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# Emerging Technologies in Weight Loss: From Wearable Devices to Al-Driven Solutions

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Wi h obe i and eigh - ela ed heal h i, e on he i e globall, he need fo inno a i e eigh lo, a egie ha ne e been g ea e. T adi ional me hod like die ing and e e ci e, ho gh e ec i e, can be di c l o main ain d e o he com le i ie of mode n life le. In ecen ea, echnolog ha e ed in o o e no el ol ion, making eigh managemen mo e acce, ible, e onalized, and e cien. F om ea able de ice ha ack h ical ac i i o AI-d i en a lica ion ha o e ailo ed heal h ad ice, eme ging echnologie a e an fo ming he a eo le a oach eigh lo. [1].

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Wea able de ice, ch a ne, acke, ma a che, and e en ad anced ma clo hing a e among he mo o la ool in mode n eigh managemen. De ice like Fi bi, A le Wa ch, and Ga min ack a io, me ic, ch a e, aken, calo ie b ned, hea a e, and lee ali [2]. B o iding eal- ime feedback, he e ea able enco age, e, o, a ac i e and make heal hie life le choice.

Mo ead anced ea able can moni o bod com o i ion, incl ding fa e cen age, m, cle ma, and h d a ion le el. i g an la da a allo, e, o be e nde, and hei bodie and adj, hei e e ci e and n, i ion habi, acco dingl. F, he mo e, ome de ice in eg a e i h, ma, hone a co c ea e long- e m heal h in igh, and o ide e, onalized ne, lan ba ed on e, hi o ical da a.

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A i cial In elligence (AI) i e ol ionizing eigh lo b o e ing h e - e onalized ol ion ha e e e io l na ainable. AIo e ed la fom e machine lea ning algo i hm o anal ze e da a incl ding die, ac i i le el, and e en gene ic info ma ion o gene a e ailo ed eigh lo lan e e la fom can edic ho indi id al e ond o ce ain die o e e ci e o ine, making i ea ie fo hem o lo e eigh e e ci el [3].

AI al o la ac cial ole in beha io modi ca ion. Fo e am le, a lica ion like Noom e cogni i e-beha io al he a inci le o hel e b ild heal hie habi e e a end eminde ge ha lead o o e ea ing [4]. Addi ionall, AI cha bo can o e eal- ime o and mo i a ion, g iding e h o gh hei eigh lo jo ne i h e onalized ad ice and ecommenda ion.

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Vi al and a gmen ed eali echnologie a e al o making hei a in o he eigh lo, ind ... VR-ba ed o ko og am c ea e imme i e en i onmen, ha make e e ci ing mo e enjo able. U e, can a ici a e in i al ne, cla, e, e lo e cenic ail hile nning on a eadmill, o e en com e e i h f iend in eal-ime, all f om he comfo of hei home [5]. A gmen ed eali , on he o he hand, can be do enhance meal lanning. Some AR a allo e o i alize o ion ize o e calo ie con e im o ed on hei food [6]. i o ide a mole engaging a onde, and n i ion and make heal hie ea ing choice.

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Sma , cale ha e e ol ed fa be ond im l mea ing bod eigh. Mode n de ice can a e, a ange of me ic incl ding bod fa e cen age, m cle ma , bone den i , and a e e en ion [7]. When combined i h AI-d i en a , he e de ice ack end o e ime, o e ing mo e de ailed in igh in o one? o e all heal h a he han foc ing olel on eigh. S ch info ma ion hel , e, e mo e eali ic and achie able goal [8].

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Received: 03-Aug-2024, Manuscript No: jowt-24-147784, Editor assigned: 05-Aug-2024, Pre QC No: jowt-24-147784 (PQ), Reviewed: 19-Aug-2024, QC No: jowt-24-147784, Revised: 23-Aug-2024, Manuscript No: jowt-24-147784 (R) Published: 30-Aug-2024, DOI: 10.4172/2165-7904.1000713

Citation: Rena K (2024) Emerging Technologies in Weight Loss: From Wearable Devices to Al-Driven Solutions. J Obes Weight Loss Ther 14: 713.

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Citation: Rena K (2024) Emerging Technologies in Weight Loss: From Wearable Devices to AI-Driven Solutions. J Obes Weight Loss Ther 14: 713.