

Congeni al hea defec ; P ena al c eening; S gical echni e ; M l idi ci lina ca e; Clinical e en a ion; Diagno i ; Pa ien o come ; Bi h defec

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Congeni al Ca diac Malfo ma ion (CCM) e e en a di e e g o of c alhea defec ha a e e en a bi h. e a i ef om abno mal hea de elo men d ing emb ogene i and encom a a ide ange of condi ion, f om im le defec ha ma e i e minimal in e en ion o com le anomalie nece i a ing e en i e gical e ai . e e ac e iolog of CCM i o en m l ifac o ial, in ol ing gene ic edi o i ion⁹ and en i onmen al fac o . A ad ance in ena al diagno i and gical echni e con in e o e ol e, nde anding he im lica ion of CCM on mo bidi and mo ali become inc ea ingl c i ical. i a icle aim o o⁹ide a com ehen i e o e ie of congeni al ca diac malfo ma ion, foc ing e diagno i of CCM o en in ol e a combina ion of clinical e agnina ion, imaging echni e ch a echoca diog a h, and, hen nece a , ca diac MRI o CT can . P ena al de ec ion h o gh ad anced imaging ha igni can l im o ed, allo ing fo ea l in e en ion and lanning fo deli e $\frac{y}{y}$ [8].

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e e alence of congeni al hea defec a ie b, o la ion, i h die gge ing a e of 8 o 12 e 1,000 li e bi h. A ial e al defec (ASD) and en ic la e al defec (VSD) a e he mo common e, acco n ing fo nea l half of all congeni al hea defec. Ad ance in ena al diagno i' ha e led o im o ed iden i ca ion of he e condi ion, facili a ing ea lie in e en ion. S gical echni e ha e og e ed ema kabl, i h i al a e fo com le defec im o ing f om le han 50% in he 1970 o o e 90% oda $\sqrt{9}$.

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e managemen of CCM e i e a m l idi ci lina a oach in ol ing edia ic ca diologi , ca dio ho acic geon, and ecialized n ing ca e. Ea l diagno i i c cial, a imel in e en ion can igni can l enhance o ^ycome . S gical in e en ion a ba ed on he e and e e i of he malfo ma ion. Fo in ance, ASD and VSD ma e i e ca he e -ba ed in e en ion , hile mo e com le a_{a} anomalie^y o en nece i a e o en-hea ge . Long - e m follo i e en ial fo all a ien i h CCM , a ^yhe ma e a_{a} e ience com lica ion ch a a h hmia , hea fail e, and g o h dela . e cho ocial im ac of congeni al hea defec on a ien and familie^y ho ld no be o e looked [10]. Pa en o en e a_{a} e ience igni can an ig and emo ional di e on ecei ing a diagno i . P o iding com éhen i e ca e, incl ding chological o and ed ca ional e o ce , i i al fo enhancing he o e all ali of life fo familie a ec ed b CCM .

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Congeni al ca diac malfo ma ion a e igni can con ib o

o edia ic mobidi and mo ali . Ongoing e ea ch in o he gene ic and en i onmen al ca e of he e condi ion i e en ial fo de elo ing e en i e a egie . Ad ance in ena al diagno i and

gical echni e ha e ma kedl im o ed o come fo man a ien . A coo dina ed, m l idi ci lina a oach o ca e i c cial fo o imizing managemen and o ^yfo a ec ed indi id al and hei familie . Con in ed a a ene and ed ca ion on congeni al hea defec ill enhance he nde anding and ea men of he e com le $\frac{1}{\sqrt{y}}$

References