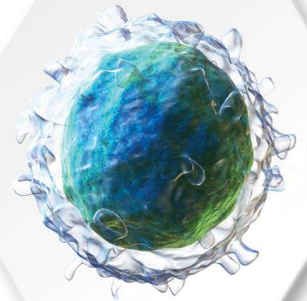


Alzheimer's Disorder/Dementia





Advancells Group believes in the vision of a cure-driven world. Established in 2013 by **Mr. Vipul Jain**, Advancells provides customized protocols for 360° management of diseases and conditions with regenerative medicine as a solution. We believe in promoting stem cell awareness to ensure that patients and caregivers, worldwide, know their role in the regeneration of damaged body tissues for neurodegenerative, musculoskeletal, organ-damage, and aging disorders.

With the **CMO Asia Healthcare Excellence Award** and the **Healthcare and Lifescience Award** (Corporate LiveWire) adorning our achievements, we provide the best medical consultation with value to treatment aesthetics and patient consent. Besides patient-friendly therapeutics, we also aid efficient biomedical research with our customized stem cells and primary cells, as it precedes every clinical translation that can help our future generation.

NEURODISORDERS FOR REGENERATIVE THERAPY

- **ALZHEIMER'S DISORDER**
- PARKINSON
- AUTISM
- ALS
- MULTIPLE SCLEROSIS
- STROKE
- MUSCULAR DYSTROPHY
- CEREBRAL PALSY

WE ARE HERE TO HELP

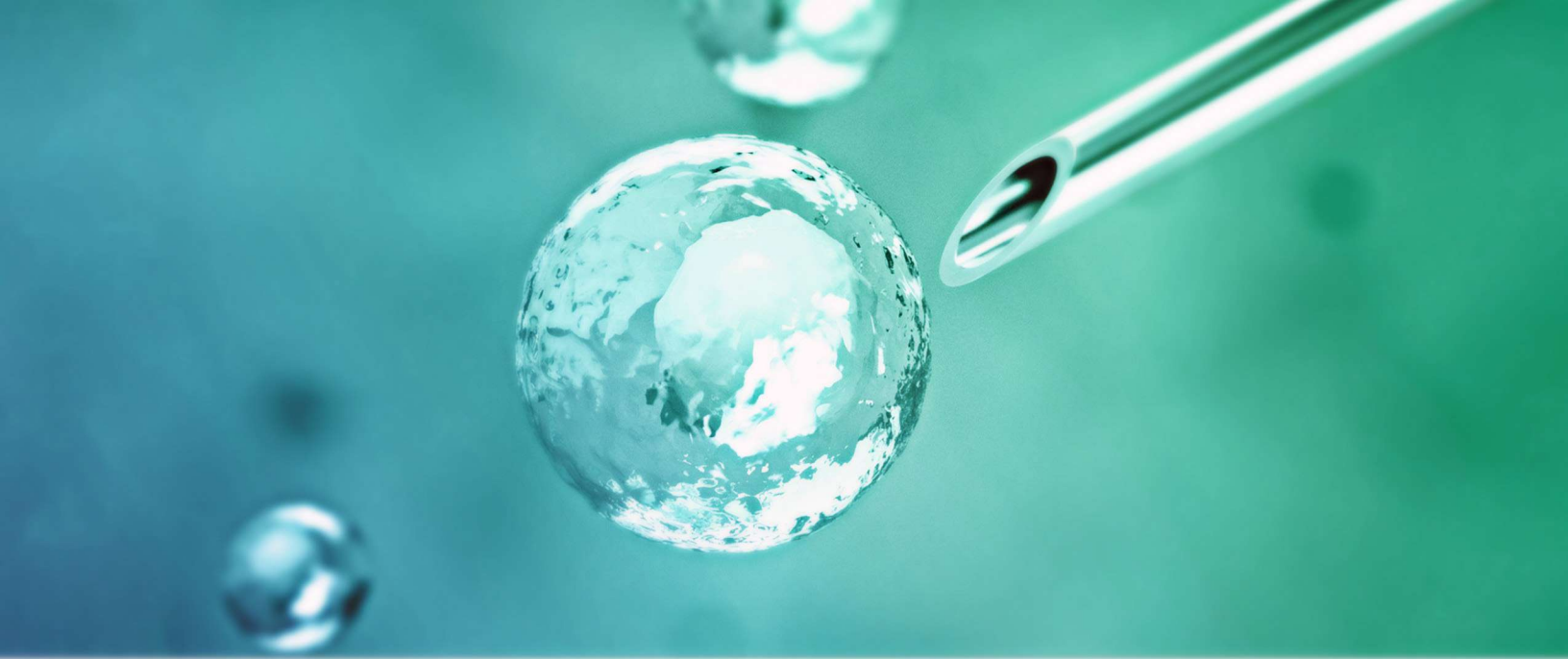


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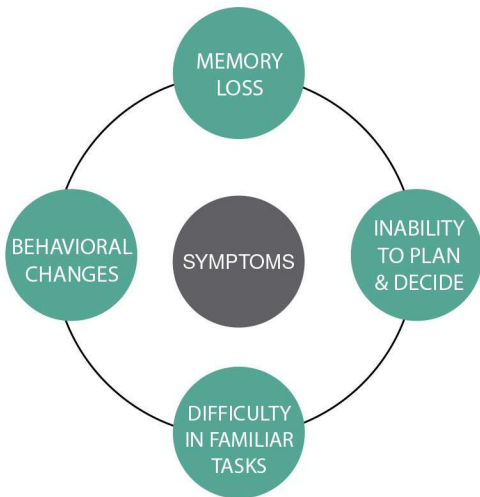
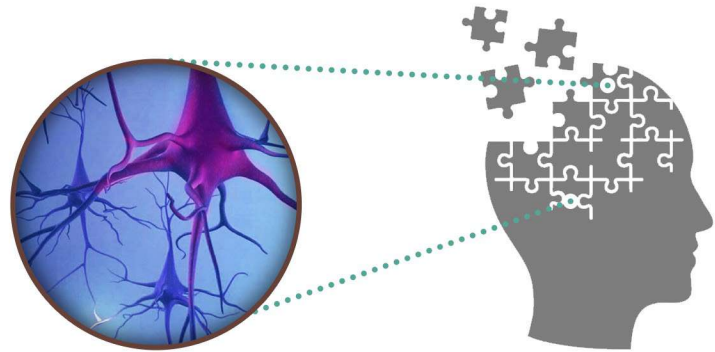
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What is Alzheimer's Disorder?

■ Neurodegenerative disorder affecting Central Nervous System.

46.8
LIVING WITH
ALZHEIMER

46.8 Million living with Alzheimer's Disease

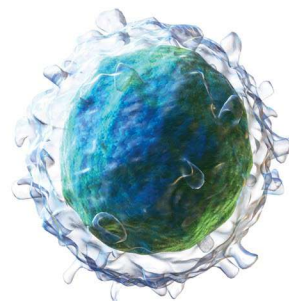
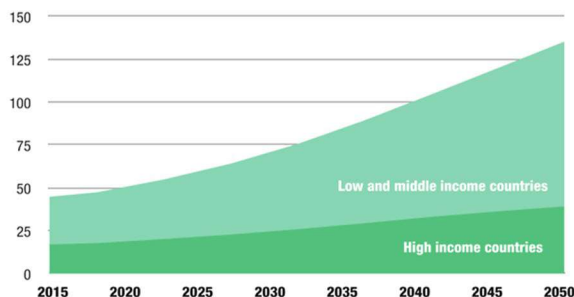


Alzheimer's Disorder is a progressive neurodegenerative disease which is clinically characterized by the presence of beta-amyloid plaques and neurofibrillary tangles in the brain. Due to amyloid accumulation in the brain, nerves become dysfunctional and this primarily affects memory and thought process of the patients. The common risk factors of Alzheimer's Disorder are age, genetic inheritance, hypertension, and any prior neural disorder.

With more than **60** million people worldwide to be diagnosed with Alzheimer's Disorder by **2030**, more therapeutic research on the conditions are urgently required to reduce this number significantly.

Although there is no specific medication for the neurological conditions of Alzheimer's disease till date, the treatment regime is multimodal and often involves mental support, behavior therapy and neuro-transmitter-regulating drugs. With recent scientific advances and research in stem cell therapeutics, Alzheimer's disease may have a new hope in the form of Regenerative Medicine.

PREVALENCE



Can regenerative medicine help?

*As per the new figures disclosed by 2015

STEM CELL Treatment *for* Alzheimer's Disorder

- Delay in memory loss.
- Reduced agitation and depression.
- Improved speech development.
- Improved learning abilities.
- Improved perception and thinking abilities.
- Improved concentration and focus.



Regenerative Medicine

Stem cells have the unique potential to undergo self-renewal as well as differentiate into cells of neuronal origin in the body upon natural.

What can you expect?

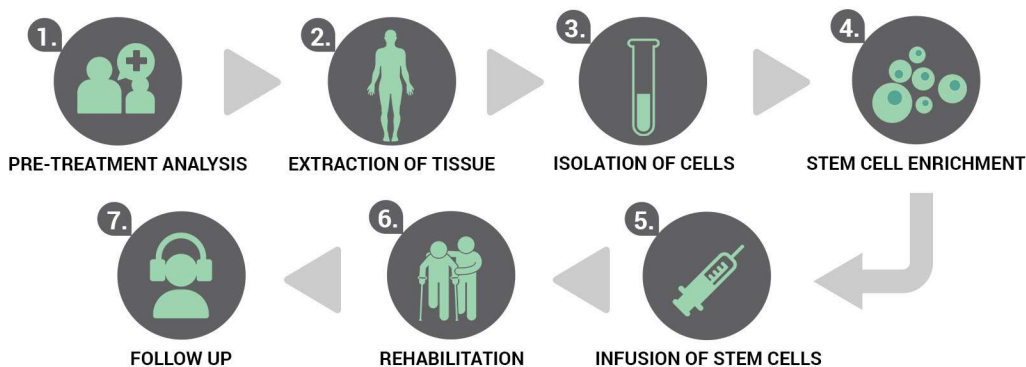
Majority of the patients treated by us have shown better focus and concentration in listening and understanding speech audios and videos. Alzheimer's patients have also shown signs of stable behavior without aggression or depression in their attitudes. Further to that, family members of the patients have remarked on the slowing of their memory loss process and have also talked to us about the patients trying to perceive their environment and people better than before.

Although type and extent of improvement is patient specific, some of the common benefits that you can expect after stem cells treatment for Alzheimer's Disorder are:

- Improved memory skills and a significant time delay in memory loss.
- Decreased depression and anxiety, with improvements in behavioral stability.
- Improved speech, perception, and decision making abilities.
- Improved concentration and focus on other people and environment.
- Improved immunological and inflammatory functions based on pre-treatment and post-treatment marker analysis.

Cell Therapy Management

Establishment of day care procedure.



PRE-TREATMENT procedure

Complete assistance will be given to the patient in all pre treatment procedures such as consultation, hospitalization (If required), Assessment.

■ Eligibility Criteria

Pre-Treatment Assessment

- Routine Blood Test
- Routine Urine Analysis
- Infectious Disease Testing
- Physical Examination
- X-Ray

Pre-Op Procedure

- MRI
- CT Scan
- Neurophysiology
- Medical Neurological Reports
- Medical History

EXTRACTION of tissue sources

Generally the entire procedure takes around 7-8 hrs including 1-2 hrs of source aspiration, 2-3 hrs of stem cell isolation and another 1-2 hrs in injecting cells. The processing of sample is done in a state-of-the-art class 10000 clean room facility wherein we strictly adhere to maintain quality of standards. Wherein the extracted sources undergo minimum manipulation such as been spun in a centrifuge to cull out a stem cells.

TARGETED delivery

Once isolated, intensified and ready for reinstalling back into the body, we work out different mode of implantation: depending upon patient's health condition.

■ Intravenous Administration

Cells will be infused directly into the vein to be able to circulate in the vascular system. This may further help to induce immediate signaling pathways to direct cells to the site of injury.

■ Intra-thecal Administration

Intrathecal administration is the infusion of stem cells via injection into the spinal canal, most popularly known as **Lumbar Puncture**.

■ Intra-muscular Administration

Intra muscular injection is infusion of stem cells directly into the muscles. Clinical results have further indicated that a combination of intramuscular injections with more than one infusion protocol is much more beneficial in promoting the regeneration and functional recovery of musculoskeletal environment.

REHABILITATION

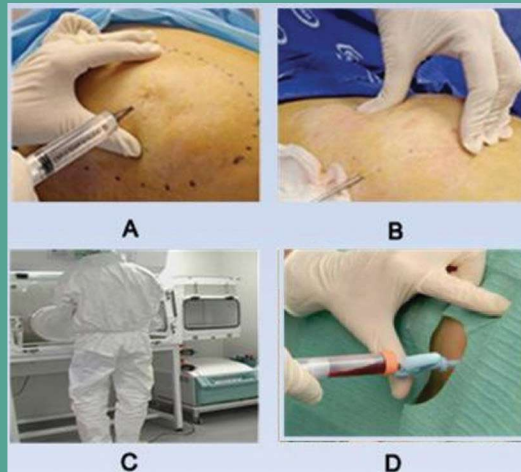
Post treatment care involves multiple reclamation therapies for accelerated recovery. Advancells is recommending range of therapies as discussed later.

Bone Marrow Extraction



- A. Application of local anesthesia.
- B. Bone Marrow collection by needle insertion in the hip bone.
- C. Isolation of Stem Cells in the clean room.
- D. Intra-thecal Injection of stem cells.

Adipose Tissue Extraction



- A. Application of tumescent anesthesia.
- B. Adipose Tissue collection by lipoaspiration.
- C. Isolation of Stem Cells in the clean room.
- D. Intra-thecal Injection of stem cells.

Why Should YOU choose Advancells?

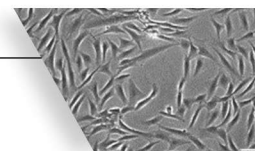
01 AUTOMATED and CLOSED System

At Advancells, stem cell therapy is performed under the supervision of medical experts in a multi speciality hospital and cells are processed in the state-of-the-art GMP compliant laboratory i.e. fully functional with automated equipments.



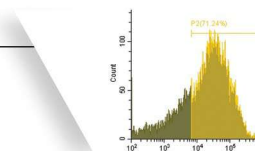
02 HIGH Quality of Cells

At Advancells, we ensure that cells are of best quality; and hence we perform a thorough **Quality Assessment** by experienced scientists. We provide a detailed certificate of analysis to each patient further authenticating the cell quantity and viability.



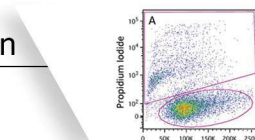
03 Disease-Specific MARKER Analysis

Our clinical research scientists do a thorough disease-specific marker analysis both **pre and post-treatment** to ensure subjective reduced expression levels of the same, thus showing evidence based assesment of improvement in each case. Reports are shared to confirm physiological improvement.



04 HIGH Concentration Enriched with MULTIPLE Cell Population

The treatment procedure is performed using a high concentration of viable cells with multiple cell population, created from a very small portion of the tissue.



05 SAFE Treatment Procedure

The procedure is completely safe and has not detected any adverse events throughout the globe.



06 PATIENT SATISFACTION Assurance

Our medical team assures you treatment aesthetics and formal consent for your stem cell therapy. We prioritize patient follow-ups to ensure that your health improvements ascend with our therapeutic solutions.



07 Globally Recognized HEALTHCARE

Advancells Regenerative Medicine solutions have been globally recognized with the CMO Asia Healthcare Award for the Best Product Innovation and Quality Initiative. We were also privileged to host His Royal Highness, the king of Kuwait, for regenerative therapy during his 2017 visit.



Special services for International Patient

- Assistance in Visa and planning travel itinerary.
- Assistance in getting comfortable accommodation in nearby location.
- Travel Assistance for sight seeing.
- Assisting with your interpretation services.
- Assisting with multiple payment options.
- Expedite arrival with fast track registration.



Each Case is Special For Us,

Therefore Every Cell has to pass through a Stringent Quality Control Parameter.

■ Clinical Definition of Stem Cells

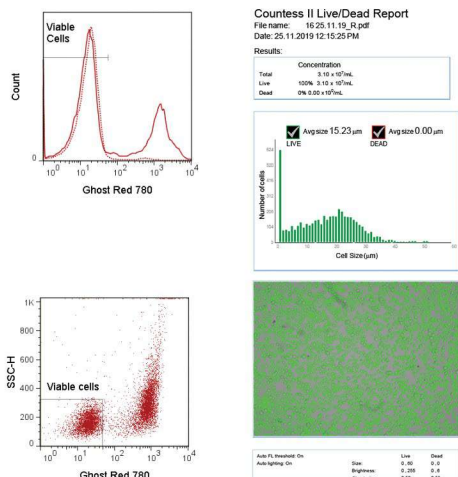
- Stem Cells are the mother cells of our body.
- They can divide unlimited times.
- Can differentiate into any cell type.
- Can be exploited to treat diseased condition.

At Advancells, we provide a high concentration of viable stem cells with enhanced differentiation potential for our treatment procedure. The patient derived stem cells are checked for mycoplasma and endotoxin contamination after isolation from the patient's body.

The stem cell suspension are checked for both gram-positive and gram-negative bacterial load during procedure for preventing any bacterial infection upon re-injecting them to the patient's body.

1.

Characteristics of Stem Cells



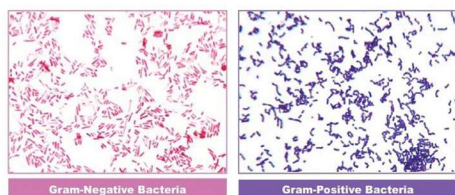
2.

Mycoplasma Detection



3.

Detection of bacterial containment



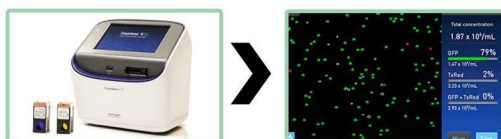
4.

Endotoxin Analysis



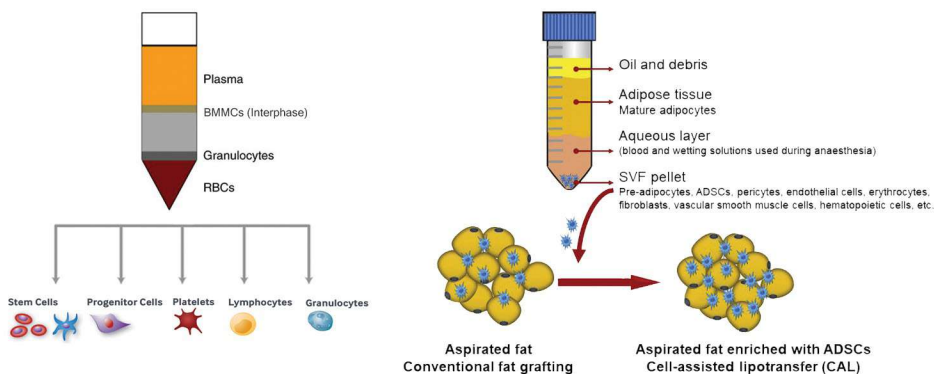
5.

Viable Cell Count & Analysis through Automated cell counter



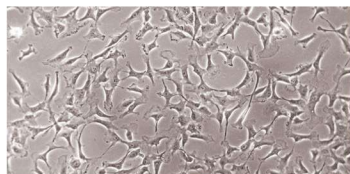
Analysis report		
Viable cell count at the time of dispatch: x *x ⁶ cells		
Mycoplasma : Negative		Endotoxin : Negative (Qualitative Test > 0.2EU/ml)
Marker Analysis (Reference Document No: 0024GI001552):		
Markers Detected	Interpretation	Percentage
xx	Positive/ Negative	xx%
xx	Positive/ Negative	xx%
xx	Positive/ Negative	xx%

Technology Calling...



Bone Marrow derived mononuclear cells

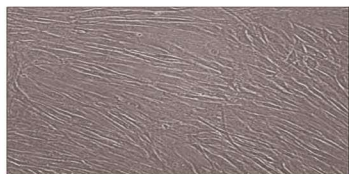
Neutrophil	72.3%
Eosinophil	1.8%
Lymphocyte	12.1%
Monocyte	2.8%
Nucleated Erythrocyte	8.9%
Blast Cells	1.6%



Bone Marrow Stem Cells promote vasculogenesis and differentiation to enhance blood circulation.

Stromal Vascular Fraction

Endothelial Cells	25%
Myeloid Cells	22%
Monocyte	20%
cKit ⁺ Progenitor Cells	5%
CXCR4 ⁺ Multipotent Cells	2.5%
PDGFR- β ⁺ Perivascular Cells	20%



Pre-Adipocytes are known to produce cells of neuronal origin and regularise inflammatory immune responses.

★ Wide Range of other cell types such as Mesenchymal Stem Cell are available for therapeutic operations.

Stem Cell Therapy Success Rate

Symptoms	Percentage Improvement
Social Interaction	67.30
Eye Contact	81.06
Attention/ Concentration	83.41
Stereotypical behaviour	54.30
Aggressiveness	59.04
Hyperactivity	66.49
Self-Injurious Behaviour	61.33
Sitting Tolerance	87.93
Command Following	85.43
Speech	60.48
Communication	61.27
ISAA	94.23
CARS	95.67

FACILITY & EXPERTISE



Let's Hear it from the Patients.. .

■MR. MRIGEN SHARMA, 70 YRS

6 months after treatment, Mr. Sharma's family noticed significant improvements in his mood and ability to remember things. Mr. Sharma was calmer and more jovial than his condition before undergoing treatment for Alzheimer's.

■MRS. GIULIA SERAFINI, 78 YRS

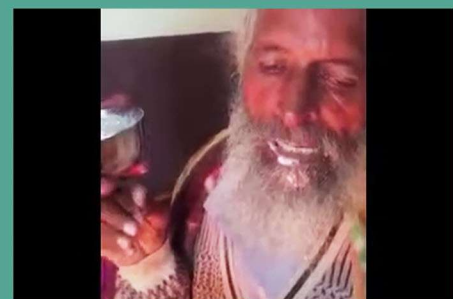
According to Mrs. Serafini's daughter, the regenerative therapy has helped her mother recognize some close relatives and has decreased the rate of memory loss significantly. She also says that her mother is more emotionally stable as compared to before therapy.

■MR. JAGTEJ SINGH, 70 YRS

Mr. Singh was diagnosed with Alzheimer's at 60 yrs and 10 years later, his family consulted Advancells for his treatment. Post treatment, Mr. Singh showed improvements in his mood and his muscle activities were also enhanced. His speech has also become clearer and better controlled than before.

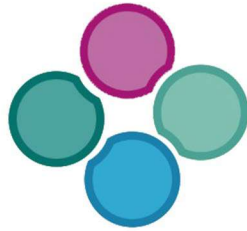
■MRS. JOSEPHINE STRAMIELLO, 82 YRS

After her treatment for Alzheimer's, Mrs. Stramiello showed improvement in skills like wearing her dress, reading and writing under the supervision of her family members. She believes that the therapy has helped her slow down the time frame of nerve degeneration and memory loss.



Certifications





Advancells

G R O U P

Shaping the Future




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