

FEMORAL HEAD COLLECTION INITIATIVE

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CURRENT STATE

- ▶ SHORTAGE OF CANCELLOUS BONE IN SOUTH AFRICA
- ▶ THE MAJORITY OF BONE PRODUCTS ARE ENGINEERED USING CANCELLOUS BONE
- ▶ REASONS:
 - ▶ SKELETAL COMPOSITION 20% CANCELLOUS BONE AND 80% CORTICAL BONE
 - ▶ WHOLE BODY DONORS (CADAVER) PER MONTH PLATEAUED
 - ▶ EVERY DONOR IS UNIQUE AND PROCUREMENT OF BONE DEPENDS ON A NUMBER OF FACTORS
 - NOT GUARANTEED THAT THE MAXIMUM AMOUNT OF BONE CAN BE PROCURED FROM EVERY DONOR



FEMORAL HEAD COLLECTION INITIATIVE

- ▶ FEMORAL HEAD (FH) IS AN EXCELLENT SOURCE OF CANCELLOUS BONE
- ▶ FH RECOVERY PROGRAM WAS IN PLACE – UNMANAGED AND SPORADIC, LIMITED PARTICIPATING HOSPITALS
- ▶ DORMANT HOSPITALS
- ▶ RECOVERY PROGRAM WAS IDENTIFIED AS A MEANS TO INCREASE CANCELLOUS BONE STORES



PERFORMANCE

| | JUL 14 - JUN 15 | JUL 15 - JUN 16 | JUL 16 - JUN 17 | JUL 17 - JUN 18 |
|-----------------------------------|-----------------|-----------------|-----------------|-----------------|
| NUMBER OF FEMORAL HEADS COLLECTED | 554 | 546 | 513 | 544 |
| NUMBER OF CONTRIBUTING HOSPITALS | 25 | 29 | 32 | 37 |



OBJECTIVES

- ▶ **PRIMARY OBJECTIVE**
 - **TO MAXIMISE THE DONATION AND PROCUREMENT OF FEMORAL HEADS ON BEHALF OF THE CENTRE FOR TISSUE ENGINEERING (CTE) THROUGH A MANAGED PROCESS, IN ORDER TO INCREASE THE VOLUME OF AVAILABLE RAW BONE FOR BONE PRODUCT PRODUCTION**

- ▶ **SECONDARY OBJECTIVES**
 - **MAXIMISE THE AWARENESS OF, AND PARTICIPATION IN, LIVING TISSUE DONATION IN IDENTIFIED TARGET MARKETS**
 - **SUPPORT AND ENHANCE AWARENESS OF ORGAN AND TISSUE DONATION IN SOUTH AFRICA**



STRATEGIC OUTLINE

'PRODUCT'

DEVELOPMENT OF A CLEAR
MESSAGE

PROCESS

MAP EXISTING PROCESSES
SIMPLIFY EXISTING PROCESSES
DOCUMENT PROCESSES
ALIGN TRAINING AND MARKETING
MATERIAL WITH PROCESSES
TRAINING MODEL
QUALITY CONTROL
COMMUNICATION
REPORTING
STOCK CONTROL

PEOPLE

PARTNERSHIPS:

- LABORATORIES
- MAJOR HEALTHCARE GROUPS
- MINOR HEALTHCARE GROUPS
- MEDICAL AID COMPANIES
- CTE

ON-SITE TEAMS:

- CHAMPIONS NETWORK
- 'RESCUERS'

INCREASE FH DELIVERY BY 25% YOY
'CENTRE OF EXCELLENCE' CONCEPT



STRATEGIC APPROACH

- ▶ BE REALISTIC ABOUT RESOURCES
- ▶ BE REALISTIC ABOUT CURRENT AND FUTURE LEVELS OF PARTICIPATION
- ▶ ***FISH WHERE THE FISH ARE:***
 - ▶ MAXIMISE CONTRIBUTION OF EXISTING PARTNERS
 - ▶ INVESTIGATE, EVALUATE AND VET FUTURE PARTICIPANTS
 - ▶ MANAGED ATTRITION WHERE APPLICABLE

PARTICIPATION

| | |
|---|----------------|
| If contributions were received for the full period: | 100% = HIGH |
| If contributions were received for $\frac{3}{4}$ of the period: | 75% = MEDIUM |
| If contributions were received for half the period: | 50% = LOW |
| If contributions were received for less than half the period: | 25% = VERY LOW |
| If no contributions were received for the period: | 0% = NONE |

YIELD

| | |
|---|----------|
| 50 TO 100 femoral heads received per period: | HIGH |
| 25 TO 49 femoral heads received per period: | MEDIUM |
| 10 TO 24 femoral heads received per period: | LOW |
| 1 TO 9 femoral heads received per period: | VERY LOW |
| If no contributions were received for the period: | NONE |



PROJECT DELIVERABLES

- ▶ **INCREASE DELIVERY OF FEMORAL HEADS TO CTE BY 25% YOY BY 30 JUNE 2019 THROUGH:**
 - ▶ REACTIVATING 90% OF DORMANT HOSPITALS
 - ▶ INCREASING THE NUMBER OF ACTIVE HOSPITALS BY AT LEAST 15 NEW PARTICIPATING HOSPITALS
 - ▶ INCREASING FEMORAL HEAD CONTRIBUTIONS BY CURRENT ACTIVE HOSPITALS BY 15% YOY
 - ▶ INCREASING PARTICIPATING DOCTORS BY 10% YOY



DONATION PROCESS

- ▶ DISCUSSION WITH SURGEON
- ▶ CONSENT FORM
- ▶ 3 TUBES OF BLOOD INTRA-OPERATIVELY

CONSENT FORM: FEMORAL HEAD DONATION

Hospital/Facility: Zuid-Afrikaans Hospital

DONOR DETAILS (Must be 18 years or older)

| | | | | | | | |
|----------------|--|--|--|----------------|--|--------|--|
| Name & Surname | | | | Age | | Gender | |
| ID Number | | | | Contact number | | | |
| Postal Address | | | | Email address | | | |

INTERPRETER'S STATEMENT

I have given a translation in (Donor's language) of the consent form and assisted in the provision of any verbal and written information given to the patient by the health care practitioner.

Interpreter's name & surname

Signature

Date

MEDICAL QUESTIONNAIRE

| | | | | |
|-----------|---|-----|----|--|
| 1 | Have you ever had cancer or received radiation therapy or any other treatment for Cancer? | YES | NO | |
| 2 | Have you ever been diagnosed with an auto immune disease? E.g. Lupus | YES | NO | |
| 3 | Have you ever been diagnosed Arthritis / Joint disease / Osteomyelitis? | YES | NO | |
| 4 | Have you received any Steroids or Human growth hormones in the last 3 months? | YES | NO | |
| 5 | Have you ever been exposed to Lead, Pesticides or any other poison? | YES | NO | |
| 6 | Have you ever received a Tetanus injection? | YES | NO | |
| COMMENTS: | | | | |

DONOR DECLARATION AND CONSENT

I declare that I have answered all the questions in the medical questionnaire to the best of my knowledge.

I understand that:

- The information in the tissue donation pamphlet supplied together with this consent form. I understand that further information is available on www.tissuedonation.org.za
- A small bone tissue from my damaged hip called a Femoral head will be removed from my body for the purposes of my hip surgery.
- If I do not provide this consent, the treating doctor or hospital would otherwise dispose of it in accordance with the relevant policies at the facility.
- I hereby give voluntary consent to donate the bone tissue removed as part of my surgical procedure, to the Centre for Tissue Engineering (CTE) of the Tshwane University of Technology.
- I hereby give permission for my blood to be tested to exclude infections that may render the tissue donated by me unsuitable for donation.
- My blood will be tested for communicable diseases such as Hepatitis, Syphilis, HIV to ensure that the bone tissue can be utilized for transplant purposes. The results will be kept strictly confidential in accordance with the provisions of the data protection laws of South Africa and will be kept by the CTE.
- Should I wish to access my results, I may contact the General Manager of the CTE who will arrange that I receive counselling prior to my results being made available to me.
- The donated bone tissue may be used, treated and modified for therapeutic purposes (including transplantation into other people) and in some instances, for ethically approved research studies.
- I hereby consent to the use by CTE, of all my confidential, medical, personal and other information required in order to facilitate the donation process. I furthermore consent to the use of information by the CTE for research purposes in order to improve improvements to the transplantation and donation processes.
- Should I decide not to proceed with the donation, I will immediately notify the treating physician of my decision. The withdrawal of my consent to make the donation will not impact the procedure in any way.

My informed consent, in terms of this consent form, relates only to the donation and the tests to be conducted on the tissue removed during the procedure. Any ancillary consents which I am required to give will be provided by me in separate consent forms.

I have had an opportunity to receive and read (or have explained or read to me in a language that I understand) and I fully comprehend the terms.

Donor Name & Surname

Signature

Date

Place

Witness 1 Name & Surname

Signature

Date

Place

Witness 2 Name & Surname

Signature

Date

Place

WHAT CHANGED?

- ▶ PROGRAM WAS PROFESSIONALISED AND BRANDED WHERE POSSIBLE
- ▶ TRAINING TO HOSPITAL STAFF WAS BROADENED:
 - ▶ HOSPITAL MANAGEMENT
 - ▶ UNIT MANAGERS
 - ▶ THEATRE STAFF
 - ▶ PRE-ADMISSION CLINIC
 - ▶ ADMISSIONS
 - ▶ ORTHOPAEDIC WARD STAFF
- ▶ COLLECTION OF DONATIONS ASSIGNED TO PATHOLOGY PARTNERS



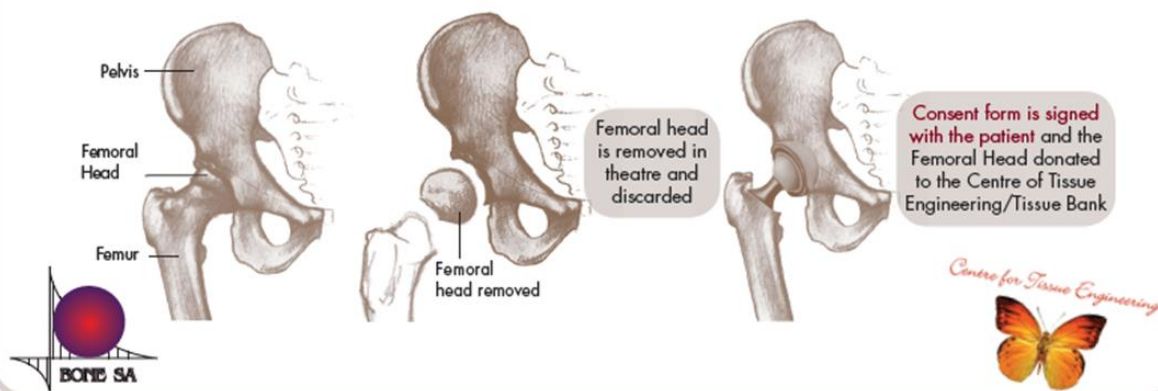
WHAT CHANGED?

- ▶ ACTIVATION MEETINGS WITH ORTHOPAEDIC SURGEONS
- ▶ TRAINING OF STAFF IN DOCTORS' SURGERIES
- ▶ PATIENT EDUCATION MATERIAL
- ▶ REPETITION! SHORT INTERVALS BETWEEN TRAINING SESSIONS

Having a hip replacement?

BECOME A **TISSUE** DONOR

Tissue Donors: Touch the lives of thousands of South Africans



BECOME A TISSUE DONOR

Healing through Innovation

- Living Donor**
Having a hip replacement?
Donate your femoral head bone instead of it being incinerated!
Give someone a gift.
- Cornea**
Can give sight!
Replaces diseased cornea, restores vision and prevents blindness.
- Bone**
Can prevent amputation!
Restores mobility and helps decrease pain.
- Skin**
Can save a life!
Skin is used for burn victims, prevents infection, promotes healing and reduces scarring.
- Heart valves**
Can save a life!
Can improve heart function.

Speak to your relatives and friends. Be sure they **KNOW** your intention to *Donate*



Speak to your family and make your decision known.

One tissue donor can save or enhance the lives of up to 65 people.

85% of people who die can help others as a tissue donor.



OUTCOME

| | JULY 14 TO JUNE 15 | JULY 15 TO JUNE 16 | JULY 16 TO JUNE 17 | JULY 17 TO JUNE 18 | JULY 18 TO JUNE 19 |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| NUMBER OF FEMORAL HEADS COLLECTED | 554 | 546 | 513 | 544 | 921 |

29 ACTIVELY PARTICIPATING HOSPITALS

22 DOCTORS ADDED

7 HOSPITALS REACTIVATED

BUSAMED MODEL 20% CONTRIBUTION FROM THREE HOSPITALS

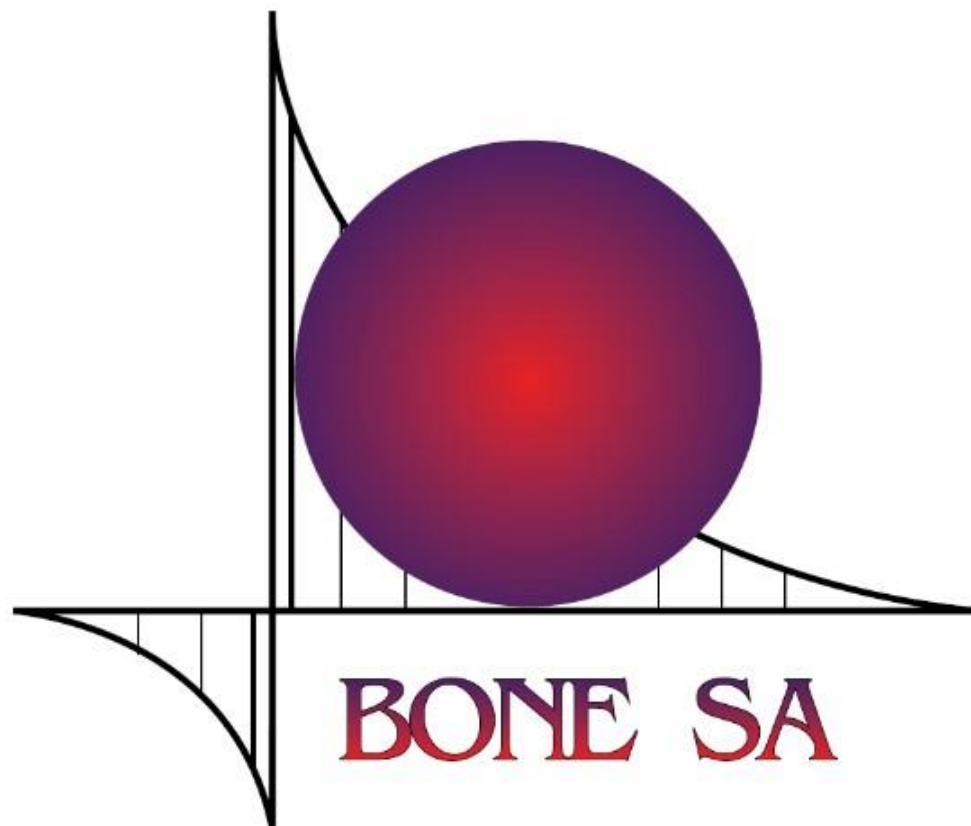


BUSAMED
Premium Care. Personal Touch.



LEARNINGS

- ▶ IT IS HARDER TO CHANGE EXISTING PROCESSES THAN TO START FRESH. REACTIVATION SLOWER THAN EXPECTED.
- ▶ IT IS OK TO ASK
- ▶ LACK OF DATA
- ▶ POTENTIAL PERMANENT PROCUREMENT STREAM



THANK YOU