

脐带血的作用



使用脐带血干细胞进行移植，并发症的发生要低于使用采集自成年人的干细胞。³



比起成年人采集的干细胞，脐带血干细胞在配型方面的灵活度更高。⁴



采集流程为非侵入式，对母婴均无安全隐患。



存储后随时可以提取，无需等待他人捐献。

目前已可用脐带血进行治疗的疾病^{5,6}

治疗领域	疾病名称
癌症	霍奇金淋巴瘤 多发性骨髓瘤 神经母细胞瘤
血液紊乱	再生障碍性贫血 范康尼贫血 镰状细胞病
免疫系统紊乱	严重联合免疫缺陷症 白细胞粘附缺陷 威斯科特-奥尔德里奇综合征
代谢系统紊乱	克拉伯病 桑菲利波综合征 骨质石化症

脐带血在再生医学领域的应用⁷

疾病名称
左心发育不全综合征
1型糖尿病
脊髓损伤
脑瘫
缺氧性神经损伤
中风

获取更多信息 敬请微信咨询

如有任何疑问，请联系中文微信客服，获取资讯包、参与中文讲座。



1800 071 075 (24小时英文热线)

1800 917 718 (中文热线)

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¹ Cell Care data on file. ² Wagner JE. Cord blood 2.0: state of the art and future directions in transplant medicine. Blood Res. 2019 Mar;54(1):7-9. doi: 10.5045/br.2019.54.17. Epub 2019 Mar 21. PMID: 30956957; PMCID: PMC6439299 ³ Zhu X, Tang B, Sun Z. Umbilical cord blood transplantation: Still growing and improving. Stem Cells Transl Med. 2021;10 Suppl 2(Suppl 2):S62-S74. doi:10.1002/sctm.20-0495 ⁴ Ballen K. Update on umbilical cord blood transplantation. F1000Res. 2017;6:1556. Published 2017 Aug 24. doi:10.12688/f1000research.11952.1 ⁵ Mayani, H, Wagner, J.E. & Broxmeyer, H.E. Cord blood research, banking, and transplantation: achievements, challenges, and perspectives. Bone Marrow Transplant 55, 48-61 (2020). <https://doi.org/10.1038/s41409-019-0546-9> ⁶ <https://parentsguidecordblood.org/en/diseases> ⁷ Kindwall-Keller TL, Ballen KK. Umbilical cord blood: The promise and the uncertainty. Stem Cells Transl Med. 2020;9(10):1153-1162.

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Cell Care 脐带血使用案例



Cell Care 出库样本超过70份

移植疗法

脐带血在治疗癌症（白血病、淋巴瘤、多发性骨髓瘤）、血液病（地中海贫血、镰状细胞性贫血、范可尼贫血）、免疫缺陷和其他危及生命的疾病方面发挥着重要作用，未来还有更大的潜力。

再生医学

再生医学，即利用活细胞对被疾病、遗传和损伤破坏的细胞进行再生或促进修复。目前有多项临床研究正在进行，针对一些曾经被认为无法治疗的疾病，探索脐带血干细胞的治疗潜力，例如脑瘫和1型糖尿病。



70%

的出库样本用于再生医学¹



>60%

的样本为自体使用¹



45,000+

例脐带血移植手术在世界范围内进行²

病症	受者 (性别/年龄)	供者	样本采集地点	样本使用地点	年份
神经母细胞瘤	男 - 4岁	自体	Northern Hospital, VIC	Royal Children's Hospital, VIC	2009
急性髓细胞白血病：CR2	男 - 13岁	同胞	Sydney Adventist Hospital, NSW	Children's Hospital Westmead, NSW	2010
脑瘫和发育迟缓	女 - 3岁	自体	St John of God Geelong, VIC	Duke University, North Caroline, USA	2010
1型糖尿病	女 - 4岁	自体	Home Birth, WA	Children's Hospital Westmead, NSW	2015
脑瘫	女 - 2岁	同胞	King Edward Memorial, WA	Royal Children's Hospital, VIC	2016
T细胞急性淋巴细胞白血病	男 - 5岁	同胞	Monash Medical Centre, VIC	Royal Children's Hospital, VIC	2016
慢性肉芽肿病	男 - 4岁	同胞	Liverpool Public Hospital, NSW	Children's Hospital Westmead, NSW	2017
脑瘫	男 - 7岁	同胞	John Hunter, NSW	Royal Children's Hospital, VIC	2017
脑瘫	男 - 5岁	同胞	Mater Hyde Park, NSW	Royal Children's Hospital, VIC	2017
脑瘫	男 - 6岁	同胞	Northern Hospital, VIC	Royal Children's Hospital, VIC	2017
1型糖尿病	女 - 12岁	自体	Calvary Adelaide, SA	Children's Hospital Westmead, NSW	2017
1型糖尿病	男 - 9岁	自体	Glengarry Private, WA	Children's Hospital Westmead, NSW	2017
1型糖尿病	女 - 5岁	自体	Flinders Private Adelaide, SA	Children's Hospital Westmead, NSW	2017
1型糖尿病	女 - 2岁	自体	St George Private, NSW	Children's Hospital Westmead, NSW	2017
1型糖尿病	女 - 19个月	自体	St George Public, NSW	Children's Hospital Westmead, NSW	2017
严重先天性中性粒细胞减少症	女 - 5岁	同胞	Sydney South West Private, NSW	Children's Hospital Westmead, NSW	2017
脑瘫	男 - 21个月	同胞	St George Public, NSW	CHA Bundang Medical Centre, South Korea	2017
脑瘫	女 - 18个月	自体	Epworth Freemasons, VIC	Duke University, North Caroline, USA	2017
脑瘫	男 - 11岁	同胞	Monash Medical Centre, VIC	Royal Children's Hospital, VIC	2018
脑瘫	女 - 6岁	同胞	King Edward Memorial, WA	Royal Children's Hospital, VIC	2018
脑瘫	男 - 6岁	同胞	John Hunter, NSW	Royal Children's Hospital, VIC	2018
脑瘫	男 - 8岁	同胞	Monash Medical Centre, VIC	Royal Children's Hospital, VIC	2018
脑瘫	男 - 4岁	同胞	Gladstone Hospital, QLD	Royal Children's Hospital, VIC	2018
脑瘫	男 - 3岁	同胞	St John of God Mt Lawley, WA	Royal Children's Hospital, VIC	2018
脑瘫	女 - 4岁	同胞	Sydney Adventist Hospital, NSW	Royal Children's Hospital, VIC	2019
脑瘫	女 - 6岁	同胞	Royal Womens Hospital, VIC	Duke University, North Caroline, USA	2019
重型地中海贫血	女 - 8岁	同胞	Joan Kirner Women's & Children's, VIC	Royal Children's Hospital, VIC	2019
X连锁高IgM综合征	男 - 6岁	同胞	Mercy Hospital for Women, VIC	Royal Children's Hospital, VIC	2019
自闭症	女 - 3岁	自体	Westmead Public, NSW	Gleneagles Kuala Lumpur, Malaysia	2019
急性淋巴细胞白血病	男 - 4岁	同胞	Royal Womens Hospital, VIC	Royal Children's Hospital, VIC	2019
湿疹血小板减少伴免疫缺陷综合征	男 - 5岁	同胞	Werribee Mercy, VIC	Royal Children's Hospital, VIC	2019
脑瘫	女 - 11岁	自体	Epworth Freemasons, VIC	Children's Hospital Westmead, NSW	2019
脑瘫	男 - 2.5岁	自体	Box Hill Hospital, VIC	Children's Hospital Westmead, NSW	2020
自闭症	男 - 9岁	同胞	Glengarry Private, WA	Duke University, North Caroline, USA	2020
1型糖尿病	男 - 4岁	自体	Joan Kirner Women & Children's, VIC	Children's Hospital Westmead, NSW	2020
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2021
极度早产	女 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2021
极度早产	女 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2021

病症	受者 (性别/年龄)	供者	样本采集地点	样本使用地点	年份
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2021
极度早产	女 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2021
T细胞急性淋巴细胞白血病	男 - 8岁	同胞	Nepean Public, NSW	Children's Hospital Westmead, NSW	2022
1型糖尿病	女 - 18个月	自体	Box Hill Hospital, VIC	Children's Hospital Westmead, NSW	2022
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2022
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2022
极度早产	女 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2022
1型糖尿病	女 - 4岁	自体	Mater Mothers' Private, QLD	Children's Hospital Westmead, NSW	2022
极度早产	女 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2022
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2022
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2022
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2022
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2022
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2022
脑瘫和脑积水	男 - 4岁	自体	St John of God Subiaco, WA	Duke University, North Caroline, USA	2022
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2023
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2023
胎儿中风	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2023
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2023
1型糖尿病	男 - 3岁	自体	Joondalup Public, WA	Children's Hospital Westmead, NSW	2023
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2023
脑瘫	男 - 3岁	同胞	Joondalup Private Health, WA	Duke University, North Caroline, USA	2023
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2023
极度早产	女 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2023
1型糖尿病	男 - 2岁	自体	Newcastle Private Hospital, NSW	Children's Hospital Westmead, NSW	2023
再生障碍性贫血	男 - 7岁	自体	Sydney Adventist Hospital, NSW	Children's Hospital Westmead, NSW	2023
1型糖尿病	男 - 4岁	自体	Sydney Adventist Hospital, NSW	Children's Hospital Westmead, NSW	2023
脑瘫	男 - 6岁	同胞	St George Public, NSW	Duke University, North Caroline, USA	2023
极度早产	女 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2023
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2023
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2023
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2023
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2023
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2023
极度早产	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2023
儿童幼年型粒单核细胞白血病	男 - 2岁	同胞	King Edward Memorial, WA	Perth Childrens Hospital, WA	2023
胎儿中风	男 - 2周	自体	Monash Medical Centre, VIC	Monash Medical Centre, VIC	2024
脑瘫和缺氧缺血性脑病	男 - 4岁	同胞	St John of God Subiaco, WA	Duke University, North Caroline, USA	2024
脑瘫	男 - 3岁	同胞	Shoalhaven District, NSW	Duke University, North Caroline, USA	2024
脑瘫	女 - 4岁	同胞	Shoalhaven District, NSW	Duke University, North Caroline, USA	2024
脑瘫	女 - 6岁	同胞	Jessie McPherson Private Hospital, VIC	Monash Medical Centre, VIC	2025
脑瘫	女 - 4岁	同胞	Cabrini Hospital, VIC	Duke University, North Caroline, USA	2025
脑瘫	女 - 1.5岁	同胞	Sunshine Coast University QLD	Duke University, North Caroline, USA	2025