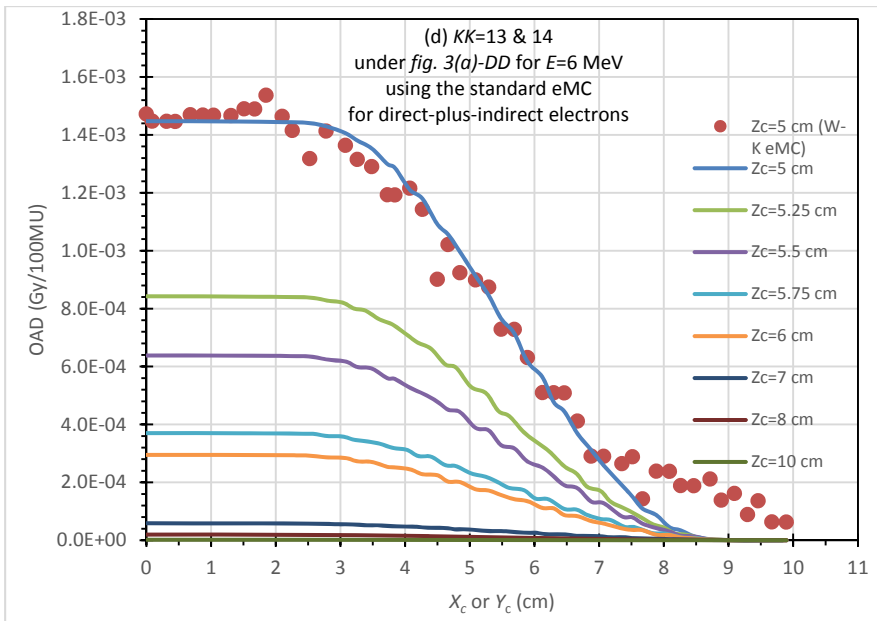
(a)



(b)

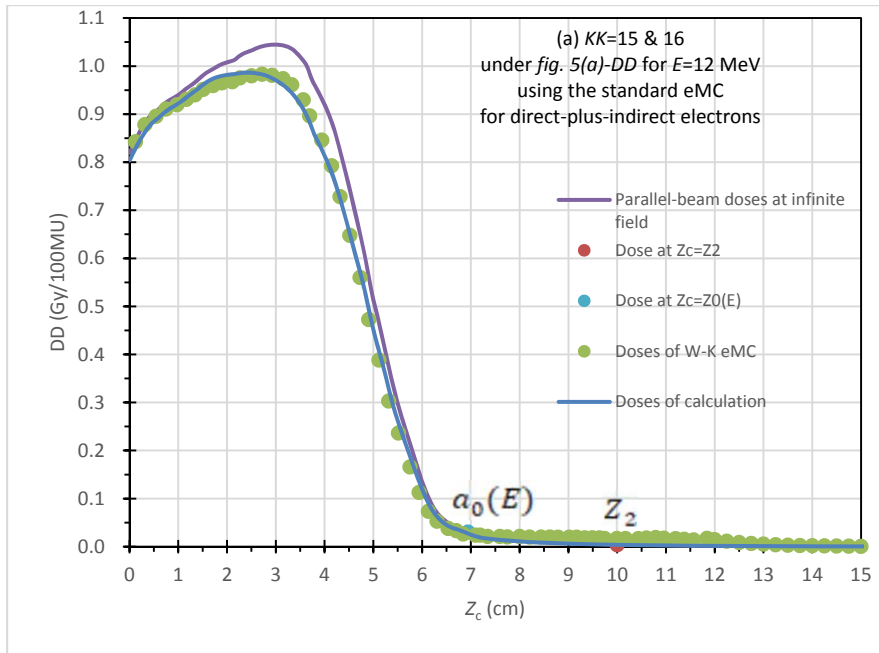


(c)

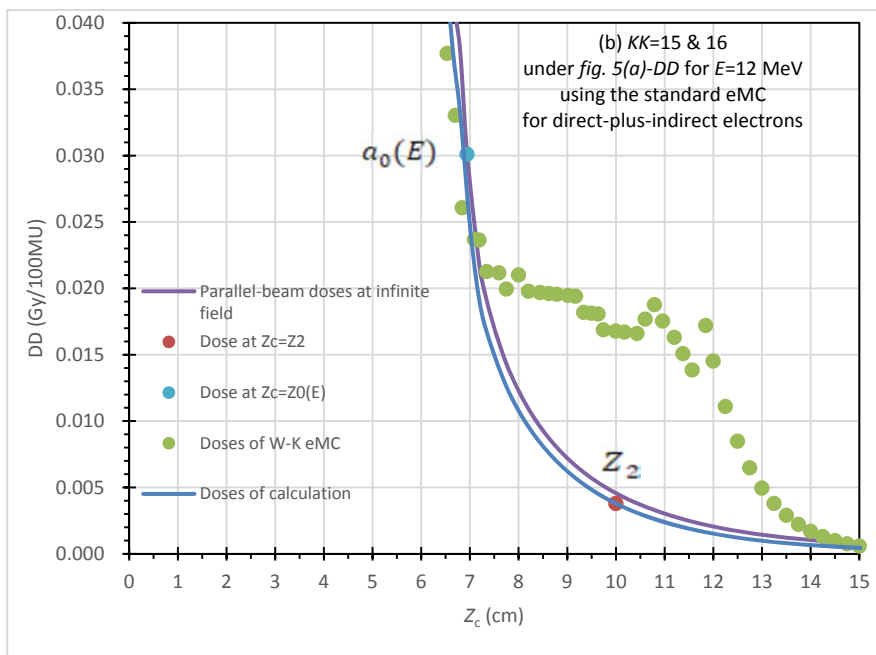


(d)

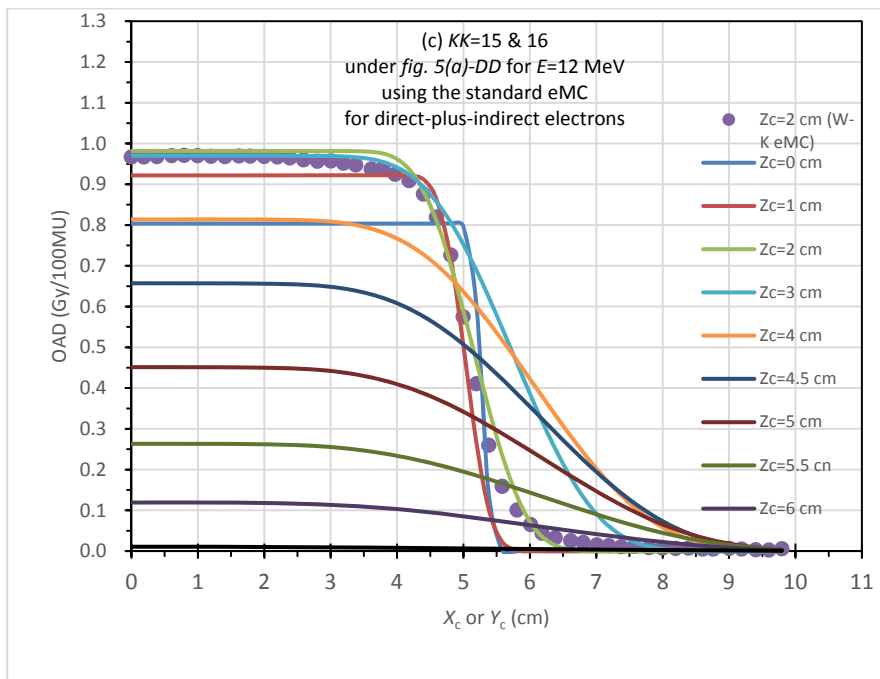
Supp. Fig. 9 DD or OAD datasets due to the direct-plus-indirect electron beams for each of (a-d) with respect to $KK=13$ and 14 ($E=6$ MeV), where the dotted mark set expresses the DD or OAD dataset yielded directly using the standard eMC, copied from the W-K eMC dose datasets.



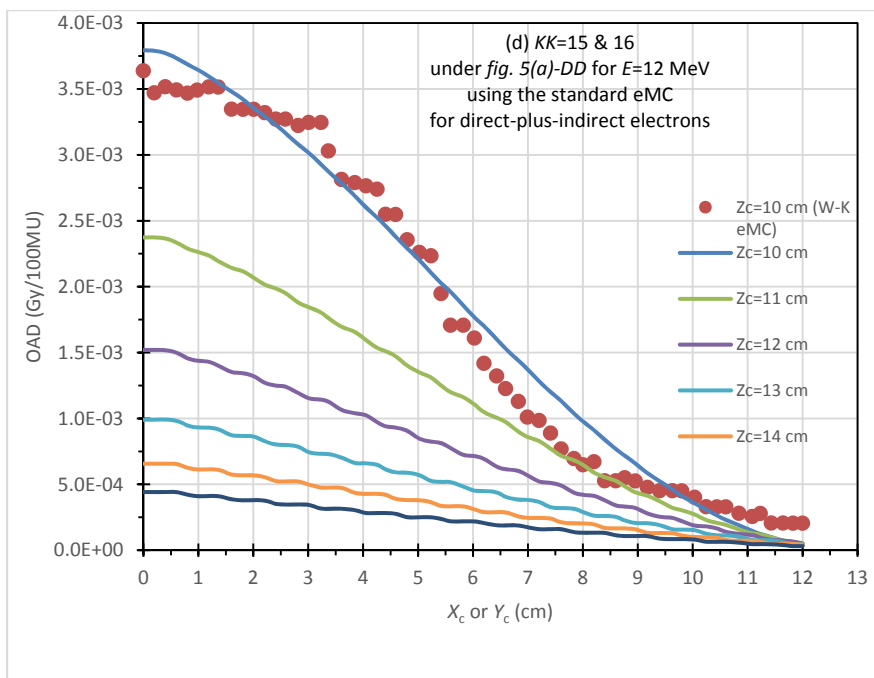
(a)



(b)

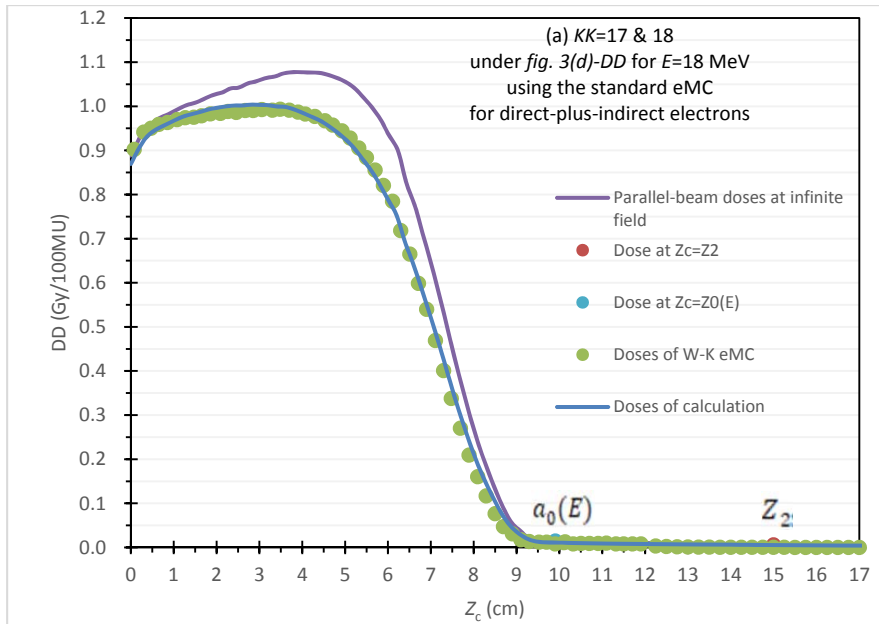


(c)

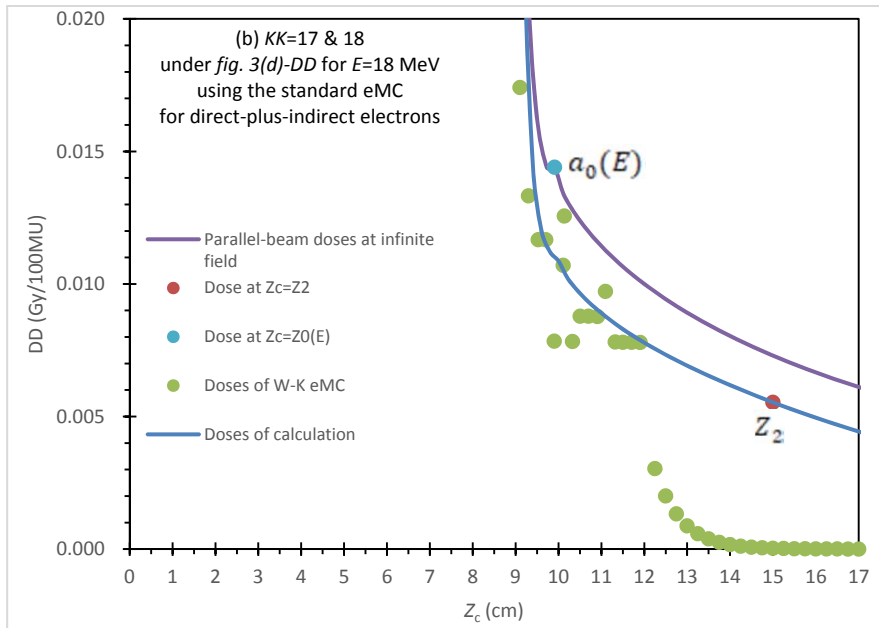


(d)

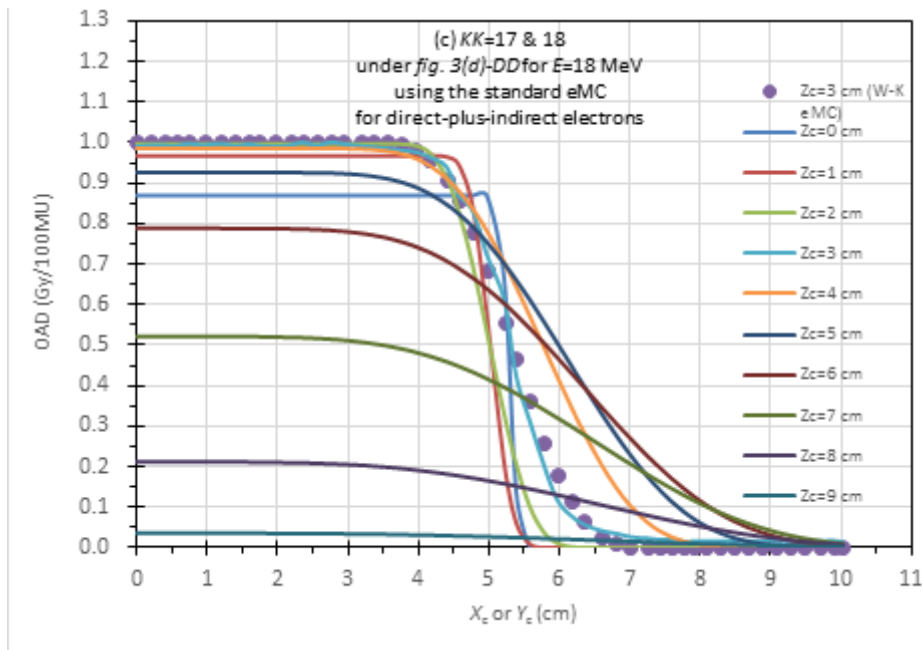
Supp. Fig. 10 DD or OAD datasets due to the direct-plus-indirect electron beams for each of (a-d) with respect to $KK=15$ and 16 ($E=12$ MeV), where the dotted mark set expresses the DD or OAD dataset yielded directly using the standard eMC, copied from the W-K eMC dose datasets.



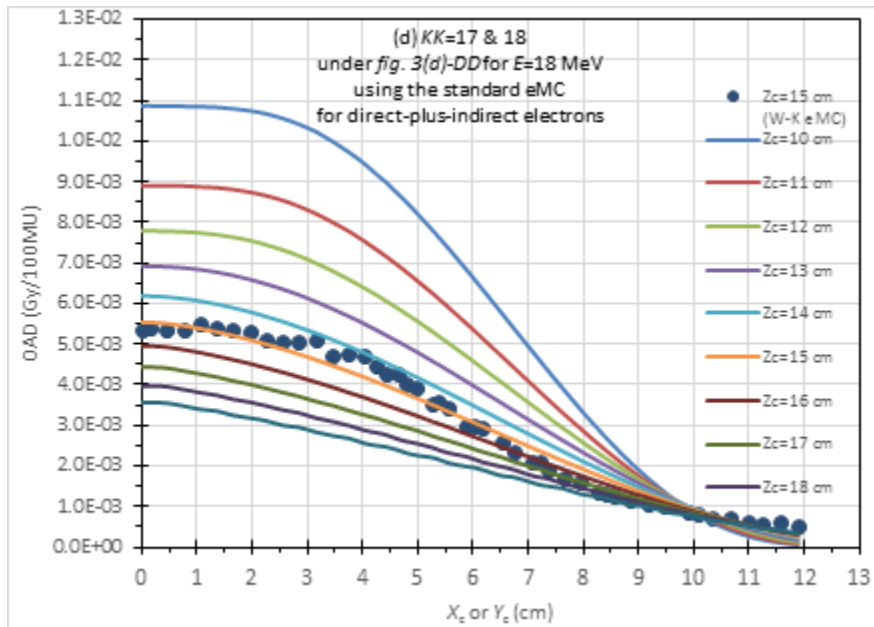
(a)



(b)

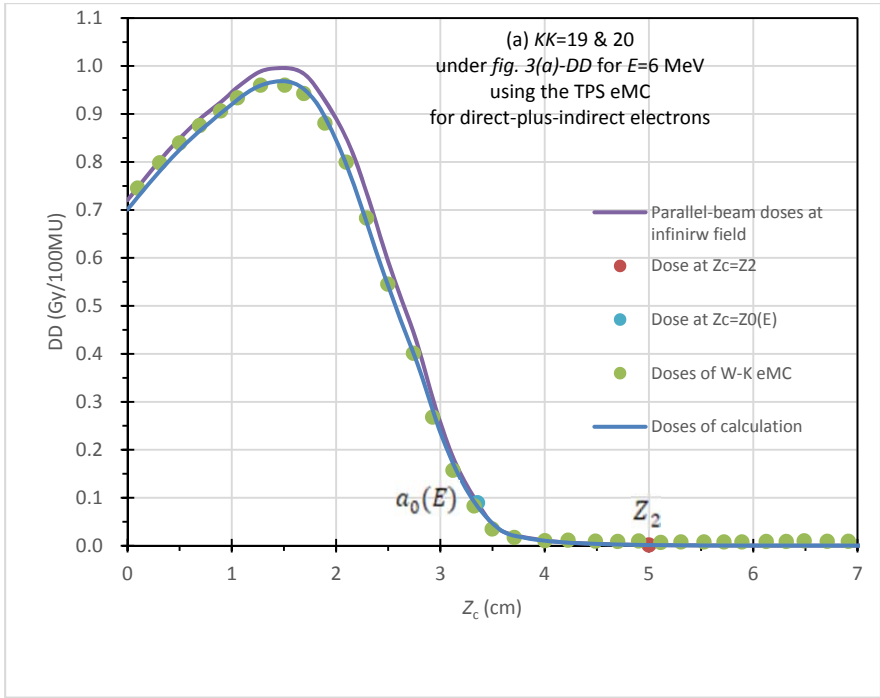


(c)

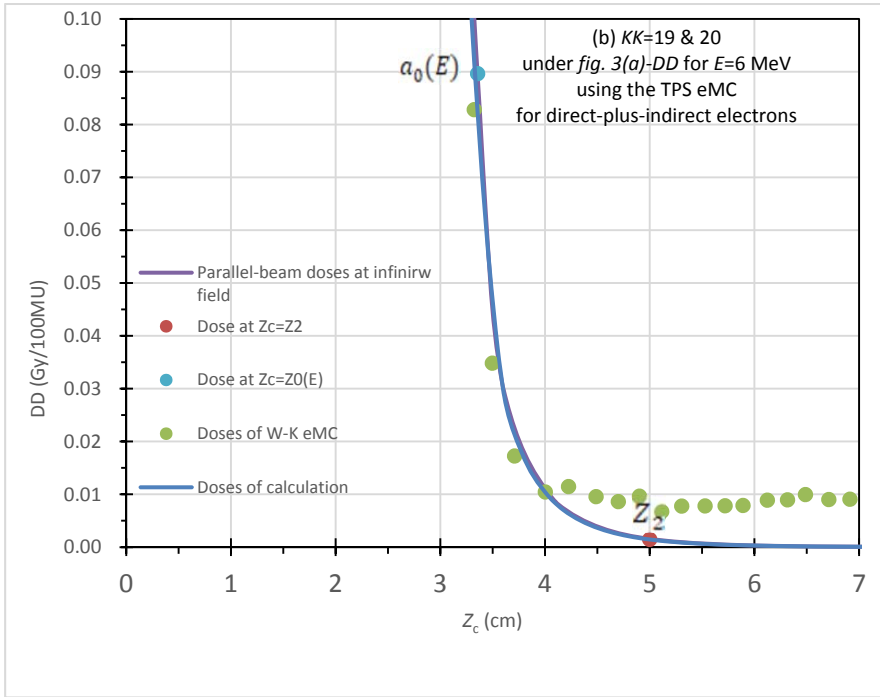


(d)

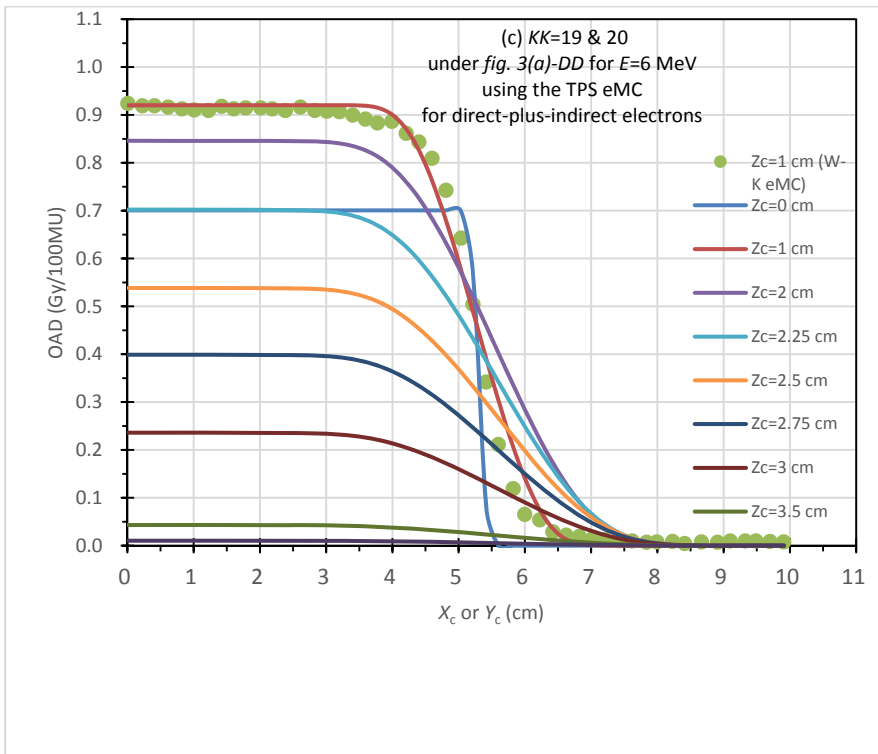
Supp. Fig. 11 DD or OAD datasets due to the direct-plus-indirect electron beams for each of (a-d) with respect to $KK=17$ and 18 ($E=18$ MeV), where the dotted mark set expresses the DD or OAD dataset yielded directly using the standard eMC, copied from the W-K eMC dose datasets.



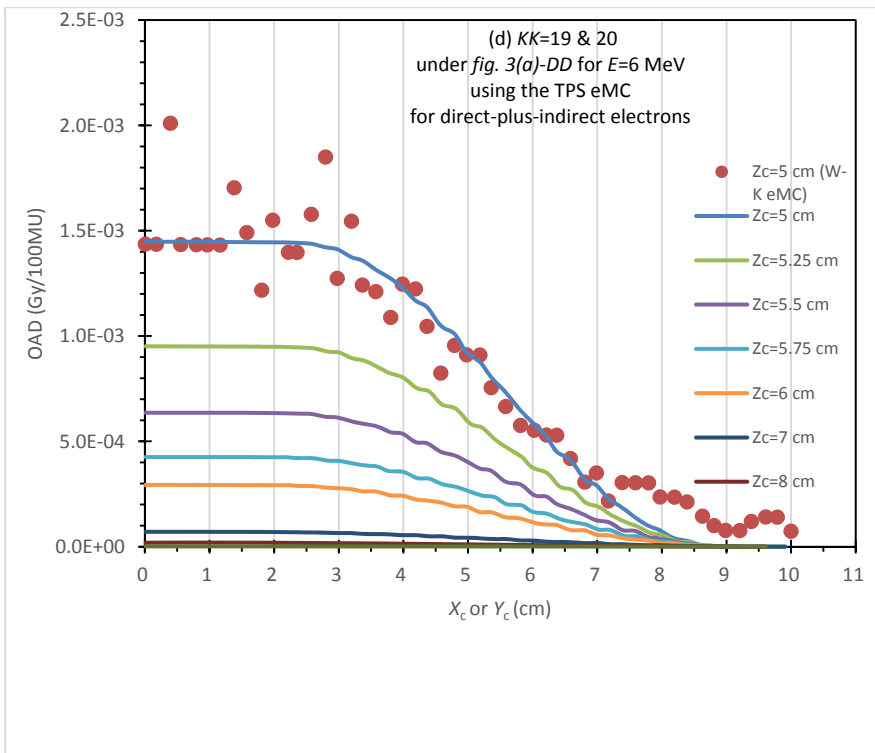
(a)



(b)

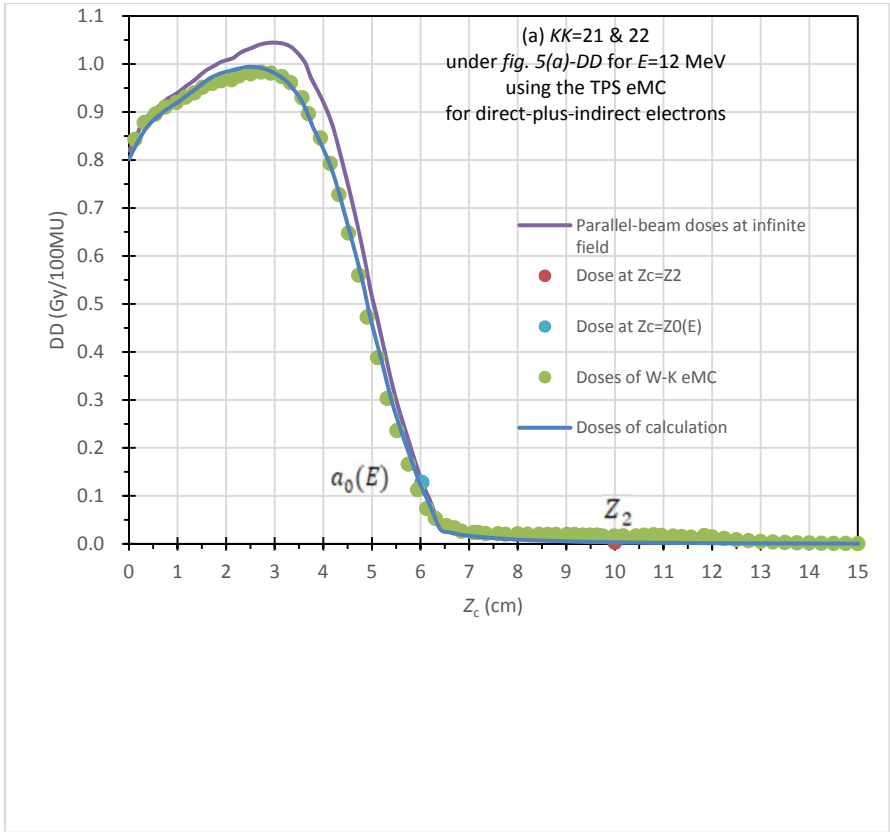


(c)

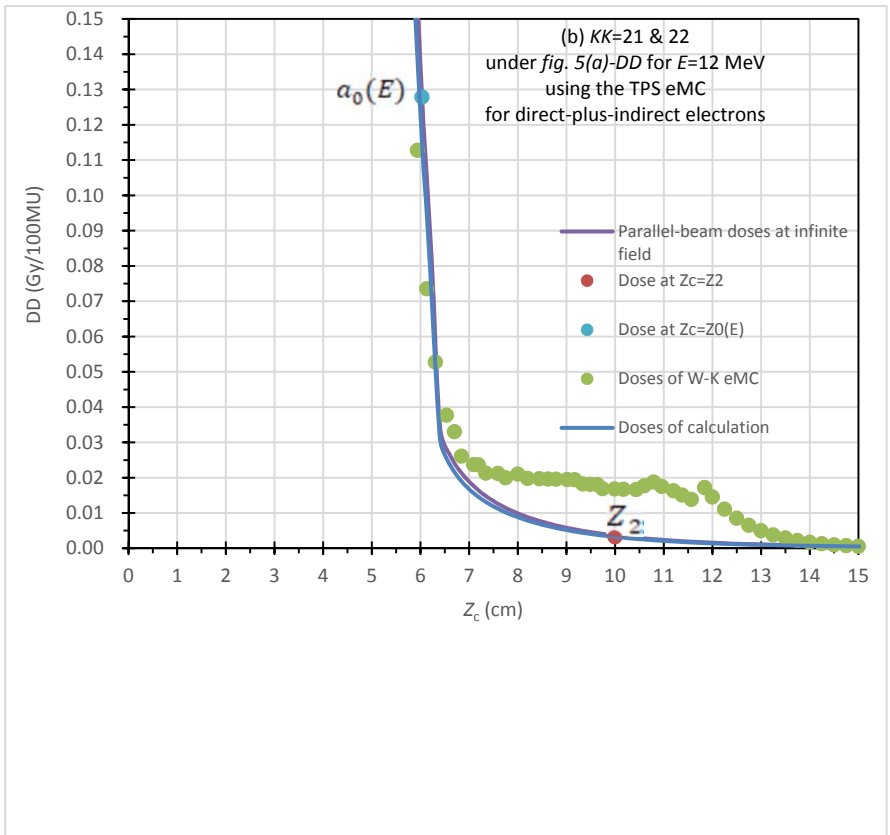


(d)

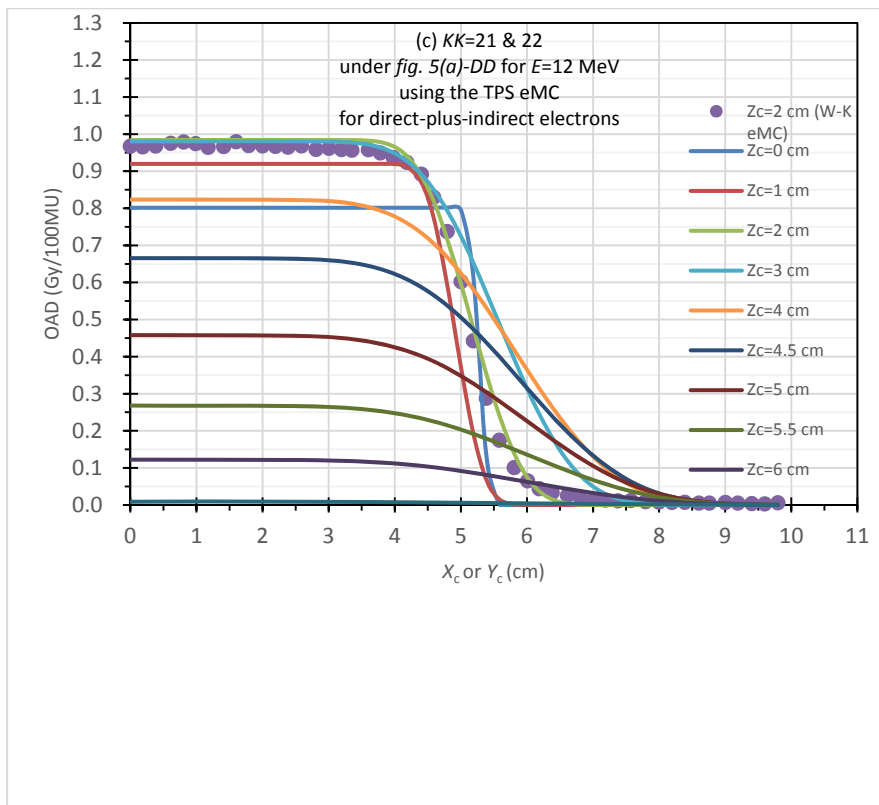
Supp. Fig. 12 DD or OAD datasets due to the direct-plus-indirect electron beams for each of (a-d) with respect to $KK=19$ and 20 ($E=6$ MeV), where the dotted mark set expresses the DD or OAD dataset yielded directly using the TPS eMC, copied from the W-K eMC dose datasets.



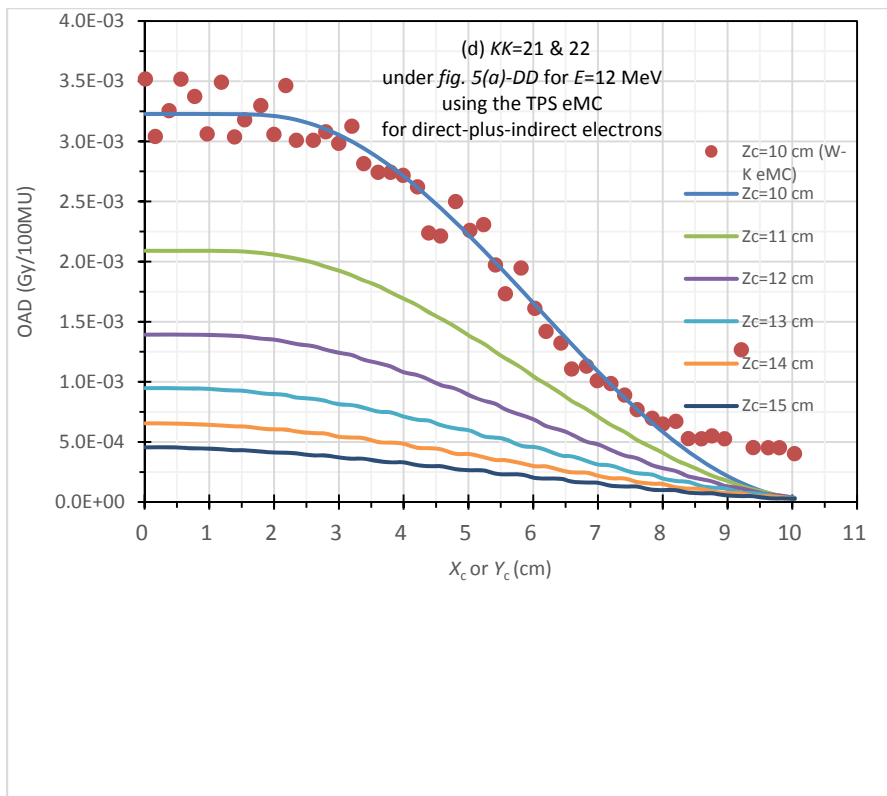
(a)



(b)

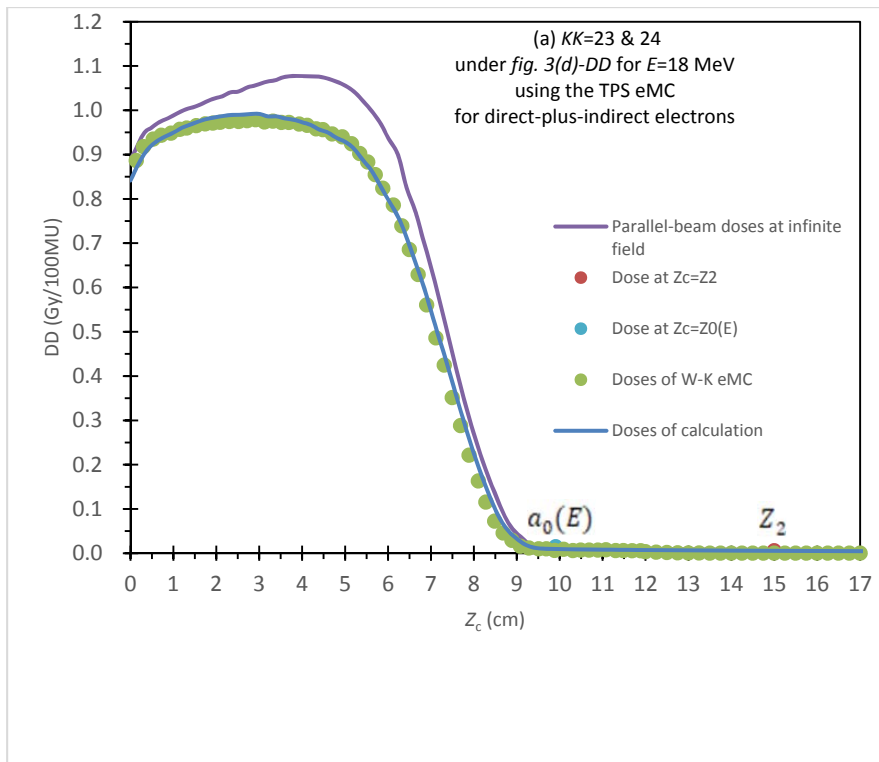


(c)

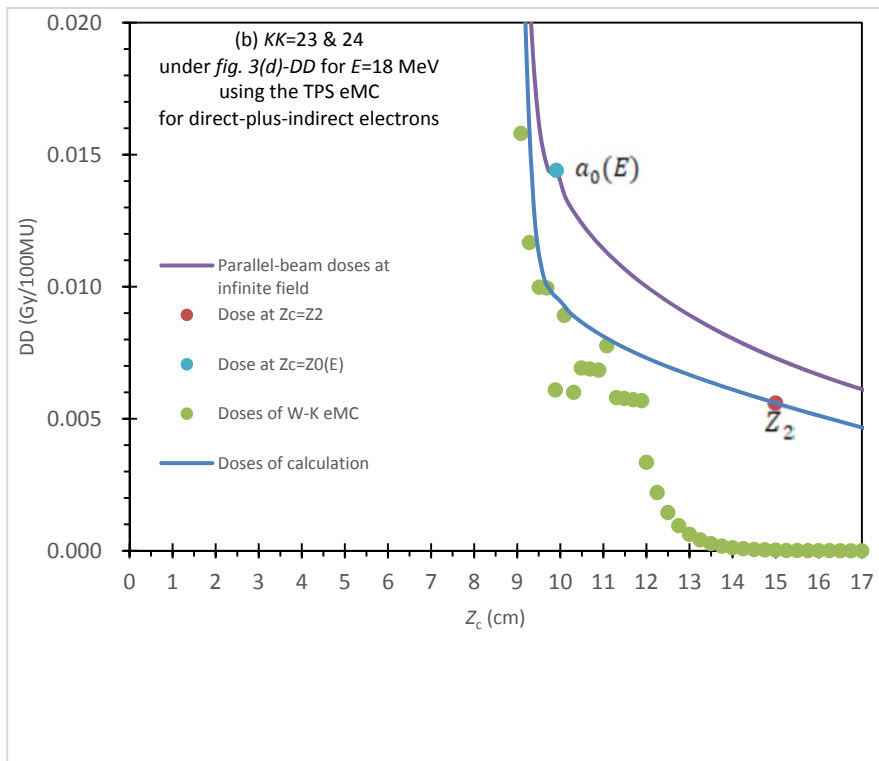


(d)

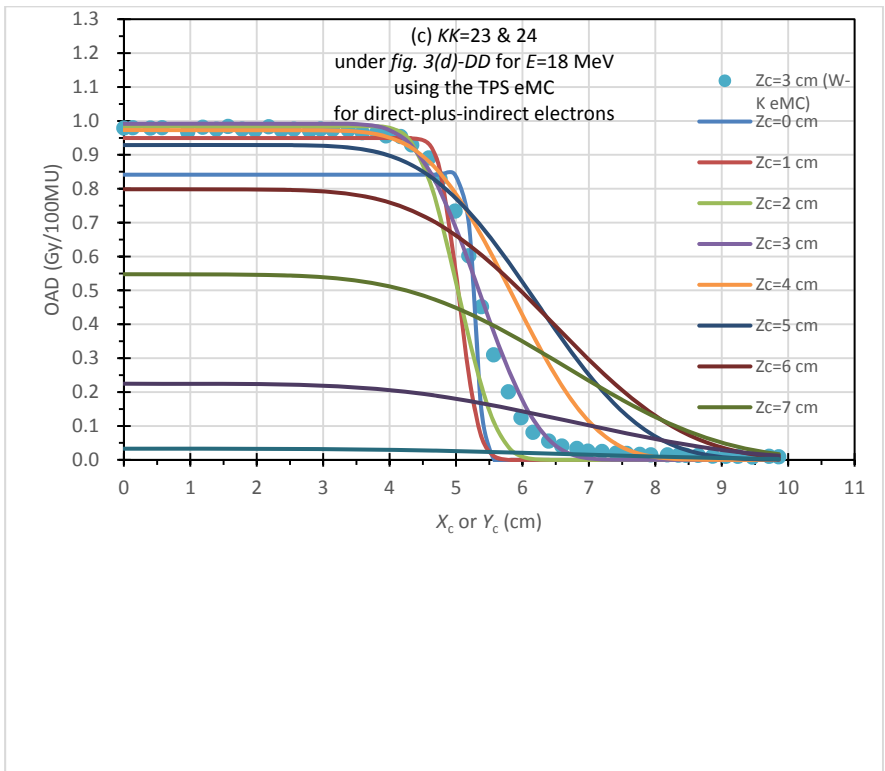
Supp. Fig. 13 DD or OAD datasets due to the direct-plus-indirect electron beams for each of (a-d) with respect to $KK=21$ and 22 ($E=12$ MeV), where the dotted mark set expresses the DD or OAD dataset yielded directly using the TPS eMC, copied from the W-K eMC dose datasets.



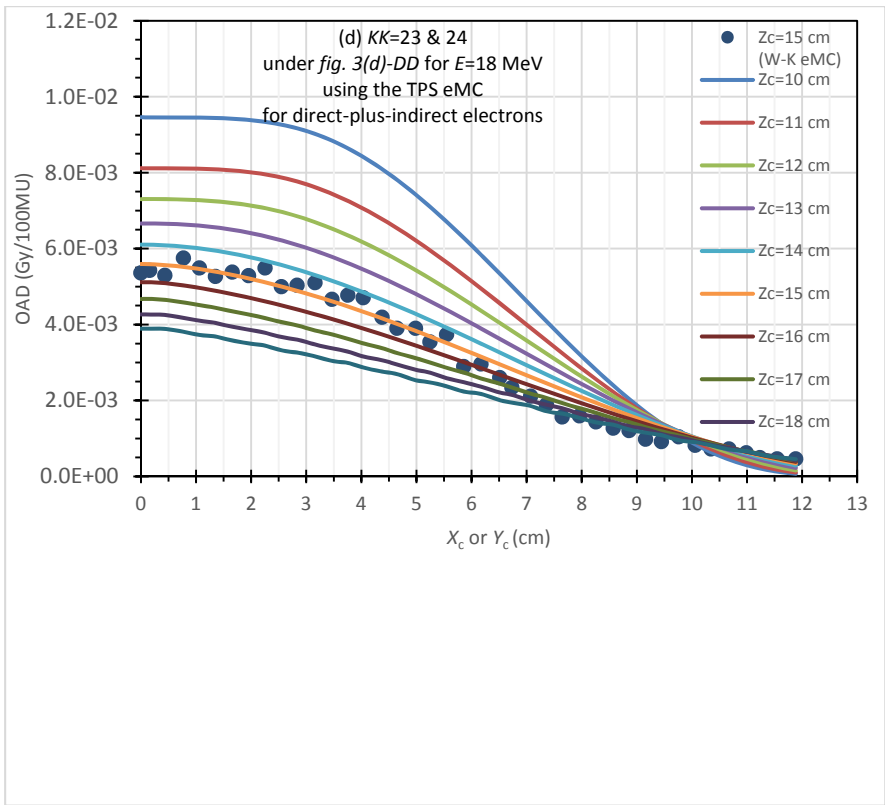
(a)



(b)



(c)



(d)

Supp. Fig. 14 DD or OAD datasets due to the direct-plus-indirect electron beams for each of (a-d) with respect to $KK=23$ and 24 ($E=18$ MeV), where the dotted mark set expresses the DD or OAD dataset yielded directly using the TPS eMC, copied from the W-K eMC dose datasets.